

Call: HORIZON-EURATOM-2021-NRT-01
(Nuclear Research and Training)

Topic: HORIZON-EURATOM-2021-NRT-01-09

Type of Action: EURATOM-COFUND

Proposal number: 101061037

Proposal acronym: PIANOFORTE

Type of Model Grant Agreement: EURATOM Action Grant Budget-Based

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Administrative forms

Proposal ID **101061037**

Acronym **PIANOFORTE**

1 - General information

Fields marked * are mandatory to fill.

Topic	HORIZON-EURATOM-2021-NRT-01-09	Type of Action	EURATOM-COFUND
Call	HORIZON-EURATOM-2021-NRT-01	Type of Model Grant Agreement	EURATOM-AG

Acronym **PIANOFORTE**

Proposal title **Partnership for european research in radiation protection and detection of ionising radiation : towards a safer use and improved protection of the environment and human health.**

Note that for technical reasons, the following characters are not accepted in the Proposal Title and will be removed: < > " &

Duration in months **60**

Free keywords **Partnership, radiation protection, human health, environment, medical application, BSS, research, recommendations**

Abstract *

The ambition of the PIANOFORTE Partnership is to improve radiological protection of members of the public, patients, workers and environment in all exposure scenarios and provide solutions and recommendations for optimised protection in accordance with the Basic Safety Standards. Research projects focusing on identified research and innovation priorities will be selected through a serie of three competitive open calls.

The input to define the research priorities will be based on the priorities defined in the Joint Road Map (JRM) developed during the H2020 CONCERT EJP but also on the results of ongoing H2020 projects and on the expectations expressed by other actions carried out in other European programmes, in particular the SAMIRA action plan. High priority will be dedicated to medical applications considering that 1) medical exposures are, by far, the largest artificial source of exposure of the European population and 2) the fight against cancer is a top priority of the present European Commission. In order to ensure an appropriate continuity in the research goals and methodologies, in line with the contents of the CONCERT JRM, two other priorities have been identified to further understand and reduce uncertainties associated with health risk estimates for exposure at low doses in order to consolidate regulations and improve practices and to further enhance a science-based European methodology for emergency management and long-term recovery.

Once the research priorities defined, the open call system will promote excellence in science and widening participation through a process open to the whole radiation protection community. Beyond the research actions, the selected projects will be able to benefit from the system of sharing and mutualisation of infrastructures that will be implemented at the European level. This will be accompanied by education and training schemes for health workforce and young scientists to increase Europe's research capacity in the field.

Remaining characters **1**

Has this proposal (or a very similar one) been submitted in the past 2 years in response to a call for proposals under any EU programme, including the current call?

Yes No

Please give the proposal reference or contract number.

Administrative forms

Proposal ID **101061037**

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Declarations

Field(s) marked * are mandatory to fill.

- 1) We declare to have the explicit consent of all applicants on their participation and on the content of this proposal. *
- 2) We confirm that the information contained in this proposal is correct and complete and that none of the project activities have started before the proposal was submitted (unless explicitly authorised in the call conditions).
- 3) We declare:
- to be fully compliant with the eligibility criteria set out in the call
 - not to be subject to any exclusion grounds under the [EU Financial Regulation 2018/1046](#)
 - to have the financial and operational capacity to carry out the proposed project.
- 4) We acknowledge that all communication will be made through the Funding & Tenders Portal electronic exchange system and that access and use of this system is subject to the [Funding & Tenders Portal Terms and Conditions](#).
- 5) We have read, understood and accepted the [Funding & Tenders Portal Terms & Conditions](#) and [Privacy Statement](#) that set out the conditions of use of the Portal and the scope, purposes, retention periods, etc. for the processing of personal data of all data subjects whose data we communicate for the purpose of the application, evaluation, award and subsequent management of our grant, prizes and contracts (including financial transactions and audits).
- 6) We declare that the proposal complies with ethical principles (including the highest standards of research integrity as set out in the [ALLEA European Code of Conduct for Research Integrity](#), as well as applicable international and national law, including the Charter of Fundamental Rights of the European Union and the European Convention on Human Rights and its Supplementary Protocols. [Appropriate procedures, policies and structures](#) are in place to foster responsible research practices, to prevent questionable research practices and research misconduct, and to handle allegations of breaches of the principles and standards in the Code of Conduct.
- 7) We declare that the proposal has an exclusive focus on civil applications (activities intended to be used in military application or aiming to serve military purposes cannot be funded). If the project involves dual-use items in the sense of [Regulation 428/2009](#), or other items for which authorisation is required, we confirm that we will comply with the applicable regulatory framework (e.g. obtain export/import licences before these items are used).
- 8) We confirm that the activities proposed do not
- aim at human cloning for reproductive purposes;
 - intend to modify the genetic heritage of human beings which could make such changes heritable (with the exception of research relating to cancer treatment of the gonads, which may be financed), or
 - intend to create human embryos solely for the purpose of research or for the purpose of stem cell procurement, including by means of somatic cell nuclear transfer.
 - lead to the destruction of human embryos (for example, for obtaining stem cells)
- These activities are excluded from funding.
- 9) We confirm that for activities carried out outside the Union, the same activities would have been allowed in at least one EU Member State.

The coordinator is only responsible for the information relating to their own organisation. Each applicant remains responsible for the information declared for their organisation. If the proposal is retained for EU funding, they will all be required to sign a declaration of honour.

False statements or incorrect information may lead to administrative sanctions under the EU Financial Regulation.

Administrative forms

Proposal ID 101061037

Acronym PIANOFORTE

2 - Participants

List of participating organisations

#	Participating Organisation Legal Name	Country	Action
1	INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE	FR	
2	CENTRE D'ETUDE SUR L'EVALUATION DE LA PROTECTION DANS LE DOMAINE NUCLEAIRE	FR	
3	BUNDESAMT FUER STRAHLENSCHUTZ	DE	
4	STOCKHOLMS UNIVERSITET	SE	
5	KOMMUNALFORBUNDET AVANCERAD STRALBEHANDLING	SE	
6	Department of Health	UK	
7	THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE	UK	
8	THE UNIVERSITY OF EXETER	UK	
9	Association Melodi	FR	
10	STUDIECENTRUM VOOR KERNENERGIE / CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE	BE	
11	KATHOLIEKE UNIVERSITEIT LEUVEN	BE	
12	EUROPEAN RADIATION DOSIMETRY GROUP	DE	
13	STATNI USTAV RADIACNI OCHRANY v.v.i.	CZ	
14	ASSOCIATION DE LA PLATEFORME EUROPEENNE NERIS	FR	
15	ASSOCIATION ALLIANCE EUROPEENNE ENRADIOECOLOGIE	FR	
16	European Platform for Social Sciences and Humanities Research relating to Ionizing Radiation	BE	
17	EUROPEAN ALLIANCE FOR MEDICAL RADIATION PROTECTION RESEARCH (EURAMED)EUROPAISCHE ALLIANZ FUR STRAHLENSCHUTZ-FORSCHUNG IM MEDIZIN	AT	
18	OTTO-VON-GUERICKE-UNIVERSITAET MAGDEBURG	DE	
19	INSTITUTUL DE FIZICA ATOMICA	RO	
20	NEMZETI NEPEGESZSEGUGYI KOZPONT	HU	
21	TARTU ULIKOOL	EE	

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Acronym **PIANOFORTE**

22	GLOWNY INSTYTUT GORNICTWA	PL
23	THE HENRYK NIEWODNICZANSKI INSTITUTE OF NUCLEAR PHYSICS, POLISH ACADEMY OF SCIENCES	PL
24	NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	EL
25	ITA-SUOMEN YLIOPISTO	FI
26	SATEILYTURVAKESKUS	FI
27	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT	ES
28	MERIENCE SCP	ES
29	NARODOWE CENTRUM BADAN I ROZWOJU	PL
30	ISTITUTO SUPERIORE DI SANITA	IT
31	ENERGIATUDOMANYI KUTATOKOZPONT	HU
32	INSTITUT JOZEF STEFAN	SI
33	Elektroinstitut Milan Vidmar	SI
34	DIREKTORATET FOR STRALEVERN OG ATOMSIKKERHET	NO
35	NORGES MILJO-OG BIOVITENSKAPLIGE UNIVERSITET	NO
36	Radiation Protection Division of the Federal Office of Public Health	CH
37	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	FR
38	UNIVERSITE DE CAEN NORMANDIE	FR
39	INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE	FR
40	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	FR
41	AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE	IT
42	UNIVERSITA DEGLI STUDI DI PAVIA	IT
43	FORSVARET OG FORSVARSMINISTERIETS STYRELSE	DK
44	HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV	DE
45	ELLINIKI EPITROPI ATOMIKIS ENERGEIAS	EL
46	Institut za medicinska istrazivanja i medicinu rada	HR

Administrative forms

Proposal ID **101061037**

Acronym **PIANOFORTE**

47	SVEUCILISTE U ZAGREBU RUDARSKO-GEOLOSKO-NAFTNI FAKULTET	HR
48	AGENCIA PORTUGUESA DO AMBIENTE IP	PT
49	INSTITUTO SUPERIOR TECNICO	PT
50	RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU	NL
51	NUCLEAR RESEARCH AND CONSULTANCY GROUP	NL
52	STRALSAKERHETSMYNDIGHETEN	SE
53	LATVIJAS UNIVERSITATE	LV
54	ISTITUTO NAZIONALE DI FISICA NUCLEARE	IT
55	NATSIONALEN TSENTAR PO RADIOBIOLOGIYA I RADIATIONNA ZASHTITA	BG
56	Úrad verejného zdravotníctva SR	SK
57	Ministero dell'università e della ricerca	IT
58	ENVIRONMENTAL PROTECTION AGENCY OF IRELAND	IE

Organisation data

PIC	Legal name
999480726	INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE
Short name: IRSN	
Address	
Street	AV DE LA DIVISION LECLERC 31
Town	FONTENAY AUX ROSES
Postcode	92260
Country	France
Webpage	http://www.irsn.fr
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is no (small- and medium-sized enterprise) for the call.	
SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Institut de radioprotection et de Surete Nucleaire not applicable

Same as proposing organisation's address

Street AV DE LA DIVISION LECLERC 31

Town FONTENAY AUX ROSES

Postcode 92260

Country France

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **jean-christophe**

Last name* **GARIEL**

E-Mail* **jean-christophe.gariel@irsn.fr**

Position in org. **Deputy-Director-general**

Department **INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE**

Same as organisation name

Same as proposing organisation's address

Street **AV DE LA DIVISION LECLERC 31**

Town **FONTENAY AUX ROSES**

Post code **92260**

Country **France**

Website **www.irsn.fr**

Phone **+33687806553**

Phone 2 **+XXX XXXXXXXXXX**

Other contact persons

First Name	Last Name	E-mail	Phone
radia	tamarat	radia.tamarat@irsn.fr	jean-christophe.gari
Didier	Mestraletti	didier.mestraletti@irsn.fr	jean-christophe.gari

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Jean-Christophe	GARIEL	Man	France	jean-christophe.gariel@irsn.fr	Category A Top grade	Leading		
Dr	Radia	TAMARAT	Woman	France	radia.tamarat@irsn.fr	Category B Senior	Leading		
Dr	Rodolphe	GILBIN	Man	France	rodolphe.gilbin@irsn.fr	Category B Senior	Team member		
Dr	Marc	BENDERITTER	Man	France	marc.benderitter@irsn.fr	Category B Senior	Team member		
Dr	Sylvie	CHARRON	Woman	France	sylvie.charron@irsn.fr	Category B Senior	Team member		
Dr	Jean Francois	BOTTOLIER	Man	France	jean-francois.bottolier@irsn.fr	Category B Senior	Team member		
Dr	Dominique	LAURIER	Man	France	dominique.laurier@irsn.fr	Category B Senior	Team member		
Dr	Maxence	NICOLAY	Man	France	maxence.nicolay@irsn.fr	Category D First stage	Team member		
Dr	Cynthia	REAUD	Woman	France	cynthia.reaud@irsn.fr	Category C Recognized	Team member		
Dr	Lauréline	FEVRIER	Woman	France	laureline.fevrier@irsn.fr	Category B Senior	Team member		
	Marie	SIMON-CORNU	Woman	France	marie.simon-cornu@irsn.fr	Category B Senior	Team member		

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input checked="" type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input checked="" type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Early Detection of Cardiovascular Changes After Radiotherapy for Breast Cancer: Protocol for a European Multicenter Prospective Cohort Study (MEDIRAD EARLY HEART Study).</i> Valentin Walker, Anne Crijns, Johannes Langendijk, Daan Spoor, Rozemarijn Vliegenthart, Stephanie E Combs, Michael Mayinger, Arantxa Eraso, Ferran Guedea, Manuela Fiuza, Susana Constantino, Radia Tamarat, Dominique Laurier, Jean Ferrières, Elie Mousseaux, Elisabeth Cardis, Sophie Jacob. <i>JMIR Res Protoc.</i> 2018 Oct; 7(10): e178.
Publication	<i>An updated strategic research agenda for the integration of radioecology in the European radiation protection research.</i> Gilbin, R., Arnold, T., Beresford, N.A.B., Berthomieu, C., Brown, J.E., de With, G., Horemans, N., Madruga, M.J., Masson, O., Merroun, M., Michalik, B., Muikku, M., O'Toole, S., Mrdakovic Popic, J., Nogueira, P., Real, A., Sachs, S., Salbu, B., Stark, K., Steiner, M., Sweeck, L., Vandenhove, H., Vidal, M., Vives i Batlle, J. (2021). <i>Journal of Environmental Radioactivity, i</i>
Publication	<i>Early life ionizing radiation exposure and cancer risks: systematic review and meta-analysis.</i> Abalo KD, Rage E, Leuraud K, Richardson DB, Le Pointe HD, Laurier D, Bernier MO. <i>Pediatr Radiol.</i> 2021 Jan;51(1):45-56. doi: 10.1007/s00247-020-04803-0.
Publication	<i>The OpenRadiation project: Monitoring radioactivity in the environment by and for the citizens.</i> J.F. Bottollier-Depois, E. Allain, G. Baumont, N. Berthelot, G. Darley, F. Ecrabet, T. Jolivet, A. Lebeau-Livé, V. Lejeune, F. Quéinnec, C. Simon, F. Trompier, <i>Radioprotection</i> 2019, 54(4), 241–246.
Publication	<i>Estimation of Fukushima radio-caesium deposits by airborne surveys: sensitivity to the flight-line spacing.</i> Pedram Masoudi, Mathieu Le Coz, Marc André Gonze, Charlotte Cazala, 2020. <i>Journal of Environmental Radioactivity.</i> 222: 106318. https://doi.org/10.1016/j.jenvrad.2020.106318

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
OPERRA	<i>Open Project for European Radiation Research Area.</i> www.melodi-online.eu/operra.html . IRSN coordinates the OPERRA project
MEDIRAD	<i>Implications of Medical Low Dose Radiation Exposure.</i> http://www.medirad-project.eu . IRSN led one WP and co-lead another one.
EURAMED Rocc'n Roll	<i>EUROpeAn MEDical application and Radiation prOteCtion Concept: strategic research agenda aNd ROadmap interLinking to heaLth and digitisation aspects.</i> https://www.roccnroll.euramed.eu/ . IRSN is partner of the project.
TERRITORIES	<i>EJP CONCERT project (2017-2020) – contribution to address uncertainties of radiological risk assessments in long-lasting radiological exposure</i>
STAR	<i>EC EURATOM FP7 Network of Excellence for Radioecology (2011-2015) – co-lead of WP4 to consider the context of multi-pollution in radioecology</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
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Administrative forms

<i>Platforms</i>	<i>Medical Linear accelerator for preclinical research (radiotherapy) Small Animal Radiation Research Platform (SARRP) for preclinical research (radiotherapy). PARISII animal platform dedicated to Preclinical research for medical application (Radionuclides). High resolution microCT Platform</i>
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Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
991982044	CENTRE D'ETUDE SUR L'EVALUATION DE LA PROTECTION DANS LE DOMAINE NUCLEAIRE
Short name: CEPN	
Address	
Street	Route de la Redoute 28
Town	Fontenay-aux-Roses
Postcode	92260
Country	France
Webpage	www.cepn.asso.fr
Specific Legal Statuses	
Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	24/11/1976 - yes
SME self-assessment	unknown
SME validation	24/11/1976 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Institut de radioprotection et de Surete Nucleaire not applicable

Same as proposing organisation's address

Street AV DE LA DIVISION LECLERC 31

Town FONTENAY AUX ROSES

Postcode 92260

Country France

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement

Short description (Max 500 characters)

--	--

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity

Short description (Max 500 characters)

--	--

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment

Short description (Max 300 characters)

--	--

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999517877	BUNDESAMT FUER STRAHLENSCHUTZ

Short name: BUNDESAMT FUER STRAHLENSCHUTZ

Address

Street	Willy-Brandt-Strasse 5
Town	SALZGITTER
Postcode	38226
Country	Germany
Webpage	http://www.bfs.de

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

No department involved

Department name *Name of the department/institute carrying out the work.* not applicable

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Postcode *Area code.*

Country *Please select a country*

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Florian**

Last name* **Rauser**

E-Mail* **frauser@bfs.de**

Position in org. Vice president

Department BUNDESAMT FUER STRAHLENSCHUTZ Same as organisation name

Same as proposing organisation's address

Street Willy-Brandt-Strasse 5

Town SALZGITTER Post code 38226

Country Germany

Website https://www.bfs.de

Phone +XXX XXXXXXXXXX Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Mandy	Birschwilks	mbirschwilks@bfs.de	+XXX XXXXXXXXXX
Susan	Fischer	sfischer@bfs.de	+XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Florian	Rauser	Man	Germany	frauser@bfs.de		Leading		
Dr	Mandy	Birschwilks	Woman	Germany	mbirschwilks@bfs.de		Team member	0000-0003-1630-9910	Orcid ID
Dr	Omid	Azimzadeh	Man	Germany	oazimzadeh@bfs.de		Leading	0000-0001-8984-0388	Orcid ID
Dr	Ulrike	Kulka	Woman	Germany	ukulka@bfs.de		Team member	0000-0002-7734-3162	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<p>RENEB – Running the European Network of biological dosimetry and physical retrospective dosimetry, Kulka et al. ; International Journal of Radiation Biology, 93:1, 2-14, DOI: 10.1080/09553002.2016.1230239</p> <p>RENEB/EURADOS field exercise 2019: robust dose estimation under outdoor conditions based on the dicentric chromosome assay. Endesfelder D, et al. ;Int J Radiat Biol.2021;97(9):1181-1198. doi: 10.1080/09553002.2021.1941380</p>
Publication	<p>Funding for radiation research: past, present and future, Cho et al.; International Journal of Radiation Biology2019, Vol. 95, No. 7, 816-840 https://doi.org/10.1080/09553002.2018.1558303</p>
Other achievement	<p>https://www.storedb.org</p>
Publication	<p>Chronic Occupational Exposure to Ionizing Radiation Induces Alterations in the Structure and Metabolism of the Heart: A Proteomic Analysis of Human Formalin-Fixed Paraffin-Embedded (FFPE) Cardiac Tissue. Azimzadeh O, et al.;Int J Mol Sci. 2020 Sep 17;21(18):6832. doi: 10.3390/ijms21186832.PMID: 32957660</p>
Other achievement	<p>Joint research activities and roadmaps guide radiation protection research in Europe; Results in brief-BfS coordination https://cordis.europa.eu/article/id/422557-joint-research-activities-and-roadmaps-guide-radiation-protection-research-in-europe</p>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
RENEB	<p>RENEB is an international network for individual dose estimates after a radiation accident. To be able to effectively estimate the potential individual radiation dose received by as many affected persons as possible in the event of a major radiation accident, the RENEb was established under the auspice of BfS in 2017.</p>
DoReMi	<p>DoReMi promoted sustainable integration of low dose risk research in Europe in order to more effectively resolve the key policy questions identified by the HLEG. The DoReMi addressed the health risks of low doses of ionising radiation such as those that are encountered in the environment, occupationally and in the course of medical diagnostic procedures.</p>
OPERRA	<p>The objective of the project was to support the Multidisciplinary European Low Dose Initiative (MELODI) in building an umbrella structure for the long-term integration of radiation protection research in Europe.</p> <p>The umbrella structure covers the main areas of radiation protection:</p> <ul style="list-style-type: none"> - effects from low doses of ionizing radiation - radioecology and emergency preparedness - dosimetry and radiation protection for medical applications.
EJP-CONCERT	<p>The "CONCERT-EJP", co-ordinated by the BfS 2015-2020, aimed to contribute to the sustainable integration of European and national research programmes in radiation protection, strived to achieve the attraction and pooling of national research effort + supported the development of strategic research agendas, the recommendation of research priorities and the development of research road maps in all major sectors of radiation protection research via the platform activities</p>
RadoNorm	<p>Under the leadership of the BfS, 56 European institutions collaborate between 2020-2025 to improve the protection of workers and the general public against the radioactive gas radon and residues from industrial processes involving elevated natural radioactivity (NORMs).</p>

Administrative forms

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>STOREdb</i>	<i>STORE is a free and open database and permits users to upload and share experimental, observational or epidemiological data from recently completed or ongoing studies. Users can archive primary or derived data, and maintain control over dissemination through CC-licensing and user-defined security.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999885022	STOCKHOLMS UNIVERSITET

Short name: STOCKHOLMS UNIVERSITET

Address

Street	UNIVERSITETSVAGEN 10
Town	STOCKHOLM
Postcode	10691
Country	Sweden
Webpage	www.su.se

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name The Department of Molecular Biosciences, The Wenner-Gren Institut not applicable

Same as proposing organisation's address

Street Svante Arrehniusväg 20C

Town Stockholm

Postcode 10691

Country Sweden

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Prof.

Gender Woman Man Non Binary

First name* **Andrzej**

Last name* **Wojcik**

E-Mail* **andrzej.wojcik@su.se**

Position in org. Group Leader

Department The Department of Molecular Biosciences, The Wenner-Gren Institute (MBW)

Same as organisation name

Same as proposing organisation's address

Street Svante Arrheniusväg 20C

Town Stockholm

Post code 10691

Country Sweden

Website https://www.su.se/mbw/

Phone +468161217

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Iuliana	Toma-Dasu	iuliana.livia.dasu@fysik.su.se	+46851774839
Viviana	Stechina	viviana.stechina@su.se	+468162257

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Prof	Andrzej	Wojcik	Man	Sweden	andrzej.wojcik@s u.se	Category A Top grade	Leading	0000-0002-3951- 774X	Orcid ID
Prof	Iuliana	Toma-Dasu	Woman	Sweden	iuliana.livia.dasu @fysik.su.se	Category A Top grade	Team member	0000-0002-7101- 240X	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>K. E. Applegate, W. Rühm, A. Wojcik, M. Bourguignon, A. Brenner, K. Hamasaki, T. Imai, M. Imaizumi, T. Imaoka, S. Kakinuma, T. Kamada, N. Nishimura, N. Okonogi, K. Ozasa, C. E. Rube, A. Sadakane, R. Sakata, Y. Shimada, K. Yoshida & S. Bouffler. Individual response of humans to ionising radiation: governing factors and importance for radiological protection. Radiat Environ Biophys. 59(2):185-209, 2020. doi: 10.1007/s00411-020-00837-y.</i>
Publication	<i>Wojcik A, Harms-Ringdahl M. Radiation protection biology then and now. Int J Radiat Biol. 2019 Jul;95(7):841-850. doi: 10.1080/09553002.2019.1589027.</i>
Publication	<i>Plodowska, M, Lopez-Riego M, Akuwudike P, Sobota D, Filipek M, Kłosowski M, Kaźmierczak U, Brzozowska B, Baliga A, Lisowska H, Braziewicz J, Olko P, Lundholm L, Wojcik A. Small is beautiful: low activity alpha and gamma sources for small-scale radiation protection research experiments. Int J Radiat Biol. 2021, DOI:10.1080/09553002.2021.1867925</i>
Publication	<i>Wojcik A, Schenk L, Enghag M, Lundegard I, Arvanitis, L, Haglund K, Hamza K. Educating about radiation risks in high schools: towards an improved understanding of the complexity of low dose radiation health effects, Radiat Environ Biophys, 58: 13-20. 2019. doi:10.1007/s00411-018-0763-4</i>
Publication	<i>Rühm W, Friedl AA, Wojcik A. Coordinated radiation protection research in Europe: is it the beginning of a new era? Radiat Environ Biophys. 57(1):1-4, 2018. doi: 10.1007/s00411-017-0727-0.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
DOREMI	<i>DOREMI was a NoE to promote sustainable integration of low dose risk research in Europe in order to more effectively resolve the key policy questions, namely the shape(s) of dose response relation-ship(s), variation in risk between individuals, tissue sensitivity for cancer, radiation quality, risks from internal exposures and non-cancer effects. It funded research projects identified via open calls. SU was a partner.</i>
OPERRA	<i>OPERRA was a project with the aim to exploit synergies of EURATOM and other EC programmes considering the most relevant joint programme areas and mechanisms for funding joint activities. It strengthened links with national funding programmes, E&T structures, integrated the joint use of infrastructures and funded research projects identified via open calls. SU was a partner.</i>
CONCERT	<i>CONCERT was an EJP which brought together the elements of the European scientific communities in the fields of radiation effects and risks, radioecology, nuclear emergency preparedness, dosimetry and medical radiation protection, to develop radiation research competence in a multidisciplinary mode to reduce further the uncertainties in radiation protection. It funded research projects identified via open calls. SU was subtask leader.</i>
SINFONIA	<i>SINFONIA is a RIA to develop novel methodologies and tools that will provide a comprehensive a risk appraisal for detrimental effects of radiation exposure on patients, workers, carers and comforters, the public and the environment during the management of patients suspected or diagnosed with cancer. It provides high-level training in the field of radiation dosimetry, risk appraisal and radiation protection and develop recommendations on radiological protection. SU is Work Package leader.</i>
RADONORM	<i>RadoNorm is a RIA aiming at managing risk from radon and NORM exposure situations to assure effective radiation protection based on improved scientific evidence and social considerations. It is designed to initiate and perform research and technical development in support of EU Member States in their efforts to implement the European radiation protection Basic Safety Standards. SU is Work Package leader.</i>

Administrative forms

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>Radiation exposure facility</i>	<i>Plodowska, M, Lopez-Riego M, Akuwudike P, Sobo78. Staaf E, Brehwens K, Haghdoost S, Pachnerova-Brabcova K, Czub J, Braziewicz J, Nievaart S, Wojcik A. Characterization of a setup for mixed beams exposure of cells to 241Am alpha particles and X-rays. Radiation Protection Dosimetry 151:570-579, 2012.</i>
<i>Radiation exposure facility</i>	<i>Staaf E, Brehwens K, Haghdoost S, Pachnerova-Brabcova K, Czub J, Braziewicz J, Nievaart S, Wojcik A. Characterization of a setup for mixed beams exposure of cells to 241Am alpha particles and X-rays. Radiation Protection Dosimetry 151:570-579, 2012.</i>
<i>Biological dosimetry network</i>	<i>Kulka U, et al. Realising the European network of Excellence in Biological Dosimetry. Radiat Prot Dosimetry 151:621-625, 2012.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
922888944	KOMMUNALFORBUNDET AVANCERAD STRALBEHANDLING

Short name: KOMMUNALFORBUNDET AVANCERAD STRALBEHANDLING

Address

Street	VON KRAEMERS ALLE 26
Town	UPPSALA
Postcode	752 37
Country	Sweden
Webpage	www.skandionkliniken.se

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name The Department of Molecular Biosciences, The Wenner-Gren Institut not applicable

Same as proposing organisation's address

Street Svante Arrheniusväg 20C

Town Stockholm

Postcode 10691

Country Sweden

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement

Short description (Max 500 characters)

--	--

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity

Short description (Max 500 characters)

--	--

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment

Short description (Max 300 characters)

--	--

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
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 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
986454887	Department of Health
Short name: DH	
Address	
Street	Quarry House, Quarry Hill
Town	Leeds
Postcode	LS2 7UE
Country	United Kingdom
Webpage	www.dh.gov.uk
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is no (small- and medium-sized enterprise) for the call.	
SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name	Radiation Effects Department	<input type="checkbox"/> not applicable
	<input type="checkbox"/> Same as proposing organisation's address	
Street	CRCE	
Town	Chilton, Didcot	
Postcode	OX11 0RQ	
Country	United Kingdom	

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Simon**

Last name* **Bouffler**

E-Mail* **simon.bouffler@phe.gov.uk**

Position in org. Head of Department

Department Radiation Effects Department

Same as organisation name

Same as proposing organisation's address

Street CRCE

Town Chilton, Didcot

Post code OX11 0RQ

Country United Kingdom

Website https://www.phe-protectionservices.org.uk/radiationeffects

Phone +44(0)1235825086

Phone 2 +4407881811197

Other contact persons

First Name	Last Name	E-mail	Phone
Bernie	Hannigan	bernie.hannigan@phe.gov.uk	+XXX XXXXXXXXXX
Margaret	Mauchline	margaret.mauchline@phe.gov.uk	+XXX XXXXXXXXXX
Svetlana	Carr	svetlana.carr@phe.gov.uk	+44(0)1235825046
John	Newton	john.newton@phe.gov.uk	+XXX XXXXXXXXXX
Liz	Ainsbury	liz.ainsbury@phe.gov.uk	+44(0)1235825105

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Simon	Bouffler	Man	United Kingdom	simon.bouffler@phe.gov.uk	Category A Top grade	Team member	0000-0003-1883-919X	Orcid ID
Dr	Liz	Ainsbury	Woman	United Kingdom	liz.ainsbury@phe.gov.uk	Category B Senior	Team member	0000-0001-8076-6978	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Endesfelder D, et al RENE/ EURADOS field exercise 2019: robust dose estimation under outdoor conditions based on the dicentric chromosome assay. Int J Radiat Biol. 2021;97(9):1181-1198. doi: 10.1080/09553002.2021.1941380. Epub 2021 Jul 7. PMID: 34138666.</i>
Publication	<i>Harrison RM, Ainsbury E, Alves J, Bottollier-Depois JF, Breustedt B, Caresana M, Clairand I, Fantuzzi E, Fattibene P, Gilvin P, Hupe O, Knežević Ž, Lopez MA, Olko P, Olšovcová V, Rabus H, Rühm W, Silari M, Stolarczyk L, Tanner R, Vanhavere F, Vargas A, Woda C. EURADOS STRATEGIC RESEARCH AGENDA 2020: VISION FOR THE DOSIMETRY OF IONISING RADIATION. Radiat Prot Dosimetry. 2021 May 31;194(1):42-56. doi: 10.1093/rpd/ncab063. PMID: 33989429; PMCID: PMC8165425.</i>
Publication	<i>Kreuzer M, Auvinen A, Cardis E, Durante M, Harms-Ringdahl M, Jourdain JR, Madas BG, Ottolenghi A, Pazzaglia S, Prise KM, Quintens R, Sabatier L, Bouffler S. Multidisciplinary European Low Dose Initiative (MELODI): strategic research agenda for low dose radiation risk research. Radiat Environ Biophys. 2018 Mar;57(1):5-15. doi: 10.1007/s00411-017-0726-1. Epub 2017 Dec 15. PMID: 29247291; PMCID: PMC5816101.</i>
Publication	<i>Della Monaca S, Dini V, Grande S, Palma A, Tkaczyk AH, Koch R, Murakas R, Perko T, Duranova T, Salomaa S, Roivainen P, Willrodt C, Grigioni M, Bouffler SD. Assessing radiation risk perception by means of a European stakeholder survey. J Radiol Prot. 2021 Apr 13. doi: 10.1088/1361-6498/abf75a. Epub ahead of print. PMID: 33848995.</i>
Publication	<i>Clement C, Ruehm W, Harrison JD, Applegate KE, Cool D, Larsson CM, Cousins C, Lochard J, Bouffler SD, Cho K, Kai M, Laurier D, Liu S, Romanov SA. Keeping the ICRP recommendations fit for purpose. J Radiol Prot. 2021 Jul 20. doi: 10.1088/1361-6498/ac1611. Epub ahead of print. PMID: 34284364.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT	<i>H2020 partnership in radiation protection research</i>
DoReMi	<i>FP7 EU project on low dose risk research</i>
RISK-IR	<i>FP7 EU project on effects of low dose radiation on stem cells</i>
LD-LensRad	<i>CONCERT supported project on low dose radiation cataract risk and mechanisms</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999977172	THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE

Short name: THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE

Address

Street	TRINITY LANE THE OLD SCHOOLS
Town	CAMBRIDGE
Postcode	CB2 1TN
Country	United Kingdom
Webpage	www.cam.ac.uk

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Radiation Effects Department not applicable

Same as proposing organisation's address

Street CRCE

Town Chilton, Didcot

Postcode OX11 0RQ

Country United Kingdom

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement

Short description (Max 500 characters)

--	--

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity

Short description (Max 500 characters)

--	--

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment

Short description (Max 300 characters)

--	--

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999864555	THE UNIVERSITY OF EXETER

Short name: UNEXE

Address

Street	THE QUEEN'S DRIVE NORTHCOTE HOUSE
Town	EXETER
Postcode	EX4 4QJ
Country	United Kingdom
Webpage	www.ex.ac.uk

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	06/08/2014 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Radiation Effects Department not applicable

Same as proposing organisation's address

Street CRCE

Town Chilton, Didcot

Postcode OX11 0RQ

Country United Kingdom

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement

Short description (Max 500 characters)

--	--

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity

Short description (Max 500 characters)

--	--

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment

Short description (Max 300 characters)

--	--

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
953916043	Association Melodi

Short name: Association Melodi

Address

Street	Avenue de la division Leclerc 31
Town	Fontenay aux Roses
Postcode	92262
Country	France
Webpage	www.melodi-online.eu

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is **not an SME** (small- and medium-sized enterprise) for the call.

SME self-declared status	21/01/2011 - no
SME self-assessment	unknown
SME validation	21/01/2011 - no

Administrative forms

Departments carrying out the proposed work

No department involved

Department name *Name of the department/institute carrying out the work.* not applicable

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Postcode *Area code.*

Country *Please select a country*

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Nathalie**

Last name* **Impens**

E-Mail* **nathalie.impens@sckcen.be**

Position in org. Vice Chair

Department Association Melodi

Same as organisation name

Same as proposing organisation's address

Street Avenue de la division Leclerc 31

Town Fontenay aux Roses

Post code 92262

Country France

Website https://melodi-online.eu/

Phone +32 498850291

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Jean-Rene	Jourdain	jean-rene.jourdain@irsn.fr	+33 670307720

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Nathalie	Impens	Woman	Belgium	nathalie.impens@sckcen.be	Category B Senior	Leading	0000-0001-5058-1550	Orcid ID
Dr	Jean-René	Jourdain	Man	France	jean-rene.jourdain@irsn.fr	Category A Top grade	Leading	0000-0001-7961-6753	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Nathalie R E N Impens and Sisko Salomaa 2021 J. Radiol. Prot. 41 S285 The joint roadmap for radiation protection research: outreach and future.</i>
Publication	<i>Tapio S, Little MP, Kaiser J C, Impens N, Hamada N, Georgakilas A G, Simar D and Salomaa S2020 Ionizing radiation-induced circulatory and metabolic diseases Environ. Int. 146106235</i>
Publication	<i>Lumniczky Ket al2021 Low dose ionizing radiation effects on the immune system Environ. Int. 149106212</i>
Publication	<i>Seibold Pet al2020 Clinical and epidemiological observations on individual radiation sensitivity and susceptibility Int. J. Radiat. Biol. 96324</i>
Publication	<i>Gomolka M, Blyth B, Bourguignon M, Badie C, Schmitz A, Talbot C, Hoeschen C and Salomaa S2020 Potential screening assays for individual radiation sensitivity and susceptibility and their current validation state Int. J. Radiat. Biol. 96280</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>EJP CONCERT</i>	<i>H2020 European Joint Programme prior to the PIANOFORTE project proposal: MELODI platform contribution to the SRA updates and the joint roadmap</i>
<i>EURAMED rocc-n-roll</i>	<i>MELODI platform contribution to priorities in line with EURAMED</i>
<i>FP7 OPERRA</i>	<i>MELODI was the main founder of bringing the different radiation protection research platforms together in Memoranda of Understanding</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>MELODI association</i>	<i>The association does not have infrastructure, but has 3 working groups, on E&T, SRA, and Infrastructure</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999986775	STUDIECENTRUM VOOR KERNENERGIE / CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE

Short name: SCK CEN

Address

Street	AVENUE HERRMANN DEBROUX 40
Town	BRUXELLES
Postcode	1160
Country	Belgium
Webpage	www.sckcen.be

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **not** an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	31/12/2014 - no
SME self-assessment	31/12/2014 - no
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Environment, Health and Safety not applicable

Same as proposing organisation's address

Street Boeretang 200

Town Mol

Postcode 2400

Country Belgium

Links with other participants

Type of link	Participant
Controls	KATHOLIEKE UNIVERSITEIT LEUVEN

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Filip**

Last name* **Vanhavere**

E-Mail* **filip.vanhavere@sckcen.be**

Position in org. **Deputy Director EHS Institute**

Department **Environment,Health and Safety**

Same as organisation name

Same as proposing organisation's address

Street **Boeretang 200**

Town **Mol**

Post code **2400**

Country **Belgium**

Website **www.sckcen.be**

Phone **+32 14 33 28 59**

Phone 2 **+XXX XXXXXXXXX**

Other contact persons

First Name	Last Name	E-mail	Phone
Hildegarde	Vandenhove	hildegarde.vandenhove@sckcen.be	+32 14 33 28 78
Ann	Wouters	ann.wouters@sckcen.be	+32 14 33 35 07
Sofie	Heroes	sofie.heroes@kuleuven.be	+XXX XXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Catrinel	Turceanu	Woman	Romania	catrinel.turceanu@sckcen.be	Category B Senior	Team member		Researcher ID
Dr	Tanja	Perko	Woman	Slovenia	tanja.perko@sckcen.be	Category B Senior	Team member		Researcher ID
Dr	Michelle	Coeck	Woman	Belgium	michelle.coeck@sckcen.be	Category B Senior	Team member		Researcher ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input checked="" type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>CONCERT</i>	<i>European Joint Programme for the Integration of Radiation Protection</i>
<i>MEDIRAD</i>	<i>Aims to enhance the scientific bases and clinical practice of radiation protection in the medical field</i>
<i>RoccnRoll</i>	<i>EUROPEAN MEDICAL application and Radiation protection Concept: strategic research agenda and ROADMAP interLinking to health and digitisation</i>
<i>HARMONIC</i>	<i>Harmonic is a European-funded project aiming at better understanding the long-term health effects of medical exposure to ionising radiation in children</i>
<i>EURAD</i>	<i>European Joint Programme on radioactive waste management</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999991334	KATHOLIEKE UNIVERSITEIT LEUVEN

Short name: KU Leuven

Address

Street	OUDE MARKT 13
Town	LEUVEN
Postcode	3000
Country	Belgium
Webpage	www.kuleuven.be

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	12/08/1911 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name	Sociology, Philosophy & Anthropology	<input type="checkbox"/> not applicable
	<input checked="" type="checkbox"/> Same as proposing organisation's address	
Street	OUDE MARKT 13	
Town	LEUVEN	
Postcode	3000	
Country	Belgium	

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
994710072	EUROPEAN RADIATION DOSIMETRY GROUP

Short name: EURADOS

Address

Street	INGOLSTADTER LANDSTR 1
Town	OBERSCHLEISSHEIM
Postcode	85764
Country	Germany
Webpage	www.eurados.org

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	unknown
Secondary or Higher education establishment	no
Research organisation	unknown

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

No department involved

Department name *Name of the department/institute carrying out the work.* not applicable

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Postcode *Area code.*

Country *Please select a country*

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Jean-Francois**

Last name* **Bottollier**

E-Mail* **jeanfrancois.bottollier@irsn.fr**

Position in org. **Secretary**

Department **EUROPEAN RADIATION DOSIMETRY GROUP**

Same as organisation name

Same as proposing organisation's address

Street **INGOLSTADTER LANDSTR 1**

Town **OBERSCHLEISSHEIM**

Post code **85764**

Country **Germany**

Website **https://eurados.sckcen.be/**

Phone **+XXX XXXXXXXXXX**

Phone 2 **+XXX XXXXXXXXXX**

Other contact persons

First Name	Last Name	E-mail	Phone
Kerstin	Huerkamp	kerstin.huerkamp@helmholtz-muenchen.de	+XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Filip	Vanhavere	Man	Belgium	filip.vanhavere@ckcen.be	Category A Top grade	Team member		
Dr	Pawel	Olko	Man	Poland	Pawel.Olko@ifj.edu.pl	Category A Top grade	Team member		
Dr	Jean-François	Bottollier-Depois	Man	France	jeanfrancois.bottollier@irsn.fr	Category A Top grade	Team member		
Dr	Isabelle	Clairand	Woman	France	isabelle.clairand@irsn.fr	Category B Senior	Team member		

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Harmonisation of practices in radiation protection

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	Rühm, W., Ainsbury, E. A., Breustedt, B., Caresana, M., Gilvin, P., Knežević, Ž., Rabus, H., Stolarczyk, L., Vargas, A., Bottollier-Depois, J. F., Harrison, R., Lopez, M. A., Stadtmann, H., Tanner, R., Vanhavere, F., Woda, C., Clairand, I., Fantuzzi, E., Fattibene, P., Hupe, O., Olko, P., Olšovcová, V., Schuhmacher, H., Alves, J. G., Miljanić, S., 2020. The European radiation dosimetry group – Review of recent scientific achievements. <i>Radiation Physics and Chemistry</i> 168, 108514 (EURADO)
Publication	Alves, J. G., Fantuzzi, E., Rühm, W., Gilvin, P., Vargas, A., Tanner, R., Rabus, H., Lopez, M. A., Breustedt, B., Harrison, R., Stolarczyk, L., Fattibene, P., Woda, C., Caresana, M., Knežević, Ž., Bottollier-Depois, J. F., Clairand, I., Mayer, S., Miljanić, S., Olko, P., Schuhmacher, H., Stadtmann, H., Vanhavere, F., 2019. EURADOS education and training activities. <i>Review. J Radiol Prot.</i> 39, 126-135 (EURADOS council)
Publication	10th EURADOS Winter School "Internal dosimetry for radiation protection and medicine" 2nd March 2017- EURADOS Annual Meeting AM2017. TullaHörsaal KIT Campus Süd.(Karlsruhe, Germany)
Publication	Rühm W, Fantuzzi E, Harrison R, Schuhmacher H, Vanhavere F, Alves J, Bottollier-Depois JF, Fattibene P, Knežević Ž, Lopez MA, Mayer S, Miljanić S, Neumaier S, Olko P, Stadtmann H, Tanner R, Woda C. EURADOS strategic research agenda: vision for dosimetry of ionising radiation. <i>Radiat Prot Dosimetry.</i> 2016 Feb;168(2):223-34. doi: 10.1093/rpd/ncv018. Epub 2015 Mar 9. PMID: 25752758; PMCID: PMC4884873.
Publication	EURADOS Report 2020-04: J-F. Bottollier-Depois, I. Clairand, E. Fantuzzi, P.Fattibene, R. Harrison, O. Hupe, P. Olko, V. Olšovcová, W. Rühm, M. Silari, R. Tanner, F. Vanhavere: "Visions for Radiation Dosimetry over the Next Two Decades - Strategic Research Agenda of the European Radiation Dosimetry Group: Version 2020", Neuherberg, August 2020 DOI: 10.12768/c55r-nf27

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
EIVIC	
CONCERT	European Joint Programme for the Integration of Radiation Protection Research

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
no equipment	

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
958902231	STATNI USTAV RADIACNI OCHRANY v.v.i.

Short name: SURO vvi

Address

Street	BARTOSKOVA 28
Town	Praha
Postcode	14000
Country	Czechia
Webpage	www.suro.cz

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

No department involved

Department name *Name of the department/institute carrying out the work.* not applicable

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Postcode *Area code.*

Country *Please select a country*

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Peter**

Last name* **Rubovic**

E-Mail* **peter.rubovic@suro.cz**

Position in org. Senior Researcher

Department Section of the Deputy Director for Research and Development Same as organisation name

Same as proposing organisation's address

Street BARTOSKOVA 28

Town Praha Post code 14000

Country Czechia

Website Please enter website

Phone +420226518194 Phone 2 +420778421825

Other contact persons

First Name	Last Name	E-mail	Phone
Eva	Cermakova	eva.cermakova@suro.cz	+420773799585

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Peter	Rubovič	Man	Slovakia	peter.rubovic@suro.cz	Category A Top grade	Leading	0000-0002-4279-713X	Orcid ID
Mr	Pavel	Fojtik	Man	Czechia	pavel.fojtik@suro.cz	Category B Senior	Team member	0000-0002-6145-7851	Orcid ID
Ms	Daniela	Ekendahl	Woman	Czechia	daniela.ekendahl@suro.cz	Category B Senior	Team member	0000-0002-5376-0797	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>NaCl as a retrospective and accident dosimeter, Daniela Ekendahl, Libor Judas, Radiation Protection Dosimetry, Volume 145, Issue 1, April 2011, Pages 36–44, https://doi.org/10.1093/rpd/ncq370</i>
Publication	<i>Particle size distribution of radioactive aerosols after the Fukushima and the Chernobyl accidents, H. Malá, P. Rulík, V. Bečková, J. Mihalík, M. Slezáková, Journal of Environmental Radioactivity, Volume 126, December 2013, Pages 92-98, https://doi.org/10.1016/j.jenvrad.2013.07.016</i>
Publication	<i>Lung cancer mortality among Czech uranium miners—60 years since exposure, L. Tomasek, Journal of Radiological Protection, Volume 32, Number 3, July 2012, 301, https://doi.org/10.1088/0952-4746/32/3/301</i>
Publication	<i>Airborne concentrations and chemical considerations of radioactive ruthenium from an undeclared major nuclear release in 2017, O. Masson, V. Beckova, M. Hyza et al., Proceedings of the National Academy of Sciences of the United States of America, August 20, 2019, 116 (34), 16750-16759, https://doi.org/10.1073/pnas.1907571116</i>
Publication	<i>Timepix detector as a tool for X-ray and gamma dosimetry, P. Rubovic et al., Radiation Measurements, Volume 107, December 2017, Pages 39-42, https://doi.org/10.1016/j.radmeas.2017.10.012</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT	<i>CONCERT was an EJP which brought together the elements of the European scientific communities in the fields of radiation effects and risks, radioecology, nuclear emergency preparedness, dosimetry and medical radiation protection, to develop radiation research competence in a multidisciplinary mode to reduce further the uncertainties in radiation protection. It funded research projects identified via open calls. SURO was partner.</i>
RADONORM	<i>RadoNorm is a RIA aiming at managing risk from radon and NORM exposure situations to assure effective radiation protection based on improved scientific evidence and social considerations. It is designed to initiate and perform research and technical development in support of EU Member States in their efforts to implement the European radiation protection Basic Safety Standards. SURO is Work Package leader.</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
Spectrometry laboratory	<i>alpha and beta spectrometers; gamma spectrometry for measurement of low activities in environment; aerosol collectors used in RO5 infrastructure; equipment for collection of radioactive gases</i>
Radio-chemical laboratories	<i>low background alpha-beta liquid counters; separation of transuraniums and other radionuclides</i>
Radon-thoron chamber	<i>a high-tech radon-thoron chamber is operated for research, development and calibration of radon-thoron (and their progenies) monitors</i>
TLD and OSL laboratory	<i>measurement of external doses (both environmental and personal)</i>
WBC laboratory	<i>whole body counters equipped with special low energy HPGe detectors used for in vivo detection of transuranium radionuclides in lungs and skeleton</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
937638085	ASSOCIATION DE LA PLATEFORME EUROPEENNE NERIS

Short name: NERIS PLATFORM ASSOCIATION

Address

Street	28 RUE DE LA REDOUTE
Town	FONTENAY AUX ROSES
Postcode	92260
Country	France
Webpage	www.eu-neris.net

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **not an SME (small- and medium-sized enterprise) for the call.**

SME self-declared status	02/07/2014 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name NERIS not applicable

Same as proposing organisation's address

Street 28 RUE DE LA REDOUTE

Town FONTENAY AUX ROSES

Postcode 92260

Country France

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title

Gender Woman Man Non Binary

First name* **Olivier**

Last name* **Isnard**

E-Mail* **olivier.isnard@irsn.fr**

Position in org. CHAIR

Department ASSOCIATION DE LA PLATEFORME EUROPEENNE NERIS

Same as organisation name

Same as proposing organisation's address

Street 28 RUE DE LA REDOUTE

Town FONTENAY AUX ROSES

Post code 92260

Country France

Website *Please enter website*

Phone *+XXX XXXXXXXXXX*

Phone 2 *+XXX XXXXXXXXXX*

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Mr	Pascal	CROUAIL	Man	France	pascal.crouail@cepn.asso.fr				
Mr	Eymeric	LAFRANQUE	Man	France	eymeric.lafranque@cepn.asso.fr				
Mr	Olivier	ISNARD	Man	France	olivier.isnard@irs-n.fr				
Mr	Florian	GERING	Man	Germany	fgering@bfs.de				

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input checked="" type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>NERIS: European platform on preparedness for nuclear and radiological emergency response and recovery – Activities and perspectives</i>
Publication	<i>Innovative integrative tools and platforms. Key results of the PREPARE European Project</i>
Publication	<i>Nuclear and Radiological Preparedness: The Achievements of the European Research Project PREPARE</i>
Publication	<i>The work programme of NERIS in post-accident recovery</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT	<i>The 'CONCERT-European Joint Programme for the Integration of Radiation Protection Research' under Horizon 2020 operated as an umbrella structure for the research initiatives jointly launched by the radiation protection research platforms MELODI, ALLIANCE, NERIS and EURADOS. Based on the platform SRAs and joint programming, CONCERT developed research priorities, to seek further input from society and stakeholders. Four projects of interest for NERIS were selected under the 1st and 2nd CONCERT Call</i>
OPERRA	<i>The OPERRA (Open Project for European Radiation Research Area) project, launched in June 2013 for four years with the financial support of the European Commission, established a legal coordination structure and logistics to manage European calls for research projects in radiation protection, in various topics: low-dose risk, radioecology, nuclear emergency and recovery management, and also research activities related to the medical uses of ionising radiation. 3 projects of interest for NERIS have</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>none</i>	

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
937836062	ASSOCIATION ALLIANCE EUROPEENNE ENRADIOECOLOGIE

Short name: ASSOCIATION ALLIANCE EUROPEENNE ENRADIOECOLOGIE

Address

Street	AVENUE DE LA DIVISION LECLERC 31
Town	FONTENAY-AUX-ROSES
Postcode	92262
Country	France
Webpage	www.er-alliance.org

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

No department involved

Department name *Name of the department/institute carrying out the work.* not applicable

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Postcode *Area code.*

Country *Please select a country*

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Mr**

Gender Woman Man Non Binary

First name* **Rodolphe**

Last name* **Gilbin**

E-Mail* **rodolphe.gilbin@irsn.fr**

Position in org. **treasurer**

Department **ASSOCIATION ALLIANCE EUROPEENNE ENRADIOECOLOGIE**

Same as organisation name

Same as proposing organisation's address

Street **AVENUE DE LA DIVISION LECLERC 31**

Town **FONTENAY-AUX-ROSES**

Post code **92262**

Country **France**

Website *Please enter website*

Phone **+33442199537**

Phone 2 **+33682561144**

Other contact persons

First Name	Last Name	E-mail	Phone
Nick	Beresford	nab@ceh.ac.uk	01524595856

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Mrs	Hildegarde	Vandenhove	Woman	Belgium	hildegarde.vandenhove@sckcen.be	Category A Top grade	Leading	0000-0001-8958-0061	Orcid ID
Mr	Nick	Beresford	Man	United Kingdom	nab@ceh.ac.uk	Category B Senior	Team member	0000-0002-8722-0238	Orcid ID
Mrs	Almudena	Real	Woman	Spain	almudena.real@ciemat.es	Category B Senior	Team member	0000-0003-0048-5493	Orcid ID
Ms	Rodolphe	Gilbin	Man	France	rodolphe.gilbin@irsn.fr	Category B Senior	Team member	0000-0002-6503-9198	Orcid ID
Ms	Govert	de With	Man	Netherlands	g.dewith@nrg.eu	Category B Senior	Team member	0000-0002-1177-4437	Orcid ID
Mrs	Lindis	Skipperud	Woman	Norway	lindis.skipperud@nmbu.no	Category B Senior	Team member	0000-0001-5249-0409	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Gilbin et al. (2021). An updated strategic research agenda for the integration of radioecology in the European radiation protection research. J. Env. Rad, in press</i>
Publication	<i>Beresford et al. (2020). Towards solving a scientific controversy - The effects of ionizing radiation on the environment. J. Environ. Rad. 211:106033</i>
Publication	<i>Lecomte et al. (2020). More than thirty years after the Chernobyl accident: what do we know about the effects of radiation on the environment? J. Environ. Rad. 211:106108</i>
Publication	<i>Vandenhove H. (2018). ALLIANCE perspectives on integration of humans and the environment into the system of radiological protection. Annals of the ICRP 47(3-4):285-297</i>
Publication	<i>Bradshaw et al. (2018). Education and Training in radioecology during the EU-COMET project - Successes and suggestions for the future. J. Radiol. Prot. 38(1)140-151</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT	<i>EC EURATOM European Joint Programme, Horizon 2020 (2015-2020) – participation to the integration of radioecology within the Radiation Protection Research (strategic research agenda, joint roadmap) including E&T and infrastructures</i>
STAR	<i>Network of Excellence for Radioecology (2011-2015) – first Strategic Research Agenda for radioecology</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
889520071	European Platform for Social Sciences and Humanities Research relating to Ionizing Radiation
Short name: SHARE	
Address	
Street	Avenue Herrmann-Debroux, 40
Town	Auderghem, Brussels
Postcode	1160
Country	Belgium
Webpage	https://www.ssh-share.eu
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	yes
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	02/09/2021 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name *Name of the department/institute carrying out the work.* not applicable

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Postcode *Area code.*

Country *Please select a country*

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title _____

Gender Woman Man Non Binary

First name* **Susan**

Last name* **Hodgson**

E-Mail* **s.hodgson@exeter.ac.uk**

Position in org. Please indicate the position of the person.

Department *Name of the department/institute carrying out the work.*

Same as organisation name

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Post code *Area code.*

Country *Please select a country*

Website *Please enter website*

Phone *+XXX XXXXXXXXXX*

Phone 2 *+XXX XXXXXXXXXX*

Other contact persons

First Name	Last Name	E-mail	Phone
Tanja	Perko	tanja.perko@sckcen.be	+XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
908209158	EUROPEAN ALLIANCE FOR MEDICAL RADIATION PROTECTION RESEARCH (EURAMED)EUROPAISCHE ALLIANZ FUR STRAHLENSCHUTZ-FORSCHU

Short name: EURAMED

Address

Street	AM GESTADE 1
Town	WIEN
Postcode	1010
Country	Austria
Webpage	www.euramed.eu

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

No department involved

Department name *Name of the department/institute carrying out the work.* not applicable

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Postcode *Area code.*

Country *Please select a country*

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Ms**

Gender Woman Man Non Binary

First name* **Monika**

Last name* **Hierath**

E-Mail* **mhierath@eibir.org**

Position in org. **Manager**

Department **EUROPEAN ALLIANCE FOR MEDICAL RADIATION PROTECTION RESEARCH (EURAME**

Same as organisation name

Same as proposing organisation's address

Street **AM GESTADE 1**

Town **WIEN**

Post code **1010**

Country **Austria**

Website **www.euramed.eu**

Phone **+431533406420**

Phone 2 *+XXX XXXXXXXXXX*

Other contact persons

First Name	Last Name	E-mail	Phone
Nathan	Peld	npeld@eibir.org	+435334064
Christoph	Hoeschen	christoph.hoeschen@ovgu.de	+XXX XXXXXXXXXX
Klaus	Bacher	klaus.bacher@ugent.be	+XXX XXXXXXXXXX
Veronika	Kauert	veronika.kauert@ovgu.de	+XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Prof	Christoph	Hoeschen	Man	Germany	Christoph.hoeschen@ovgu.de	Category A Top grade	Team member	0000-0002-4240-1107	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Hoeschen C. Einsatz künstlicher Intelligenz für die Bildrekonstruktion [Use of artificial intelligence for image reconstruction]. Radiologe. 2020 Jan;60(1):15-23. German. doi: 10.1007/s00117-019-00630-z. PMID: 31897503.</i>
Publication	<i>Frija, G., Hoeschen, C., Granata, C. et al. ESR EuroSafe Imaging and its role in promoting radiation protection – 6 years of success. Insights Imaging 12, 3 (2021). https://doi.org/10.1186/s13244-020-00949-5</i>
Publication	<i>Seibold P, Auvinen A, Averbek D, Bourguignon M, Hartikainen JM, Hoeschen C, Laurent O, Noël G, Sabatier L, Salomaa S, Blettner M. Clinical and epidemiological observations on individual radiation sensitivity and susceptibility. Int J Radiat Biol. 2020 Mar;96(3):324-339. doi: 10.1080/09553002.2019.1665209. Epub 2019 Sep 20. PMID: 31539290.</i>
Publication	<i>The European Institute for Biomedical Imaging Research (EIBIR). Strategic research agenda for biomedical imaging. Insights Imaging 10, 7 (2019). https://doi.org/10.1186/s13244-019-0684-z</i>
Publication	<i>Hoeschen C. EURAMED's vision on medical radiation protection (research). Ann ICRP. 2018 Oct;47(3-4):152-158. doi: 10.1177/0146645318759621. Epub 2018 Aug 3. PMID: 30073862.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>EURAMED rocc-n-roll, scientific coordinator</i>	<i>EURAMED rocc-n-roll is supposed to develop a strategic research agenda for medical applications of ionizing radiation and the corresponding radiation protection as well as a roadmap and a document that describes the links to other research aspects.</i>
<i>SINFONIA, task lead</i>	<i>SINFONIA is supposed to develop methodology for risk appraisal of the use of ionizing radiation for patients suffering from lymphoma or brain malignancies, the task lead by OvGU will develop the risk appraisal tool for the patients, partly based on artificial intelligence approaches.</i>
<i>KI-INSPIRE, coordinator</i>	<i>KI INSPIRE is a german light house project for radiation exposure reduction in interventional imaging procedures based on approaches using artificial intelligence and to develop a quality assurance program for such methods.</i>
<i>EURAMED head of scientific committee, head of EURO</i>	<i>EURAMED scientific committee</i>
<i>Member of the german radiation protection board</i>	<i>The german radiation protection board is advising the government in question of radiation protection. Christoph Hoeschen is member of the main commission and heading different working groups, one dedicated to AI in medical radiation protection.</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999873285	OTTO-VON-GUERICKE-UNIVERSITAET MAGDEBURG
Short name: OVGU	
Address	
Street	UNIVERSITAETSPLATZ 2
Town	MAGDEBURG
Postcode	39106
Country	Germany
Webpage	www.ovgu.de
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	07/10/1993 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Faculty of Electrical Engineering and Information TechnologyIns not applicable

Same as proposing organisation's address

Street Otto Hahn street 2

Town Magdeburg

Postcode 39106

Country Germany

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999831284	INSTITUTUL DE FIZICA ATOMICA

Short name: INSTITUTUL DE FIZICA ATOMICA

Address

Street	STRADA ATOMISTILOR 407
Town	MAGURELE
Postcode	077125
Country	Romania

Webpage

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name EURATOM-RO not applicable

Same as proposing organisation's address

Street STRADA ATOMISTILOR 407

Town MAGURELE

Postcode 077125

Country Romania

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Florin-Dorian**

Last name* **Buzatu**

E-Mail* **f.buzatu@ifa-mg.ro**

Position in org. Director General

Department INSTITUTUL DE FIZICA ATOMICA

Same as organisation name

Same as proposing organisation's address

Street STRADA ATOMISTILOR 407

Town MAGURELE

Post code 077125

Country Romania

Website www.ifa-mg.ro

Phone +4021 4574493

Phone 2 +4031 7101554

Other contact persons

First Name	Last Name	E-mail	Phone
Andreea	Fazacas	a.fazacas@ifa-mg.ro	+4031 7101554
Georgeta	Neacsu	g.neacsu@ifa-mg.ro	+4031 7101554

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
<i>Publication</i>	

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>CONCERT</i>	<i>The CONCERT-European Joint Programme for the Integration of Radiation Protection Research? under Horizon 2020 was an umbrella structure for the research initiatives by the radiation protection research platforms MELODI, ALLIANCE, NERIS, EURADOS and EURAMED. CONCERT was a co-fund action that aimed at attracting and pooling national research efforts with European ones in order to make better use of public R&D resources and to tackle common European challenges in radiation protection.</i>
<i>EUROfusion</i>	<i>EUROfusion's mission is to pave the way for fusion power reactors. To do so, the consortium funds the research of its 30 members on the basis of the "European Roadmap to the Realisation of Fusion Energy" as a joint programme within Euratom Horizon 2020.</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>Office Equipment</i>	<i>Personal Computers, Laptops, Printers</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
998706957	NEMZETI NEPEGESZSEGUGYI KOZPONT
Short name: NNK	
Address	
Street	ALBERT FLORIAN UT 2-6
Town	BUDAPEST
Postcode	1097
Country	Hungary
Webpage	https://www.nnk.gov.hu/
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	24/06/2008 - no
SME self-assessment	unknown
SME validation	24/06/2008 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Department of Radiobiology and Radiohygiene not applicable

Same as proposing organisation's address

Street Anna 5.

Town Budapest

Postcode 1221

Country Hungary

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Katalin**

Last name* **Lumniczky**

E-Mail* **katalin.lumniczky@osski.hu**

Position in org. Unit Head

Department Department of Radiobiology and Radiohygiene

Same as organisation name

Same as proposing organisation's address

Street Anna 5.

Town Budapest

Post code 1221

Country Hungary

Website https://www.nnk.gov.hu/index.php/sugarbiologiai-es-sugar-egeszseg

Phone +36305549308

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Geza	Safrany	safrany.geza@osski.hu	+36309199218

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Katalin	Lumniczky	Woman	Hungary	lumniczky.katalin@osski.hu	Category A Top grade	Leading		
Dr	Géza	Sáfrány	Man	Hungary	safrany.geza@osski.hu	Category A Top grade	Team member		

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input checked="" type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input checked="" type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input checked="" type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input checked="" type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	Review paper describing "Low dose ionizing radiation effects on the immune system"
Publication	Review paper "Blood-Derived Biomarkers of Diagnosis, Prognosis and Therapy Response in Prostate Cancer Patients"
Publication	Research paper "Radiotherapy-Induced Changes in the Systemic Immune and Inflammation Parameters of Head and Neck Cancer Patients"
Publication	Research paper "The effect of ionising radiation on the phenotype of bone marrow-derived extracellular vesicles"
Publication	Review paper "Ionizing Radiation-Induced Immune and Inflammatory Reactions in the Brain"

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT	CONCERT aimed to contribute to the sustainable integration of European and national research programmes in radiation protection.
OPERRA	OPERRA exploited the synergies of EURATOM and other EC programmes considering the most relevant joint program areas and mechanisms for funding joint activities. The project strengthened the links with national funding programs as well as the European education and training structures.
DoReMi	The aim of the DoReMi was to promote sustainable integration of low dose risk research in Europe
CEREBRAD	The main concern of CEREBRAD was to identify the potential risk of doses below 100 mGy delivered to a young child.
NOTE	NOTE targeted the better understanding of non-targeted effects of ionizing radiation which may have important consequences for health risk assessment and, consequently, on radiation protection.

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
immune biology and molecular biology labs	suitable to detect alterations in the immune system as well as on the cellular level
cell culture lab	can make experiments in monolayer and suspension cell culture
x-ray and Co irradiators	can deliver low and high doses with different dose rates
accredited medical radiation lab	validate all of the radiating equipment of the medical sector in Hungary
accredited environmental lab	can measure radioactivity in aer, water and soil samples, responsible for the national radon action plan.
personal dosimetry lab	performs all of the personal dosimetry in Hungary

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999895013	TARTU ULIKOOL

Short name: UNIVERSITY OF TARTU

Address

Street	ULIKOOLI 18
Town	TARTU
Postcode	50090
Country	Estonia
Webpage	www.ut.ee

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	27/02/2003 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Institute of Technology not applicable

Same as proposing organisation's address

Street Ravila street 14a

Town Tartu

Postcode 50411

Country Estonia

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Alan Henry**

Last name* **Tkaczyk**

E-Mail* **alan@ut.ee**

Position in org. **Group Leader**

Department **Institute of Technology**

Same as organisation name

Same as proposing organisation's address

Street **Ravila street 14a**

Town **Tartu**

Post code **50411**

Country **Estonia**

Website **www.ut.ee**

Phone **+372 53726111**

Phone 2 **+XXX XXXXXXXXXX**

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>S. Della Monaca, V. Dini, S. Grande, A. Palma, A.H. Tkaczyk, R. Koch, R. Murakas, T. Perko, T. Duranova, S. Salomaa, P. Roivainen, C. Willrodt, M. Grigioni, S.D. Bouffler. (2021). Assessing radiation risk perception by means of a European stakeholder survey. Journal of Radiological Protection. https://doi.org/10.1088/1361-6498/abf75a.</i>
Publication	<i>A. Goronovski, R.M. Rivera, T. Van Gerven, A.H. Tkaczyk. (2021). Radiological assessment of bauxite residue processing to enable zero-waste valorisation and regulatory compliance. Journal of Cleaner Production. Volume 294, 125165-1 – 125165-9. https://doi.org/10.1016/j.jclepro.2020.125165.</i>
Publication	<i>M. Kaasik, J.C. Mora, J. Vives i Batlle, N. Vanhoudt, A.H. Tkaczyk. (2020). Uncertainties in the use of concentration ratios for modelling NORM waste sites. Journal of Environmental Radioactivity. Volume 222, 106315-1 – 106315-6. https://doi.org/10.1016/j.jenvrad.2020.106315.</i>
Publication	<i>A.H. Tkaczyk, R. Koch, C. Ipbüker, J.-I. Järvelill, A. Serv, Z. Sas. (2020). Correlation between radon release, radioactivity and mineralogy: a case study of Estonian black sands. Journal of Radioanalytical and Nuclear Chemistry. Volume 326, 75-86. https://doi.org/10.1007/s10967-020-07290-7.</i>
Publication	<i>A. Goronovski, P.J. Joyce, A. Björklund, G. Finnveden, A.H. Tkaczyk. (2018). Impact assessment of enhanced exposure from Naturally Occurring Radioactive Materials (NORM) within LCA. Journal of Cleaner Production. Volume 172, 2824-2839. https://doi.org/10.1016/j.jclepro.2017.11.131.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>Euratom H2020 EURAMED roccn-roll</i>	<i>(2020-2023) "EUROPEAN MEDICAL APPLICATION AND RADIATION PROTECTION CONCEPT: STRATEGIC RESEARCH AGENDA AND ROADMAP INTERLINKING TO HEALTH AND DIGITISATION ASPECTS." A.H. Tkaczyk is a member of the Executive Board (MB) and leads WP4 "Infrastructures, digitisation and digitalisation: approaches and ethics." https://roccnroll.euramed.eu/</i>
<i>Euratom H2020 CONCERT</i>	<i>(2015-2020) "EUROPEAN JOINT PROGRAMME FOR THE INTEGRATION OF RADIATION PROTECTION RESEARCH." A.H. Tkaczyk is a member of the Management Board (MB) and the nominated representative of the Estonian Programme Owner and Programme Manager (POM). www.concert-h2020.eu</i>
<i>CONCERT-TERRITORIES project</i>	<i>(2017-2019) The TERRITORIES project within the Euratom H2020 CONCERT EJP "TO ENHANCE UNCERTAINTIES REDUCTION AND STAKEHOLDERS INVOLVEMENT TOWARDS INTEGRATED AND GRADED RISK MANAGEMENT OF HUMANS AND WILDLIFE IN LONG-LASTING RADIOLOGICAL EXPOSURE SITUATIONS." A.H. Tkaczyk is a member of the Management Board (MB), leader of WP4 "Strategic and integrated communication, education and training" and co-leader of Task 1.3 "Uncertainties propagation and sensitivity analysis in modelling." www.territories</i>
<i>H2020 MSCA-ETN REDMUD</i>	<i>(2014-2019) "EUROPEAN TRAINING NETWORK FOR ZERO-WASTE VALORISATION OF BAUXITE RESIDUE (RED MUD)". Within the REDMUD project, partners UTARTU and KTH (Sweden) are responsible for development of a new Life Cycle Analysis methodology (LCA-NORM). A.H. Tkaczyk is a member of the Supervisory Board (SB). https://etn.redmud.org/</i>
<i>Euratom FP7 GENTLE</i>	<i>(2013-2016) "GRADUATE AND EXECUTIVE NUCLEAR TRAINING AND LIFELONG EDUCATION." A.H. Tkaczyk leads WP6 "Dissemination and integration."</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
-------------------------------------	----------------------------------------

Administrative forms

<i>LCA-NORM modelling</i>	<i>UTARTU has the facilities to support the project, including access to the newly developed LCA-NORM modelling approach jointly developed between UTARTU and KTH Royal Institute of Technology (Sweden).</i>
<i>Equipment to measure natural radioactivity</i>	<i>Equipment includes: high-resolution low-background HPGe spectrometer with coaxial detector; low-energy low-background spectrometer with HPGe planar detector; new large area, thin window HPGe spectrometer; portable LSC Triathler; new Quantulus LSC (installed 2013); α, β, γ scintillation spectrometer.</i>
<i>Specialized modelling and analysis software</i>	<i>Specialized modelling and analysis software includes RESRAD, Geant, GammaVision, GESPECOR, EFFTRAN.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999516616	GLOWNY INSTYTUT GORNICTWA

Short name: CENTRAL MINING INSTITUTE

Address

Street	PLAC GWARKOW 1
Town	KATOWICE
Postcode	40 166
Country	Poland
Webpage	www.gig.eu

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	13/02/2002 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Silesian Centre for Environmental Radioactivity not applicable

Same as proposing organisation's address

Street PLAC GWARKOW 1

Town KATOWICE

Postcode 40 166

Country Poland

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Boguslaw**

Last name* **Michalik**

E-Mail* **bmichalik@gig.eu**

Position in org. **associate professor**

Department **Silesian Centre for Environmental Radioactivity** Same as organisation name

Same as proposing organisation's address

Street **PLAC GWARKOW 1**

Town **KATOWICE** Post code **40 166**

Country **Poland**

Website *Please enter website*

Phone **+48 32 2592380** Phone 2 **+48694222500**

Other contact persons

First Name	Last Name	E-mail	Phone
Malgorzata	Wysocka	mwysocka@gig.eu	mwysocka@gig.eu
Ireneusz	Pyka	ipyka@gig.eu	+XXX XXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Boguslaw	Michalik	Man	Poland	bmichalik@gig.eu	Category A Top grade	Leading	0000-0002-1083-4856	Orcid ID
Dr	Malgorzata	Wysocka	Woman	Poland	mwysocka@gig.eu	Category A Top grade	Team member	0000-0002-1538-1294	Orcid ID
Dr	Krystian	Skubacz	Man	Poland	kskubacz@gig.eu	Category A Top grade	Team member	0000-0001-6858-7774	Other ID

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Michalik, B.; Wysocka, M.; Bonczyk M.; Samolej, K.; Chmielewska, I. Long term behaviour of radium rich deposits in a lake ecosystem. JOURNAL OF ENVIRONMENTAL RADIOACTIVITY. Volume: 222. Article Number: 106349. DOI: 10.1016/j.jenvrad.2020.106349.</i>
Publication	<i>Skubacz, K.; Wysocka, M.; Michalik, B.; Dziurzynski, W.; Krach, A.; Krawczyk, J.; Palka, T.. Modelling of radon hazards in underground mine workings. SCIENCE OF THE TOTAL ENVIRONMENT Volume: 695 Article Number: 133853 DOI: 10.1016/j.scototenv.2020.133853</i>
Publication	<i>Boguslaw Michalik, Govert de With, Wouter Schroeyers. Measurement of radioactivity in building materials – Problems encountered caused by possible disequilibrium in natural decay series (2018) Construction and Building Materials, 168 pp. 995-1002 DOI:10.1016/j.conbuildmat.2018.02.044.</i>
Publication	<i>Michalik B., Brown J., Krajewski P. The fate and behaviour of enhanced natural radioactivity with respect to environmental protection. Environmental Impact Assessment Review 38 (2013) 163–171</i>
Publication	<i>Skubacz K., Chałupnik S., Grygier A., Nowak S. Application of TLD devices for radon and thoron PAEC measurements in air is the concept of “total PAEC” useful? JOURNAL OF ENVIRONMENTAL RADIOACTIVITY 2021 journal-article SOURCE-WORK-ID: 6093cce92467f0526ed4ae22 DOI: 10.1016/j.jenvrad.2021.106616</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT	<i>“CONCERT- European Joint Programme for the Integration of Radiation Protection Research” under Horizon 2020, Euratom research and training programme 2014-2018, grant agreement No 662287.</i>
MetroNORM	<i>EMRP Researcher Grant JRP IND57 MetroNORM “Metrology for processing materials with high natural radioactivity”, IND57-REG3, 2013-2016</i>
COMET	<i>FP7-Fission-2013: COMET— “COordination and iMplementation of a pan-European instrumenT for radioecology”, Combination of CP & CSA, project number 604974, 2013-2017.</i>
NORM4Building	<i>European Cooperation in Science and Technology (COST) action: NORM4BUILDING “NORM for Building materials”, 2014-2017</i>
RadoNorm	<i>“Towards effective radiation protection based on improved scientific evidence and social considerations - focus on radon and NORM”. Euratom research and training programme 2014-2018, NFRP-2019-2020-12, Further integrating Radiation Protection research in the EU, Research and Innovation action (RIA) under grant agreement No 900009, 1 September 2020 - 31 August 2025</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>Silesian Centre for Environmental Radioactivity</i>	<i>Modern, well equipped laboratories: dosimetry (TLD), high resolution gamma spectrometry, liquid scintillation spectrometry, high volume radon chamber with controlled reference atmosphere (radon, temperature, humidity), irradiation facilities with beta, gamma, and x-ray radiation sources.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999611579	THE HENRYK NIEWODNICZANSKI INSTITUTE OF NUCLEAR PHYSICS, POLISH ACADEMY OF SCIENCES

Short name: IFJ PAN

Address

Street	RADZIKOWSKIEGO 152
Town	KRAKOW
Postcode	31 342
Country	Poland
Webpage	www.ifj.edu.pl

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **not an SME** (small- and medium-sized enterprise) for the call.

SME self-declared status	12/02/2004 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Silesian Centre for Environmental Radioactivity not applicable

Same as proposing organisation's address

Street PLAC GWARKOW 1

Town KATOWICE

Postcode 40 166

Country Poland

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999978239	NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"
Short name: NCSR "D"	
Address	
Street	END OF PATRIARCHOU GRIGORIOU E AND 27 NE
Town	AGIA PARASKEVI
Postcode	15341
Country	Greece
Webpage	www.demokritos.gr
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	12/05/2016 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Institute of Nuclear and Radiological Sciences and Technology, En not applicable

Same as proposing organisation's address

Street END OF PATRIARCHOU GRIGORIOU E AND 27 NE

Town AGIA PARASKEVI

Postcode 15341

Country Greece

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Spyros**

Last name* **Andronopoulos**

E-Mail* **sandron@ipta.demokritos.gr**

Position in org. Research Director

Department Institute of Nuclear and Radiological Sciences and Technology, Energy and Safety Same as organisation name

Same as proposing organisation's address

Street END OF PATRIARCHOU GRIGORIOU E AND 27 NEAPOLEOS STREET

Town AGIA PARASKEVI Post code 15341

Country Greece

Website Please enter website

Phone +30 2106503426 Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Andreas	Ikonomopoulos	anikon@ipta.demokritos.gr	+30 2106503728

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Spyros	Andronopoulos	Man	Greece	sandron@ipta.demokritos.gr	Category A Top grade	Leading	https://orcid.org/0000-0002-6565-1678	Orcid ID
Dr	Andreas	Ikonomopoulos	Man	Greece	anikon@ipta.demokritos.gr	Category A Top grade	Team member		

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Klampanos, I. A., Davvetas, A., Andronopoulos, S., Pappas, C., Ikonomopoulos, A., Karkaletsis, V. (2018), Autoencoder-driven weather clustering for source estimation during nuclear events, Environmental Modelling & Software 102, 84 - 93, DOI: https://doi.org/10.1016/j.envsoft.2018.01.014</i>
Publication	<i>Davvetas, A., Klampanos, I., Andronopoulos, S., Mouchakis, G., Konstantopoulos, S., Ikonomopoulos, A. and Karkaletsis, V. (2017), Big Data Processing and Semantic Web Technologies for Decision Making in Hazardous Substance Dispersion Emergencies (DEMO - People's Choice Award), The 16th International Semantic Web Conference, Vienna, Austria, 21-25 October 2017</i>
Publication	<i>Ikonomopoulos, A. and Konstantopoulos, S. (2016), Crowd-sourcing Tools within the PREPARE Analytical Platform, Radioprotection, 51(HS2), S187 - S189, https://doi.org/10.1051/radiopro/2016070</i>
Publication	<i>T. Schneider, F. Gering, S. Charron, M. Zhelezniak, S. Andronopoulos, G. Heriard-Dubreuil, J. Camps and W. Raskob (2017) "Nuclear and Radiological Preparedness: the Achievements of the European Research Project PREPARE", Radiation Protection Dosimetry, 173, 1-3, pp. 151–156, https://doi.org/10.1093/rpd/ncw318</i>
Publication	<i>I. Korsakissok, R. Périllat, S. Andronopoulos, P. Bedwell, E. Berge, T. Charnock, G. Geertsema, F. Gering, T. Hamburger, H. Klein, S. Leadbetter, O.C. Lind, T. Pázmándi, Cs. Rudas, B. Salbu, A. Sogachev, N. Syed, J.M. Tomas, M. Ulimoen, H. de Vries, J. Wellings (2020) Uncertainty propagation in atmospheric dispersion models for radiological emergencies in the pre- and early release phase: summary of case studies, Radioprotection, 55(HS1), S57–S68, https://doi.org/10.1051/radiopro/2020013</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
H2020 BigDataEurope	<i>Integrating Big Data, Software and Communities for Addressing Europe's Societal Challenges http://www.big-data-europe.eu/ https://cordis.europa.eu/project/id/644564 Grant agreement ID: 644564 Programme: H2020-EU.2.1.1.4. - Content technologies and information management: ICT for digital content, cultural and creative industries Topic: ICT-15-2014 - Big data and Open Data Innovation and take-up Call for proposal: H2020-ICT-2014-1</i>
H2020 FAIR4FUSION	<i>Fair for Fusion - open access for fusion data in Europe https://www.fair4fusion.eu/ https://cordis.europa.eu/project/id/847612 Grant agreement ID: 847612 Programmes: H2020-Euratom, Euratom 1.5, 1.6 and 1.9 Topic: NFRP-2018-11 - Open data access for fusion research Call for proposal: NFRP-2018</i>
H2020 AI4Copernicus	<i>Reinforcing the AI4EU Platform by Advancing Earth Observation Intelligence, Innovation and Adoption https://ai4copernicus-project.eu/ https://cordis.europa.eu/project/id/101016798 Grant agreement ID: 101016798 Programme: H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT) Topic: ICT-49-2020 - Artificial Intelligence on demand platform Call for proposal: H2020-ICT-2020-2</i>

Administrative forms

<p><i>CONCERT</i></p>	<p><i>European Joint Programme for the Integration of Radiation Protection Research</i> https://cordis.europa.eu/project/id/662287 <i>Grant agreement ID: 662287, AMENDMENT Reference No AMD-662287-72 for the accession of NCSR as LTP</i> <i>Programmes: H2020-Euratom-1.8, 1.4 and 1.3</i> <i>Topic: NFRP-07-2015 - Integrating radiation research in the European Union</i> <i>Call for proposal: NFRP-2014-2015</i></p>
<p><i>PREPARE</i></p>	<p><i>Innovative integrative tools and platforms to be prepared for radiological emergencies and post-accident response in Europe</i> https://cordis.europa.eu/project/id/323287 <i>Grant agreement ID: 323287</i> <i>Programme: FP7-EURATOM-FISSION - EURATOM: Nuclear fission and radiation protection</i> <i>Topic: Fission-2012-3.3.1 - Update of emergency management and rehabilitation strategies and expertise in Europe</i> <i>Call for proposal: FP7-Fission-2012</i></p>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
991207984	ITA-SUOMEN YLIOPISTO

Short name: University of Eastern Finland (UEF)

Address

Street	YLIOPISTONRANTA 1 E
Town	KUOPIO
Postcode	70211
Country	Finland
Webpage	www.uef.fi

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	09/09/2009 - no
SME self-assessment	09/09/2009 - no
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Department of Environmental and Biological Sciences not applicable

Same as proposing organisation's address

Street YLIOPISTONRANTA 1 E

Town KUOPIO

Postcode 70211

Country Finland

Links with other participants

Type of link	Participant
Controls	SATEILYTURVAKESKUS

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Prof.**

Gender Woman Man Non Binary

First name* **Jonne**

Last name* **Naarala**

E-Mail* **jonne.naarala@uef.fi**

Position in org. **Associate Professor**

Department **Department of Environmental and Biological Sciences**

Same as organisation name

Same as proposing organisation's address

Street **YLIOPISTONRANTA 1 E**

Town **KUOPIO**

Post code **70211**

Country **Finland**

Website **https://www.uef.fi/en/**

Phone **+358403553581**

Phone 2 **+XXX XXXXXXXXXX**

Other contact persons

First Name	Last Name	E-mail	Phone
Jukka	Luukkonen	jukka.luukkonen@uef.fi	+XXX XXXXXXXXXX
Anne-Mari	Kariniva	anne-mari.kariniva@uef.fi	+XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Prof	Jonne	Naarala	Man	Finland	jonne.naarala@uef.fi	Category A Top grade	Leading	0000-0002-5240-968X	Orcid ID
Prof	Sisko	Salomaa	Woman	Finland	sisko.salomaa@uef.fi	Category A Top grade	Team member		
Dr	Jukka	Luukkonen	Man	Finland	jukka.luukkonen@uef.fi	Category B Senior	Team member		

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>RadoNorm</i>	<i>Under the leadership of the BFS, 56 European institutions collaborate between 2020-2025 to improve the protection of workers and the general public against the radioactive gas radon and residues from industrial processes involving elevated natural radioactivity (NORMs).</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999460744	SATEILYTURVAKESKUS
Short name: STUK	
Address	
Street	LAIPPATIE 4
Town	HELSINKI
Postcode	00880
Country	Finland
Webpage	http://www.stuk.fi
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is no (small- and medium-sized enterprise) for the call.	
SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Department of Environmental and Biological Sciences not applicable

Same as proposing organisation's address

Street YLIOPISTONRANTA 1 E

Town KUOPIO

Postcode 70211

Country Finland

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999614877	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT

Short name: CIEMAT

Address

Street	Avenida Complutense 40
Town	MADRID
Postcode	28040
Country	Spain
Webpage	http://www.ciemat.es

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **not an SME** (small- and medium-sized enterprise) for the call.

SME self-declared status	30/12/2019 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name	Environment	<input type="checkbox"/> not applicable
	<input checked="" type="checkbox"/> Same as proposing organisation's address	
Street	Avenida Complutense 40	
Town	MADRID	
Postcode	28040	
Country	Spain	

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Almudena**

Last name* **Real**

E-Mail* **almudena.real@ciemat.es**

Position in org. Lead of the Radiation Protection of the Public and the Environment Unit

Department Environment

Same as organisation name

Same as proposing organisation's address

Street Avenida Complutense 40

Town MADRID

Post code 28040

Country Spain

Website https://www.ciemat.es/

Phone +34913466750

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Sylvia	Nunez	ope@ciemat.es	+34913460910

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Almudena	Real	Woman	Spain	almudena.real@ciemat.es	Category B Senior	Leading	0000-0003-0048-5493	Orcid ID
Mrs	Milagros	Montero	Woman	Spain	milagros.montero@ciemat.es	Category B Senior	Team member	0000-0002-7288-5990	Orcid ID
Dr	Maria-Antonia	Lopez	Woman	Spain	ma.lopez@ciemat.es	Category B Senior	Team member	0000-0002-4565-8485	Orcid ID
Dr	Roser	Sala	Woman	Spain	roser.sala@ciemat.es	Category B Senior	Team member	0000-0003-3227-7111	Orcid ID
Dr	Ana	Prades	Woman	Spain	ana.prades@ciemat.es	Category B Senior	Team member	0000-0003-2197-5205	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input checked="" type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input checked="" type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input checked="" type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Gilbin R., Arnold T., Beresford N.A., Berthomieu C., Brown J.E., de With G., Horemans N., Madruga M.J., Masson O., Merroun M., Michalik B., Muikku M., O'Toole S., Mrdakovic Popic J., Nogueira P., Real A., et al. An updated strategic research agenda for the integration of radioecology in the European radiation protection research. Journal of Environmental Radioactivity 237 (2021) 106697. https://doi.org/10.1016/j.jenvrad.2021.106697</i>
Publication	<i>D3.7 Second joint roadmap for radiation protection research. EJP-CONCERT (H2020 – 662287) January 2020. CIEMAT contributed through platforms ALLIANCE, EURADOS, NERIS and SHARE</i>
Publication	<i>Giussani A., Lopez M. A., Romm H., et al. Eurados review of retrospective dosimetry techniques for internal exposures to ionising radiation and their applications. Radiation and Environmental Biophysics 59 (Suppl A). August 2020. DOI: 10.1007/s00411-020-00845-y</i>
Publication	<i>Montero, M.; Sala, R.; Trueba, C.; García-Puerta, et al. Stakeholder involvement through national panels and surveys to address the issues and uncertainties arising in the preparedness and management of the transition phase. Radioprotection 55 S127-S134 (2020). DOI: 10.1051/radiopro/2020022</i>
Publication	<i>Turcanu, C., Sala, R., Perko, T., et al. How would citizens react to official advice in a nuclear emergency? Insights from research in three European countries. Journal of Contingencies and Crisis Management, 29(2), 143-169. (2021). https://doi.org/10.1111/1468-5973.12327</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
EJP-CONCERT	<i>The European Joint Programme for the Integration of Radiation Protection Research (H2020 – 662287) (2015-2020). The synergistic and complementary work, carried out through the different work packages of the EJP-CONCERT, has contributed to the success of the project in joint programming and integrative activities. The two open calls to fund R&D projects in radiation protection have been a unique added value for the EJP-CONCERT.</i>
TERRITORIES	<i>"To Enhance uncertainties Reduction and stakeholders Involvement Towards integrated and graded Risk management of humans and wildlife In long-lasting radiological Exposure Situations" (H2020 – 662287) (2017-2019). A graded approach, for assessing doses to humans and wildlife and managing long-lasting exposure situations to ionising radiation was achieved through reducing uncertainties to a level that can be considered fit-for-purpose.</i>
CONFIDENCE	<i>"COping with uNcertainties For Improved modelling and DEcision making in Nuclear emergenCiEs" (H2020 – 662287) (2017-2019). The project addressed: scientific challenges associated with model uncertainties and improve radioecological predictions and emergency management, situation awareness and monitoring strategies, risk estimation, decision making and strategy development, including social and ethical aspects.</i>
RadoNorm	<i>"Towards effective radiation protection based on improved scientific evidence and social considerations - focus on radon and NORM" (H-2020_900009) (2020 -2025). Aimed to improve the radiation protection of workers and public against the possible effects of radon and the wastes from industrial process that increase exposure to natural radionuclides (NORM), by reducing scientific, technical and social uncertainties. Participants: 56 organizations from 20 Member States, plus Norway and Switzerland.</i>
CAThymARA	<i>"Child and Adult Thyroid Monitoring After Reactor Accident" (CE FP7- OPERRA Project 604984) (2016-2017). Focused on the need for preparedness of thyroid measurements and dose assessments of exposed population resulting from intakes of radioiodine isotopes a short term after a nuclear accident. It had 41 participants with expertise in radiation measurement and dosimetry, from 13 Institutes, most of them members of EURADOS network</i>

Administrative forms

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>Whole body Counter</i>	<i>Analysis of body radioactivity counter to perform internal dosimetry in humans: Lege system. NaI (TI) System. Phoswich System. Calculation codes to estimate internal doses.</i>
<i>ICP-MS</i>	<i>Inductively Coupled Plasma Mass Spectrometry. Allows mass spectrometry multielemental analysis, using various matrices</i>
<i>Environment Mobile Unit</i>	<i>An off-road vehicle with all the equipments needed to make ionising radiation measurements "in-continuous", such us environmental equivalent dose rates and environmental contamination of beta/gamma emissions.</i>
<i>Supercomputation</i>	<i>A set of compute nodes organized as a cluster of high performance computing (HPC). The compute nodes are interconnected by a high-speed Infiniband network and a complementary manner, the other standard gigabit ethernet network.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
950195511	MERIENCE SCP

Short name: MERIENCE SCP

Address

Street	CARRER LLIMONER 30
Town	OLERDOLA
Postcode	08734
Country	Spain
Webpage	www.merience.com

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	no
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	12/08/2013 - yes
SME self-assessment	unknown
SME validation	12/08/2013 - yes

Administrative forms

Departments carrying out the proposed work

Department 1

Department name	Environment	<input type="checkbox"/> not applicable
	<input checked="" type="checkbox"/> Same as proposing organisation's address	
Street	Avenida Complutense 40	
Town	MADRID	
Postcode	28040	
Country	Spain	

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999519720	NARODOWE CENTRUM BADAN I ROZWOJU

Short name: NCBR

Address

Street	UL. NOWOGRODZKA 47A
Town	WARSZAWA
Postcode	00 695
Country	Poland
Webpage	www.ncbr.gov.pl

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	17/08/2007 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name International Cooperation Department not applicable

Same as proposing organisation's address

Street UL. NOWOGRODZKA 47A

Town WARSZAWA

Postcode 00 695

Country Poland

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Mrs**

Gender Woman Man Non Binary

First name* **Joanna**

Last name* **Makocka**

E-Mail* **joanna.makocka@ncbr.gov.pl**

Position in org. **Head of Section**

Department **International Cooperation Department**

Same as organisation name

Same as proposing organisation's address

Street **UL. NOWOGRODZKA 47A**

Town **WARSZAWA**

Post code **00 695**

Country **Poland**

Website **https://www.gov.pl/web/ncbr**

Phone **+48 519 684 989**

Phone 2 **+XXX XXXXXXXXXX**

Other contact persons

First Name	Last Name	E-mail	Phone
Dagmara	Robakowska-Hyzorek	dagmara.robakowska-hyzorek@ncbr.gov.pl	+48 509 214 741

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Dagmara	Robakowska-Hyzorek	Woman	Poland	dagmara.robakowska-hyzorek@ncbr.gov.pl				

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

calls for proposals organizer

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<ul style="list-style-type: none"> <i>The National Centre for Research and Development. International R&D Cooperation is the publication, illustrating what NCBR has achieved in terms of international cooperation, which has been published on the occasion of the Conference titled International Cooperation: A Powerful Mechanism To Enhance The Competitiveness of The Domestic Research Sector in 2019.</i>
Publication	<ul style="list-style-type: none"> <i>Applicant's Handbook. The aim of this guide is to support potential beneficiaries of the National Centre for Research and Development (NCBR), in particular entrepreneurs and scientific units, in the process of preparing a rationally justified application for co-financing a research and development project (R&D). The guidelines contained therein will help you in identifying, preparing and submitting for evaluation of a R&D project that meets the requirements of NCBR.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
strategic project	<i>"Technologies supporting the development of safe nuclear energy"- The strategic research conducted by Polish research teams with research carried out around the world and prepared scientific and technical staff for the Polish nuclear industry. Its implementation contributed to solving problems related to spent nuclear fuel and radioactive waste. Additionally, the project enabled the development of legal and actual regulations in the field of radiological protection.</i>
HTR projects	<p><i>preparation of legal, organizational and technical instruments for the implementation of HTR reactors, 2019-2022 Project funded under NCBR's strategic programme.</i></p> <p><i>The aim of the project is to make a comprehensive legal, organizational and economic analysis in Poland in terms of the construction of HTR reactors (research phase A) and to propose the necessary changes (mainly legal) (implementation phase B).</i></p>
international cooperation	<i>NCBR is a partner in over 100 international initiatives, including ERA-Nets, Joint Programming Initiatives, Joint undertakings, bilateral programmes and art. 185 and 187 TFEU based public public and public-private partnerships and actively coroganises calls for proposal por international R&D projects</i>
national operator	<i>NCBR is an National Operator for Programme "Applied research" implemented under the EEA and Norway Grants.</i>
coordinator/partner of ToE	<i>Teaming of Excellence – coordinator of project SANO - (Centre for New Methods in Computational Diagnostics and Personalised Therapy), partner of projects NOMANTEN - materials resistant to extreme conditions, ENSAMBLE - technologies for the growth of crystals and materials</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999978821	ISTITUTO SUPERIORE DI SANITA

Short name: ISTITUTO SUPERIORE DI SANITA

Address

Street	Viale Regina Elena 299
Town	ROMA
Postcode	00161
Country	Italy
Webpage	http://www.iss.it

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name National Centre of Innovative Technologies for Public Health not applicable

Same as proposing organisation's address

Street Viale Regina Elena 299

Town ROMA

Postcode 00161

Country Italy

Department 2

Department name FAST Core Facilities not applicable

Same as proposing organisation's address

Street Viale Regina Elena 299

Town ROMA

Postcode 00161

Country Italy

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Antonella**

Last name* **Rosi**

E-Mail* **rosi@iss.it**

Position in org. Senior Researcher

Department National Centre of Innovative Technologies for Public Health Same as organisation name

Same as proposing organisation's address

Street Viale Regina Elena 299

Town ROMA Post code 00161

Country Italy

Website https://www.iss.it

Phone +39 06 4990 3159 Phone 2 +39 3899482199

Other contact persons

First Name	Last Name	E-mail	Phone
Paola	Fattibene	paola.fattibene@iss.it	+39 06 4990 2483

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Antonella	Rosi	Woman	Italy	rosi@iss.it	Category B Senior	Leading	0000-0001-8656-0671	Orcid ID
Dr	Paola	Fattibene	Woman	Italy	paola.fattibene@iss.it	Category B Senior	Team member	0000-0002-8204-0414	Orcid ID
Dr	Mauro	Grigioni	Man	Italy	mauro.grigioni@iss.it	Category A Top grade	Team member	0000-0002-8231-8156	Orcid ID
Dr	Evaristo	Cisbani	Man	Italy	evaristo.cisbani@iss.it	Category B Senior	Team member	0000-0002-6774-8473	Orcid ID
Dr	Cinzia	De Angelis	Woman	Italy	cinzia.deangelis@iss.it	Category B Senior	Team member	0000-0002-0546-3608	Orcid ID
Dr	Cristina	Nuccetelli	Woman	Italy	cristina.nuccetelli@iss.it	Category B Senior	Team member	0000-0003-2296-0398	Orcid ID
Dr	Sveva	Grande	Woman	Italy	sveva.grande@iss.it	Category C Recognized	Team member	0000-0002-1925-7602	Orcid ID
Dr	Alessandra	Palma	Woman	Italy	alessandra.palma@iss.it	Category C Recognized	Team member	0000-0002-8530-4913	Orcid ID
Dr	Sara	Della Monaca	Woman	Italy	sara.dellamonaca@iss.it	Category C Recognized	Team member	0000-0002-3109-9344	Orcid ID
Dr	Valentina	Dini	Woman	Italy	valentina.dini@iss.it	Category C Recognized	Team member	0000-0003-4125-0084	Orcid ID
Dr	Giuseppe	Esposito	Man	Italy	giuseppe.esposito@iss.it	Category C Recognized	Team member	0000-0002-8751-1895	Orcid ID
Dr	Gennaro	Venoso	Man	Italy	gennaro.venoso@iss.it	Category C Recognized	Team member	E-2139-2015	Researcher ID

Administrative forms

Role of participating organisation in the project

- | | |
|-----------------------------------------------------------------------------|-------------------------------------|
| Project management | <input type="checkbox"/> |
| Communication, dissemination and engagement | <input type="checkbox"/> |
| Provision of research and technology infrastructure | <input type="checkbox"/> |
| Co-definition of research and market needs | <input type="checkbox"/> |
| Civil society representative | <input type="checkbox"/> |
| Policy maker or regulator, incl. standardisation body | <input type="checkbox"/> |
| Research performer | <input checked="" type="checkbox"/> |
| Technology developer | <input type="checkbox"/> |
| Testing/validation of approaches and ideas | <input type="checkbox"/> |
| Prototyping and demonstration | <input type="checkbox"/> |
| IPR management incl. technology transfer | <input type="checkbox"/> |
| Public procurer of results | <input type="checkbox"/> |
| Private buyer of results | <input type="checkbox"/> |
| Finance provider (public or private) | <input type="checkbox"/> |
| Education and training | <input type="checkbox"/> |
| Contributions from the social sciences or/and the humanities | <input type="checkbox"/> |
| Other
If yes, please specify: (Maximum number of characters allowed: 50) | <input type="checkbox"/> |

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>EURADOS education and training a J. Radiol. Prot. 39 (2019) R37–R50 (14pp)activities Alves et al. This paper provides a summary of the E&T activities that have been developed and organised by the EURADOS Group in recent years and in the case of Training Courses over the last decade. EURADOS supports the dissemination of knowledge in radiation dosimetry by promoting and endorsing conferences such as the individual monitoring series, the NEUDOS and contributions to E&T sessions at specific events</i>
Publication	<i>EURADOS SRA 2020: Vision for the Dosimetry Of Ionising Radiation. Harrison et al. Rad.Pro.Dos. 2021, 194, 42-56. Since 2012, the EURADOS has developed its SRA, to identify future research needs in radiation dosimetry in Europe. Continued scientific developments in this field necessitate regular updates. The this paper summarises the latest revision of the SRA, with input regarding the state of the art and vision for the future contributed by EURADOS WGs and through a stakeholder workshops.</i>
Publication	<i>MEDIRAD project: Enhancing the protection of patients and health professionals from exposure to low-dose medical radiation. Grande et al. IL NUOVO CIMENTO 41C, 2018, 214. MEDIRAD addresses low-dose exposure situations for patients and workers in the medical context, to further develop risk models and draw operational recommendations for improving radiation protection. ISS participates to develop recommendations on patient's RP on the basis of Scientific outputs and Stakeholder involvement</i>
Publication	<i>Assessing radiation risk perception by means of a European stakeholder survey. Della Monaca. J. Radiol. Prot April 2021, doi.10.1088/1361-6498/abf75a. The EJP CONCERT aimed to contribute to the sustainable integration of European and national research programmes in radiation protection. Within the Project, ISS contributed in WP5 activity, dealing with Stakeholder engagement and communication strategies in RP, leading a subtask in charge of developing a public survey on the exposure risk perception.</i>
Publication	<i>Provision of Italian DRLs for diagnostic and interventional radiology Compagnone. Radiol med DOI 10.1007/s11547-020-01165-3. DRLs for adult/paediatric patients, radiological technique and examination are reported. The approach to the use of DRLs through guidelines of national Authorities in collaboration with scientific Associations should simplify the periodical updating and could be useful for keeping the optimisation of medical exposures faithful to the development of radiological practice.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>EJP CONCERT</i>	<i>The CONCERT-European Joint Programme for the Integration of Radiation Protection Research under Horizon 2020 aimed to contribute to the sustainable integration of European and national research programmes in radiation protection.</i>
<i>MEDIRAD</i>	<i>MEDIRAD aims to enhance the scientific bases and clinical practice of radiation protection in the medical field and thereby addresses the need to better understand and evaluate the health effects of low-dose ionising radiation exposure from diagnostic and therapeutic imaging and from off-target effects in radiotherapy.</i>
<i>ROCC-n-ROLL</i>	<i>EURAMED Rocc-n-roll will produce an SRA for medical applications of ionising radiation and related radiation protection and a corresponding roadmap, as well as an interlink document, integrating the views and identifying synergies from the areas of radiation protection, health research and digitisation, with impactful guidance to the EC and stakeholders on future research including the potential needs for centres of excellence in this area.</i>

Administrative forms

<i>RadoNorm</i>	<i>RadoNorm project under EURATOM Horizon 2020 aims at managing risk from radon and NORM exposure situations to assure effective radiation protection based on improved scientific evidence and social considerations.</i>
<i>EUCLID</i>	<i>EUCLID was a 33-month European Commission tender project, which was concluded with the acceptance of the final project report in October 2020. The EUCLID project aimed at advancing the optimisation of radiation protection of patients in Europe. Thus, the project provided up-to-date clinical DRLs for the most important, from a radiation protection perspective, x-ray imaging tasks in Europe.</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>LIBIS</i>	<i>LIBIS (Low dose/dose rate gamma Irradiation facility for Biological Systems) allow to irradiate cells and small animals with Cs-137 gamma rays, from 20 mGy/h to 2 microGy/h, and the rate varies in a continuous way within this range. The facility provides a high dose rate uniformity over the sample.</i>
<i>GAMMACEL</i>	<i>Gammacell® 40 Extractor (Nordion International Inc.) allows acute irradiation (dose rate of about 0.6 Gy/min) of small objects, biological samples with Cs-137 gamma rays. It is also possible to use 3 lead attenuators. The dose uniformity is \pm 7% over a diameter of ca 260 mm and a height of ca 100 mm.</i>
<i>Alpha Source</i>	<i>The alpha-particle irradiator consists of a stainless steel cylindrical chamber, 240 mm in diameter and 197 mm high, equipped with Cm-244 or Am-241 sources of different activities. The values of the LET incident on can be varied in the range (90 – 130) keV/micron approximately.</i>
<i>PULEX-COSMIC SILENCE</i>	<i>The PULEX cell culture facility is located in one of the bypass tunnels of the Gran Sasso National Lab in Italy. COSMIC SILENCE is an animal house facility. The rock coverage provides a reduction factor of 1 MI in the cosmic ray flux, and the neutron flux is a 1000 times less than on the surface.</i>
<i>ISS CORE Facilities</i>	<i>Mass cytometry; electron, confocal and live-imaging microscopy; proteomics (mass spectrometry and reverse-phase protein microarray); next-generation sequencing EPR; NMR; preclinical magnetic resonance; a scientific computation unit, a Cell Factory for the production of cell therapy products.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
954721919	ENERGIATUDOMANYI KUTATOKOZPONT
Short name: EK	
Address	
Street	KONKOLY THEGE MIKLOS UT 29-33
Town	Budapest
Postcode	1121
Country	Hungary
Webpage	ek-cer.hu
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	01/01/1992 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Environmental Physics Department not applicable

Same as proposing organisation's address

Street KONKOLY THEGE MIKLOS UT 29-33

Town Budapest

Postcode 1121

Country Hungary

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title _____

Gender Woman Man Non Binary

First name* **Balazs**

Last name* **Madas**

E-Mail* **balazs.madas@ek-cer.hu**

Position in org. senior research fellow, group leader

Department Environmental Physics Department

Same as organisation name

Same as proposing organisation's address

Street KONKOLY THEGE MIKLOS UT 29-33

Town Budapest

Post code 1121

Country Hungary

Website Please enter website

Phone +36 20 4558389

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Arpad	Farkas	arpad.farkas@ek-cer.hu	+361 3922222/3404

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999971837	INSTITUT JOZEF STEFAN
Short name: JSI	
Address	
Street	Jamova 39
Town	LJUBLJANA
Postcode	1000
Country	Slovenia
Webpage	www.ijs.si
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	12/03/1992 - no
SME self-assessment	12/03/1992 - no
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Department of Low and Medium Energy Physics not applicable

Same as proposing organisation's address

Street Jamova 39

Town LJUBLJANA

Postcode 1000

Country Slovenia

Department 2

Department name Department of Environmental Sciences not applicable

Same as proposing organisation's address

Street Jamova 39

Town LJUBLJANA

Postcode 1000

Country Slovenia

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Benjamin**

Last name* **Zorko**

E-Mail* **benjamin.zorko@ijs.si**

Position in org. Deputy Head of the Department / Head of the ISMIS group

Department Department of Low and Medium Energy Physics

Same as organisation name

Same as proposing organisation's address

Street Jamova 39

Town LJUBLJANA

Post code 1000

Country Slovenia

Website https://f2.ijs.si/en

Phone +38614773416

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Marja	Mali	marja.mali@ijs.si	+38614773246
Marko	Strok	marko.strok@ijs.si	+38615885243

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Benjamin	Zorko	Man	Slovenia	benjamin.zorko@ijs.si	Category B Senior	Leading		Orcid ID
Dr	Marko	Štok	Man	Slovenia	marko.strok@ijs.si	Category B Senior	Team member		Orcid ID
Mrs	Denis	Glavič-Cindro	Woman	Slovenia	denis.cindro@ijs.si	Category B Senior	Team member		Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input checked="" type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	ZORKO, Benjamin, KORUN, Matjaž, ČRNIČ, Boštjan, VODENIK, Branko, GOBEC, Sandi. Influence of solar activity on ambient dose equivalent $H^*(10)$ measured with thermoluminescent dosimeters in Slovenia. <i>Arhiv za higijenu rada i toksikologiju</i> . [Print ed.]. 2021, vol. 72, str. 23-28. ISSN 0004-1254. DOI: 10.2478/aiht-2021-72-3475.
Publication	HAZOU, Eyakifama, ZORKO, Benjamin, MIKESOKPO DZAGLI, Milohum, MANAKRIHÈA HALIBA, Essolakina, GUEMBOU, Shouop Cebastien Joel, NDONTCHUENG, Moyo Maurice, TCHAKPELE, Komi Paalamwè. Transfer from soil to grass and statistical analysis of naturally occurring radionuclides in soil from phosphate mining and processing sites in Maritime Region of Togo. <i>Environmental earth sciences</i> . 2021, vol. 80, no. 18, str. 626-1-626-12. ISSN 1866-6280. DOI: 10.1007/s12665-021-09931-w.
Publication	GLAVIČ-CINDRO, Denis, HAZOU, Eyakifama, KORUN, Matjaž, KRIŠTOF, Romana, OSTERMAN, Petra, PETROVIČ, Toni, VODENIK, Branko, ZORKO, Benjamin. Measurement uncertainty arising from sampling of environmental samples. <i>Applied Radiation and Isotopes</i> . [Print ed.]. 2020, vol. 5, str. 108978-1-108978-5. ISSN 0969-8043. DOI: 10.1016/j.apradiso.2019.108978.
Publication	MORA, Juan C., ZORKO, Benjamin, et al. On the use of reference areas for prospective dose assessments on populations 1 of wildlife for planned atmospheric discharges around nuclear installations. <i>Environmental research : multidisciplinary journal of environmental sciences, ecology, and public health</i> . [in press] 2019, 28 str. ISSN 0013-9351. DOI: 10.1016/j.envres.2019.109057.
Publication	CHARRASSE, Benoit, ZORKO, Benjamin, et al. Does the use of reference organisms in radiological impact assessments provide adequate protection of all the species within an environment?. <i>Science of the total environment</i> . 2019, vol. 658, str. 189-198. ISSN 0048-9697. DOI: 10.1016/j.scitotenv.2018.12.163.

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
ENRAS	ENRAS is a bilateral project between the competent entities from Slovenia and Croatia which have E&T capacities in the field of ionizing radiation. The project is carried out in the framework of INTERREG V-A Slovenia-Croatia, and financed by the European Regional Development Fund.
Environmental Radioactivity Monitoring	various types of Environmental Radioactivity Monitoring programs to ensure the radiation protection of workers and the general public
SSDL	to provide quality metrological support for ionizing radiation measurements, primarily to radiation protection of people and environment
TLD	provides established, reliable, robust and unique dosimetry services for users of ionising radiation
EPR	provision and maintaining of emergency preparedness and response by ELME; ELME is a formation of highly trained experts, who, in the event of a radiological, nuclear or chemical emergency, perform reliable and detailed measurements of the environmental conditions, determine the level of contamination and evaluate the impact of the measured contamination on the people and environment.

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
-------------------------------------	----------------------------------------

Administrative forms

<i>Secondary Standard Dosimetry Laboratory</i>	<i>irradiations of various materials, providing services in dosimetry and medical physics in conjunction with education and training</i>
<i>High-resolution Gamma-ray Spectrometry Laboratory</i>	<i>measurements of activity concentrations of gamma-ray emitters in various matrices in conjunction with education and training</i>
<i>Liquid Scintillation Laboratory</i>	<i>measurements of activity concentrations of various emitters (mostly H-3 and C-14) in various matrices in conjunction with education and training</i>
<i>Radiochemistry</i>	<i>different specialized laboratories for radiochemical research activities in conjunction with education and training</i>
<i>ELME</i>	<i>provision and maintaining of emergency preparedness and response in conjunction with education and training</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
938196902	Elektroinstitut Milan Vidmar

Short name: Inštitut za elektrogospodarstvo in elektroindustrijo

Address

Street	Hajdrihova 2
Town	Ljubljana
Postcode	1000
Country	Slovenia
Webpage	www.eimv.si

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name High Voltage and Power Plants Department not applicable

Same as proposing organisation's address

Street Hajdrihova 2

Town Ljubljana

Postcode 1000

Country Slovenia

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Nadja	Zeleznik	Woman	Slovakia	nadja.zeleznik@ei mv.si	Category B Senior	Leading		

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
998081501	DIREKTORATET FOR STRALEVERN OG ATOMSIKKERHET

Short name: NORWEGIAN RADIATION AND NUCLEAR SAFETY AUTHORITY - DSA

Address

Street	GRINI NAERINGSPARK 13
Town	OSTERAAS
Postcode	1332
Country	Norway
Webpage	www.nrpa.no

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	09/08/1995 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Research and Development, International Safety and Security not applicable

Same as proposing organisation's address

Street GRINI NAERINGSPARK 13

Town OSTERAAS

Postcode 1332

Country Norway

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Anne Liv**

Last name* **Rudjord**

E-Mail* **anne.liv.rudjord@dsa.no**

Position in org. **Section Head Research and Development**

Department **Department of Research and Development, International Nuclear Safety and Security** Same as organisation name

Same as proposing organisation's address

Street **GRINI NAERINGSPARK 13**

Town **OSTERAAS** Post code **1332**

Country **Norway**

Website **www.dsa.no**

Phone **+XXX XXXXXXXXXX** Phone 2 **+XXX XXXXXXXXXX**

Other contact persons

First Name	Last Name	E-mail	Phone
Jelena	Mrdakovic Popic	jelena.popic@dsa.no	+4748096612

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Anne Liv	Rudjord	Woman	Norway	anne.liv.rudjord@dsa.no	Category B Senior	Team member	0000-0003-1629-5416	Orcid ID
Dr	Jelena	Mrdakovic Popic	Woman	Norway	jelena.popic@dsa.no	Category B Senior	Leading	0000-0002-8890-7015	Orcid ID
	Tone-Mette	Sjømoen	Woman	Norway	tone-mette.sjomoen@dsa.no	Category B Senior	Team member		
	Anne Marie	Frøvig	Woman	Norway	anne.marie.frovig@dsa.no	Category D First stage	Team member		

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input checked="" type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input checked="" type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Gilbin R., Arnold T., Beresford N.A., Berthomieu C., Brown J.E., de With G., Horemans N., Madruga M.J., Masson O., Merroun M., Michalik B., Muikku M., O'Toole S., Mrdakovic Popic J., Nogueira P., Real A., et al. An updated strategic research agenda for the integration of radioecology in the European radiation protection research. Journal of Environmental Radioactivity 237 (2021) 106697. https://doi.org/10.1016/j.jenvrad.2021.106697</i>
Publication	<i>D3.7 Second joint roadmap for radiation protection research. EJP-CONCERT (H2020 – 662287) January 2020. DSA contributed through platforms ALLIANCE, EURADOS, NERIS and SHARE</i>
Publication	<i>Montero, M.; Sala, R.; Trueba, C.; García-Puerta, et al. Stakeholder involvement through national panels and surveys to address the issues and uncertainties arising in the preparedness and management of the transition phase. Radioprotection 55 S127-S134 (2020). DOI: 10.1051/radiopro/2020022</i>
Publication	<i>D9.59 - Radiological state database of sites. Report describing the TERRITORIES Library Database (TLD) – a repository for radiological measurements made at selected sites.</i>
Publication	<i>Turcanu, C., Sala, R., Perko, T., et al. How would citizens react to official advice in a nuclear emergency? Insights from research in three European countries. Journal of Contingencies and Crisis Management, 29(2), 143-169. (2021). https://doi.org/10.1111/1468-5973.12327</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>RadoNorm project</i>	<i>"Towards effective radiation protection based on improved scientific evidence and social considerations - focus on radon and NORM" (H-2020_900009) (2020 -2025). Aimed to improve the radiation protection of workers and public against the possible effects of radon and the wastes from industrial process that increase exposure to natural radionuclides (NORM), by reducing scientific, technical and social uncertainties. Participants: 56 organizations from 20 Member States, plus Norway and Switzerland</i>
<i>EJP CONCERT</i>	<i>The European Joint Programme for the Integration of Radiation Protection Research (H2020 – 662287) (2015-2020). The synergistic and complementary work, carried out through the different work packages of the EJP-CONCERT, has contributed to the success of the project in joint programming and integrative activities. The two open calls to fund R&D projects in radiation protection have been a unique added value for the EJP-CONCERT.</i>
<i>TERRITORIES</i>	<i>"To Enhance uncertainties Reduction and stakeholders Involvement Towards integrated and graded Risk management of humans and wildlife In long-lasting radiological Exposure Situations" (H2020 – 662287) (2017-2019). A graded approach, for assessing doses to humans and wildlife and managing long-lasting exposure situations to ionising radiation, was achieved through reducing uncertainties to a level that can be considered fit-for-purpose.</i>
<i>CONFIDENCE</i>	<i>"COping with uNcertainties For Improved modelling and DEcision making in Nuclear emergenCiEs" (H2020 – 662287) (2017-2019). The project addressed: scientific challenges associated with model uncertainties and improve radioecological predictions and emergency management, situation awareness and monitoring strategies, risk estimation, decision making and strategy development, including social and ethical aspects.</i>
<i>STAR</i>	<i>Strategy for Allied Radioecology - (FP7-EURATOM-FISSION) (2011-2015). The goal of the project was to efficiently integrate important organisations, infrastructures, and research efforts into a sustainable network that contributes to a European Research Area in radioecology. To achieve this, a Joint Programme of Activities were implemented covering integration and sharing of infrastructures; training, education and mobility; knowledge management and dissemination, and three key research theme.</i>

Administrative forms

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>The Dosimetry Laboratory</i>	<i>Norwegian reference laboratory for dosimetry within radiotherapy, x-ray diagnostics and radiation protection.</i>
<i>The Environmental Laboratory</i>	<i>Laboratory performing radioactivity analyses in connection with monitoring and reserach programmes.</i>
<i>The Emergency Preparedness Laboratory</i>	<i>Laboratory providing instrumentation and expertise in order to determine radiation levels in the event of radioactive contamination and accidents with radiation sources or at nuclear power plants.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999902967	NORGES MILJO-OG BIOVITENSKAPLIGE UNIVERSITET

Short name: NMBU

Address

Street	UNIVERSITETSTUNET 3
Town	AS
Postcode	1433
Country	Norway
Webpage	http://www.nmbu.no

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is **not an SME** (small- and medium-sized enterprise) for the call.

SME self-declared status	20/05/2016 - no
SME self-assessment	20/05/2016 - no
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Department of radio ecology not applicable

Same as proposing organisation's address

Street UNIVERSITETSTUNET 3

Town AS

Postcode 1433

Country Norway

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
917710793	Radiation Protection Division of the Federal Office of Public Health

Short name: Radiation Protection Division of the Federal Office of Public Health

Address

Street	Schwarzenburgstrasse 157
Town	Bern
Postcode	3003
Country	Switzerland
Webpage	www.str-rad.ch

Specific Legal Statuses

Legal person	yes
Public body	unknown
Non-profit	unknown
International organisation	unknown
Secondary or Higher education establishment	unknown
Research organisation	unknown

SME Data

Based on the below details from the Participant Registry the organisation is **unknown** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Radiation Protection Division of the Federal Office of Public Hea not applicable

Same as proposing organisation's address

Street Schwarzenburgstrasse 157

Town Bern

Postcode 3003

Country Switzerland

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title _____

Gender Woman Man Non Binary

First name* **Philipp**

Last name* **Trueb**

E-Mail* **philipp.trueb@bag.admin.ch**

Position in org. Section Head

Department Radiation Protection Division of the Federal Office of Public Health

Same as organisation name

Same as proposing organisation's address

Street Schwarzenburgstrasse 157

Town Bern

Post code 3003

Country Switzerland

Website www.str-rad.ch

Phone +414629608

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Reto	Treier	reto.treier@bag.admin.ch	reto.treier@bag.admi

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input checked="" type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>CONCERT</i>	<i>POM for Switzerland</i>
<i>HERCA</i>	<i>Member of core group in HERCA Medical Application</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999992401	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
Short name: CEA	
Address	
Street	RUE LEBLANC 25
Town	PARIS 15
Postcode	75015
Country	France
Webpage	www.cea.fr
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	17/05/2019 - no
SME self-assessment	unknown
SME validation	01/10/2008 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Direction Infrastructures de Recherches Europe et International not applicable

Same as proposing organisation's address

Street CEA Saclay

Town Gif sur Yvette

Postcode 91191

Country France

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Laure**

Last name* **Sabatier**

E-Mail* **laure.sabatier@cea.fr**

Position in org. **Research Director**

Department **Direction Infrastructures de Recherches Europe et International**

Same as organisation name

Same as proposing organisation's address

Street **CEA Saclay**

Town **Gif sur Yvette**

Post code **91191**

Country **France**

Website **https://www.cea.fr/english**

Phone **+33169082604**

Phone 2 **+33672543655**

Other contact persons

First Name	Last Name	E-mail	Phone
Jean-Michel	Dolo	jean-michel.dolo@cea.fr	+XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Averbeck D, Candéias S, Chandna S, Foray N, Friedl AA, Haghdoost S, Jeggo PA, Lumniczky K, Paris F, Quintens R, Sabatier L. Establishing mechanisms affecting the individual response to ionizing radiation. Int J Radiat Biol. 2020;96(3):297-323.</i>
Publication	<i>Herate C, Sabatier L. Retrospective biodosimetry techniques: Focus on cytogenetics assays for individuals exposed to ionizing radiation. Mutat Res Rev Mutat Res. 2020 Jan-Mar;783:108287.</i>
Publication	<i>Averbeck D, Salomaa S, Bouffler S, Ottolenghi A, Smyth V, Sabatier L. Progress in low dose health risk research: Novel effects and new concepts in low dose radiobiology. Mutat Res. 2018 Apr - Jun;776:46-69.</i>
Publication	<i>Kreuzer M, Auvinen A, Cardis E, Durante M, Harms-Ringdahl M, Jourdain JR, Madas BG, Ottolenghi A, Pazzaglia S, Prise KM, Quintens R, Sabatier L, Bouffler S. Multidisciplinary European Low Dose Initiative (MELODI): strategic research agenda for low dose radiation risk research. Radiat Environ Biophys. 2018 Mar;57(1):5-15. Review.</i>
Publication	<i>Frenzel M, Ricoul M, Benadjaoud MA, Bellamy M, Lenain A, Haddy N, Diallo I, Mateus C, de Vathaire F, Sabatier L. Retrospective cohort study and biobanking of patients treated for hemangioma in childhood - telomeres as biomarker of aging and radiation exposure. Int J Radiat Biol. 2017 Jun 26:1-14.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>Concert EJP EURATOM 2015-2020</i>	<i>L. Sabatier Leader du WP Infrastructures</i>
<i>NoE Doremi 2010-2015 EURATOM</i>	<i>L. Sabatier Leader du WP Infrastructures</i>
<i>Integrated Project RISC-RAD 2004-2008 EURATOM</i>	<i>L. Sabatier Coordinateur</i>
<i>TT-IBER ESA</i>	<i>L. Sabatier scientific committee expert</i>
<i>INSERM 2018-2021</i>	<i>Expertise Collective : conséquences sanitaires des tirs aériens en Polynésie</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>Exposure plateforme</i>	<i>Heavy ions , Ganil, Caem</i>
<i>Biobank</i>	<i>Haemangioma cohort</i>
<i>Training Facilities</i>	<i>INSTN Saclay</i>
<i>Dosimetry platforms</i>	<i>DOSEO Saclay for medical applications</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
998737124	UNIVERSITE DE CAEN NORMANDIE

Short name: UNICAEN

Address

Street	ESPLANADE DE LA PAIX
Town	CAEN CEDEX 5
Postcode	14032
Country	France
Webpage	www.unicaen.fr

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	01/03/1983 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name UNIVERSITE DE CAEN NORMANDIE ("UNICAEN"), not applicable

Same as proposing organisation's address

Street ESPLANADE DE LA PAIX

Town CAEN CEDEX 5

Postcode 14032

Country France

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement

Short description (Max 500 characters)

--	--

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity

Short description (Max 500 characters)

--	--

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment

Short description (Max 300 characters)

--	--

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999997833	INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

Short name: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

Address

Street	RUE DE TOLBIAC 101
Town	PARIS
Postcode	75654
Country	France
Webpage	www.inserm.fr

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **not an SME** (small- and medium-sized enterprise) for the call.

SME self-declared status	20/05/2016 - no
SME self-assessment	unknown
SME validation	18/07/1964 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Institut de Recherche en Santé de l'Université de Nantes not applicable

Same as proposing organisation's address

Street 8 quai Moncouso – BP 70721 –

Town Nantes

Postcode 44007

Country France

Links with other participants

Type of link	Participant
Is controlled by	COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Francois	PARIS	Man	France	francois.paris@inserm.fr	Category B Senior	Team member		

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999997930	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS
Short name: CNRS	
Address	
Street	RUE MICHEL ANGE 3
Town	PARIS
Postcode	75794
Country	France
Webpage	www.cnrs.fr
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	18/11/2008 - no
SME self-assessment	unknown
SME validation	18/11/2008 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name IN2P3 Institut national de physique nucléaire et de physique des not applicable

Same as proposing organisation's address

Street RUE MICHEL ANGE 3

Town PARIS

Postcode 75794

Country France

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999988521	AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE
Short name: ENEA	
Address	
Street	LUNGOTEVERE GRANDE AMMIRAGLIO THAON D
Town	ROMA
Postcode	00196
Country	Italy
Webpage	http://www.enea.it
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	07/09/2021 - no
SME self-assessment	unknown
SME validation	03/09/2003 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name DIPARTIMENTO SOSTENIBILITA' DEI SISTEMI PRODUTTIVI E TERRITORIALI not applicable

Same as proposing organisation's address

Street LUNGOTEVERE THAON DI REVEL 76

Town ROMA

Postcode 00196

Country Italy

Links with other participants

Type of link	Participant
Controls	UNIVERSITA DEGLI STUDI DI PAVIA

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Roberto**

Last name* **Morabito**

E-Mail* **roberto.morabito@enea.it**

Position in org. DIRETTORE DIPARTIMENTO

Department DIPARTIMENTO SOSTENIBILITA' DEI SISTEMI PRODUTTIVI E TERRITORIALI

Same as organisation name

Same as proposing organisation's address

Street LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI REVEL 76

Town ROMA

Post code 00196

Country Italy

Website www.enea.it

Phone +3930484933

Phone 2 +39063204259213

Other contact persons

First Name	Last Name	E-mail	Phone
Simonetta	Pazzaglia	simonetta.pazzaglia@enea.it	+39 06 30486535

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Simonetta	Pazzaglia	Woman	Italy	simonetta.pazzaglia@enea.it	Category B Senior	Leading	0000-0003-2078-4466	Orcid ID

Administrative forms

Role of participating organisation in the project

- | | |
|-----------------------------------------------------------------------------|-------------------------------------|
| Project management | <input type="checkbox"/> |
| Communication, dissemination and engagement | <input type="checkbox"/> |
| Provision of research and technology infrastructure | <input type="checkbox"/> |
| Co-definition of research and market needs | <input type="checkbox"/> |
| Civil society representative | <input type="checkbox"/> |
| Policy maker or regulator, incl. standardisation body | <input type="checkbox"/> |
| Research performer | <input checked="" type="checkbox"/> |
| Technology developer | <input type="checkbox"/> |
| Testing/validation of approaches and ideas | <input type="checkbox"/> |
| Prototyping and demonstration | <input type="checkbox"/> |
| IPR management incl. technology transfer | <input type="checkbox"/> |
| Public procurer of results | <input type="checkbox"/> |
| Private buyer of results | <input type="checkbox"/> |
| Finance provider (public or private) | <input type="checkbox"/> |
| Education and training | <input type="checkbox"/> |
| Contributions from the social sciences or/and the humanities | <input type="checkbox"/> |
| Other
If yes, please specify: (Maximum number of characters allowed: 50) | <input type="checkbox"/> |

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Pasqual E, Boussin F, Bazyka D, Nordenskjold A, Yamada M, Ozasa K, Pazzaglia S, Roy L, Thierry-Chef I, de Vathaire F, Benotmane MA, Cardis E. Cognitive effects of low dose of ionizing radiation - Lessons learned and research gaps from epidemiological and biological studies. Environ Int. 2021 Feb;147:106295. doi: 10.1016/j.envint.2020.106295. Epub 2020 Dec 17. PMID: 33341586.</i>
Publication	<i>Kreuzer M, Auvinen A, Cardis E, Durante M, Harms-Ringdahl M, Jourdain JR, Madas BG, Ottolenghi A, Pazzaglia S, Prise KM, Quintens R, Sabatier L, Bouffler S. Multidisciplinary European Low Dose Initiative (MELODI): strategic research agenda for low dose radiation risk research. Radiat Environ Biophys. 2018 Mar;57(1):5-15. doi: 10.1007/s00411-017-0726-1. Epub 2017 Dec 15. PMID: 29247291; PMCID: PMC5816101.</i>
Publication	<i>Pazzaglia S, Briganti G, Mancuso M, Saran A. Neurocognitive Decline Following Radiotherapy: Mechanisms and Therapeutic Implications. Cancers (Basel). 2020 Jan 8;12(1):146. doi: 10.3390/cancers12010146. PMID: 31936195; PMCID: PMC7017115.</i>
Publication	<i>Mancuso M, Pasquali E, Braga-Tanaka I 3rd, Tanaka S, Pannicelli A, Giardullo P, Pazzaglia S, Tapio S, Atkinson MJ, Saran A. Acceleration of atherogenesis in ApoE^{-/-} mice exposed to acute or low-dose-rate ionizing radiation. Oncotarget. 2015 Oct 13;6(31):31263-71. doi: 10.18632/oncotarget.5075. PMID: 26359350; PMCID: PMC4741603.</i>
Publication	<i>De Stefano I, Tanno B, Giardullo P, Leonardi S, Pasquali E, Antonelli F, Tanori M, Casciati A, Pazzaglia S, Saran A, Mancuso M. The Patched 1 tumor-suppressor gene protects the mouse lens from spontaneous and radiation-induced cataract. Am J Pathol. 2015 Jan;185(1):85-95. doi: 10.1016/j.ajpath.2014.09.019. Epub 2014 Nov 15. PMID: 25452120.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
SEPARATE	<i>(Systemic Effects of Partial-body Exposure to Low Radiation Doses). Horizon2020, CONCERT-European Joint Programme, grant agreement no 662287 (2018-2020)</i>
LDLensRAD	<i>(Towards a full mechanistic understanding of low dose radiation cataracts). Horizon2020, CONCERT-European Joint Programme, grant agreement no 662287 (2017-2020)</i>
CEREBRAD	<i>(Cognitive and Cerebrovascular Effects Induced by Low Dose Ionizing Radiation). FP7. Grant agreement no: 295552 (2011-2015)</i>
PROCARDIO	<i>(Cardiovascular Risk from Exposure to Low-dose and Low-dose-rate Ionizing Radiation). FP7. Grant agreement no: 295823 (2011-2015)</i>
DARK-RISK	<i>(Studies on a cohort of Serbian children exposed to x irradiation to determine the contribution of the noncoding genome to susceptibility at low doses) FP7. Grant agreement no 323216 (2012-2015)</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
Animal house	<i>Conventional animal house for small rodents</i>
Irradiation facilities	<i>X-rays generator; gamma-rays source; proton linear accelerator</i>
Cell culture laboratories	<i>Cell culture hood (i.e., laminar-flow hood or biosafety cabinet) Incubator (humid CO2 incubator recommended) Water bath. Centrifuge. Refrigerator and freezer (-20°C) Cell counter (e.g., Countess® II FL Automated Cell Counter or hemacytometer). Inverted fluorescence microscope</i>

Administrative forms

<i>Facility of histopathology</i>	<i>Tissue processing equipment; microtomes; cryostat; stereomicroscope; standard and fluorescent microscope, CCD camera</i>
<i>Molecular biology laboratories</i>	<i>Conventional and real-time DNAThermal Cyclers; Fluorescence Scanner; FACS facility; automated DNA sequencer; affymetrix microarray technology; biobanking and tissue array processing facilities;superspeed centrifuges; gel driers; lyophilizer; horizontal gel electrophoresis and Western blotting</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
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- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999893752	UNIVERSITA DEGLI STUDI DI PAVIA

Short name: UNIPV

Address

Street	STRADA NUOVA 65
Town	PAVIA
Postcode	27100
Country	Italy
Webpage	www.unipv.it

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	unknown
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name DIPARTIMENTO SOSTENIBILITA' DEI SISTEMI PRODUTTIVI E TERRITORIALI not applicable

Same as proposing organisation's address

Street LUNGOTEVERE GRANDE AMMIRAGLIO THAON DI R

Town ROMA

Postcode 00196

Country Italy

Links with other participants

Type of link	Participant
Controls	Ministero dell'università e della ricerca

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement

Short description (Max 500 characters)

--	--

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity

Short description (Max 500 characters)

--	--

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment

Short description (Max 300 characters)

--	--

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
958820072	FORSVARET OG FORSVARSMINISTERIETS STYRELSER

Short name: MINISTRY OF DEFENCE

Address

Street	DANNESKIOLD SAMSOES ALLE 1
Town	KOBENHAVN
Postcode	1060
Country	Denmark
Webpage	http://www.fmn.dk

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Danish Emergency Management Agency not applicable

Same as proposing organisation's address

Street Datavej 16

Town Birkerød

Postcode 3460

Country Denmark

Links with other participants

Type of link	Participant
	ENVIRONMENTAL PROTECTION AGENCY OF IRELAND

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Agnieszka**

Last name* **Hac-Heimburg**

E-Mail* **brs-ahh@brs.fiin.dk**

Position in org. **Senior Advisor**

Department **Danish Emergency Management Agency, Nuclear Division**

Same as organisation name

Same as proposing organisation's address

Street **Datavej 16**

Town **Birkerød**

Post code **3460**

Country **Denmark**

Website **www.brs.dk**

Phone **+45 51779875**

Phone 2 **+45 4590 6000**

Other contact persons

First Name	Last Name	E-mail	Phone
Carsten	Israelson	brs-cisr@brs.fiin.dk	+4520919989

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Kasper	Grann Andersson	Man	Denmark	kgan@env.dtu.dk	Category B Senior	Team member	https://orcid.org/0000-0002-7719-585X	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input checked="" type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	Sørensen, J.H., Bartnicki, J., Blixt Buhr, A.M., Feddersen, H., Hoe, S.C., Israelson, C., Klein, H., Lauritzen, B., Lindgren, J., Schönfeldt, F., Sigg, R. Uncertainties in atmospheric dispersion modelling during nuclear accidents. <i>J. Environ. Radioact.</i> 222 (2020) 1-10 https://doi.org/10.1016/j.jenvrad.2020.106356
Publication	Sørensen, J.H. Method for source localization proposed and applied to the October 2017 case of atmospheric dispersion of Ru-106. <i>Journ. Envir. Radioactivity</i> 189C (2018) 221–226 https://doi.org/10.1016/j.jenvrad.2018.03.010 https://www.sciencedirect.com/science/article/pii/S0265931X18300146
Publication	Hinrichsen, Y. & Andersson, K.G. (2019). European decision support modelling of long-term external doses received in inhabited areas contaminated by a nuclear power plant accident - 1: Initial relative dose rate contributions from different contaminated outdoor surfaces, <i>Journal of Environmental Radioactivity</i> , vol: 204, pages: 143-153, DOI: https://doi.org/10.1016/j.jenvrad.2019.04.008 .
Publication	Hinrichsen, Y. & Andersson, K.G. (2019). European decision support modelling of long-term external doses received in inhabited areas contaminated by a nuclear power plant accident - 2: Post deposition contaminant mobility on outdoor surfaces, <i>Journal of Environmental Radioactivity</i> , vol: 204, pages: 154-162, DOI: https://doi.org/10.1016/j.jenvrad.2019.04.009 .
Publication	Hinrichsen, Y., Andersson, K.G. (2019). Kerma conversion factors for modern glass buildings in radioactively contaminated areas, <i>Journal of Radiological Protection</i> , vol: 39, issue: 1, pages: 161-175, DOI: https://doi.org/10.1088/1361-6498/aaf6ca .

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CEC PREPARE	(2013-2016; FP7 Grant Agreement No. 323287): effort on the construction of innovative integrative tools and platforms to be prepared for radiological emergencies and post-accident response in Europe. Focused on decision support system parameterisation for contaminants of different physicochemical forms and on countermeasure systematisation.
CEC NERIS-TP	(2011-14): Specifically efforts improving indoor dose estimation models for the ARGOS and RODOS decision support systems and issuing recommendations for inclusion in these systems regarding countermeasure selection in compliance with the newest ICRP recommendations.
NKS SLIM	Nordic Nuclear Safety Research (NKS) project Source Localization by Inverse Methods (SLIM), coordinator, 2019-2020, http://www.nks.org/en/nks_reports/view_document.htm?id=111010214696504
NKS AVESOME	Nordic Nuclear Safety Research (NKS) project Added Value of uncertainty Estimates of SOURCE term and Meteorology (AVESOME), coordinator, 2017-2018, http://www.nks.org/en/nks_reports/view_document.htm?id=111010214696230
CEC CONFIDENCE	(2017-2020), (a subproject of the CEC CONCERT project; Euratom research and training programme 2014-2019 grant agreement No 662287), Revised the input data in the ERMIN inhabited areas dose estimation model (integrated in the ARGOS and RODOS DSS) to reflect state of the art knowledge, and recommendations regarding ERMIN uncertainty evaluation and interpretation to support stakeholders in decision-making processes in the transition phase to long-term recovery.

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
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Administrative forms

<i>ARGOS</i>	<i>ARGOS is a Decision Support System for handling releases of hazardous materials to the atmosphere. ARGOS produces prognostic and collects real time data to provide the best possible overview of the situation. ARGOS deals with pre-release, release, post-release and remediations phases of emergencies.</i>
<i>DERMA</i>	<i>The Danish Emergency Response Model of the Atmosphere (DERMA) is a regional and global atmospheric dispersion model in operational use for Danish nuclear, chemical and veterinary emergency preparedness. Besides, it simulates the spread of volcanic ash and gasses. DERMA runs at the DMI HPC facility</i>
<i>DTU specialized laboratories</i>	<i>DTU has specialized laboratories, including radiochemistry facilities, 10 lead-shielded HP germanium detectors, ICP-MS (Agilent Triple Quad 8800), ICP-OES (Varian Vista pro), LSC (Quantulus 1220), 45 beta counters and 24 Si alpha counters with Risø vacuum chambers, 2 ion chambers and air samplers.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999470541	HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV
Short name: HZDR	
Address	
Street	BAUTZNER LANDSTRASSE 400
Town	DRESDEN
Postcode	01328
Country	Germany
Webpage	www.hzdr.de
Specific Legal Statuses	
Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	04/03/2009 - no
SME self-assessment	unknown
SME validation	04/03/2009 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Institute of Resource Ecology not applicable

Same as proposing organisation's address

Street BAUTZNER LANDSTRASSE 400

Town DRESDEN

Postcode 01328

Country Germany

Links with other participants

Type of link	Participant
Controls	

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Thuro**

Last name* **Arnold**

E-Mail* **t.arnold@hzd.de**

Position in org. Project Manager

Department Institute of Resource Ecology

Same as organisation name

Same as proposing organisation's address

Street BAUTZNER LANDSTRASSE 400

Town DRESDEN

Post code 01328

Country Germany

Website https://www.hzdr.de/db/Cms?pNid=142

Phone +49 351 260 2432

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Susanne	Sachs	s.sachs@hzdr.de	+XXX XXXXXXXXXX
Carola	Franzen	c.franzen@hzdr.de	+XXX XXXXXXXXXX
Thorsten	Stumpf	t.stumpf@hzdr.de	+XXX XXXXXXXXXX
Wolfgang	Raskob	wolfgang.raskob@kit.edu	+XXX XXXXXXXXXX
Angelika	Bohnstedt	angelika.bohnstedt@kit.edu	+XXX XXXXXXXXXX
Barbara	Schramm	b.schramm@hzdr.de	+XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Prof	Thorsten	Stumpf	Man	Germany	t.stumpf@hzdr.de	Category A Top grade	Team member		
Dr	Thuro	Arnold	Man	Germany	t.arnold@hzdr.de	Category B Senior	Leading		
Dr	Susanne	Sachs	Woman	Germany	s.sachs@hzdr.de	Category B Senior	Team member	0000-0001-9097-9299	Orcid ID
Dr	Dinara	Abbasova	Woman	Azerbaijan	d.abbasova@hzdr.de	Category C Recognized	Team member		

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	Jessat, J., Sachs, S., Moll, H., John, W., Steudtner, R., Hübner, R., Bok, F., Stumpf, T.: Bioassociation of U(VI) and Eu(III) by plant (<i>Brassica napus</i>) suspension cell cultures – a spectroscopic investigation. <i>Environmental Science and Technology</i> 55 (2021), 6718-6728. DOI: doi.org/10.1021/acs.est.0c05881.
Publication	Rajabi, F., Jessat, J., Garimella, J. N., Bok, F., Steudtner, R., Stumpf, T., Sachs, S.: Uranium(VI) toxicity in tobacco BY-2 cell suspension culture – A physiological study. <i>Ecotoxicology and Environmental Safety</i> 211 (2021) 111883, DOI: doi.org/10.1016/j.ecoenv.2020.111883.
Publication	Wollenberg, A., Drobot, B., Hübner, R., Kretzschmar, J., Freitag, L., Lehmann, F., Günther, A., Stumpf, T., Raff, J.: Uranium(VI) bioassociation by different fungi – a comparative study into molecular processes. <i>Journal of Hazardous Materials</i> 411(2021), 125068, DOI: 10.1016/j.jhazmat.2021.125068.
Publication	Martin, A., Hassan-Loni, Y., Fichtner, A., Péron, O., David, K., Chardon, P., Larrue, S., Gourgiotis, A., Sachs, S., Arnold, T., Grambow, B., Stumpf, T., Montavon, G.: An integrated approach combining soil profile, records and tree ring analysis to identify the origin of environmental contamination in a former uranium mine (Rophin, France). <i>Science of the Total Environment</i> 747, 141295 (2020), DOI: 10.1016/j.scitotenv.2020.141295.
Publication	Stockmann M., Schikora J., Becker D.A., Flugge J., Noseck U., Brendler V. (2017) Smart K-d-values, their uncertainties and sensitivities - Applying a new approach for realistic distribution coefficients in geochemical modeling of complex systems. <i>Chemosphere</i> 187, 277-285. DOI: 10.1016/j.chemosphere.2017.08.115

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
Project	RadoNorm: Towards effective radiation protection based on improved scientific evidence and social considerations - focus on radon and NORM, EU project, grant agreement No. 900009, 01.09.2020-31.08.2025
Project	European Joint Programme for the Integration of Radiation Research – CONCERT, EU project, project No.: 662287
Project	Joint project TRANS-LARA: Transport- and Transfer behavior of long-living radionuclides along the causal chain groundwater-soil-surface-plant considering long-term climatic changes, subproject B, Ministry for Education and Research (BMBF), project No.: 02NUK051B, 1.9.2017-28.02.2021
Project	Investigation of the potential of biological processes for the precautionary radiation protection in case of radionuclide contamination (BioVeStRa), Ministry for Education and Research (BMBF), project No.: 02S9276A, 01.06.2016-31.05.2019
Project	Joint project TransAqua - Transfer of radionuclides in aquatic ecosystems. Part A: Investigation of the interaction of underground-living microorganisms with uranium; Part B: Spectroscopic determination of the binding form (speciation) of trivalent actinides and lanthanides in biofluids of the human intestinal tract and in the blood, Ministry for Education and Research (BMBF), project No.: 02NUK030F, 01.06.2013-30.11.2017

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
-------------------------------------	----------------------------------------

Administrative forms

<i>Radiochemical and biological laboratories</i>	<i>Spectroscopic, microscopic, analytical, radioanalytical, and microbiological methods are implemented in controlled areas allowing radiochemical and radioecological studies that can be performed only at a few places in Europe. S1 laboratories are integrated in these controlled areas.</i>
<i>Rosendorf Beamline at the ESRF (Grenoble, France)</i>	<i>The Institute runs two stations at the Rosendorf Beamline, at the European Synchrotron Radiation Facility (ESRF) in Grenoble (France), dedicated to X-ray based absorption, emission and diffraction.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999564922	ELLINIKI EPITROPI ATOMIKIS ENERGEIAS

Short name: GREEK ATOMIC ENERGY COMMISSION

Address

Street	NEAPOLEOS 4 PATRIARCHOU GRIGORIOU
Town	AGHIA PARASKEVI
Postcode	15310
Country	Greece
Webpage	www.gaec.gr

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

No department involved

Department name *Name of the department/institute carrying out the work.* not applicable

Same as proposing organisation's address

Street *Please enter street name and number.*

Town *Please enter the name of the town.*

Postcode *Area code.*

Country *Please select a country*

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Sotirios**

Last name* **Economides**

E-Mail* **sotiris.economides@eeae.gr**

Position in org. **Special Scientific Personnel**

Department **ELLINIKI EPITROPI ATOMIKIS ENERGEIAS**

Same as organisation name

Same as proposing organisation's address

Street **NEAPOLEOS 4 PATRIARCHOU GRIGORIOU**

Town **AGHIA PARASKEVI**

Post code **15310**

Country **Greece**

Website *Please enter website*

Phone **+30 210 6506708**

Phone 2 *+XXX XXXXXXXXXX*

Other contact persons

First Name	Last Name	E-mail	Phone
Eleftheria	Carinou	eleftheria.carinou@eeae.gr	+30 210 6506718

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Sotirios	Economides	Man	Greece	sotiris.economides@eeae.gr	Category A Top grade	Leading	0000-0002-5540-3515	Orcid ID
Dr	Eleftheria	Carinou	Woman	Greece	eleftheria.carinou@eeae.gr	Category A Top grade	Leading	0000-0002-5748-3408	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input checked="" type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>E. Carinou, C. Housiadas, "Practical guidance on the regulatory management of radioactive liquid discharges from medical, educational and research laboratories", Radiat. Prot. Dosim., 193(2), 124–132, 2021, https://doi.org/10.1093/rpd/ncab032.</i>
Publication	<i>S. Economides, K. Karfopoulos, E. Mestousi, P. Founta, E. Carinou and C. Housiadas, "Assessment of high school textbooks addressing radiations", Radioprotection, 56(3), 205–210, 2021, https://doi.org/10.1051/radiopro/2021016.</i>
Publication	<i>S. Economides, P. Askounis, K. Karfopoulos, E. Carinou, C. Housiadas, "The impact of radiation protection training on the radiological safety and the related culture of exposed workers in Greece", J. Radiol. Prot., 40(4), 997, 2020, https://doi.org/10.1088/1361-6498/abaf3e.</i>
Publication	<i>Duranova, C. Turcanu, R. Geysmans, C. Schieber, C. Pözl-Viol, N. Zeleznik, F. Barazza, S. Economides, C. Fallon, "Knowledge base concept for designing and documenting participation in radiological protection", Radioprotection, 55, S255-S258, 2020 https://doi.org/10.1051/radiopro/2020042.</i>
Publication	<i>Schieber, C. Pözl-Viol, M-C Cantone, N. Železnik, S. Economides, R. Gschwind, B. Abelshausen, D. Savu, S. Lafage, L. Liutsko, S. Charron, C. Turcanu, R. Geysmans, "Engaging health professionals and patients in the medical field: role of radiological protection culture and informed consent practices", Radioprotection, 55, S235-S242, 2020, https://doi.org/10.1051/radiopro/2020039.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>DOSEtrace, EMPIR EURAMET, 2018-2021</i>	<i>The research project "Research capabilities for radiation protection dosimeters" (DOSEtrace) is funded by the European Commission and aims at the optimization of measurements in the field of radiation protection. The optimization relates to the equipment used and the procedures for measuring and evaluating the doses to humans and the environment.</i>
<i>VERIDIC, CONCERT</i>	<i>The research project "Validation and Estimation of Radiation skin Dose in Interventional Cardiology (VERIDIC)" was funded by the European Commission and focused on patient-specific dose calculation in interventional cardiology (IC).</i>
<i>PODIUM, CONCERT</i>	<i>The research project "Personal Online Dosimetry Using computational Methods (PODIUM)" was funded by the European Commission and focused on individual monitoring of exposed workers to external ionizing radiation.</i>
<i>ENGAGE, CONCERT</i>	<i>The research project "ENhancinG stAkeholder participation in the GovernancE of radiological risks for improved radiation protection and informed decision-making (ENGAGE)" was funded by the European Commission and its aim was to improve the governance of radiological risks by strengthening and enhancing stakeholder engagement processes in relation to radiation protection policy and practice</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>SSDL</i>	<i>The EEAE's Ionizing Radiation Calibration Laboratory is a secondary standard calibration laboratory which has developed and maintains the national standards of Gy, Sv, Cb/kg for gamma, X and beta radiation in the country.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
998300333	<i>Institut za medicinska istrazivanja i medicinu rada</i>

Short name: Institut za medicinska istrazivanja i medicinu rada

Address

Street	Ksaverska 2
Town	Zagreb
Postcode	10001
Country	Croatia
Webpage	http://www.imi.hr

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Radiation Dosimetry and Radiobiology Unit not applicable

Same as proposing organisation's address

Street Ksaverska 2

Town Zagreb

Postcode 10001

Country Croatia

Links with other participants

Type of link	Participant
Same Group	BUNDESAMT FUER STRAHLENSCHUTZ

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Ivica**

Last name* **PRLIC**

E-Mail* **iprlic@imi.hr**

Position in org. **Head of Radiation Dosimetry and Radiobiology Unit**

Department **Institut za medicinska istrazivanja i medicinu rada**

Same as organisation name

Same as proposing organisation's address

Street **Ksaverska 2**

Town **Zagreb**

Post code **10001**

Country **Croatia**

Website *Please enter website*

Phone **++385914673152**

Phone 2 **++38514682571**

Other contact persons

First Name	Last Name	E-mail	Phone
Luka	PAVELIC	lpavelic@imi.hr	++385997384969
Makso	Herman	mherman@imi.hr	++385989243068

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Ivica	Prlic	Man	Croatia	iprlic@imi.hr	Category B Senior	Leading		Orcid ID
Dr	Luka	Pavelic	Man	Croatia	lpavelic@imi.hr	Category C Recogni	Leading		
Prof	Ana	Lucic Vrdoljak	Woman	Croatia	alucic@imi.hr	Category A Top grade	Team member		
Dr	Irena	Brcic Karaconji	Woman	Croatia	ibrbic@imi.hr	Category A Top grade	Team member		
Prof	Branko	Petrinec	Man	Croatia	petrinec@imi.hr	Category A Top grade	Team member		
Dr	Nevenka	Kopjar	Woman	Croatia	nkopjar@imi.hr	Category A Top grade	Team member		

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Other achievement	<i>A broad list of publications covering the Radiation Protection and Dosimetry Research in Croatia including the research in Radiobiology and Mutagenesis (ISORED) - accredited Radiation Dosimetry and Radioecology laboratories (HRN EN ISO/IEC 17025-2017) (http://www.akreditacija.hr/akreditacija/files/read.php?%20re=16244__akredFile&wr=1288)</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT : 662287 COFUND-EJP	<i>Participant PoM to a CONCERT project resulting in an important reference for the IMROH new research building/facility IMROH_ReC (https://rec.imi.hr/) which will be an important new base research facility for pulsed electromagnetic (X rays) dosimetry instrumentation and medical application (QA/QC in medicine) . An important new harmonization facility for the WP 5.3.2 of the PIANOFORTE</i>
E- School Project:	<i>Development of the System of Digitally Mature Schools . IMROH is a project Partner responsible for the research of "dosimetry" of electromagnetic fields originating from WiFi (6) technologies used in all Croatian schools (more than 1450), a risk research impact on pupils, and teachers (occupationally) (including the SHS SHARE platform) (file:///D:/2021_CARNET%202-full%20projekt%20se%20radi/2021_CUC/e-%C5%A0kole-bro%C5%A1ura-2019-1.pdf) - European Regional Development Fund EU Social Fund.</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
IMROH_ReC	<i>Institute for Medical Research and Occupational Health : new research building and laboratory facility : Research and Educational Centre for Environmental Medicine and Radiation Protection financed through European Regional development Fund (EFRR)</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
998157258	SVEUCILISTE U ZAGREBU RUDARSKO-GEOLOSKO-NAFTNI FAKULTET

Short name: UNIZG-RGNF

Address

Street	PIEROTTIJEVA 6
Town	ZAGREB
Postcode	10000
Country	Croatia
Webpage	www.rgn.hr

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is **not an SME** (small- and medium-sized enterprise) for the call.

SME self-declared status	23/07/1997 - no
SME self-assessment	unknown
SME validation	23/07/1997 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Radiation Dosimetry and Radiobiology Unit not applicable

Same as proposing organisation's address

Street Ksaverska 2

Town Zagreb

Postcode 10001

Country Croatia

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
917950286	AGENCIA PORTUGUESA DO AMBIENTE IP

Short name: AGENCIA PORTUGUESA DO AMBIENTE IP

Address

Street	RUA DA MURGUEIRA 9/9A ZAMBUJAL AP
Town	AMADORA
Postcode	2611 865
Country	Portugal
Webpage	www.apambiente.pt

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no

SME Data

Based on the below details from the Participant Registry the organisation is **no** (small- and medium-sized enterprise) for the call.

SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Department of Emergencies and Radiation Protection not applicable

Same as proposing organisation's address

Street RUA DA MURGUEIRA 9/9A ZAMBUJAL AP

Town AMADORA

Postcode 2611 865

Country Portugal

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title

Gender Woman Man Non Binary

First name* **Joao Oliveira**

Last name* **Martins**

E-Mail* **joao.martins@apambiente.pt**

Position in org. Head of Department

Department Department of Emergencies and Radiation Protection

Same as organisation name

Same as proposing organisation's address

Street RUA DA MURGUEIRA 9/9A ZAMBUJAL AP

Town AMADORA

Post code 2611 865

Country Portugal

Website https://apambiente.pt/

Phone (+351) 214728200

Phone 2 +XXX XXXXXXXXXX

Other contact persons

First Name	Last Name	E-mail	Phone
Maria Fatima	Ramos dos Santos	fatima.santos@apambiente.pt	(+351) 214728200
Paulo	Nunes	paulo.nunes@apambiente.pt	(+351) 214728200

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Mr	João	Martins	Man	Portugal	joao.martins@apambiente.pt	Category C Recognized	Leading		
Dr	Paulo	Nunes	Man	Portugal	paulo.nunes@apambiente.pt	Category C Recognized	Team member	https://orcid.org/0000-0002-2866-842X	Orcid ID
Ms	Paula	Santos	Woman	Portugal	paula.santos@apambiente.pt	Category D First stage	Team member		
Ms	Margarida	Malta	Woman	Portugal	margarida.malta@apambiente.pt	Category D First stage	Team member	https://orcid.org/0000-0001-9394-1894	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Stakeholder involvement through national panels and surveys to address the issues and uncertainties arising in the preparedness and management of the transition phase</i> Radioprotection 2020, 55(HS1), S127–S134 https://doi.org/10.1051/radiopro/2020022
Publication	<i>Towards an improved decision-making process to better cope with uncertainties following a nuclear accident</i> Radioprotection 2020, 55(HS1), S135 - S143 https://doi.org/10.1051/radiopro/2020023
Publication	<i>Overview of the PREPARE WP3: management of contaminated goods in post-accidental situation – Synthesis of European stakeholders' panels</i> Radioprotection 2016, 51(HS2), S83-S91 DOI: 10.1051/radiopro/2016038
Publication	<i>Use of biological dosimetry to confirm radiation exposure: Case study".</i> Radiation Physics and Chemistry 171 (2020): 108683. http://dx.doi.org/10.1016/j.radphyschem.2020.108683 .
Publication	<i>A case study of the use of the european model for inhabited areas for radiological or nuclear emergencies in Portugal"; Paulo MARQUES NUNES, Luis PORTUGAL, Francisco CARDOSO, Márcia FARTO, João OLIVEIRA MARTINS; "International Conference on Urban Risks"ICUR-2016 Proceedings, Lisboa, 2016</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONFIDENCE	<i>Research project as part of the H2020 grant agreement 662287 - CONCERT. The H2020 CONFIDENCE Project aimed to close existing gaps in several areas of emergency management and long-term rehabilitation. It concentrated on the early and transition phases of an emergency, but considered also longer-term decisions made during these phases. The project brings together expertise from all four Radiation Protection Platforms and also from Social Sciences and Humanities.</i>
PREPARE	<i>Innovative integrative tools and platforms to be prepared for radiological emergencies and post-accident response in Europe. The Project reviewed existing operational procedures in dealing with long lasting releases, address the cross border problematic in monitoring and safety of goods and will further develop still missing functionalities in decision support system ranging from improved source term estimation and dispersion modelling to the inclusion of hydrological pathways for EU water bodies</i>
NERIS European Platform	<i>Member and Supporting Organisation. Member of the Mangment Board.</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999992983	INSTITUTO SUPERIOR TECNICO
Short name: IST	
Address	
Street	AVENIDA ROVISCO PAIS 1
Town	LISBOA
Postcode	1049-001
Country	Portugal
Webpage	www.tecnico.ulisboa.pt
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	01/12/1918 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Department of Nuclear Sciences and Engineering not applicable

Same as proposing organisation's address

Street Campus Tecnológico e Nuclear - E.N. 10

Town BOBADELA LRS

Postcode 2695-066

Country Portugal

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Prof.**

Gender Woman Man Non Binary

First name* **Pedro**

Last name* **Vaz**

E-Mail* **pedrovaz@ctn.tecnico.ulisboa.pt**

Position in org. **Coordinator Researcher**

Department **Department of Nuclear Sciences and Engineering**

Same as organisation name

Same as proposing organisation's address

Street **Campus Tecnológico e Nuclear - Estrada Nacional 10 (km 139.7)**

Town **BOBADELA LRS**

Post code **2695-066**

Country **Portugal**

Website **http://www.tecnico.ulisboa.pt**

Phone **+351219946230**

Phone 2 *+XXX XXXXXXXXXX*

Other contact persons

First Name	Last Name	E-mail	Phone
Miguel Costa Andre	de Mendonca Correia	miguel.correia@tecnico.ulisboa.pt	+351218417731

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Prof	Octávia	Monteiro Gil	Woman	Portugal	ogil@ctn.tecnico.ulisboa.pt	Category B Senior	Team member	K-2518-2013	Researcher ID
Prof	Isabel	Paiva	Woman	Portugal	ipaiva@ctn.tecnico.ulisboa.pt	Category B Senior	Team member	K-2770-2013	Researcher ID
Prof	Mário	Reis	Man	Portugal	mcapucho@ctn.tecnico.ulisboa.pt	Category B Senior	Team member	K-2951-2013	Researcher ID
Prof	Pedro	Vaz	Man	Portugal	pedrovaz@ctn.tecnico.ulisboa.pt	Category A Top grade	Leading	K-2464-2013	Researcher ID
Dr	José Alberto	Corisco	Man	Portugal	corisco@ctn.tecnico.ulisboa.pt	Category B Senior	Team member	U-8284-2017	

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Assessment of the uterine dose in digital mammography and digital breast tomosynthesis. Published: Sep 2021 in Radiography. DOI: 10.1016/J.RADI.2021.09.002</i>
Publication	<i>RENEB/EURADOS field exercise 2019: robust dose estimation under outdoor conditions based on the dicentric chromosome assay. Published: Sep 2021 in International Journal of Radiation Biology. DOI: 10.1080/09553002.2021.1941380</i>
Publication	<i>Micronuclei Formation upon Radioiodine Therapy for Well-Differentiated Thyroid Cancer: The Influence of DNA Repair Genes Variants. Published: Sep 2020 in Genes. DOI: 10.3390/GENES11091083</i>
Publication	<i>Towards an improved decision-making process to better cope with uncertainties following a nuclear accident. Published: Jun 2020 in Radioprotection. DOI: 10.1051/RADIOPR/2020023</i>
Publication	<i>Naturally occurring radioactive material and risk assessment of tailings of polymetallic and Ra/U mines from legacy sites. Published: May 2019 in Chemosphere. DOI: 10.1016/J.CHEMOSPHERE.2019.02.057</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>RADONORM project membership</i>	<i>Towards effective radiation protection based on improved scientific evidence and social considerations – focus on Radon and NORM. https://www.radonorm.eu/</i>
<i>CONFIDENCE project membership</i>	<i>COping with uNcertainties For Improved modelling and DEcision making in Nuclear emergenCiEs. https://portal.iket.kit.edu/CONFIDENCE/index.php</i>
<i>Master´s degree Course (MPSR)</i>	<i>Master´s degree Course on Radiation Protection and Safety, unique in Portugal, taught at IST</i>
<i>Membership of the European research platforms</i>	<i>Active participation in the activities of the platforms MELODI, EURADOS, NERIS, Alliance and in the RENEb network.</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999991431	RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU
Short name: RIVM	
Address	
Street	Antonie Van Leeuwenhoeklaan 9
Town	BILTHOVEN
Postcode	3721 MA
Country	Netherlands
Webpage	www.rivm.nl
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	25/03/2010 - yes
SME self-assessment	unknown
SME validation	25/03/2010 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Centrum Veiligheid not applicable

Same as proposing organisation's address

Street Antonie Van Leeuwenhoeklaan 9

Town BILTHOVEN

Postcode 3721 MA

Country Netherlands

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Fieke**

Last name* **Dekkers**

E-Mail* **fieke.dekkers@rivm.nl**

Position in org. **Senior scientist**

Department **RIJKSINSTITUUT VOOR VOLKSGEZONDHEID EN MILIEU**

Same as organisation name

Same as proposing organisation's address

Street **Antonie Van Leeuwenhoeklaan 9**

Town **BILTHOVEN**

Post code **3721 MA**

Country **Netherlands**

Website *Please enter website*

Phone **+XXX XXXXXXXXXX**

Phone 2 **+XXX XXXXXXXXXX**

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Fieke	Dekkers	Woman	Netherlands	fieke.dekkers@rivm.nl	Category B Senior	Leading		
Dr	Lars	Roobol	Man	Netherlands	lars.roobol@rivm.nl	Category B Senior	Leading		

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
<i>Publication</i>	

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>CONCERT</i>	<i>EU project, involved in WP infrastructures</i>
<i>ProCardio</i>	<i>EU project, RIVM was involved in research on effects of ionizing radiation on the cardiovascular system</i>
<i>Melodi</i>	<i>Multidisciplinary European Low Dose Initiative - Fieke Dekkers is Secretary</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999514579	NUCLEAR RESEARCH AND CONSULTANCY GROUP

Short name: NUCLEAR RESEARCH AND CONSULTANCY GROUP

Address

Street	WESTERDUINWEG 3
Town	PETTEN
Postcode	1755 LE
Country	Netherlands
Webpage	www.nrg.eu

Specific Legal Statuses

Legal person	yes
Public body	no
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	24/02/2016 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Consultancy services not applicable

Same as proposing organisation's address

Street WESTERDUINWEG 3

Town PETTEN

Postcode 1755 LE

Country Netherlands

Links with other participants

Type of link	Participant

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement

Short description (Max 500 characters)

--	--

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity

Short description (Max 500 characters)

--	--

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment

Short description (Max 300 characters)

--	--

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
993882080	STRALSAKERHETSMYNDIGHETEN
Short name: SSM	
Address	
Street	SOLNA STRANDVAG 96
Town	STOCKHOLM
Postcode	171 16
Country	Sweden
Webpage	www.stralsakerhetsmyndigheten.se
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	01/07/2008 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name	Research	<input type="checkbox"/> not applicable
	<input checked="" type="checkbox"/> Same as proposing organisation's address	
Street	SOLNA STRANDVAG 96	
Town	STOCKHOLM	
Postcode	171 16	
Country	Sweden	

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Per**

Last name* **Selborg**

E-Mail* **per.seltborg@ssm.se**

Position in org. Research manager

Department STRALSAKERHETSMYNDIGHETEN

Same as organisation name

Same as proposing organisation's address

Street SOLNA STRANDVAG 96

Town STOCKHOLM Post code 171 16

Country Sweden

Website www.ssm.se

Phone +46721811684 Phone 2 +XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Anja	Almen	Woman	Sweden	Anja.Almen@ssm.se	Category B Senior	Team member	0000-0003-0792-1294	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management

Communication, dissemination and engagement

Provision of research and technology infrastructure

Co-definition of research and market needs

Civil society representative

Policy maker or regulator, incl. standardisation body

Research performer

Technology developer

Testing/validation of approaches and ideas

Prototyping and demonstration

IPR management incl. technology transfer

Public procurer of results

Private buyer of results

Finance provider (public or private)

Education and training

Contributions from the social sciences or/and the humanities

Other
If yes, please specify: (Maximum number of characters allowed: 50)

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
<i>Other achievement</i>	<i>The Swedish Radiation Safety Authority imposes requirements on licensees and other parties that conduct activities involving radiation.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>EU project CONCERT</i>	<i>CONCERT was an EJP that coordinated European radiation research and funded research projects via open calls.</i>
<i>EU project RADONORM</i>	<i>RADONORM is a RIA that deals with developing protection measures against radon and NORM</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>Research funding</i>	<i>SSM is the Swedish research funder in the fields of radiation protection and nuclear safety</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999871830	LATVIJAS UNIVERSITATE
Short name: LU	
Address	
Street	RAINIS BOULEVARD 19
Town	RIGA
Postcode	1586
Country	Latvia
Webpage	http://www.lu.lv
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	yes
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	06/03/2009 - no
SME self-assessment	unknown
SME validation	06/03/2009 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name	Department of Health	<input type="checkbox"/> not applicable
	<input checked="" type="checkbox"/> Same as proposing organisation's address	
Street	RAINIS BOULEVARD 19	
Town	RIGA	
Postcode	1586	
Country	Latvia	

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Elina**

Last name* **Pajuste**

E-Mail* **elina.pajuste@lu.lv**

Position in org. professor Associate

Department LATVIJAS UNIVERSITATE

Same as organisation name

Same as proposing organisation's address

Street RAINIS BOULEVARD 19

Town RIGA

Post code 1586

Country Latvia

Website www.lu.lv

Phone +371 6703393

Phone 2 +371 29560513

Other contact persons

First Name	Last Name	E-mail	Phone
Maija	Bundule	maija.bundule@viaa.gov.lv	+371 26514481

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Prof	Elina	Pajuste	Woman	Latvia	elina.pajuste@lu.lv	Category B Senior	Leading	0000-0003-1036-4679	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input checked="" type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	<i>Modelling Glow Curves of Thermoluminescent Radiometric Devices / C. Ionescu, E. Pajuste, J. Prikulis, M. Dima, S. Sokovnin, P. Krug. References: p.218 // 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME 2017); Constanta, Romania, 26-29 October, 2017 : Proceedings IEEE, 2017 P.217-218 Statistical Methods for Determining Components Non-linearity, from Thermoluminescent Devices / E. Pajuste, J. Prikulis, M. Dima, D. D. Rus, S. Sokovnin, P. Krug, C. Ionescu //</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT	<i>European Concerted Program on Radiation Protection Research – CONCERT. Radiation protection research, including the safe use of ionizing radiation in medicine and industry, and incident response, integration of radiation protection research, development of joint strategy for the development of EU radiation protection research</i>
PRISMAP	<i>The European medical isotope programme: Production of high purity isotopes by mass separation (PRISMAP) proposes to federate a consortium of the key European intense neutron sources, isotope mass separation facilities and high-power accelerators and cyclotrons, with leading biomedical research institutes and hospitals active in the translation of the emerging radionuclides into medical diagnosis and treatment</i>
NANORADDOS	<i>Nano-structured, radiation sensitive materials for nuclear-medical and border protection applications. Development of new nanostructured materials for use in ionizing radiation dosimetry for nuclear medicine and border protection applications</i>
BRILLIANT	<i>Promoting cooperation, research and infrastructure in the Baltic Sea Region to maximize the macroeconomic impact of European new reactor construction programs on the economies of the region, as well as to investigate the nuclear fuel cycle and nuclear power systems in small countries</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
Radiation and radiochemistry laboratory	<i>Possibilities to study radiation- matter interactions and perform radiochemical studies</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999992789	ISTITUTO NAZIONALE DI FISICA NUCLEARE
Short name: INFN	
Address	
Street	Via Enrico Fermi 54
Town	FRASCATI
Postcode	00044
Country	Italy
Webpage	www.infn.it
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	25/05/2016 - no
SME self-assessment	unknown
SME validation	19/09/2008 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Department of physics not applicable

Same as proposing organisation's address

Street Via Enrico Fermi 54

Town FRASCATI

Postcode 00044

Country Italy

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Prof.

Gender Woman Man Non Binary

First name* **Giacomo**

Last name* **Cuttone**

E-Mail* **cuttone@lns.infn.it**

Position in org. Research Director

Department ISTITUTO NAZIONALE DI FISICA NUCLEARE

Same as organisation name

Same as proposing organisation's address

Street Via Enrico Fermi 54

Town FRASCATI Post code 00044

Country Italy

Website *Please enter website*

Phone +39 095542387 Phone 2 +39 32983122280

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Valerio	Vercesi	Man	Italy	vercesi@pv.infn.it	Category A Top grade	Team member	1	Researcher ID
Dr	Giuseppe	Cirrone	Man	Italy	cirrone@Ins.infn.it	Category B Senior	Team member	2	Researcher ID
Dr	Gaia	Pupillo	Woman	Italy	pupillo@Inl.infn.it	Category B Senior	Team member	3	Researcher ID
Dr	Alessandra	Retico	Woman	Italy	retico@pi.infn.it	Category A Top grade	Team member	4	Researcher ID
Dr	Luciano	Pandola	Man	Italy	pandola@Ins.infn.it	Category B Senior	Team member	5	Researcher ID

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input checked="" type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input checked="" type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
973338256	NATSIONALEN TSENTAR PO RADIOBIOLOGIYA I RADIATIONNA ZASHTITA

Short name: NATIONAL CENTRE OF RADIOBIOLOGY AND RADIATION

Address

Street	ST GEORGY SOFIISKY 3
Town	SOFIA
Postcode	1606
Country	Bulgaria
Webpage	www.ncrrp.org

Specific Legal Statuses

Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes

SME Data

Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.

SME self-declared status	07/10/1991 - no
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Science and Education and Radiation Protection department not applicable

Same as proposing organisation's address

Street ST GEORGY SOFIISKY 3

Town SOFIA

Postcode 1606

Country Bulgaria

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Prof.

Gender Woman Man Non Binary

First name* **Nina**

Last name* **Chobanova**

E-Mail* **n.chobanova@ncrrp.org**

Position in org. Head of department

Department Science and Education and Radiation Protection department

Same as organisation name

Same as proposing organisation's address

Street ST GEORGY SOFIISKY 3

Town SOFIA Post code 1606

Country Bulgaria

Website www.ncrrp@ncrrp.org

Phone +XXX XXXXXXXXXX Phone 2 +XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Prof	Nina	Chobanova	Woman	Bulgaria	n.chobanova@ncrrp.org	Category A Top grade	Leading	0000-0002-8064-1806	Orcid ID
Prof	Jana	Djounova	Woman	Bulgaria	jdjounova@ncrrp.org	Category A Top grade	Leading	-	Researcher ID
Prof	Kremena	Ivanova	Woman	Bulgaria	k.ivanova@ncrrp.org	Category A Top grade	Leading	0000-0003-0731-4259	Orcid ID

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
Publication	- <i>Population Radon Exposure in Buildings with Public Assess, Journal of Balkan Ecology, v. 23 (3), 2020, 291-298.</i>
Publication	- <i>Analysis of the spatial variation of indoor radon concentrations (national survey in Bulgaria) Environmental Science and Pollution Research, March 2019, Volume 26, Issue 7, pp 6971–6979</i>
Publication	- <i>Radon risk communication. General Medicine, 22, 6, 2020, 27-32.</i>
Publication	- <i>Bronchus and lung cancer incidence in population living around the former uranium mining and milling sites Rad. Prot. Dosimetry 2018, v.181, 1, 52-55.</i>
Publication	- <i>Measurement of Gamma dose rate in Hospitals for rehabilitation in Bulgaria Cotemporary materials XII-1 2021.</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
CONCERT - The "CONCERT-European Joint Programme	1. 1. <i>CONCERT - CONCERT is a co-fund action that aims at attracting and pooling national research efforts with European ones in order to make better use of public R&D resources and to tackle common European challenges in radiation protection more effectively by joint research efforts in key areas. NCRRP participate in WP Education and Training. NCRRP participate with organizes 5 courses on "Emergency and recovery preparedness, and response".</i>
National Research Fund	<i>STABLISHMENT A RISK ASSESSMENT MODELS FROM RADON IN BUILDINGS WITH PUBLIC ACCESS FOR THE LONG-TERM SOCIAL IMPLICATIONS - project funded by a - Acquiring new knowledge about the basic principles of radon spatial variation on the Bulgarian territory in buildings with public access in order to establishment models for health risk assessment for control of the indoor radon concentration, improvement the air quality and reducing the impact of radon on the public health.</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
	<i>Laboratory "Existing radiation and radiation expertise" – Spectrophotometer ZUZI, Model 4201/20 Multifunction radiometer RDS-110 (3/09 / OK) CONTAMAT FHT 11M Dosimeter Canberra InSpector 1000 The RADIAGEM portable device Radon volumetric activity measurement systems: Science and</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
994194032	Úrad verejného zdravotníctva SR

Short name: Úrad verejného zdravotníctva SR

Address

Street Trnavská cesta 52
Town Bratislava
Postcode 82645
Country Slovakia

Webpage

Specific Legal Statuses

Legal person yes
Public body yes
Non-profit unknown
International organisation unknown
Secondary or Higher education establishment unknown
Research organisation unknown

SME Data

Based on the below details from the Participant Registry the organisation is **unknown** (small- and medium-sized enterprise) for the call.

SME self-declared status unknown
SME self-assessment unknown
SME validation unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Radiation Protection Department not applicable

Same as proposing organisation's address

Street Trnavska cesta 52 - P O BOX

Town Bratislava

Postcode 82645

Country Slovakia

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title Dr

Gender Woman Man Non Binary

First name* **Veronika**

Last name* **DRABOVA**

E-Mail* **veronika.drabova@uvzsr.sk**

Position in org. Head

Department Radiation Protection Department

Same as organisation name

Same as proposing organisation's address

Street Trnavska cesta 52 - P O BOX

Town Bratislava Post code 82645

Country Slovakia

Website https://www.uvzsr.sk/index.php?option=com_content&view=article&id

Phone +421903618576 Phone 2 +XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier
Dr	Karol	Bohm	Man	Slovakia	karol.bohm@uvzsr.sk	Category A Top grade	Team member		

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input checked="" type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input checked="" type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
- RER 9153	<i>Enhancing the Regional Capacity to Control Long Term Risks to the Public due to Radon in Dwellings and Workplaces</i>
- RER 9155	<i>Enhancing Regulatory and Metrological Infrastructures Needed to Ensure Radiation Safety in Naturally Occuring Radioactive Materials Industry</i>
- RER 9156	<i>Establishing Education and Training Infrastructure in Radiation Protection</i>
- RER 7014	<i>Improving Enviromental Monitoring and Assessment for Radiation Protection in the Region</i>
- RER 1021	<i>Enhancing the Use of Radiation Technologies in Industry and Environment</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>PHA SR equipment includes inter alia</i>	- <i>Quantulus GCT 6220 liquid scintillation counter</i>
	- <i>Multi Low Level Counter FHT 770 T</i>
	- <i>The Alpha Analyst system for alpha nuclide determination</i>
	- <i>Gamma spectrometry system (HPGe detector GC, HPGe detector BE)</i>
	- <i>TLD reader Harshaw 4500 for measurement of integrated dose</i>
	- <i>stationary high volume air sampling system</i>
	- <i>external dose rate meter for dose/dose rate measurement.</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes

No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
894763406	Ministero dell'università e della ricerca
Short name: MUR	
Address	
Street	Via Michele Carcani 61
Town	Roma
Postcode	00153
Country	Italy
Webpage	https://www.miur.gov.it/
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	no
SME Data	
Based on the below details from the Participant Registry the organisation is no (small- and medium-sized enterprise) for the call.	
SME self-declared status	unknown
SME self-assessment	unknown
SME validation	unknown

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Directorate General for Internationalization and Communication not applicable

Same as proposing organisation's address

Street Via Michele Carcani 61

Town Roma

Postcode 00153

Country Italy

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Dr**

Gender Woman Man Non Binary

First name* **Aldo**

Last name* **Covello**

E-Mail* **aldo.covello@mur.gov.it**

Position in org. **Programme Officer**

Department **Directorate General for Internationalization and Communication**

Same as organisation name

Same as proposing organisation's address

Street **Via Michele Carcani 61**

Town **Roma** Post code **00153**

Country **Italy**

Website *Please enter website*

Phone **+390697726465** Phone 2 *+XXX XXXXXXXXXX*

Other contact persons

First Name	Last Name	E-mail	Phone
Aldo	Covello	aldo.covello@miur.it	+XXX XXXXXXXXXX

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management	<input checked="" type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input type="checkbox"/>
Co-definition of research and market needs	<input checked="" type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input checked="" type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input checked="" type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>ECSEL</i>	<i>Joint Undertaking based on Art 187 TFUE, supporting R&S on microelectronics components and systems</i>
<i>PRIMA</i>	<i>Programme based on Art. 185 TFUE, supporting R&S on Food systems and water management in the Mediterranean area</i>
<i>JPCOFUND 2</i>	<i>Eranet Cofund on Neurodegenerative diseases</i>
<i>EuronanoMed III</i>	<i>Eranet Cofund of Nanomedicine</i>
<i>EJP Rare Disease</i>	<i>European Joint Programme on Rare diseases</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
- **Training:** Awareness raising/trainings on gender equality and unconscious gender biases for staff and decision-makers.
- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

PIC	Legal name
999533882	ENVIRONMENTAL PROTECTION AGENCY OF IRELAND
Short name: EPA	
Address	
Street	JOHNSTOWN CASTLE ESTATE
Town	WEXFORD
Postcode	-
Country	Ireland
Webpage	www.epa.ie
Specific Legal Statuses	
Legal person	yes
Public body	yes
Non-profit	yes
International organisation	no
Secondary or Higher education establishment	no
Research organisation	yes
SME Data	
Based on the below details from the Participant Registry the organisation is not an SME (small- and medium-sized enterprise) for the call.	
SME self-declared status	01/01/1992 - no
SME self-assessment	unknown
SME validation	01/01/1992 - no

Administrative forms

Departments carrying out the proposed work

Department 1

Department name Environmental Protection Agency not applicable

Same as proposing organisation's address

Street JOHNSTOWN CASTLE ESTATE

Town WEXFORD

Postcode -

Country Ireland

Links with other participants

Type of link	Participant

Administrative forms

Main contact person

This will be the person the EU services will contact concerning this proposal (e.g. for additional information, invitation to hearings, sending of evaluation results, convocation to start grant preparation). The data in blue is read-only. Details (name, first name and e-mail) of Main Contact persons should be edited in the step "Participants" of the submission wizard.

Title **Ms**

Gender Woman Man Non Binary

First name* **Lorraine**

Last name* **Cullivan**

E-Mail* **I.currivan@epa.ie**

Position in org. **Regional Laboratory Manager, Dublin Environmental Laboratory**

Department **Environmental Protection Agency**

Same as organisation name

Same as proposing organisation's address

Street **JOHNSTOWN CASTLE ESTATE**

Town **WEXFORD** Post code **-**

Country **Ireland**

Website **www.epa.ie**

Phone **00353 2697766** Phone 2 **+XXX XXXXXXXXXX**

Administrative forms

Researchers involved in the proposal

Title	First Name	Last Name	Gender	Nationality	E-mail	Career Stage	Role of researcher (in the project)	Reference Identifier	Type of identifier

Administrative forms

Role of participating organisation in the project

Project management	<input type="checkbox"/>
Communication, dissemination and engagement	<input checked="" type="checkbox"/>
Provision of research and technology infrastructure	<input checked="" type="checkbox"/>
Co-definition of research and market needs	<input type="checkbox"/>
Civil society representative	<input type="checkbox"/>
Policy maker or regulator, incl. standardisation body	<input type="checkbox"/>
Research performer	<input type="checkbox"/>
Technology developer	<input type="checkbox"/>
Testing/validation of approaches and ideas	<input type="checkbox"/>
Prototyping and demonstration	<input type="checkbox"/>
IPR management incl. technology transfer	<input type="checkbox"/>
Public procurer of results	<input checked="" type="checkbox"/>
Private buyer of results	<input type="checkbox"/>
Finance provider (public or private)	<input type="checkbox"/>
Education and training	<input type="checkbox"/>
Contributions from the social sciences or/and the humanities	<input type="checkbox"/>
Other If yes, please specify: (Maximum number of characters allowed: 50)	<input type="checkbox"/>

Administrative forms

List of up to 5 publications, widely-used datasets, software, goods, services, or any other achievements relevant to the call content.

Type of achievement	Short description (Max 500 characters)
<i>Publication</i>	<i>CONFIDENCE, VERIDIC and PODIUM outcomes from CONCERT project . Participation by Irish researchers</i>

List of up to 5 most relevant previous projects or activities, connected to the subject of this proposal.

Name of Project or Activity	Short description (Max 500 characters)
<i>CONCERT</i>	<i>EPA was POM Ireland for CONCERT . Assisted Irish researchers join this activity</i>
<i>RP platforms</i>	<i>EPA staff are active members of NERIS, ALLIANCE, EURADOS. Irish researchers involved with MELODI</i>

Description of any significant infrastructure and/or any major items of technical equipment, relevant to the proposed work.

Name of infrastructure of equipment	Short description (Max 300 characters)
<i>Radiation Protection Agency</i>	<i>Radiation Monitoring laboratory at EPA. Gamma, beta and alpha spectrometry, radiochemistry & some ICP-MS capability Collaboration with Irish third levels institutions and hospitals Links to Irish Radiation Research Society , IRRS</i>

Gender Equality Plan

Does the organization have a Gender Equality Plan (GEP) covering the elements listed below?

Yes No

Minimum process-related requirements (building blocks) for a GEP

- **Publication:** formal document published on the institution's website and signed by the top management
- **Dedicated resources:** commitment of human resources and gender expertise to implement it.
- **Data collection and monitoring:** sex/gender disaggregated data on personnel (and students for establishments concerned) and annual reporting based on indicators.
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- **Content-wise, recommended areas to be covered** and addressed via concrete measures and targets are:
 - o work-life balance and organisational culture;
 - o gender balance in leadership and decision-making;
 - o gender equality in recruitment and career progression;
 - o integration of the gender dimension into research and teaching content;
 - o measures against gender-based violence including sexual harassment.

Administrative forms

Proposal ID **101061037**

Acronym **PIANOFORTE**

3 - Budget

?

No.	Name of beneficiary	Country	Role	Personnel costs/€	Subcontracting costs/€	Purchase costs - Travel and subsistence /€	Purchase costs - Equipment/€	Purchase costs - Other goods, works and services/€	Financial support to third parties/ € (actual cost)	Internally invoiced goods and services/€ (Unit costs-usual accounting practices)	Euratom Cofund staff mobility costs	Indirect costs/€	Total eligible costs	Funding rate	Maximum EU contribution to eligible costs	Requested EU contribution to eligible costs/€	Max grant amount	Income generated by the action	Financial contributions	Own resources	Total estimated income	
1	Institut De Radioprotection Et De Surete Nucleaire	FR	Coordinator	1,460,250		16,000		1,283,000	34,815,815			689812.50	38264877.50	65	24872170.00	24,872,170	24872170.00				13,392,711	38264881.00
2	Centre D'etude Sur L'evaluation De La Protection Dans Le Domaine Nucleaire	FR	Affiliated	43,420		2,000						11355.00	56775.00	65	36904.00	36,904	36904.00				19,871	56775.00
3	Bundesamt Fuer Strahlenschutz	DE	Partner	986,917	520,000	29,000		173,000				297229.25	2006146.25	65	1303995.00	1,303,995	1303995.00				702,151	2006146.00
4	Stockholms Universitet	SE	Partner	271,700		9,000						70175.00	350875.00	65	228069.00	228,069	228069.00				122,806	350875.00
5	Kommunalforbundet Avancerad Stralbehandling	SE	Affiliated	22,400		2,000						6100.00	30500.00	65	19825.00	19,825	19825.00				10,675	30500.00
6	Department Of Health	UK	Partner	229,500		8,000						59375.00	296875.00	65	192969.00	192,969	192969.00				103,906	296875.00
7	The Chancellor Masters And Scholars Of	UK	Affiliated	18,600		1,000						4900.00	24500.00	65	15925.00	15,925	15925.00				8,575	24500.00

Administrative forms

Proposal ID 101061037

Acronym PIANOFORTE

	The University Of Cambridge																				
8	The University Of Exeter	UK	Affiliated	40,950		5,000						11487.50	57437.50	65	37334.00	37,334	37334.00			20,103	57437.00
9	Association Melodi	FR	Partner			26,000						6500.00	32500.00	65	21125.00	21,125	21125.00			11,375	32500.00
10	Studiecentrum Voor Kernenergie / Centre D'etude De L'energie Nucleaire	BE	Partner	791,250		32,000		6,500				207437.50	1037187.50	65	674172.00	674,172	674172.00			363,015	1037187.00
11	Katholieke Universiteit Leuven	BE	Affiliated	15,000		2,000						4250.00	21250.00	65	13813.00	13,813	13813.00			7,438	21251.00
12	European Radiation Dosimetry Group	DE	Partner			26,000						6500.00	32500.00	65	21125.00	21,125	21125.00			11,375	32500.00
13	Statni Ustav Radiacni Ochrany V.v.i.	CZ	Partner	163,750	50,000	5,000		2,500				42812.50	264062.50	65	171641.00	171,640	171640.00			92,422	264062.00
14	Association De La Plateforme Europeenne Neris	FR	Partner			26,000						6500.00	32500.00	65	21125.00	21,125	21125.00			11,375	32500.00
15	Association Alliance Europeenne Enradioecologie	FR	Partner			26,000						6500.00	32500.00	65	21125.00	21,125	21125.00			11,375	32500.00
16	European Platform For Social Sciences And Humanities Research Relating To Ionizing Radiation	BE	Partner									0.00	0.00	65	0.00	0	0.00				0.00
17	European Alliance For Medical Radiation Protection Research (Euramed)europaische	AT	Partner			26,000						6500.00	32500.00	65	21125.00	21,125	21125.00			11,375	32500.00

Administrative forms

Proposal ID **101061037**

Acronym **PIANOFORTE**

	Allianz Fur Strahlenschutz -forschung Im Medizin																		
18	Otto-von-guericke-universitaet Magdeburg	DE	Affiliated	69,600	2,000					17900.00	89500.00	65	58175.00	58,175	58175.00			31,325	89500.00
19	Institutul De Fizica Atomica	RO	Partner	7,250	6,000					3312.50	16562.50	65	10766.00	10,765	10765.00			5,797	16562.00
20	Nemzeti Nepegeszsegu gyi Kozpont	HU	Partner	63,148	13,000	6,000				20537.00	102685.00	65	66745.00	66,745	66745.00			35,940	102685.00
21	Tartu Ulikool	EE	Partner	180,000	14,000	10,000				51000.00	255000.00	65	165750.00	165,750	165750.00			89,250	255000.00
22	Główny Instytut Gornictwa	PL	Partner	20,313	13,000					8328.25	41641.25	65	27067.00	27,067	27067.00			14,574	41641.00
23	The Henryk Niewodniczan ski Institute Of Nuclear Physics, Polish Academy Of Sciences	PL	Affiliated	19,800	2,000					5450.00	27250.00	65	17713.00	17,713	17713.00			9,537	27250.00
24	National Center For Scientific Research "Demokritos"	EL	Partner	80,000	8,000	14,000				25500.00	127500.00	65	82875.00	82,875	82875.00			44,625	127500.00
25	Ita-suomen Yliopisto	FI	Partner	9,724	3,000					3181.00	15905.00	65	10338.00	10,338	10338.00			5,567	15905.00
26	Sateilyturvake skus	FI	Affiliated	71,840	3,000	6,000				20210.00	101050.00	65	65683.00	65,683	65683.00			35,367	101050.00
27	Centro De Investigacione s Energeticas, Medioambient ales Y Tecnologicas-ciemat	ES	Partner	123,750	20,000					35937.50	179687.50	65	116797.00	116,797	116797.00			62,891	179688.00
28	Merience Scp	ES	Affiliated	4,650	4,000					2162.50	10812.50	65	7028.00	7,028	7028.00			3,784	10812.00

Administrative forms

Proposal ID **101061037**

Acronym **PIANOFORTE**

29	Narodowe Centrum Badan I Rozwoju	PL	Partner	210,000	10,000	27,000		154,500				97875.00	499375.00	65	324594.00	324,594	324594.00			174,781	499375.00
30	Istituto Superiore Di Sanita	IT	Partner	118,925		11,000		10,000				34981.25	174906.25	65	113689.00	113,689	113689.00			61,217	174906.00
31	Energiatudom anyi Kutatokozpont	HU	Partner	168,000		14,000						45500.00	227500.00	65	147875.00	147,875	147875.00			79,625	227500.00
32	Institut Jozef Stefan	SI	Partner	60,410		10,000						17602.50	88012.50	65	57208.00	57,208	57208.00			30,804	88012.00
33	Elektroinstitut Milan Vidmar	SI	Affiliated	13,250		11,000						6062.50	30312.50	65	19703.00	19,703	19703.00			10,610	30313.00
34	Direktoratet For Stralevern Og Atomsikkerhet	NO	Partner	130,000		19,000						37250.00	186250.00	65	121063.00	0	0.00			186,250	186250.00
35	Norges Miljo-og Biovitenskaplige Universitet	NO	Affiliated	124,600		6,000						32650.00	163250.00	65	106113.00	0	0.00			163,250	163250.00
36	Radiation Protection Division Of The Federal Office Of Public Health	CH	Partner	12,000		3,000						3750.00	18750.00	65	12188.00	0	0.00			18,750	18750.00
37	Commissariat A L Energie Atomique Et Aux Energies Alternatives	FR	Partner	183,890		11,000		30,000				56222.50	281112.50	65	182723.00	182,723	182723.00			98,390	281113.00
38	Universite De Caen Normandie	FR	Affiliated	28,500		4,000						8125.00	40625.00	65	26406.00	26,406	26406.00			14,219	40625.00
39	Institut National De La Sante Et De La Recherche Medicale	FR	Affiliated	26,250		3,000						7312.50	36562.50	65	23766.00	23,766	23766.00			12,797	36563.00
40	Centre National De La Recherche Scientifique Cnrs	FR	Affiliated	15,000								3750.00	18750.00	65	12188.00	12,188	12188.00			6,562	18750.00
	Agenzia Nazionale Per Le Nuove												46725.00		30371.00		30371.00				46725.00

Administrative forms

Proposal ID **101061037**

Acronym **PIANOFORTE**

41	Tecnologie, L'energia E Lo Sviluppo Economico Sostenibile	IT	Partner	32,380	5,000					9345.00		65	30,371				16,354	
42	Universita Degli Studi Di Pavia	IT	Affiliated	12,955	9,000					5488.75	27443.75	65	17838.00	17,838	17838.00		9,605	27443.00
43	Forsvaret Og Forsvarsministeriets Styrelser	DK	Partner	7,900	3,000					2725.00	13625.00	65	8856.00	8,856	8856.00		4,769	13625.00
44	Helmholtz-zentrum Dresden-rossendorf Ev	DE	Partner	11,571	5,000					4142.75	20713.75	65	13464.00	13,464	13464.00		7,250	20714.00
45	Elliniki Epitropi Atomikis Energeias	EL	Partner	4,000	7,000					2750.00	13750.00	65	8938.00	8,938	8938.00		4,812	13750.00
46	Institut Za Medicinska Istrazivanja I Medicinu Rada	HR	Partner	36,750	8,000					11187.50	55937.50	65	36359.00	36,359	36359.00		19,578	55937.00
47	Sveuciliste U Zagrebu Rudarsko-geolosko-naftni Fakultet	HR	Affiliated	1,550	2,000					887.50	4437.50	65	2884.00	2,884	2884.00		1,553	4437.00
48	Agencia Portuguesa Do Ambiente Ip	PT	Partner	4,520	3,000					1880.00	9400.00	65	6110.00	6,110	6110.00		3,290	9400.00
49	Instituto Superior Tecnico	PT	Partner	28,800	15,000					10950.00	54750.00	65	35588.00	35,588	35588.00		19,162	54750.00
50	Rijksinstituut Voor Volksgezondheid En Milieu	NL	Partner	99,000	5,000	25,000				32250.00	161250.00	65	104813.00	104,813	104813.00		56,437	161250.00
51	Nuclear Research And Consultancy Group	NL	Affiliated	6,250	2,000					2062.50	10312.50	65	6703.00	6,703	6703.00		3,609	10312.00
52	Stralsakerhets myndigheten	SE	Partner	55,125	9,000					16031.25	80156.25	65	52102.00	52,102	52102.00		28,054	80156.00
53	Latvijas Universitate	LV	Partner	31,500	7,000	30,000				17125.00	85625.00	65	55656.00	55,656	55656.00		29,969	85625.00
54	Istituto Nazionale Di Fisica Nucleare	IT	Partner	31,200	6,000					9300.00	46500.00	65	30225.00	30,225	30225.00		16,275	46500.00

Administrative forms

Proposal ID **101061037**

Acronym **PIANOFORTE**

55	Natsionalen Tsentar Po Radiobiologiy a l Radiatsionna Zashtita	BG	Partner	6,760	8,000							3690.00	18450.00	65	11993.00	11,993	11993.00			6,457	18450.00
56	ÚRad Verejného Zdravotníctva Sr	SK	Partner	2,500	3,000							1375.00	6875.00	65	4469.00	4,469	4469.00			2,406	6875.00
57	Ministero Dell'università E Della Ricerca	IT	Partner	9,450	3,000							3112.50	15562.50	65	10116.00	10,116	10116.00			5,446	15562.00
58	Environmental Protection Agency Of Ireland	IE	Partner	15,000	3,000							4500.00	22500.00	65	14625.00	14,625	14625.00			7,875	22500.00
TOTAL				6,181,848	580,000	551,000	0	1,750,500	34,815,815	0	0	2120837.00	46000000.00		29900005.00	29,660,639	29660639.00	0	0	16,339,361	46000000.00

Administrative forms

Proposal ID 101061037

Acronym PIANOFORTE

4 - Ethics & security

Ethics Issues Table

1. Human Embryonic Stem Cells and Human Embryos		Page
Does this activity involve Human Embryonic Stem Cells (hESCs)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does this activity involve the use of human embryos?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
2. Humans		Page
Does this activity involve human participants?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does this activity involve interventions (physical also including imaging technology, behavioural treatments, etc.) on the study participants?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does this activity involve conducting a clinical study as defined by the Clinical Trial Regulation (EU 536/2014) ? (using pharmaceuticals, biologicals, radiopharmaceuticals, or advanced therapy medicinal products)	<input type="radio"/> Yes <input checked="" type="radio"/> No	
3. Human Cells / Tissues (not covered by section 1)		Page
Does this activity involve the use of human cells or tissues?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
4. Personal Data		Page
Does this activity involve processing of personal data?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does this activity involve further processing of previously collected personal data (including use of preexisting data sets or sources, merging existing data sets)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is it planned to export personal data from the EU to non-EU countries? Specify the type of personal data and countries involved	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is it planned to import personal data from non-EU countries into the EU or from a non-EU country to another non-EU country? Specify the type of personal data and countries involved	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does this activity involve the processing of personal data related to criminal convictions or offences?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
5. Animals		Page
Does this activity involve animals?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
6. Non-EU Countries		Page
Will some of the activities be carried out in non-EU countries?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
In case non-EU countries are involved, do the activities undertaken in these countries raise potential ethics issues?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
It is planned to use local resources (e.g. animal and/or human tissue samples, genetic material, live animals, human remains, materials of historical value, endangered fauna or flora samples, etc.)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is it planned to import any material (other than data) from non-EU countries into the EU or from a non-EU country to another non-EU country? For data imports, see section 4.	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Is it planned to export any material (other than data) from the EU to non-EU countries? For data exports, see section 4.	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does this activity involve low and/or lower middle income countries , (if yes, detail the benefit-sharing actions planned in the self-assessment)	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Could the situation in the country put the individuals taking part in the activity at risk?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
7. Environment, Health and Safety		Page

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Does this activity involve the use of substances or processes that may cause harm to the environment, to animals or plants.(during the implementation of the activity or further to the use of the results, as a possible impact) ? Yes No

Does this activity deal with endangered fauna and/or flora / protected areas? Yes No

Does this activity involve the use of substances or processes that may cause harm to humans, including those performing the activity.(during the implementation of the activity or further to the use of the results, as a possible impact) ? Yes No

8. Artificial Intelligence

Page

Does this activity involve the development, deployment and/or use of Artificial Intelligence? (if yes, detail in the self-assessment whether that could raise ethical concerns related to human rights and values and detail how this will be addressed). Yes No

9. Other Ethics Issues

Page

Are there any other ethics issues that should be taken into consideration? Yes No

I confirm that I have taken into account all ethics issues above and that, if any ethics issues apply, I will complete the ethics self-assessment as described in the guidelines [How to Complete your Ethics Self-Assessment](#)



Administrative forms

Proposal ID **101061037**

Acronym **PIANOFORTE**

Ethics Self-Assessment

Ethical dimension of the objectives, methodology and likely impact

Explain in detail the identified issues in relation to:

- objectives of the activities (e.g. study of vulnerable populations, etc.)
- methodology (e.g. clinical trials, involvement of children, protection of personal data, etc.)
- the potential impact of the activities (e.g. environmental damage, stigmatisation of particular social groups,

political or financial adverse consequences, misuse, etc.)

Remaining characters

4594

Compliance with ethical principles and relevant legislations

Describe how the issue(s) identified in the ethics issues table above will be addressed in order to adhere to the ethical principles and what will be done to ensure that the activities are compliant with the EU/national legal and ethical requirements of the country or countries where the tasks are to be carried out. It is reminded that for activities performed in a non-EU countries, they should also be allowed in at least one EU Member State.

Remaining characters

5000

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Security issues table

1. EU Classified Information (EUCI) ²		Page
Does this activity involve information and/or materials requiring protection against unauthorised disclosure (EUCI)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Does this activity involve non-EU countries?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
2. Misuse		Page
Does this activity have the potential for misuse of results?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
3. Other Security Issues		Page
Does this activity involve information and/or materials subject to national security restrictions? If yes, please specify: (Maximum number of characters allowed: 1000)	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Are there any other security issues that should be taken into consideration? If yes, please specify: (Maximum number of characters allowed: 1000)	<input type="radio"/> Yes <input checked="" type="radio"/> No	

²According to the Commission Decision (EU, Euratom) 2015/444 of 13 March 2015 on the security rules for protecting EU classified information, "European Union classified information (EUCI) means any information or material designated by an EU security classification, the unauthorised disclosure of which could cause varying degrees of prejudice to the interests of the European Union or of one or more of the Member States".

³Classified background information is information that is already classified by a country and/or international organisation and/or the EU and is going to be used by the project. In this case, the project must have in advance the authorisation from the originator of the classified information, which is the entity (EU institution, EU Member State, third state or international organisation) under whose authority the classified information has been generated.

⁴EU classified foreground information is information (documents/deliverables/materials) planned to be generated by the project and that needs to be protected from unauthorised disclosure. The originator of the EUCI generated by the project is the European Commission.

Administrative forms

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Acronym **PIANOFORTE**

5 - Other questions

Two-stage calls

The full stage-2 proposal must be consistent with the short outline proposal submitted the to stage 1 - in particular with respect to the proposal characteristics addressing the concepts of excellence and impact

Are there substantial differences compared to the stage-1 proposal? Yes No

Essential information to be provided for proposals including clinical Trials / studies / investigations

Clinical study means, for the purpose of this document, any systematic prospective or retrospective collection and analysis of health data obtained from individual patients or healthy persons in order to address scientific questions related to the understanding, prevention, diagnosis, monitoring or treatment of a disease, mental illness, or physical condition. It includes but it is not limited to clinical studies as defined by [Regulation 536/2014](#) (on medicinal products), clinical investigation and clinical evaluation as defined by [Regulation 2017/745](#) (on medical devices), performance study and performance evaluation as defined by [Regulation 2017/746](#) (on in vitro diagnostic medical devices).

Are clinical studies / trials / investigations included in the work plan of this project? Yes No



EURATOM PROGRAMME

**Partnership for European research in radiation
protection and detection of ionising radiation**

PIANOFORTE

Project proposal – Technical description (PART B)

6 Octobre 2021

Partnership for European research in radiation protection and detection of ionising radiation: towards a safer use and improved protection of the environment and human health -- PIANOFORTE

List of participants

Participant N° (as numbered in the EC portal)*	Organisation name	Status	Country
1	IRSN	PM	FR
10	SCK CEN	PM	BE
11	KU Leuven	AE to SCK CEN	BE
55	NCRRP	PM	BG
36	FOPH	PM	CH
13	SURO	PM	CZ
3	BfS	PM	DE
18	OVGU	AE to EURAMED	DE
44	HZDR	PM	DE
43	DEMA	PM	DK
21	Utartu	PM	EE
27	CIEMAT	PM	ES
28	Merience	AE to CIEMAT	ES
9	MELODI	Platform	EU
12	EURADOS	Platform	EU
14	NERIS	Platform	EU
15	ALLIANCE	Platform	EU
16	SHARE	Platform	EU
17	EURAMED	Platform	EU
25	UEF	PM	FI
26	STUK	AE to UEF	FI
2	CEPN	AE to IRSN	FR
37	CEA	PM	FR
38	UnCaen	AE to CEA	FR
39	INSERM	AE to CEA	FR
40	CNRS	AE to CEA	FR
24	NCSR	PM	GR
45	EEAE	PM	GR
46	IMROH	PM	HR
47	U.Zagreb	AE to IMROH	HR
20	NNK	PM	HU
31	EK	PM	HU
58	EPA	PM	IE
30	ISS	PM	IT
41	ENEA	PM	IT
42	UnPv	AE to ENEA	IT
54	INFN	PM	IT
57	MUR	PO	IT
53	VIAA	PM	LV
50	RIVM	PM	NL
51	NRG	AE to RIVM	NL
34	DSA	PM	NO
35	NMBU	AE to DSA	NO
22	GIG	PM	PL
23	IFJ PAN	AE to GIG	PL
29	NCBR	PO	PL
48	APA	PM	PT
49	IST	PM	PT
19	IFA	PO	RO
4	SU	PM	SE
5	SKANDION	AE to SU	SE
52	SSM	PM	SE
32	JSI	PM	SI
33	EIMV	AE to EIMV	SI
56	UVZSR	PM	SK
6	DH-PHE	PM	UK
7	UCAMB	AE to DH-PHE	UK
8	U.Exeter	AE to DH-PHE	UK

* PO and PM are in bold

1 Excellence

1.1 Objectives and ambition of the Partnership

Vision and ambition of the PIANOFORTE Partnership

The purpose of the PIANOFORTE Partnership, addressing NRT-01-09, is to consolidate an EU-wide research and innovation community in the field of radiation protection to support EU and national authorities and to ensure progress with new knowledge, innovative methods and technologies and skills to address current knowledge gaps, societal concerns and emerging issues. An integrated approach to radiation protection research, exploiting synergies between the various areas of expertise including cancer diagnosis and treatments, also outside the radiation protection remit, is required to realize maximum benefits and outcomes. This Partnership, largely based on the integration effort accomplished by the radiation protection research community this last decade and supported within H2020 and before by the EC/EURATOM research programme framework, will lead to a better coordination of and thus more efficient research efforts, in particular those regarding the risks associated with medical, industrial or environmental exposure, and on emergency management in relation to accidents involving radiation. The vision supported by this Partnership is to provide a pan-European scientific and technological basis for a robust system of protection and more consolidated science-based policy recommendations to decision makers in all these different fields and – at the same time - to innovate in ionising radiation based medical applications combating cancer and other diseases by new and optimised diagnostic and therapeutic approaches always considering radiation safety. In the long term, these efforts will translate into additional or improved practical measures through innovation and improved scientific insights in view of a better outcome of patients suffering from cancer and the effective protection of people (public, workers and patients) and the environment.

This Partnership builds on:

- the successful reorganisation, integration and consolidation effort of the European radiation protection research landscape performed by the European research community during the last decade which resulted in the creation of six thematic radiation protection platforms (ALLIANCE, EURADOS, EURAMED, MELODI, NERIS and SHARE) who in 2020 jointly established MEENAS, the consortium of European Radiation Protection Research Platforms;
- the experience acquired when implementing several FP7 projects (DoReMi, OPERRA and COMET) and, more recently, the H2020 CONCERT EJP for the integration of radiation protection research and on-going H2020 research programmes (EURAMED Rocc-n-roll, MEDIRAD, HARMONIC, RadoNorm, SINFONIA);
- the existence of a recently published Joint Roadmap for radiation protection research that was established as a deliverable of the H2020 CONCERT EJP by a working group including representatives of the six radiation protection platforms and specific CONCERT Programme Owners and Programme Managers;
- the capacity and quality of many national radiation protection programmes and efforts by different Member States, including national funding and research schemes.

The ambition of this Partnership is to have an impact on radiation protection of humans and the environment in many ways. By gaining and consolidating scientific knowledge, the results of the research activities will support the implementation of the European Basic Safety Standards, to help cope with the new requirements and harmonize the practices throughout Europe. The holistic approach covers both fundamental science for exposure and effects, risk assessment, perception and management, as well as development of measurement techniques, innovative tools, methods and best practices to cope with the existing and emerging issues related to radiation exposure, thus creating a major impact for society. Research is needed for risk prediction in specific situations and for foresight, to anticipate potential exposures. New knowledge will contribute to evidence-based recommendations at international level and informed risk communication.

Research on risk management will improve risk prevention, the resilience of societies for emergencies, help to set up action plans and work on the mitigation and remediation. Guidelines, recommendations and regulations are needed, along with good practices and reliable methods for field and laboratory work. A graded approach in risk management is needed and research will help in putting exposures, effects and risks in perspective. Technological development will come up with new standards, technological innovations and improved capabilities. Finally, young, well trained experts in the radiation protection research field are needed to supply the society with well-grounded expertise, leading to improved social capital in the EU. Critical infrastructures need to be supported and access to these infrastructures should be possible for the whole radiation protection community.

The research foreseen and the derived recommendations will enable consolidated, harmonized and robust decision

making in the field of radiation protection throughout Europe and beyond.

Additionally, this Partnership aims to coalesce and combine national efforts by all Members States to guarantee an optimised radiation protection level of its citizen and at the same time provide other services that are enabled by ionising radiation, especially in the field of medicine. In that sense, a large part of the Partnership will be dedicated to support the “Europe’s beating cancer plan” - a main priority of the von der Leyen Commission and a key pillar of a strong European Health Union. Indeed, it is of the utmost importance for the system of radiological protection to optimise medical applications of ionising radiation and to harmonise practices throughout Europe, especially to balance the protection of human health from harmful effects of ionising radiation with the potential benefit of the use of ionising radiation for the individual patient. This is especially true for the diagnosis and treatment of cancer. The ultimate goal is to optimise the use of ionising radiation for the diagnosis and treatment for each patient on an individualized approach based on individual risk and sensitivity in a standardized way throughout Europe. New methodologies or optimised approaches can reduce the radiation exposure to each patient while maintaining or even improving clinical outcome and help to allow similar conditions for patients within Europe and require new or even potentially additional protection measures.

Through this Partnership, EURATOM will strengthen radiation protection communities from academia to national research institutes, industry and authorities throughout Europe and will multiply the successes that have been made in the last decade through the improved homogenization and integration of the different fields of radiation protection. Radiation protection research aims to even better serve communities across all Member States, and only a strong stakeholder and end-user-based focus of the co-funded research will enable scientific innovations to translate rapidly into improvements of quality of life and health for European citizens.

Relation to the work programme

The PIANOFORTE Partnership is presented under the call NRT-01-09 “European partnership for research in radiation protection and detection of ionising radiation” and fully addresses the scope of the call topic as shown on the following Table.

<p><i>“Radiation protection research funded under this Partnership should provide solutions and recommendations for protecting people and the environment from the potentially harmful effects of ionising radiation, as required by the Basic Safety Standards Directive.”</i></p>	<p>Research projects will be funded via open calls that will tackle questions identified as most relevant for improving radiation protection people and the environment and providing solutions and recommendations in support of the BSS. The NRT-call priorities will serve as key-input in the prioritization process, jointly with inputs from all relevant stakeholders (WP2+WP3). A specific Task (6.4) will deal with impact to assure that the achieved results are translated in radiation protection solutions and recommendations.</p>
<p><i>“A reinforced multidisciplinary approach to research, innovation and citizen involvement is needed to further develop the knowledge base and enable implementation of innovation regarding risks from different exposures to radiation, enabling the implementation of that knowledge into direct gains in Radiation Protection culture and practice.”</i></p>	<p>The multidisciplinary approach is assured by including the expertise and network of the six European platforms and by systematically involving all POMs and the wider stakeholder community. PIANOFORTE will, from the start, integrate a large stakeholder community in order to transparently and efficiently target our R&I activities and such that acceptance and implementation of the recommendations and solutions will be smoothly. Implementation of acquired knowledge, innovation and technological developments into direct gains is assured by communication, dissemination and impact activities</p>
<p><i>“The influence of individual’s characteristics, such as sex and age, and the interaction with other risk factors will have to be addressed as part of research on individual sensitivity, susceptibility and degenerative fragility. This is of a major concern in medical application, which are to be justified and optimised, based on sound evidence and scientific outcomes.”</i></p>	<p>Individual response to radiation is a key research priority described in the Joint Roadmap and will be tackled by research projects selected via open calls, having in mind both general radiation protection and the medical applications of ionising radiation.</p>
<p><i>“Implementation of this Partnership would require a cooperation of the entire European research community concerned in order to exploit synergies between different scientific disciplines. This implies the possible involvement of all research institutions and universities, from fundamental and applied</i></p>	<p>The inclusion of POMs from all EC countries and of the six radiation protection Platforms guarantees the cooperation of the entire community. Through the Open Calls, Affiliated Entities and Third Parties will be associated to the Partnership assuring further research efficiency, synergies and coverage.</p>

<p>research to human and social sciences. The Partnership would need to take account of present state of knowledge and priorities identified in the Strategic Research Agenda of MELODI (low dose radiation), ALLIANCE (radioecology), EURADOS (dosimetry), NERIS (nuclear emergency preparedness) and EURAMED (medical exposures), SHARE (social sciences and humanities) and SNETP (sustainable nuclear energy technology platform).”</p>	<p>The research calls will be open to third parties allowing the inclusion of all potential partners with specific skills needed to tackle the RP challenges. Both the CONCERT Joint Road Map (JRM) and the updated SRAs of the different platforms will be taken into account when setting the research priorities for the open calls. The link with SNETP will be assured by including an SNETP representative in the Stakeholder Group.</p>
<p>“Furthermore, citizens should continue to be involved by supporting open and participatory approaches to research and innovation in the field of radiation protection. Good decisions call for consideration of societal issues and of citizen involvement in the options and assessment of risks associated with radiation exposure.”</p>	<p>Civil society and citizens will be a target group of stakeholders and will be therefore involved in many aspects of the Partnership. In addition, participatory approach by group of citizens will be encouraged in the calls.</p>
<p>“In order to deliver expected outcomes, the Partnership would build on and further develop the research priorities identified by the European Joint Programme for the integration of radiation protection research (EJP CONCERT) in the Joint Roadmap.”</p>	<p>The CONCERT JRM will be the starting point for defining the research priorities. This will be supplemented with the analysis of the STC review, outcomes of H2020 and other EU projects, as well as priorities of other EC programmes. Next to this, input will be requested from the POMs, platforms and the stakeholders. Largely through the Open Calls the expected outcomes will be realised together with the integration and dissemination efforts of the Partnership.</p>
<p>“The Partnership would also need to take into account the Euratom Scientific and Technical Committee’s opinion on the research roadmap, the SAMIRA initiative and the outcomes of other relevant, forward-looking analyses like the EURAMED research roadmap for medical applications, and of societal priorities, individual dosimetry and artificial intelligence deciding the exposure optimisation and of societal priorities”</p>	<p>The Euratom Scientific and Technical Committee’s opinion on the research roadmap, the results from H2020 and other EU projects (i.e. SAMIRA action plan) will be taken into account in the research prioritization process. Individual dosimetry and artificial intelligence are two important aspects that are clearly present in all the inputs mentioned above, and as such they will be taken into account as important starting points for the research priorities</p>
<p>“The Partnership will address the identified research and innovation priorities topics through the launching of several open calls. Call priorities will be identified in close connection with stakeholders. Governance structure within the Partnership should ensure independent open calls issuing, project proposal evaluation and selection.”</p>	<p>Three open calls will be organized during the five years of the partnership and a specific WP (WP7) will be dedicated to the organization of the calls and the selection of the projects. These tasks will be carried out by entities that have no link with the other members of the consortium and that will not answer the calls.</p>
<p>“Links with other partnerships and international cooperation beyond Euratom, particularly with international organisations is encouraged.”</p>	<p>A specific work-package (WP3) will be dedicated to ensure the links with the international initiatives.</p>
<p>“Other synergies across programmes such as Horizon Europe Health cluster and the proposed mission cancer will continue to be explored, through dedicated working groups.”</p>	<p>Dedicated and stable points of contact will be organized with appropriate Health cluster programmes that focuses on the use of ionizing radiation in medicine, in order to address SAMIRA action plan priorities.</p>
<p>“Collaboration with industry for technological developments and bringing scientific and technological breakthroughs a step closer to the market for the benefit of citizens and society is also recommended.”</p>	<p>Specific attention will be given in the WP6 (dissemination) to translation of the results from research projects towards the market. Examples could be in the fields of dosimetry as well as quality and safety of medical applications of radiation.</p>
<p>“The Partnership will ensure the availability of and facilitate access to state-of-the-art research infrastructures required to implement the research roadmap. This will be done coherently with action 12 (European Facility in Nuclear Research).”</p>	<p>A specific WP (WP5) is dedicated to ensure the availability of infrastructure and a specific budget is reserved to facilitate their access. Contacts have been established with the coordinator of the proposed NRT-12 proposal and if both projects (NRT-09 and NRT-12) are successful, complementary approaches are already in place.</p>
<p>“Finally, the Partnership will develop competences in radiological protection with a special focus on radiological protection culture. Solutions should be proposed for addressing the challenge of communicating results in radiological protection to, and engaging with, non-specialist audiences such as</p>	<p>Research projects and training courses in the area of social sciences will focus on risk communication and citizen’s science. PIANOFORTE will build in close collaboration with the RadoNorm project where a WP is dedicated to the question of radiation protection culture.</p>

<p><i>policy decision-makers and the wider public.”</i></p> <p><i>“Proposals could pool the necessary financial resources from the participating national (or regional) research programmes with a view to implementing joint calls for transnational proposals resulting in grants to third parties.</i></p> <p><i>The Commission also invites consortia to propose innovative solutions and research approaches other than those listed above in order to deliver the expected outcomes.”</i></p>	<p>The consortium comprise almost all the POMs involved in radiation protection research in Europe. It guarantees aligning the partnership research activities and national research programs.</p> <p>Active engagement of stakeholders (WP3) will assure that PIANOFORTE will react to new research and development needs and seek to innovative solutions to improve radiation protection of citizens and the environment.</p>
<p><i>“Where appropriate, the Commission recommends that consortia make use of the services of the JRC. The JRC may participate in the preparation and submission of the proposal.”</i></p>	<p>The JRC has received information about the proposal and participated in the discussions during its preparation. The JRC identified strong synergies with its intended work programme and is interested in contributing to the project, if successful. The JRC would accede to the consortium and grant agreement as requesting zero funding with particular contribution to ensuring strong synergies and complementarities through a clearer coordination with the direct actions carried out by the JRC.</p>

Links with previous R&I actions and research needs

During the last decade, there has been a strong move towards the integration of European research in radiation protection. Concerned about the fragmentation of research and the decline of research resources, the High Level Expert Group (HLEG) proposed the Multidisciplinary European Low Dose Initiative for the integration of low dose risk research in Europe, leading to the establishment of the MELODI association in 2010. The purpose of MELODI was to set up and maintain a Strategic Research Agenda (SRA) for low dose risk research, promote education and training and to coordinate the use of resources, including research infrastructures. Encouraged by the success of MELODI, other R&D platforms integrating European research actors in radioecology (ALLIANCE), nuclear and radiological emergency response and recovery (NERIS), and medical use of radiation (EURAMED) were established with similar aims in their respective fields. EURADOS that was founded already in the 1980’s as an expert organisation of the European dosimetry community also prepared a SRA in its respective field. Soon it was realized that there are synergies between the platforms, creating a need for coordination and joint programming. Such needs were addressed by the OPERRA project and the COMET project in FP7 (2013-2017) and the CONCERT European Joint Programme (EJP) for Radiation Protection Research in H2020 (2015-2020). More recently, the newly established SHARE platform has further consolidated the expertise in social sciences and humanities and has prepared a SRA for the integration of social sciences in radiation protection research. European radiation protection research efforts have made great progress over the last decades and further paved the way for an integrated approach, bringing together the fields of radiation biology, radiation epidemiology, dosimetry and medical radiation protection, low-dose risk research, emergency preparedness and response, radioecology, as well as the input from social sciences and humanities research in the implementation of radiation protection. This is clearly reflected by the Memorandum of Understanding signed by all six platforms and creation of the MEENAS umbrella structure. This attempt to integrate such a broad spectrum is well recognized worldwide. PIANOFORTE will use the experience gathered up to now in terms of scientific results and of organizing the complex interaction between different key players in Europe and beyond, in order to pursue multidisciplinary research based on a structured planning process.

The research platforms have established mechanisms to prioritize research in the field of radiation protection and developed roadmaps for radiation protection research. Up to now, their use of the roadmaps has been limited to two open calls implemented during the CONCERT EJP. In December 2019, both on the basis of the individual SRAs elaborated by the platforms and on the outputs of the different radiation protection research projects conducted under the 7th and the 8th Framework Programme, the CONCERT EJP delivered a Joint Roadmap (JRM) for radiation protection research elaborated by a working group including representatives of the six radiation protection platforms and specific CONCERT Programme Owners and Programme Managers (POMs). This Joint Roadmap reflects the broad spectrum of societal and scientific issues requiring consideration by the radiological protection research community. It is intended to provide a solid basis to define priority areas and strategic objectives for mutual cooperation and a vision and role for a European radiation protection research programme to 2030 and beyond. It may serve as a starting point for joint discussion and cooperation across the multitude of involved disciplines, a reference for evaluation of progress and finally a basis for promoting a European vision on radiation protection research.

The JRM presents a view of the joint research challenges in the context of existing and potential exposure scenarios (Table 1), relevant from societal and radiation protection point of view. The term “Joint” refers to the fact that the

joint research challenges cover many disciplines, requiring collaboration of research communities of the different platforms needed to tackle the challenges.

RP in various exposure scenarios		Anthropogenic	Anthropogenic	Anthropogenic	Natural
ICRP classification	Contexts → Exposure Scenarios ↓	Medical therapy and diagnosis	Nuclear applications and applications of IR other than medical	Use of natural resources (NORM, TENORM)	Natural background radiation
Planned	1. Medical / Patients	Patients undergoing diagnostics or RT			
Planned	2. Industrial applications / public & environment		Discharges from nuclear sites during normal operation	Discharges from industry dealing with NORM	
Planned	3. Workers	Personnel in health care & production of radiopharmaceuticals	Personnel in nuclear installations & use of industrial IR sources	Personnel in NORM generating industries	Aviation personnel & astronauts
Existing	4. Nuclear or industry using NORM/ public & environment		Legacy from nuclear fuel cycle or other nuclear installations	NORM legacy sites	
Existing	5. Natural background / public & environment				Elevated natural background
Emergency	6. Nuclear or radiol. accident / public, workers, environment	Accident/incident with medical sources, radiopharmaceuticals	Accidents in nuclear installations	Accidental releases from NORM industry	

Table 1: Exposure groups related to different exposure situations categorized according to the ICRP classification (planned, existing or emergency exposure situations). The columns represent the different exposure sources (anthropogenic/natural) and contexts (medical, nuclear industry, NORM-TENORM and natural). Within the different exposure situations, various groups of exposure scenarios are identified. NORM-TENORM: Naturally Occurring Radioactive Materials - Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM) (from D3.7 Second joint roadmap for radiation protection, 2020).

Eight Joint Research Challenges were identified and are summarised in Table 2 (A – H), together with the platforms needed to tackle them. Within these research challenges, the Joint Roadmap highlighted 20 “game changers” defined as research issues that, when successfully resolved, have the potential to impact substantially and strengthen the system and/or practice of radiation protection for people (public, workers, patients) and the environment through 1) significantly improving the evidence based, 2) developing principles and recommendations, 3) developing standards based on the recommendations and 4) improving practice. These challenges and associated “game changers” form the basis for appropriate multidisciplinary projects, addressed in PIANOFORTE.

Joint Research Challenges	Scenarios
A. Understanding and quantifying the health effects of radiation exposure	1-6
B. Improving the concepts of dose quantities	1-6
C. Understanding radiation-related effects on non-human biota and ecosystems	2, 4-6
D. Optimising medical use of radiation	1, 3
E. Improving radiation protection of workers	3, 6
F. Integrated approach to environmental exposure and risk assessment from ionising radiation	2, 4-6
G. Optimise emergency and recovery preparedness and response	6
H. Radiation protection in society	1-6

Table 2: Overview of joint research challenges derived from exposure scenario groups (from D3.7 Second joint roadmap for radiation protection, 2020). See table 1 for a description of the scenarios.

It is important to consider that the JRM is a living document that will need to be updated on a regular basis, considering, on the one hand, advances and developments that affect the research needs and, on the other hand, the apparition of new scientific challenges, results or societal concern. With this in mind, special attention will be also paid to the outputs of several on-going important H2020 European projects as their results may provide elements potentially modifying the priority setting of the Joint Roadmap. These projects are the following:

- 1) H2020 MEDIRAD research and innovation action (2017-2022) which aims to enhance the scientific bases

and clinical practice of radiation protection in the medical field.

2) H2020 HARMONIC research and innovation action (2019-2024) which aims at better understanding the long-term health effects of medical exposure to ionising radiation in children.

3) H2020 EURAMED Rocc-n-roll coordination and support action. This 3-year project (2020-2022) is dedicated to the development of a SRA (and an associated road-map) based on the existing EURAMED SRA.

4) H2020 RadoNorm research and innovation action (2020-2025) that targets all relevant steps of radiation risk management for radon and NORM exposure situations.

5) H2020 SINFONIA research and innovation action (2020-2024) whose main objective is to develop novel methodologies and tools that will provide a comprehensive risk appraisal for detrimental effects of radiation exposure during the management of patients suspected or diagnosed with lymphoma and brain tumours and treated by radiotherapy.

It will take decades to address all research challenges identified in the CONCERT JRM. As EURATOM programmes are limited in time and budget, it is necessary to define priorities for the next 5 years. Therefore, this partnership proposes to address research priorities from the Joint Roadmap that support the priority EU policies and are aligned with Horizon Europe pillars (excellent science, global challenges and European industrial competitiveness, innovative Europe) while taking into account the fact that some research challenges require a longer-term effort.

Within this context, high priority should be dedicated to medical applications considering that 1) medical exposures are, by far, the largest artificial source of exposure of the European population and 2) the fight against cancer is a top priority of the mandate of the present European Commission. In order to ensure an appropriate continuity in the research goals and methodologies, in line with the contents of the CONCERT Joint Roadmap, two other priorities have been identified to further understand and reduce uncertainties associated with health risk estimates for exposure at low doses and low dose-rates in order to consolidate regulations and improve practices and to further enhance a science-based European methodology for emergency management and long-term recovery.

Therefore, in accordance with the expected outcomes of the NRT-01-09 action, the priorities or research needs that will be addressed in the Partnership are as follows:

- 1) **To improve the prevention, detection and safe treatment of cancer** in contribution to “Europe’s beating cancer plan” that aims at “improving the prevention, detection, treatment and management of cancer in the EU while reducing health inequalities between and within Member States” and of the Horizon Europe “Cancer” Mission. The Partnership, through its research activities will provide inputs to at least two recommendations by the recent “Report of the mission board for cancer” namely: “advance and implement personalised medicine approaches for all patients in Europe” and “develop an EU-wide research programme on early diagnostics and minimally invasive treatments”. Bridges with Partnerships “ERA for health”, “Personalized medicine”, “Artificial intelligence, data and robotics” and “Metrology”, and their associated social and ethical dimensions would also be beneficial. Links with ongoing projects like EURAMED rocc’n roll and the SAMIRA initiative will be established. R&I needs and opportunities in radiation protection associated with this overarching challenge consist of:
 - a. Developing a knowledge base and analytical tools for the major features of variability in the radiation response, including radio-sensitivity (tissue reactions), radio-susceptibility (cancers) and radio-degeneration(aging), radio-induced immune-response, in humans and ecosystems;
 - b. Performing research to pave the way to personalized medicine, including factors of gender and age as part of individual radiation sensitivity, susceptibility and degenerative fragility;
 - c. The harmonisation of the practices throughout Europe especially with respect to the protection of human health from the harmful effects of ionising radiation and with respect to the potential benefit of the use of ionising radiation for the individual patient;
 - d. The optimisation of protocols to improve the protection of patients using AI techniques;
 - e. The development of innovative diagnostic and therapeutic techniques using ionising radiation;
 - f. Development of science-based recommendations procedures and tools for improving radiation protection of patients and staff and assuring transfer of new and optimized medical procedures into medical practice
 - g. Robust consideration of patient concerns, trust and limitations to personalisation.
- 2) **To consolidate regulations and improve practices in domains using ionising radiation by capturing low-dose research advances** in support of the BSS implementation and of the EU Green Deal objectives,

specifically to ensure the sustainable transition “while also protecting citizens’ health from environmental degradation and pollution, and addressing air and water quality”. This ambition is shared again with the “Health” cluster with which a later connection could be beneficial. The major R&I needs for radiation protection for this challenge are:

- a. Establishing improved risk estimates for the justification of practices and optimisation of radiological protection of the members of public, patients, workers and environment in all exposure situations;
- b. A better understanding and quantification of low-dose effects on health and ecosystems through mechanistic approaches as well as new instruments and tools for the radiological monitoring of the environment;
- c. Advancing state-of-the-art understanding of the link between exposure characteristics and the cancer and non-cancer effects, including optimised detection and dosimetry;
- d. Advancing integrative radiobiology from basic mechanisms to clinic and epidemiology, including human and social sciences to further characterize and evaluate ionising radiation effects;
- e. Facilitating uptake of research results by decision makers and regulators, to improve protection of workers, public and the environment by science-based policy recommendations.

3) To improve the anticipation and resilience in case of radiological or nuclear event and the management of legacy sites by providing a scientific basis to recommendations, procedures and tools in support of the Action plan on the Sendai Framework for disaster risk reduction. This challenge will be a contribution to the EU objective of creating “*a resilient and more stable Europe that protects*” and research performed during the Partnership will be closely connected to the Horizon Europe “Civil security for society” cluster that is aimed at an “improved disaster risk management and societal resilience” through better understanding of natural and man-made disasters and by the development of novel concepts and technologies to counter these risks. It will also be closely connected to activities developed in the “food, natural resources, agriculture, and environment, biodiversity” cluster one of the objectives of which is “*reducing environmental degradation and pollution*”. Links with the Partnership on Metrology will be established. R&I needs in radiation protection associated with this challenge are:

- a. Development of robust prediction models of radiological contamination in the environment for an integrated dose and risk assessment;
- b. Optimisation of emergency and recovery preparedness and response using Artificial Intelligence and Big Data;
- c. Improvement of stakeholder’s involvement strategies; including the communication of results of radiological protection to non-specialist audiences such as policy decision-makers and the general public;
- d. Optimisation of processes and relevant values such as reasonableness and tolerability.

General, specific and operational objectives

The achievement of the different scientific and technical challenges described in the previous section will be translated into the objectives described below. In addition, particular attention has been paid to ensure that these objectives are in line with the European Commission's global policies, as described in the following documents:

- European Directive 2013/59/EURATOM laying down Basic Safety Standards (BSS) for protection against the dangers arising from exposure to ionising radiation;
- Orientations towards the first Strategic Plan for Horizon Europe (2019);
- Europe Beating’s Cancer action plan (2021);
- SAMIRA Action Plan: Radiological and nuclear technology in support of Europe’s Beating Cancer Plan (2021);
- European Green Deal (2019) (in particular “Preserving and restoring ecosystems”, “A zero pollution ambition for a toxic free environment”);
- European action plan on the Sendai Framework for disaster risk reduction (2016);
- Communication: A European strategy for data (2020).

In addition, the EURATOM Scientific and Technical Committee (STC) opinion on future radiation protection research (2021) has been taken into account.

Taken all these elements into account, **the general objective of this Partnership is to improve radiological protection of members of the public, patients, workers and environment in all exposure scenarios and provide solutions and recommendations for optimised protection in accordance with the BSS. This objective will be**

reached by multidisciplinary research, innovation and citizen involvement activities in a collaborative approach of scientists, regulators and stakeholders. Research projects focusing on identified research and innovation priorities will be selected through competitive open calls.

The general objective will be reached through the achievement of six specific objectives (four scientific specific objectives and two integration specific objectives) that are presented below. The four scientific specific objectives are aimed at tackling the three priorities defined in the previous section. Operational objectives are provided for the grouping of the four scientific specific objectives and for each of the integration specific objectives. They are presented in Table 3.

Scientific specific objectives

Specific objective 1: To innovate in ionising radiation based medical applications combating cancer and other diseases by new and optimised diagnostic and therapeutic approaches improving patient health and safety and supporting transfer of the R&I outcome to practice.

Medical use of ionising radiation is the largest source of exposure on average for the population in developed countries as in Europe. There is a large difference in radiation exposure due to medical applications between different European countries and there is also a difference in the medical use itself. Therefore, it is of great importance for the system of radiological protection to optimise the medical application of ionising radiation and to harmonise the practices throughout Europe especially with respect to the protection of human health from the harmful effects of ionising radiation and with respect to the potential benefit of the use of ionising radiation for the individual patient. This is especially true for the diagnosis and treatment of cancer. The ultimate goal is to optimise the use of ionising radiation for the diagnosis and treatment for each patient on an individualized approach in a standardized way throughout Europe.

New methodologies or optimised approaches can reduce the radiation exposure to each patient while maintaining or even improving clinical outcome and help to ensure similar conditions for patients within Europe and require new or even potentially additional protection measures. This is especially important for treatment of infants and toddlers as they have a long lifespan ahead of them. The transfer of the new or optimized approaches into clinical routine is necessary to really optimize the medical use of radiation. This has to be done in a standardized way throughout Europe allowing all European patients benefiting from the new or optimized methods and procedures in similar way. This is especially true for example for new technological developments such as AI based methods. In this context it is of utmost importance to guarantee a safe use of such methods and to avoid radiation exposure without a secure diagnosis or treatment and consideration of radiation protection principles. Although, the medical use of ionising radiation should follow the same standards throughout Europe, these guidelines still have to take into account the individual benefit for each single patient. To widen this approach to all medical applications of ionising radiation would be a big step for optimized medical care and optimized radiation protection.

Specific objective 2: To improve scientific understanding of the variability in individual radiation response and health risk of exposure.

Individual variation in radiation-related risk for cancer and other non-cancer chronic diseases is a key area to address for radiation protection and medical treatment. Differences in the magnitude of radiation-induced effects between individuals, or groups, may relate to sex, age at exposure, state of health, genetic and epigenetic make-up, lifestyle, and attained age. Such differences, if significant, raise profound ethical and policy questions as to whether some individuals or groups are inadequately or over-protected by the present system and regulations. It is also an increasing factor to be considered in medical radiation protection. During therapy, healthy body regions outside the targeted irradiated field will still receive low radiation doses, probably leading to long-term consequences of radiation therapy, due to better long-term survival of the patients. Similar concerns exist with repeated medical diagnostic investigations using ionising radiation, especially in young children and infants, due to the longer life span ahead of them, but also in adult patients due to the generally expected higher life expectancy. These exposures need to be quantified and optimised.

At present, there is insufficient information about the mechanisms behind and size of the differences in response between individuals and their consequential influence on risk estimates either after high therapeutic doses or at low doses and dose-rates. In order to address policy questions and regulation, it is necessary to obtain better scientific insight in the origin and extent of the variations in sensitivity in the population, in the sizes of the variations, characteristics affecting the variation and in the proportions of the population that are affected and the socio-economic variables at play. Advancing integrative radiobiology and dosimetry will help to further characterize and evaluate ionising radiation effects. Importantly, reliable and robust biomarkers predictive of individual risk need to be identified and characterized through basic mechanistic research before application in epidemiological or medical studies. These developments form the key scientific foundation for the health target of SO1: individualized therapy

for all EU citizens.

Specific objective 3: To support regulations and implementation of the BSS and improve practices in the domain of low dose exposures of humans and the environment by better understanding and reducing uncertainties in risk estimates.

The central aim of the radiological protection system is to protect humans and the environment from possible harmful effects of ionising radiation. Risks to human health and to health of the environment are a prime consideration in all occupational and public exposure settings. The Partnership aims to achieve a comprehensive quantitative and mechanistic understanding of radiogenic health and environmental effects, with special focus on low doses because of prevailing uncertainties about the levels of risk. The current regulations of human radiological protection are based on the assumption that any level of exposure can cause an effect, and that the dose-effect relationship is best represented by the linear non-threshold (LNT) model assuming a straight line from zero dose upwards. Due to insufficient statistical power, epidemiological studies on humans are not able to provide data to resolve the uncertainties at low doses. Hence, the LNT approach is based on the precautionary principle which is prudent but not satisfactory. What is needed to reduce the uncertainties regarding low dose effects are mechanistic studies on biological, physical and environmental effects of radiation. Open questions that need to be resolved include 1) the pathways of radiation induced cancer and non-cancer diseases which will allow defining key molecular events in the adverse outcome pathway (AOP) approach; 2) the impact of dose rate on biological effects which will allow validating the currently adopted dose and dose rate effectiveness factor (DDREF) of 2; 3) the particle track structure and resulting biological effectiveness of different radiation qualities that are the basis for defining radiation weighing factors. At the ecosystem level, system approaches to study whole ecosystems and define AOPs are needed and it is particularly important to lift existing controversies regarding the effects on wildlife reported in the Chernobyl and Fukushima exclusion zones. Workers can also be exposed to low doses of radiation, and it is important to be able to monitor workers reliably and accurately in real time and to provide input for the optimal application of the protection principle. Equally important are studies of societal perspectives on radiation risks and effective communications between science and society to enable compliance with regulations and practices leading to improved protection. It must be stressed that the International Commission on Radiological Protection (ICRP) has recently started working on revising its radiation protection recommendations which form the basis of the European radiation protection directive. Hence, new mechanistic insights into radiation effects that can improve the system of radiological protection and their effective dissemination are urgently needed.

Specific objective 4: To provide the scientific basis to recommendations, procedures and tools for assuring better preparedness to response and recovery from a potential radiological event or nuclear accident and to improve the know-how to manage legacy sites.

In nuclear or radiological emergency management including accidental exposures, medical follow-up and long-term recovery as well as in legacy site management, the radiological impact and risk assessment is of prime importance and demands the improvement, development and customisation of several new methodologies and advanced tools. As a basis for more robust radiological impact assessment there is a need to further improve the understanding and associated modelling of radionuclide dispersion and transfer processes. The evolution of knowledge and technology will advance risk assessment and risk management tools and methodologies which can be efficiently implemented in order to improve preparedness in case of radiological or nuclear event and management of legacy sites. Artificial Intelligence (AI) and big data technologies provide new capabilities in all domains from monitoring to decision support tools and more broadly to the decision-making processes. They allow processing large volumes of – potentially heterogeneous – information and accumulated knowledge, either in real-time or via machine learning algorithms. Exploiting Artificial Intelligence (AI) and big data technologies, new methods for radiological impact assessment and new-generation Decision Support Systems (DSS) providing guidance for improved response and recovery strategies, can be developed. The appropriate inclusion of societal and ethical dimensions in DDS are also paramount.

To cope with novel threats and accident scenarios arising from new and future nuclear and radiological technologies further development of risk assessment and risk management approaches and improvement of socio-technological capabilities is required. As an essential part of impact and risk assessment in post-emergency situations and legacy management, a robust prediction of radiological contamination in the environment, for an integrated dose and risk assessment will be pursued. Research in effective communication and stakeholder involvement strategies is key for success as it contributes to trust and confidence building helping to improve resilience of potentially affected communities and better manage (post) emergency and recovery phases as well as legacy sites.

Integration specific objectives

Specific objective 5: To maintain a sustainable expertise capability on radiation protection issues across the EU by fostering the availability, the use, and the sharing of existing state-of-the-art infrastructures at European level and beyond, and conducting education and training activities.

Excellent radiation protection research is based on three pillars: 1) Maintenance and easy access to relevant research infrastructure, 2) Building and maintenance of knowledge by education and training of young scientists, promotion of young talents in radiation science and lifelong learning and 3) Set up of a FAIR¹ data culture enabling open science and enhance effective exchange of data and information between different researchers, stakeholders and policy domains. These requirements play a key role in radiation protection research and are basic for the implementation of the research activities.

The inventory of European infrastructures and future needs performed during the H2020 CONCERT EJP has revealed that most infrastructures required for implementing the Joint Roadmap are already available within Member States, Associated Countries or beyond. The next step, which is the purpose of this specific objective, will be to make better use of research infrastructures existing across Member States. In line with the “European strategy for data”, specific efforts will be dedicated to high-quality sample/data acquisition and sample/data storage with the aims to share and re-use of archived materials. A strategic work plan for maintenance, updating, mutual use and new needs of suitable infrastructures is necessary to tackle emerging challenges (for instance study on new radiopharmaceuticals).

Building and maintaining knowledge turns out to be a great challenge and places big demands on the skills and resources of the research community due to 1) new technologies including bioinformatics, powerful computing, data science, including handling of large data sets 2) changing pressures in the work environment and aging population and 3) maintenance and access to research infrastructure on national and global level.

Next to education and training of trainers and young researchers entering the field of radiation protection research, there is a need for lifelong learning programmes to enable researchers to enter emerging research fields within the course of their research careers.

Finally, a FAIR data culture that enables open science and strengthens effective exchange of data and information between different stakeholders and policy domains is mandatory in order to use the generated data and new knowledge optimally and for the benefit of all.

Specific objective 6: To involve all the relevant stakeholders at the different stages of the implementation of research projects and assure efficient dissemination, knowledge management and uptake of results

While the international recommendations of the ICRP and the BSS of the IAEA and EURATOM are mainly based on knowledge of radiation risks, ethical and societal values and past experience, research in radiation protection is also serving the information needs of regulators and authorities in Member States responsible for transposition of the standards in the national legislation and associated recommendations and practices as well as the needs of those engaged in ionising radiation practices (*e.g.* industry, medicine, any risk assessors) and other stakeholders (*e.g.* patient associations, association for nature conservation, scientific and professional associations and many other interest groups including international organisations). This Partnership is intended to respond, as much as possible, to the expectations of these different categories of stakeholders, all interested by a safer use of ionising radiation for both energy and non-energy applications. In other words, the objective is that research and innovation activities, conducted within the scope of the present Partnership are better aligned with the values, the needs and expectations of society in order that scientific research can inform decision making more effectively and be responsive to, and acceptable by, societal and stakeholders’ need. One significant aspect of this alignment is the continuous effort to establish transparent discussions on the research priorities outlined above during the prioritization process within PIANOFORTE.

Beyond the participation of stakeholders to prioritization and the dissemination of results, the ambition of this specific objective is to promote the co-conception (through their implication during the preparation of the calls) and co-implementation (through their active involvement during the course of certain projects) of research activities with stakeholders if possible. This stakeholder engagement will result in enhanced education and high numbers of informed citizens.

¹ FAIR : Findable, Accessible, Interoperable, Reusable

Through open calls mechanisms, new knowledge will be created throughout the Partnership duration. The communication and dissemination of these results is a key success factor in achieving the goals of the Partnership. The research projects funded along with the AEs and TPs engaged will be asked to actively contribute to result dissemination. Open access of data and data sharing along with results dissemination to relevant stakeholders including the public and the patients will be strongly encouraged as it will contribute to a rapid translation of research results into radiation protection practice in Europe. A devoted strategy will be developed to ensure that main outputs and impacts of the Partnership are known, widely disseminated and easily accessible. In particular, dialogue and collaboration with the international research community will be essential for mutual support and for the identification of needs and opportunities for harmonization actions and development of tools that support the collaboration. Connecting this Partnership with the international community will foster the dissemination of results and will promote the importance of data and knowledge sharing among international networks. Europe has long been a strong component of R&I effort in the field of radiation protection and has therefore been influential in UN bodies, at ICRP level and in various international organisations. Results of this partnership will play into actualisation process of ICRP recommendations. As a continuation, during the full course of this Partnership, a specific effort will be dedicated to communicate and dialogue with the relevant international organisations, namely IAEA, UNSCEAR, WHO, ICRP, and OECD/NEA.

This strategy will make use of innovative, interactive approaches in communication and take into account the specific needs of the different categories of stakeholders. Links will be established and maintained with the ongoing research projects (funded under H2020 programme) in order to avoid overlaps, to build on experience and to jointly promote results.

Internal and external knowledge management is a key point to ensure an optimal uptake of the results by the concerned parties. Specific efforts will be devoted to manage new scientific knowledge acquired and to facilitate their immediate access to the different stakeholders. This knowledge management effort will include results from ongoing H2020 projects in the field of radioprotection. Also, specific meetings or events will be organized in order to present results and encourage their uptake by the various stakeholders.

Links and collaboration opportunities with other topics of EURATOM Work programme 2021-2022

The necessity to establish links, synergies or collaborations between the partnership and other topics is mentioned in the Euratom 2021-2022 work programme and lead to strong interaction with:

- NRT-01-01: Safety and operating nuclear power plants and research reactors
- NRT-01-07: Development of tritium management in fusion and fission facilities
- NRT-01-10: Safe use and reliable supply of medical radionuclides
- NRT-01-12: European facility for nuclear research
- NRT-01-13: Towards a European nuclear competence area.

When the consortium that prepared this proposal was aware of it, contacts were made with the coordinators of the proposals to the NRTs mentioned above in order to discuss the possibilities of working together in a form to be specified in case the proposals are successful.

Links and collaboration opportunities with other topics of EU programme

As mentioned above, links could potentially be established with several other EU programs, often partnerships, within the “Health”, “Civil security for society” and “food, natural resources, agriculture and environment, biodiversity” clusters. A particular effort during this partnership will be made to establish links, in the form of dedicated contact points or working groups, with the HEALTH cluster in order to create synergies in the field of the use of ionizing radiation in medicine and in particular in the field of better protection of the patients. One example for this is a specific stakeholder-oriented research question for the radiation protection community to address with respect to clinical guidelines for proton therapy. These actions will aim to contribute in the most efficient way possible to the SAMIRA action plan.

Exit Strategy

This Partnership will build on the one hand the successful and efficient structuring of the radiation protection research community achieved through both the H2020 CONCERT EJP (and on-going H2020 projects) and the creation of the MEENAS umbrella structure of the six platforms that encompass the width of the European radiation protection research agenda. On the other hand, this Partnership builds on the existing radiation protection research funding schemes in the different Member States, which all have slightly different needs from the radiation protection research community, based on different types or levels of radiation exposure in their societies.

As an exit-strategy, this Partnership, based on principles of transparency, inclusiveness and mutual learning among

disciplines and through the implementation of Open Calls and associated activities, will

- reinforce the already well-advanced integration process of the radiation protection community through the effective involvement of the six platforms in the Partnership;
- expand the community through the possibility for Affiliated Entities and Third Parties, not already involved in the consortium that replies to the NRT-01-09 call, to join the project consortium that will respond to the Open Calls;
- align national funding programs around the research activities performed within this Partnership and will enable more efficient advances towards the overall goals of enhanced sustainability.

Although aware of the well-identified difficulties associated with the existence of programmes dependent on two treaties, the effective possibility that bridges the cleft are established between this Partnership and other Horizon Europe Partnerships and clusters outside EURATOM dependent on other sectors would be a cost-effective and considerable progress, to the benefit of the scientific community, stakeholders (including decision-makers) and, at the end, European society. The social, economic and associated scientific challenges that Europe faces require breaking down the borders between sectors and having a global approach, particularly in the field of medicine (and particularly in the field of cancer fighting) and the protection of human health and the environment. As an exit strategy, the ambition of this Partnership is, in close connection and with the help of Commission services, to initiate long-term, real and effective collaborations with one or several other Horizon Europe Partnerships or Clusters.

The exit-strategy of this Partnership and how it will evolve will also depend on its own achievements and developments but also on the achievements and developments under other projects, programmes and Partnerships developed by the European Commission under Horizon Europe. By the end of this Partnership in 2025 important developments will have been made, societal context will have changed and many new demands and opportunities will arise that will be taken into account to adapt the exit-strategy.

1.2 Methodology

Basis of the PIANOFORTE Concept

The EU action in the area of radiation protection is based on different Articles of the EURATOM Treaty, and stems, directly or indirectly, from the EU's commitment to the United Nations 2030 Agenda for Sustainable Development Goals, Conventions (for instance OSPAR Conventions) and Calls for Actions (*e.g.* Sendai Framework, IAEA/WHO Bonn Call for Action). Both national- and EU- level actions aiming at similar goals are indispensable to provide a pan-European scientific and technological basis for a robust system of radiation protection of people and the environment and more consolidated science-based policy recommendations to decision makers in this area. While helping in the establishment and the implementation of the EURATOM requirements (namely and currently, the Council Directive 2013/59/EURATOM) in the Member States, continuous research is also needed for testing the adequacy of the requirements and to propose ways how requirements or their implementation could be improved. Also, research will be beneficial for the improvement of cancer diagnosis and treatments, for the radiation protection of patients and workers but also for contributing to the European objective of establishing its position as a global leader in the field of the use of ionising radiation in medicine, and more globally non-energy applications of IR, through innovation. This requires efficient cooperation between the EU and its Member States, especially in the field of radiological protection research. Such cooperation implies a transnational, integrated and interdisciplinary approach that will be facilitated by the existence of the radiation protection platforms that are efficient transnational integration tools. Through this Partnership, the efforts of EU and Member States (and Associated Countries) will go in the same direction, towards agreed objectives.

Neither a single State, nor the EU on its own has the capacity to address the prioritized research challenges in the field of radiation protection of people and the environment at the current state. A bundling of resources is needed, which can only be achieved *via* a European co-funded Partnership. About ten years ago, the major concern in the field of radiation protection research was the fragmentation of research activities and the decline of research resources at the European level. Since then, a remarkable reorganisation of the European radiation protection research landscape has taken place. Platforms in different fields were established, SRAs were developed together with roadmaps. While the individual platforms have brought together European scientists and consolidated their strategies, there has been in parallel an increased collaboration between the radiation protection platforms within the integrative work packages of the CONCERT EJP to develop priorities and, as a final product, a joint roadmap. To perform this work, the platforms succeeded to gather most research groups active in their fields of research in a successful attempt to combat fragmentation of research and to pool a critical mass. More than 200 organisations are members of the six thematic platforms and more than 90 entities were involved in CONCERT. They have joined their forces to create and update the strategic agendas. It should be noticed that about one third of the 200 organisations are universities and that, in

total, these organisations represent 25 over 27 plus the UK Member States. This Partnership will continue building on this remarkable integration effort, enlarging it to include the additional complementary expertise required to cover the whole remit of radiation protection and ensure the ability of the Partnership to tap into all available national expertise and stakeholders in the field of European radiation protection research. On top of this continued coordination, PIANOFORTE will bring forward essential resources for prioritized topics in radiation protection that would otherwise not be addressed and might lead to a loss of capacity and expertise in the EU.

The EURATOM dynamics during the past decade in the field of radiological protection research demonstrate the increasing capability of the scientific community to use the development of thematic platforms as well as the use of European funding instruments, including with national co-funding mechanisms (*i.e.* EJP CONCERT) for the required inter- and multi-disciplinary work. A multi-annual programme is required for an optimized implementation of the research activities envisaged in the Partnership that tackles many challenges. These challenges are highly multidisciplinary and require a supra national coordination and collaboration in order to improve efficiency and to avoid duplication. A co-funded Partnership established for several years appears as the best tool to ensure an efficient coordination and optimized planning of research activities through a long-term call planning system to address and realize the challenges. This long-term vision also requires to introduce some flexibility as the Joint Roadmap (and associated challenges) should be considered as a living document regularly up-dated by the platforms (through the up-date of their respective SRAs), as new challenges may arise (for instance, the development of new radiopharmaceuticals or radiotherapy techniques or new nuclear reactor technology such as small modular reactor) and may need specific research actions.

Concept

The main objective of the Partnership is to carry out research activities that will address current and future scientific and technical challenges that will improve radiation protection practices, enable better implementation of BSS and ultimately ensure better protection of man and the environment from ionising radiation. As recommended by the EURATOM STC, more than 75% of the Partnership's budget will be dedicated to research activities, with the remainder allowing for better access to national infrastructure, education and training activities and dissemination and exploitation of results. The concept of the partnership is summarised in Figure 1 and is based on a five-step iterative process:

- **Step 1 – Prioritisation:** This step aims at defining the research priorities that will lead to an open call for proposals. The input to define these priorities will be based on the priorities defined in the JRM developed during the CONCERT project, which strongly overlap with the outcomes specified in call NRT-01-09, but also on the results of ongoing EURATOM/H2020 projects and on the expectations expressed by other actions carried out in other European programmes, in particular the SAMIRA action plan. EURATOM STC opinion on radiation protection research will be also taken into consideration. Particular attention will also be paid to complementarity with actions carried out at Member State and international levels (e.g. NEA/HLG-LDR, Planet in Japan, IDEA in the USA ...). These boundary conditions will be complemented by a comprehensive, transparent priority setting and consultation process. This stage will involve all the members of the consortium (POMs, and platform representatives) but also all the stakeholders (radiation protection authorities, NGOs, operators, professional associations, patient associations, international organisations...) with a special attention paid to civil society (see Figure 2).
- **Step 2 – Open Call launch:** Once the priorities have been defined the next step is to organise a call for proposals. This call will be an open one allowing entities outside the consortium to respond (third parties). This open call system will promote excellence in science, creating high-quality knowledge and widening participation through a process open to the whole radiation protection community. In order to guarantee the absence of conflicts of interest, the call will be organised and the projects evaluated by an entity that is totally independent from the other members of the consortium.
- **Step 3 – Research projects implementation:** The next step is the implementation of research projects. Beyond the research actions, these projects will be able to benefit, if necessary, from the system of sharing and mutualization of infrastructures that will be implemented at the European level. In addition, the young researchers involved in these programs will be able to benefit from the education and training programs that will be developed and deployed throughout the life of the Partnership. Finally, the involvement of different categories of stakeholders in the elaboration of the projects as well as in their conduct or in the dissemination of results (target groups) will be strongly encouraged.
- **Step 4 – Outputs:** the different projects selected and the integration activities will produce outputs under various forms: peer-reviewed publications, pre-print, reports, codes, experimental data, protocols, etc. All these results will be organised through data management and research management plans and will form the basis for achieving the expected outcomes for the different target groups.

- **Step 5 – Outcomes:** A crucial point of the projects will be the transfer from outputs into outcomes that will have impacts on the different target groups. Particular attention, mentioned in the selected calls, will be given to data management (FAIR principle) as well as to communication and dissemination of knowledge in the spirit of complying with the principles of open science. These different aspects will be addressed at two levels: on the one hand, at the level of each of the selected projects, but also at the level of the partnership as a whole. A dedicated WP will allow to synthesize and put into perspective the results of all the selected projects in order to maximize their impact, in particular through strong interactions with the different stakeholder groups.

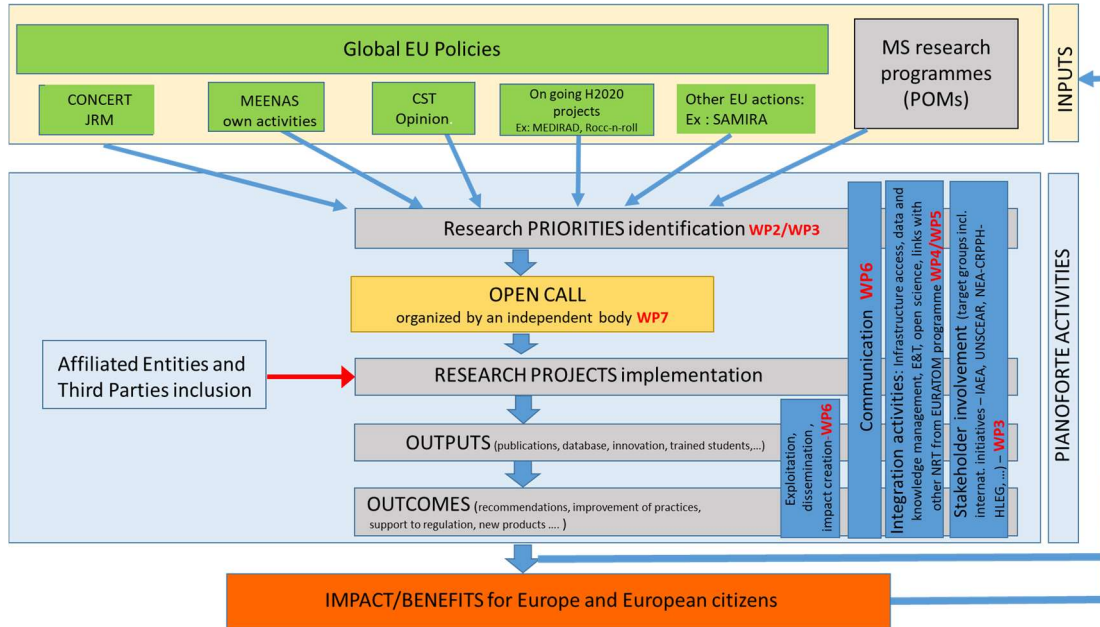


Figure 1: Methodology of the PIANOFORTE Partnership and interaction between the different work-packages

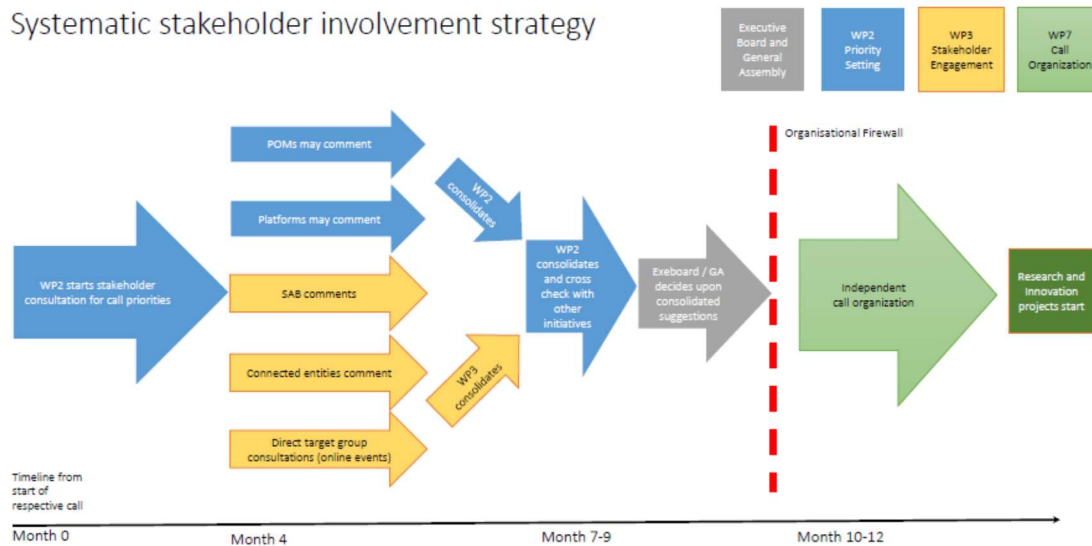


Figure 2: Stakeholder involvement strategy used in the prioritisation step of the PIANOFORTE partnership.

Links with international activities

The concern expressed by the HLEG in 2010 about the fragmentation of European research and the decline of research resources in the field of radiation protection research was not specific to Europe. Similar concerns arose recently in Asia and in North-America, especially in the low-dose research domain. To overcome this fragmentation, Japan launched the Planning and Acting Network for Low Dose Research (PLANET). PLANET is a network to promote low dose radiation research, which aims to identify priorities of research needs and propose support system

for cooperation and collaborative researches in Japan. PLANET also intends to establish an all-Japan network among regulators, academia, research institutes and stakeholders. In parallel in the United States, the Electric Power Research Institute (EPRI) initiated the International Dose Effect Alliance (IDEA) with the objective of providing a mechanism for organisations around the world to discuss low dose radiation research programs, priorities, and approaches.

Finally, as an overarching initiative taken by the OECD/NEA/CRPPH, the High-Level Group for Low-Dose Research (HLG-LDR) global networking proposes to build a global network that facilitates collaboration among ongoing and planned low dose ionising radiation research programmes and encourages the collective sharing of information and resources. One of the goals is to enhance collaboration with the OECD, operating under the Extended Advisory Group for Molecular Screening and Toxicogenomics (EAGMST – which has been developing the Adverse Outcome Pathway (AOP) approach to organize published evidence on mechanisms of toxicity, spanning multiple levels of biological organisation in the chemical and ecological fields). The HLG-LDR is currently developing tools and methodologies to support these objectives with two major initiatives:

- the elaboration of international database of research projects in the field of low dose;
- the exploration of areas where the HLG-LDR and chemical AOP communities could potentially collaborate with the support of both NEA and OECD AOP programme.

Given the importance of the OECD/NEA initiative, a permanent Dialogue between this Partnership members and the HLG-LDR will be established in order to leverage the European influence in the low-dose research area.

In the field of dosimetry, the Asian Radiation Dosimetry Group (ARADOS) initiative, which is a voluntary network launched by Korea, China and Japan 2015, has the objective of establishing a platform for promoting the research and development among Asian countries in the field of ionising radiation.

In the field of emergency response and recovery, several international organisations have established networks to favour the exchange and harmonization of preparedness among the countries. NEA has set up a standing working party on nuclear emergency matters with a focus on the organisation of the INEX exercises covering the different phases of the emergency and recovery. WHO has established the collaboration network REMPAN, a communication platform to share the information and to advocate for the radiation-emergency related activities of the network member institutions. The IAEA helps maintaining and strengthening effective emergency preparedness and response capabilities on a national and international level, through the development of safety standards, guidelines and technical tools and training to assist Member States in building the capacity for emergency response. IAEA has a well established programme on environmental modelling and impact and risk assessment for man and environment and on site and environmental remediation. They have a health care support programme (from nutrition interventions to cancer diagnosis and treatment, to quality assurance for the use of radiation in medicine for safe and accurate treatment of conditions such as cancer.) Collaborations with the European research platforms have already been set up and will be further developed within this Partnership.

This Partnership will establish links and, if appropriate, collaborative and/or appropriate coordination actions with these different networks, thus further promoting scientific debate and optimisation of resources.

Integration of social sciences and humanities (SSH) in PIANOFORTE

The integration of SSH in the PIANOFORTE Partnership will be highly facilitated by the contribution of the SHARE platform and the preparatory work involving SSH performed when establishing the JRM under the CONCERT EJP auspices. Research and innovation in radiological protection needs to be better aligned with the values, needs and expectations of society in order that scientific research and innovation across ionizing radiation applications and scenarios can reach its stated goals. Societal perspectives on research, policy and practice related to ionizing radiation must be acknowledged and accounted for, to ensure the effective development and integration of RP research and innovation, to inform decision making and to co-produce innovations that are responsive to, and acceptable to, citizens.

Three major areas of work are therefore critical: understanding existing approaches to RP research and associated systems at the explicit level of societal values, needs and expectations; identification of barriers and routes to better alignment between RP research and innovation and those societal dimensions; and new methods to effect RP integration with society. These research lines have the aim of inciting more socially responsive and ethically sound processes and outcomes that will lead to a step-change improvement in the radiological protection system.

In PIANOFORTE, we intend to promote, through the Open Call process, new approaches to the integration of societal views and, crucially, effective means to translate between technical and social arenas. Without this, we put at risk the technical research programmes that are unable to translate into policy and action.

Gender dimension in PIANOFORTE's research content

Sex and gender issues referring to biological characteristics will be carefully taken into consideration in R&I activities of PIANOFORTE. With respect to radiological protection, differences in response to radiation exist between men and women and ensuring gender equity will form one of the research priorities to be included in open calls for projects. The risk of radiation-induced cancer shows a varying pattern between the sexes also in relation to age at exposure. The gender/age mechanisms must be better understood in order to provide optimal protection. For example, male-female differences in anatomy will be considered in dosimetry where sex-specific phantoms will be used for dose modelling or determination, simulations and calculations. Research on the social and cultural dimensions of radiation protection will be conducted using professional guidelines on ensuring equality, diversity and inclusion across all research practice. For example, the need to understand the impact of gender on risk perception, and in explaining participation in citizen science activity.

Open science implementation and Data Management Plan

Open science is a central theme within PIANOFORTE, and an effective data management (DM) programme will be a key part of this. DM will be managed through a dedicated Work Package (WP5), with the overall aim to establish a culture of effective management of the data and research outputs according to the 'FAIR' principles, so that the data are findable, accessible, interoperable and reusable, in order to facilitate effective open, exchange between researchers, stakeholders and policymakers.

A number of different types of data are expected to be produced during PIANOFORTE. Proposals submitted to the open calls will be required to provide clear details of the types of data they will produce – expected chiefly to be experimental, observational and numerical in nature, in the form of epidemiological and radiobiological data sets as well as new models. It is envisaged that the size of the data resources will vary in several orders of magnitude according to the funded projects, from the very small in pilot style or proof of concept studies in the more novel disciplines, to 'big data' in its truest form for example for multiomic radiobiological studies.

The practical implementation of DM within PIANOFORTE will be through early production and adoption of all project partners of the data management plan (DMP). The full details will be elaborated within the first 6 months of the project. However, in brief, a key aspect of PIANOFORTE, and one which will form part of the criteria for project selection, will be whether the proposals for production, storage and other aspects of data management within the projects meet the 'FAIR' criteria – with support from a number of resources including the FAIR sharing portal and the RDA FAIR data maturity model.

In terms of findability, full, open access publications which include the raw data, either within the publications or with a link to a permanent record, e.g. a digital object identifier (doi), will be required. Early open sharing of research data, models, and other research outputs will be encouraged (including through preregistration, presentation at international conferences and preprints), as will sharing of new data in the context of existing knowledge. At very least, research data will be required to be made available to the community when the associated manuscripts are published. Only open call proposals which clearly describe how they will meet these criteria will be considered for funding.

For both the calls and the administrative and organisational aspects of the project, details of the stakeholders and their contributions, training outcomes (courses and participants), and infrastructure related information, are also expected to be collated – such information is of its own value to the wider community and as such will also be considered under the DMP. Restricted data are not expected to be produced as part of the projects, however, should this happen, WP 5 will work closely with the project partners to ensure as much information as possible is made freely available to the community.

It is expected that the PIANOFORTE DM plan will build on use of existing data sharing resources including the STORE facility, which already contains a lot of relevant data and is well used by the community. This will further underpin accessibility and reusability of data.

With the wide-ranging research programme envisaged within PIANOFORTE, development of shared standards for data and research output interoperability will be essential. While a huge amount of work has been carried out in support of interdisciplinary working within the radiation protection research community, not least through CONCERT, at the time of writing, as in many other fields, there is not yet a standard definition of data interoperability. As such, a critical part of the work of WP 5 will be the standards and definitions relating to the vocabulary of data to facilitate interoperability.

In terms of data reusability, creative commons licensing has been an important recent development in recent years, as it allows reuse, reanalysis, redistribution and expansion of the licensed item, as long as the original attribution is

retained. The available options will be explored, however, it is anticipated that a creative commons style model will be implemented, as this will facilitate the most open possible model for reuse of the data produced.

It is also expected that novel approaches to DM will be developed under PIANOFORTE. For example, in recent years, huge advances have been seen in artificial intelligence in the field of radiomics. PIANOFORTE include tasks in different WPs which will together focus on the unification of AI activities, and then the implementation of relevant aspects of AI for data and then knowledge management.

PIANOFORTE will support these objectives through the DM plan, as well as through a number of specific tasks focused on the promotion of harmonisation of quality standards, practises and protocols, development of a strategic work plan for utilisation and novel uses and interoperability of infrastructures including the data infrastructures. A specific task includes establishment of an oversight committee for the Infrastructure tasks, which will include oversight of the DM aspects detailed here, in order to facilitate the engagement, input and support of the wider radiation protection community. Promotion of the developed approaches and provision of training for all project partners will also be an important objective, and a specific attention will be paid to ensure a clear link between DM and knowledge management outputs and cultural development within the project as a whole.

2. Impact

2.1 Project's pathways towards impact

Through the implementation of research projects which have been selected through the open call system, PIANOFORTE will create outputs in various forms such as publications, reports, database, innovation, training packages, prototypes, trained students, infrastructure network, protocols, models, tools, codes, etc. It will be the main task of WP6 to exploit and disseminate all these knowledge in the most appropriate form to the different target groups which are defined as follows:

- Government authorities (European and national policy makers, regulatory authorities, other national, regional and local authorities).
- Experts in radiation protection and other related disciplines (belonging to international and European organizations), academia (research centres, universities)
- National Program Owners / Managers
- Civil society and affected communities: civil society organizations (e.g. medical patients' organisations), radiation protection practitioners (e.g. medical professional associations medical practitioners, nuclear and no-nuclear industry workers), citizens (e.g. citizens science networks; representatives of communities living in areas near legacy sites and of municipalities with nuclear facilities), NGOs and media.
- Radiation protection platforms including data/infrastructures and E&T communities.

The exploitation and dissemination of PIANOFORTE outputs as well as an appropriate and tailored communication to the target groups, under the auspices of WP6, will contribute to the following outcomes :

- To the profit of the scientific community involved in radiation protection research and radiation protection experts:
 - Improvement in the understanding of the link between exposure characteristics and ionising radiation effects;
 - Better knowledge of the main characteristics of the variability in the radiation response;
 - Progress in the integration of the different components of radiobiology paving the way to advanced integrative radiobiology;
 - Improvement of techniques used to direct radiological population monitoring and indirect monitoring through environment sampling;
 - Implementation and use of big data and artificial intelligence techniques in certain fields of radiation protection (such as medical applications, emergency preparedness). Awareness of these techniques among the whole community.
 - Trained young researchers and career upgrades of researchers and experts in radiation protection;
 - Creation of a network of radiation protection research facilities;
 - Creation of a FAIR database that will allow future use of data gathered during PIANOFORTE.
 - Raising awareness among the radiation protection research community of the importance and added-value of the inclusion of social sciences in research projects.

- strengthening the integration between the six research platforms in radiation protection and thus the capacity of the community to work in a multidisciplinary framework, which is essential to face the scientific and technical challenges related to the improvement of radiation protection and the development of innovations based on the detection or use of ionising radiation.
- To the profit of Government Authorities:
 - Support of the implementation of the Basic Safety Standards Directive in the Member States by:
 - improving risk estimates for the justification of practices and optimisation of the radiological protection of all persons concerned;
 - improving radiation protection of workers and the public, in normal and accidental situations, by improving the scientific basis to recommendations, procedures and tools.
 - better acceptance of radiation protection measures in normal and accidental situations
 Improvement of the understanding of public perception on radiation risk.
- To the profit of practitioners:
 - In general, improved practices and recommendations for radiation protection professionals,
 - In the field of medical applications:
 - New knowledge providing elements to decision-making and risk-benefit analysis.
 - Transfer of new optimised medical procedures into clinical practices.
 - Elements to pave the way to personalised medicine.
- To the profit of civil society and citizens:
 - Improvement of the radiation protection of patients and of the general public in normal and accidental situations.
 - Better knowledge on radiation risks.

In a longer term and in accordance with the European global policies (Beating Cancer Plan, Green Deal), the impact and benefits of PIANOFORTE to European Union citizens and society at large are expected to be the following:

- Improving quality of life and health of European patients through the development of new and optimised diagnostic and therapeutic approaches;
- Contributing to the well-being of European citizens by contributing to a better protection of health (public, workers, patients) and of the biodiversity against the effects of ionising radiation by improving risk estimates for the justification and optimisation of radiological protection in various exposure situations;
- Facilitating harmonisation efforts in Europe, in support of the implementation of the European Basic Safety Standards;
- Improving the anticipation and the resilience of Europe in case of radiological/nuclear event;
- Promoting excellence in science and creating high-quality knowledge;
- Generating innovation-based growth through the development of new techniques in both the radiation protection and medical field;
- Delivering on citizens concern and better addressing societal challenges by inclusion of Social Sciences approaches in the definition, conduct and dissemination of new knowledge and participatory approaches;
- Strengthening human capital by fostering education and training actions in the field of radiation protection and associated sciences;
- Fostering transnational and international collaboration, exchange and network, especially by easing the share of radiation protection related research infrastructures at the European and International levels;
- Providing scientific knowledge that can be used in the context of work aimed at improving recommendations and practices in radiation protection, in particular those developed by international institutions such as the IAEA, UNSCEAR and ICRP. This will contribute to maintaining Europe's recognized reputation of excellence in the production of knowledge in the field of radiation protection;
- Finally, thanks to the links established with other European programmes, enlarging the network of organizations involved in the protection of man and the environment in general, to better share practices, to better address the immense challenge of co-exposures and finally to work in a complementary and optimised way.

Summary of the PIANOFORTE's pathways to impact and the indicators that will be used to monitor progress are provided in Table 3 and intervention logic is shown on Figure 2.

Table 3: Summary of the different objectives of PIANOFORTE

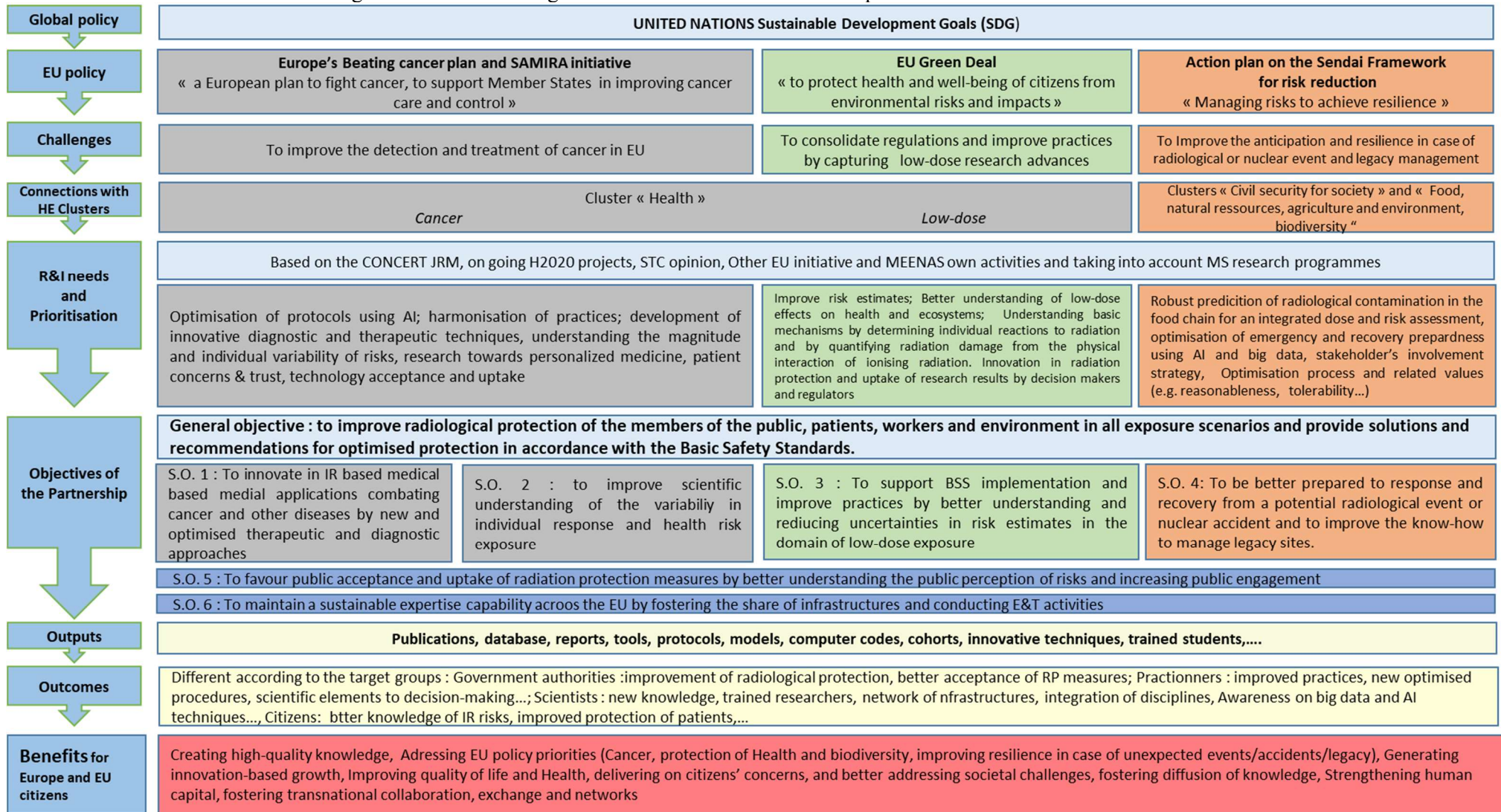
European Partnership: PIANOFORTE		Monitoring and evaluation framework, October 2021			
Overall vision: PIANOFORTE is intended, through a competitive open call system, to consolidate and strengthen the EU's research and innovation capacity for improving radiation protection of the population, workers and the environment. We aim to further enhance the science-based best level of protection in relation with the safe use of ionising radiation for both power and non-power applications with a special emphasis on diagnostic and curative use of radiation in medicine and in answer to societal needs.					
Objectives		Indicators	Data source and methodology	Responsible/When	Baseline and target
General objective	To improve radiological protection of members of the public, patients, workers and environment in all exposure scenarios and provide solutions and recommendations for optimised protection in accordance with the BSS.	Number of expected outcomes mentioned in NRT-01-09 and addressed during the Partnership	Project data	Coordinat. Yearly.	Target : all
Specific R&I objectives	To innovate in ionising radiation based medical applications combating cancer and other diseases by new and optimised diagnostic and therapeutic approaches improving patient health and safety and supporting transfer of the R&I outcome to practice	- number of medical applications related radiation protection accepted proposals in answer to calls - number of peer reviewed journal papers in mentioned domain -number of clear demonstrations of new or optimized approaches that improve patient health and safety	MEENAS representative Id Id	WP2 WP2 WP2	2 - 3 3 - 6 2 - 4
	To improve scientific understanding of the variability in individual radiation response and health risk of exposure.	- # scientific demonstrations or validations of cause-effect relationships of variability in radiation sensitivity - number of peer reviewed journal papers in mentioned domain - % projects including ethical considerations	MEENAS representative MEENAS representative Funded projects' coord. and WP2	WP2 WP2 WP2	5-10 5 - 10 Target ²
	To support regulations and implementation of the BSS and improve practices in the domain of low dose exposures of humans and the environment by better understanding and reducing uncertainties in risk estimates.	- number of research activities clearly in support of BSS - number of interactions with regulators on this topic -number of scientific demonstrations of causes of uncertainty - number of scientific demonstrations of reductions of uncertainty - number of research papers in this domain	MEENAS representative Id. id id id	WP2 WP3 WP2 WP2 WP2	5 - 10 5- 10 4 - 8 3 - 6 - 5 – 10

² 100% with documented ELSI/ELSA project component and/or transdisciplinary component that addresses societal relevance and ethical acceptability

	To provide the scientific basis to recommendations, procedures and tools for assuring better preparedness to response and recovery from a potential radiological event or nuclear accident and to improve the know-how to manage legacy sites.	<ul style="list-style-type: none"> - number of research papers in this domain - number of occasions that scientific progress is expected to serve as direct input for recommendations, procedures and tools for better preparedness and response and recovery - clear demonstration of improved know-how and tools to manage legacy sites (#) - Number of organized training events and people trained (ensuring a balance between institutional, academic, and non institutional representatives) 	MEENAS representative Id Id Id	WP2 WP2 WP2 WP2	3-6 5-10 2 - 4 1- 2
Operational objectives associated to R&I objectives	Define the themes of the open calls and a dedicated prioritization process to address the research challenges associated with the 4 topical specific objectives.	-Timely organisation of consultations with Consortium members and other stakeholders (minimum 1 month reserved for providing input).	WP2 leader	WP2	-Timing of different steps of the calls being kept
	Launch open calls to address the priority research topics and with a particular aim of embarking with a variety of AE and TP.	<ul style="list-style-type: none"> -Number of open calls launched -Number of strategic operational outcomes achieved through calls 	Project data	WP2/WP7	-Target: 3 -Target: All
	Unify AI activities across topical fields to create a focal point between AI research and radiation protection and to further develop these topics in the different application areas of radiation protection with a focus on security and robustness	<ul style="list-style-type: none"> -Number of Meetings between the radiation protection (RP) community and the Artificial Intelligence (AI) / machine learning community (target: minimum two). -Number of AI-focussed tasks in open call projects. 	Project data	WP2	-1 meeting with the AI community - 2-4
	Update the JRM and associated priorities based on the updated radiation protection platforms' SRAs, the evolving societal needs and the results of already funded projects.	-Publication of the updated JRM.	Project data	WP2	Target: 1
Specific Integration Objectives	To maintain a sustainable expertise capability on radiation protection issues across the EU by fostering the availability, the use, the sharing and the optimization of existing state-of-the-art infrastructures at European level and beyond, and conducting education and training activities.	<ul style="list-style-type: none"> -Number of infrastructures identified and integrated into the WP5 SWOT analysis. -Number of funded projects making use of key infrastructures. -Attendance levels of infrastructure related training courses and use of related material. 	Project data	WP5	-Targets: >10 -All funded projects ->25 attendees over 5 years
	To involve all the relevant stakeholders at the different stages of the implementation of research projects and assure efficient dissemination, knowledge management and uptake of results	Number of inputs from stakeholder groups to each round of prioritization (periodically, increasing in total number of inputs, as well as diversity of stakeholder groups providing inputs).	Project data	WP3	Targets per call: 2-3 online consultations 1 SAB recommendation 1-5 recommendations

					from connected entities
Operational objectives associated to R&I objectives	Create a FAIR data culture, with regard to findability, accessibility, interoperability, and reusability of the generated data and thus enabling open science and enhance effective exchange of data and information between different stakeholders and policy domains.	-Number of collaborations with external data platforms for the storage of data from the Partnership (periodically, target all data of Partnership). -Easy and free access to data generated from public financed projects and the Partnership as a whole.	Project data	WP5	-Targets: At least 1 data platform -Data from all projects funded through open calls
	Ensure long-term sustainability of excellent European infrastructure for radiation research, easy access for researchers and students to infrastructure and data in collaboration with SNETP and NRT-01-12	-Total number of researchers using radiation protection research infrastructures in Europe during the partnership (annually, increasing). -Total number of FAIR data sets, provided for information and shared with the community to enable open science (annually, increasing). -Total number of infrastructure based interactions with NRT-01-12.	Project data	WP5	Targets: - 5 in year 1; 20 by year 5 -All project data sets: 5 in year 1; 20 by year 5 -3 in year 1; 10 by year 5
	Set up and foster Education and Training activities in all the relevant fields of activity of the Partnership and implement a long-term strategy for sustainable effective and efficient education and training in radiation protection and related disciplines	- Number of scientific courses per year - Number of mobility grants per year - Scores from evaluation questionnaires by participants of E&T activities. -Integration of early career researchers : the pan-European network of junior nuclear researchers and professionals	Project data	WP4	5-20 10-20 High score Network established
	Strengthen European leadership at the international level for research and innovation in radiation protection research by establishing links with other international organisations.	-Number of relevant international organisations and initiatives identified and contacted	Project data	WP3	10-15 for continuous SAB 1-10 for connected entities (point of contact
	Foster public engagement in R&I.	-Number of participants of public engagement events and opportunities of effective interaction and collaboration	Project data	WP6	4-10 5-8
	Effectively and transparently communicate and disseminate knowledge produced by the Partnership, ensuring stakeholders accessibility to results and foster the regulatory uptake of knowledge produced under the Partnership	-Number of scientific communications (including publications and bibliometric analysis; oral/poster presentations) -Number of other communications including social media(including reports in non-scientific media; published policy briefs) -Number of Partnership events (annually, target 1 main event per year). - Number of followers of the Partnership (website views and/or social media followers)	Project data	WP6	20-100 5-15 5-15 500-1000

Figure 2: Intervention logic of the PIANOFORTE Partnership for Radiation Protection Research



2.2 Measures to maximise impact - Dissemination, exploitation and communication

Communication, dissemination, exploitation of results and information sharing are key success factors in achieving the goals of the Partnership. This is why these requirements have been integrated into all levels of this proposal – into the specific objectives, but also in the governance structure by identifying a WP that explicitly focus on these tasks (WP6). Communication with policymakers, the scientific community, practitioners, patient groups, other stakeholders and the wider public will be two-way, with partners both providing and requesting information. Regular mapping of the stakeholders together with already existing radiation protection networks will allow to reach out to society and show the impact and benefits of the radiation protection Partnership. A dissemination strategy and a plan for access to and exploitation of the results with early ideas of their implementation will assure transfer of knowledge and results with the aim to enable the European society to use and take up the Partnership outcomes. This includes improved and better emergency preparedness, better clinical procedures resulting in better patient care and reduced health care costs as well as improvement of European industry in all fields of radiation protection purposes. The dissemination strategy will make available the know-how, products and technologies to the identified stakeholders, or to any other interested, and will be regularly updated during the Partnership's lifetime. As part of Partnership, the effective research translation mechanisms will be developed to focus the radiation protection research outcomes also on societal priorities as much as determined by technical capabilities. Research that aligns social and technical dimensions, and thereby generates robust knowledge, is imperative. This integrated approach requires research and innovation in the following areas:

- new theory on knowledge exchange mechanisms between technical and societal spheres to underpin new practices;
- empirical investigation of effectiveness of, and limitations to, current communicative structures and cultures to identify areas for intervention and action;
- novel forms of citizen engagement, including in the advancement of innovative technological interventions.

The Partnership will promote Open Access of the publications, research data and project developments (*e.g.* models) according to the adopted policy. The intention of the Partnership is, as presented in the objectives, to implement open research policy as much as possible including the broad possibility of contributions from all kinds of research institutions and stakeholders. In case of any restrictions, the reasons for a potential restriction will be reported.

The Partnership for radiation protection deploys a diversity of channels and tools to be used in all actions to maintain a steady dialogue with EU stakeholders and related international activities throughout the lifetime of the Partnership. All information about the Partnership, its dedicated research projects of the open calls and the results will be made available *via* the Partnerships web site. Open access publications will be the norm for scientific publications. Data generated by the Partnership will be FAIR and findable *via* a centralized data library such as STOREdb and made available for risk assessment and research teams for analysis. An ethical and legal framework will be developed to enable the use and re-use of data for different purposes and by different users, while respecting data privacy legislation.

2.3 Summary

KEY ELEMENT OF THE IMPACT SECTION

SPECIFIC NEEDS	EXPECTED RESULTS	D & E & C MEASURES
<p><i>What are the specific needs that triggered this project?</i></p> <p>To improve the prevention, detection and safe treatment of cancer</p> <p>To consolidate regulations and improve practices in domains using ionising radiation by capturing low-dose research advances</p> <p>To improve the anticipation and resilience in case of radiological or nuclear event and the management of legacy sites by providing a scientific basis to recommendations, procedures and tools</p> <p>To provide scientific basis to BSS implementation</p> <p>To attract and train young researchers</p> <p>To ease access of the of radiation protection research infrastructures</p> <p>To improve the understanding of public perception on radiation risk</p> <p>To homogenise radiation protection practices in Europe</p>	<p>What do you expect to generate by the end of the project?</p> <p>Innovations in IR based medical applications.</p> <p>New and optimized diagnostic and therapeutic approaches</p> <p>Better understanding of the variability in individual response and health risk exposure</p> <p>Better understanding and reduction of uncertainties in risk estimates related to low-doses exposures of humans and the environment.</p> <p>Scientific basis to recommendations, procedures and tools related to emergency preparedness and recovery situations</p> <p>Trained young researchers and upgrades of researchers</p> <p>Creation of a FAIR Database gathering PIANOFORTE data</p> <p>Improvement of techniques for measuring people and the environment</p> <p>Creation of a sustainable network of infrastructures for RP research</p>	<p>What dissemination, exploitation and communication measures will you apply to the results?</p> <p>Open Access publications</p> <p>Production of FAIR Data via a centralized data library (STOREdb)</p> <p>Development on a website regularly up-dated with the main results</p> <p>Implementation of social media channels to present major outputs: Twitter, Youtube, LinkedIn, Facebook, Research Gate.</p> <p>Press releases</p> <p>Publication of “success stories” for major results</p> <p>Presentation in European and international workshops and conferences</p> <p>Organisation of specific events dedicated to the presentation of the funded projects results</p> <p>Annual web meeting gathering PIANOFORTE beneficiaries and Stakeholder board members</p> <p>Development of an ethical and legal framework developed to enable the use and re-use of Data.</p>

TARGET GROUPS

Government authorities (European and national policy makers, regulatory authorities, other national, regional and local authorities).

Experts in radiation protection and other related disciplines (belonging to international and European organisations), academia (research centres, universities)

Civil society and affected communities: civil society organizations (e.g. medical patients' organisations), radiation protection practitioners (e.g. medical professional associations, medical practitioners, nuclear and non-nuclear industry workers), citizens (e.g. citizens science networks; representatives of communities living in areas near legacy sites and of municipalities with nuclear facilities), NGOs and media.

National Program Owners / Managers

Radiation protection Platforms including data/infrastructures and E&T communities.

OUTCOMES

Government authorities:

- Support of the implementation of the BSS by:
 - improving risk estimates for the justification of practices and optimisation of the protection of all persons concerned
 - improving the radiation protection of the workers, patients and public in normal and accidental situations
- better acceptance of RP measures

Experts/Practitioners:

- improved practices and recommendations to professionals
- Transfer of new optimised medical procedures into clinical practices
- Elements to pave the way to personalised medicine

Civil society and citizens

- Improvement of the RP of patients and of the public
- Better knowledge on radiation risk

Scientific community (PM and RP Platforms):

- Awareness of the interest of using big data and IA
- Progress in the integration of the different components of radiobiology
- Raising awareness of the added-value of the inclusion of social science in research projects
- Strengthening the integration of the six RP platforms.

IMPACTS

- Improving quality of life and health of European citizens through the development of new and optimised diagnostic and therapeutic approaches
- Contributing to the well-being of European citizens by improving protection of health (workers, patients, public) and the biodiversity against the effects of IR
- Facilitating harmonisation efforts in Europe in support to the implementation of the BSS
- Improving the anticipation and the resilience of Europe in case of radiological/nuclear event
- Generating innovation-based growth through the development of new techniques in both RP and medical field
- Delivering on citizens concern and better addressing societal challenges by inclusion of social sciences
- Fostering transnational and international exchanges
- Providing scientific knowledge that can be used by international organisations in charge of RP recommendations and therefore contributing to maintain Europe's recognized reputation of excellence in the production of knowledge in the field of RP.

3. Quality and efficiency of the implementation

3.1 Work plan and resources

Work plan

The consortium aims to develop a sustainable structure for promoting and administration of open research calls in the field of radiation protection research for Europe by building the structure on the foundations laid out by 1) the JRM developed during the CONCERT EJP with the help of six radiation protection platforms, 2) the vision to integrate national and European research programmes for radiation protection by co-funding, 3) the participation of national programme owner and manager institutions in a European research consortium and 4) a strong interaction with stakeholders represented by various target groups interested in radiation protection improvement including civil society. Activities of the consortium will focus to directly fund coordinated research projects in an open, fair and transparent manner dedicated to state-of-the art science and tailored to the radiation needs of the various stakeholders.

The six specific objectives of section 1.1 will be reflected in the proposed activities (organized according seven work packages – WPs), with a focus on creating impact. The maximisation of impact will be ensured through a specific work package on dissemination (WP6).

A lot of work for harmonization of radiation protection research in Europe and for establishing interdisciplinary links was done during the H2020 CONCERT EJP. The results of this preparatory work should now be used to ensure that all Radiation protection stakeholders are properly involved in establishing the research priorities, and that they all will benefit from the results of this Partnership. The focus should therefore be on the research and innovation efforts, and the scientific and technological advancement that will form the bases of all improvements in radiation protection. This scientific and technological work will be based upon the needs identified by the radiation protection platforms and described in the joint roadmap, as well as input from the radiation protection stakeholders and the national programmes. This focus on the much needed scientific and technological developments will also be reflected in the budget. The major part of this budget should be used for the open calls.

A simple structuring of activities is proposed, with a limited number of work packages (Table 3.1a) and associated tasks. The deliverables will be clear and concise to optimize their dissemination and uptake by the stakeholders and data will be open to the research community. The number of deliverables should be optimal for their purpose, allowing adequate monitoring of the project. The project management will be executed in one dedicated work package, WP1. Figure 2 presents the interaction between the different work packages while Figure 3 shows the timing of the different work packages and associated deliverables. A specific work package (WP8) will be created during the Partnership to administratively host the selected project.

Table 3.1a: List of work packages

WP No	Work Package Title	Lead Participant No	Lead Participant Short Name	PMs	Start Month	End month
1	Management & Coordination.	1	IRSN	170	1	60
2	R&I Calls	10	SCK CEN	148,75	1	60
3	Stakeholder engagement	3	BfS	121,5	1	60
4	Education and Training	4	SU	61	1	60
5	Infrastructure and Data Man.	6	DH-PHE	91,5	1	60
6	Diss., Comm., Impact	13	SURO	85	1	60
7	Open Calls organisation	729	NCBR	57	1	60
			Total	734,75		

Figure 3: Timing of the different work packages of the PIANOFORTE Partnership

	YEAR 1												YEAR 2												YEAR 3												YEAR 4												YEAR 5											
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4																												
WP1 Project coordination and management																																																												
meetings (kick-off, periodic meetings)							D1.1, D1.2									D1.3, D1.4																																												
Task 1.1 Coordination and management																																																												
Task 1.2 Executive and AG meetings																																																												
Task 1.3 Updating the AWP																																																												
Task 1.4 Negotiation of projects funded																																																												
Task 1.5 Funding decision process for integration activities																																																												
Task 1.6 Monitoring of the progress of PIANOFORTE																																																												
WP2 Research and innovation projects																																																												
							D2.3.1									D2.1.1																																												
Task 2.1 Setting-up the research priorities																																																												
Task 2.2 Update of the Joint Road Map																																																												
Task 2.3 Scientific follow-up of projects																																																												
Task 2.4 Integration of AI in Radiation Protection																																																												
WP3 Stakeholder engagement																																																												
Task 3.1 International Partners and priority setting							D3.4, D3.5																																																					
Task 3.2 Partnership projects																																																												
Task 3.3 Stakeholder engagement planning and management																																																												
Task 3.4 Direct Stakeholder engagement plan																																																												
Task 3.5 Addressing stakeholder interests of DG Health: RP and proton therapy																																																												
WP4 Education and Training																																																												
Task 4.1 Support of targeted courses																																																												
Task 4.2 Support of mobility for MSc/PhD																																																												
Task 4.3 Support of continuous professional devopt																																																												
Task 4.4 Devpt of sustainable radiation protection E&T																																																												
WP5 Infrastructures and data management for radiation protection research																																																												
Task 5.1 Establish an infrastructure oversight/stakeholder committee																																																												
Task 5.2 Providing support for cross-national access to infrastructure																																																												
Task 5.3 Promoting harmonization of quality standards, practices and protocols																																																												
Task 5.4 Developing a vision and strategic work plan for utilisation, novel uses and inter-operability of key RPR infrastructures																																																												
Task 5.5 Developing a plan and vision for data management and approaches to exploitation of archived data																																																												
WP6 Knowledge management, communication, dissemination and impact creation																																																												
Task 6.1 Knowledge management																																																												
Task 6.2 Communication and dissemination																																																												
Task 6.3 On-line communication tools																																																												
Task 6.4 Impact creation																																																												
WP7 Organisation and management of PIANOFORTE R&I Open Calls																																																												
Task 7.1 Setting up a Calls Secretariat																																																												
Task 7.2 Preparation of the Open Call documents and launch of the calls																																																												
Task 7.3 Implementation of the open calls																																																												
Task 7.4 Quality management of open research calls procedures																																																												

Table 3.1b: Work package description

Work package number	WP1			Lead beneficiary				IRSN
Work package title			Partnership coordination and management					
Participant number	1	10	3	4	6	13	29	
Short name of participant	IRSN	SCK-CEN	BfS	SU.	DH-PHE	SURO	NCBR	All other POMs
Person months per participant:	150	2	2	2	2	2	3	28x0,25 = 7
Start month	1			End month		60		

Objectives

The purpose of WP “Consortium coordination and management” is to ensure the most effective administrative and financial management of the consortium with a view to reaching a good synergy between the partners. The overall objective of the managerial organisation is to provide the necessary structures for participatory and efficient decision-making and coordination of activities, fluent day-to-day management including flow of information and financing (including the establishment of contracts with PIANOFORTE grantee consortia and PIANOFORTE external contractors), reporting to EC, as well as providing support and guidance on consortium activities. The PIANOFORTE Partnership will be coordinated by IRSN.

Description of work

Task 1.1: Overall coordination and legal, contractual, administrative and financial management (Lead: IRSN).

The coordinator will be responsible for the coordination of overall legal, contractual, administrative and financial management of the consortium, taking care of the day-to-day management of the project. The coordinator will monitor the compliance by beneficiaries with their obligations under the grant agreement, act as the contractor for the EC, is the single contact point and intermediary between all partners and the EC, and ensure that all participant organisations sign form A “Accession to the Grant Agreement”. The coordinator will, in close cooperation with the members of the PIANOFORTE Executive Board (ExB), monitor and control the progress of the project and review the deliverables and reports to verify consistency with the project tasks before transmitting them to the EC. The coordinator will collect information about achievements in relation to objectives from the partners when milestone and deliverables are due in order to ensure efficient follow-up of the project progress.

The coordinator is responsible for preparing and updating the Consortium Agreement, which regulates the internal organisation and management of the consortium, as well as any other legal documents (e.g. Memorandums of Understanding) that regulate the relations of the consortium with other important stakeholders if necessary. The coordinator is responsible for the overall financial management. Its duty is to administer the EC financial contribution regarding its allocation between beneficiaries and activities, in accordance with the grant agreement and the decisions taken by the consortium. The coordinator shall ensure that all the appropriate payments are made to the other beneficiaries without unjustified delay. The coordinator will keep the records and financial accounts making it possible to determine at any time what portion of the EC financial contribution has been paid to each beneficiary for the purposes of the project. The Coordinator will inform the EC of the distribution of its financial contribution and the date of transfers to the beneficiaries, when required by the grant agreement or by the EC. The coordinator will obtain certificates on financial statement from each participant, when required, take care of the necessary budget transfers and payments, and collect financial information from the partners every 12 months in order to ensure efficient follow-up of the project resources. The beneficiaries will notify the coordinator immediately on any major changes concerning unexpected difficulties in work, the change of legal status of contractors or any such condition that would compromise the schedule or content of the project work plan. The PIANOFORTE General Assembly and the contractors will actively search for alternative arrangements.

Task 1.2: General Assembly and Executive Board meetings (Lead: IRSN, ExB members, General Assembly members)

The kick-off meeting will be organised in the beginning of the project (month 1). The periodic meetings are scheduled in connection with reporting periods (close to months 9; 21; 33; 45; 60). The periodic meetings include closed sessions for the entire consortium & open sessions for participants outside the consortium. The Executive Board (ExB: coordinator, WP Leaders, MEENAS representative) will organise its meetings as often as necessary, approximately 3-4 times per year (virtual meetings). It ensures the successful management and execution of the project by taking care of the coordination and correct implementation of the scientific project tasks of the respective work packages. The ExB shall make decisions on all matters related to the structure of the consortium, restructuring of the Work Packages, for which no contract amendment is needed, and the preparation and final approval of the reports and deliverables (with the exception of those related to financial matters) prior to the submission to the EC. The ExB reports to and is accountable to the General Assembly.

The General Assembly (GA: coordinator, all participant members nominated by the Member States as POM, plus representatives of the six participating European RTD platforms MELODI, ALLIANCE, NERIS, SHARE, EURAMED and EURADOS) will have its meetings as often as necessary, at least once a year. The GA is the ultimate decision-making organ of the consortium on the financial level whose responsibility is to make sure that the project's objectives related to open scientific and integration calls are achieved. The GA shall make decisions on all budget-related matters, funding PIANOFORTE Grantees as a result of open calls, administration of funded coordinated projects and on matters related to national co-funding. The GA finally approves reports and deliverables related to financial matters prior to the submission to the EC. Decisions of principal character, which will affect the entire consortium, will be made by the GA, e.g. inclusion of new partners, amendments to the work Programme, and amendments to the Consortium Agreement.

Task 1.3: Updating the rolling annual work plan (*Lead: IRSN, ExB members, GA members*)

The ExB will be responsible for the timely update of the annual work plan, based on developments in the respective WP's and the coordinator to present the annual work plan to the EC for approval. The annual work plan includes a detailed description of the work for the next 12 months plus a brief description of the anticipated work for the following 12 months. The updated annual work plan has to be submitted to the Commission not later than three months before the end of the actual 12- months period for approval. The coordinator will discuss the annual work plan with the Commission and gives feedback to the WP Leaders.

Task 1.4: Negotiation of projects to be funded through PIANOFORTE Open Calls (*Lead; IRSN; ExB members, GA members*)

On the basis of the Ranked List of Eligible Projects (RLEP) from WP7 and of the individual funding schemes proposed by the respective applicant consortia, the coordinator calls for a "PIANOFORTE Funding Meeting" of the GA. A representative of the EC will be invited. The objective of the meeting will be to achieve consensus on the funding mix to be applied to the respective applications, using the flexibility offered by the Partnership co-fund instrument but also ensuring strictly the implementation of the following criteria:

- Within the limit of the amount of EC grant available for the RTD call (as specified in the annual work programme approved by the EC), applicant consortia will be funded in the order of the RLEP;
- The Funding Meeting will seek to maximize the level of co-fund for each applicant consortium, in order to fund as many projects from the RLEP as possible, and to maximize the overall amount of research activities supported by PIANOFORTE, thus benefitting European integration and PIANOFORTE objectives in line with Horizon Europe more general objectives. Co-fund resources are in kind resources made available by PIANOFORTE Members (and their AE's) participating in the applicant consortia, and cash resources are those provided by participating funding agencies and/or any other PIANOFORTE partner. Any co-fund resources committed to the proposed research projects from outside PIANOFORTE are valuable in the sense that they contribute to enhance the "value for money" of such projects from PIANOFORTE point of view, but they do not constitute "eligible costs" for the attribution of a part of EC EURATOM grant.
- The funding meeting may allow a level of co-fund below the minimum of 35% for some individual applicant universities or institutes which are "third party" candidates in an applicant consortium, if their scientific evaluation suggests that their added value justifies the exception, and provided that the applicant consortium as a whole remains at a level of co-fund above the threshold of 35%.
 - The funding meeting will make sure that the final funding decisions for a specific PIANOFORTE open research call is in accordance with its repartitioning decision at the end of the Partnership process.

On the basis of the consensus reached in the PIANOFORTE Funding Meeting, and with the support of WP7, the Coordinator will prepare draft contracts between PIANOFORTE and the respective applicant consortia to be

funded. These PIANOFORTE Grant Contracts (PGC) will follow the applicable legislation of the Coordinator country, are drawn in English language and specify the following:

- Scope of action and deliverables (with associated time table) of deliverables expected from the PIANOFORTE Grantee
- Amount of EC EURATOM funding to be granted to the Grantee, with the foreseen payment schedule
- Amount of co-fund resources to be spent by the Grantee on the proposed research project, with the related expected justifications, both for cash resource (contract with national POM) and in kind resource (cost statements by PIANOFORTE members, and their AE's where applicable).

Contracts will be signed according to French law. The resulting draft PGC's are submitted for validation to the PIANOFORTE GA before their signature by the Coordinator on behalf of the PIANOFORTE Partnership.

Task 1.5: Funding decision process for integration activities listed in the approved annual work programme (Lead: IRSN; ExB members, GA members)

The Coordinator proposes to the ExB funding decisions with respect to the implementation of integration activities, listed in the relevant annual rolling work programme, by one or more PIANOFORTE member(s). The decision defines the deliverables to be produced and the associated calendar, the co-fund level that should be as high as possible to maximize the impact of the PIANOFORTE project as a whole, and the maximum amount of EC PIANOFORTE grant to be allocated to the concerned integration actions (max 65% of estimated eligible costs). This decision then constitutes the basis for the financial relation between the Coordinator and the concerned PIANOFORTE member(s) for the implementation of the relevant integration action(s). When it is suggested that an integration action be performed, in part or in total, by one or more external entities, the coordinator requests the approval of the GA to define the budget, including its co-fund part, to be attributed to such an activity. On this basis, the Coordinator launches a European public procurement procedure to identify and contract with such entities for the delivery of the required services. All financial relations with the PIANOFORTE external contractors are dealt with by the Coordinator. Technical relations for the performance of the contract are followed by the relevant WP, which approves the corresponding deliverables and informs the coordinator in view of the payment procedure.

Task 1.6: Monitoring of the progress of the Partnership (Lead: IRSN, ExB members)

Monitoring of the progress of the Partnership is a vital element of operational and financial management of the Partnership. The monitoring process implies that the governance body regularly check how the planned actions described in the Annual Work Plans are being implemented in order to identify potential problems and take corrective action in due time. This entails the systematic and continual collection, analysis and use of management information to support effective decision-making. WP leaders will be responsible of monitoring the Key Indicators (KI) defined in section 2 and to report on them at the ExB level. These KI will be examined by the ExB twice a year in order, if necessary, to take corrective actions.

Deliverables

- D1.1 – First periodic report to the EC in accordance with the provisions of the consortium contract (M9)
- D1.2 – Annual work programme for year 2 (M9)
- D1.3 – Second periodic report to the EC in accordance with the provisions of the consortium contract (M21)
- D1.4 – Annual work programme for year 3 (M21)
- D1.5 – Third periodic report to the EC in accordance with the provisions of the consortium contract (M33)
- D1.6 – Annual work programme for year 4 (M33)
- D1.7 – Fourth periodic report to the EC in accordance with the provisions of the consortium contract (M45)
- D1.8 – Annual work programme for year 5 (M45)
- D1.9 – Fifth periodic report to the EC in accordance with the provisions of the consortium contract (M57)
- D1.10 – Final report of the consortium (M60)

Milestones

- M1.1: Negotiations with successful applicants of the first PIANOFORTE open research call finalised and grants signed (M18)
- M1.2: Negotiations with successful applicants of the second PIANOFORTE open research call finalised and grants signed (M29)
- M1.3: Negotiations with successful applicants of the third PIANOFORTE open research call finalised and grants signed (M41)

Work package number	WP2		Lead beneficiary				SCK CEN	
Work package title	Research and innovation projects							
Participant number	10	20	52	27	32	41	31	
Short name of participant	SCK CEN	NNK	SSM	CIEMAT	JSI	ENEA	EK	
Person months per participant:	40,75	12,5	5	7	4,75	4,75	4,75	
Participant number	26	39	55	30	24	1	18	
Short name of participant	STUK	INSERM	NCRPP	ISS	NCSR	IRSN	OVGU	
Person months per participant:	8	2,5	5,75	5,75	12,75	5,75	5	
Participant number	37	8	29	All other POMs				
Short name of participant	CEA	U. Exeter	NCBR	22x0,75=16,5				
Person months per participant	3,25	3	1					
Start month	1			End month		60		

Objectives

The Partnership for Radiation Protection Research is intended, through a competitive open call system, to consolidate and strengthen the EU's research and innovation capacity for improving radiation protection of the population, workers and the environment. The focus should therefore be on the research and innovation efforts, and the scientific and technological advancement that will form the bases of all improvements in radiation protection.

This Work package will be the basis of the whole project, by co-developing research priorities based on the specific objectives defined. These priorities will form the basis of the Open Research Calls.

The call priorities should be aligned with the priorities from participating Member States and further input from radiation protection stakeholders, including the broader public. A multi-disciplinary, multi-stakeholder and transnational approach is needed in this exercise.

The R&I projects selected through the competitive Open Calls will handle several aspects linked to these priorities, so it is important that these projects' consortia work together. They should inform each other continuously of their results to maximise the projects' impact. In particular, continuous cooperation between the projects from the start, particularly in relation to stakeholder engagement and dissemination, is very important. This will be assured by a specific task in this Work package.

Another task of this Work package is to perform an update of the Joint Roadmap for Radiation Protection Research developed within the EJP-CONCERT, considering on the one hand advances and developments that impact the future research needs and on the other hand the emergence of new scientific challenges, research results or societal concerns.

A final task in this Work package will coordinate, harmonize and stimulate activities related to the application of Artificial Intelligence (AI) and big data approaches in RP topical fields.

Description of work

Task 2.1: Set up the research priorities for 3 open calls (Lead: NNK; Participants: CIEMAT, SSM, SCK CEN, all POMs, all Platforms).

The main objective of this task is to define research priorities for radiation protection research which will serve the launch of the open calls for research and innovation projects for the duration of the Partnership. Calls must reflect a multidisciplinary and transnational approach, and priorities should integrate global EU policies and national research programs. In order to achieve an optimal harmonization with the main goals of Horizon Europe the priority setting will be aligned with the 3 pillars (excellent science, global challenges and European industrial competitiveness, innovative Europe) defined by Horizon Europe. The consensual list of research priorities in radiation protection elaborated in this task can be seen as the scientific workplan of the Partnership, and will serve for the preparation of the open calls text, to be launched under the responsibility of WP7.

The major input for research prioritization will come from a) the CONCERT Joint Roadmap for radiation protection research; b) the updated SRAs of the six platforms of MEENAS (MELODI, EURADOS, EURAMED, NERIS, ALLIANCE and SHARE) c) POMs reflecting special national needs with a European interest and d) the views of the EURATOM STC on the CONCERT Joint Roadmap. Furthermore, input and outcomes from other EURATOM-funded projects (e.g., MEDIRAD) and other EU initiatives such as

SAMIRA will also be taken into consideration. JRC involvement in the scientific projects will allow to better develop synergies and complementarities with the EC direct actions carried out by JRC and avoid duplication of efforts between the two programmes. Through collaboration with WP3 and the Stakeholder Advisory Board a continuous communication with radiation protection stakeholders (including also international initiatives such as directed by IAEA, UNSCEAR, NEA-CRPPH-HLEG, NGOS, civil society organisations) will be maintained during the whole prioritization process.

Sub-task 2.1.1. Set up of research priorities (*Lead: NNK; Participants: CIEMAT, SSM, SCK CEN, all POMs, all Platforms*)

Three open calls are planned to be launched during the duration of the project. In order to ensure transparency, inclusion and a good representation of the views and expectations of all interested parties listed above, online consultations and focused round table discussions will be organized in collaboration with WP3. Thereby, national POMs and stakeholders will be invited to actively participate in the prioritization process by expressing their opinion on the suggested research priorities and/or suggesting new ones. Feedback from POMs and stakeholders will be collected and accounted for, both in the definition of research topics to be addressed in the open calls, and in the process of prioritization itself. R&I in support of regulations and implementation of the BSS will be endorsed. Coordination between WP2, WP4 and WP5 will assure harmonization among research activities, E&T and infrastructural guidelines.

The principle of the prioritization process will be uniform for all three calls and will adhere to the approach described above. It will be composed of the following steps, see figure 2:

- a) A first synthesis will be made by the Task partners based on the Joint Roadmap, the NRT 01-09 call, the Horizon Europe priorities, and the evaluation by the EURATOM STC on the Joint Roadmap
- b) A feedback round will be organized with the 6 European Radiation Protection Platforms, for inclusion of their latest Strategic Research Agenda topics
- c) Direct stakeholder involvement will be organized in parallel through collaboration with WP3 in the stakeholder advisory board, through online target group consultations and points of contact to related entities and organisations
- d) Input from POM's for alignment with the national research programmes
- e) Cross check with international initiatives and on-going and planned European projects and other EC actions.
- f) Finalisation of the research priorities by the Executive Board and the General Assembly of PIANOFORTE for final decision.

Sub-task 2.1.2. Evaluation of the prioritization process (*Lead: CIEMAT; Participants: NNK, SSM*)

An evaluation of the prioritization procedure of each call will be performed after the close of each call procedure. This will contain the description of the prioritization procedure itself for each call, will document and analyze feedback received from all interested partners in the definition of research priorities, summarize the main conclusions and lessons learned and will conclude on the main directions of radiation protection research for the next period to feed into the updated joint research.

Task 2.2: Update of the Joint Roadmap (*Lead: SCK CEN; Participants: JSI, ENEA, EK, all Platforms*)

Objectives: To update the first edition of the Joint Roadmap for radiation protection research published in 2020, taking into account scientific progress and evolution of societal needs. As the Joint Roadmap is a document with a long-term vision, only one update is planned by the end of PIANOFORTE. Several preparatory steps are needed prior to publishing the second edition of the Joint Roadmap. The full trajectory towards the 2nd edition of the Joint Roadmap is within the scope of Task 2.2.

Sub-task 2.2.1. Analysis of stakeholder feedback on the 1st edition of the Joint Roadmap (*Lead: JSI; Participants: EK, ENEA, SCK CEN*)

In January 2020 a first edition of the Joint Roadmap was published (CONCERT Deliverable 3.7). This document was sent for consultation to CONCERT beneficiaries and LTPs, the 6 MEENAS platforms, the CONCERT Stakeholder Group, the coordinators of research projects funded within CONCERT, the EC and to organisations involved in radiation protection (research) all over the world. The aim of the consultation was to collect comments on the Joint Roadmap for improvement, and to provide a ranking of the Game Changers defined in the Joint Roadmap. The results of this consultation will be analysed and will be taken into account to update the Joint Roadmap within PIANOFORTE, as well as in the prioritisation process.

Sub-task 2.2.2. Identification of changes affecting the Joint Roadmap including the update of platform

SRAs (Lead: ENEA; Participants: SCK CEN, JSI, EK, all Platforms)

The Joint Roadmap is a living document subject to the progress made in research and technology such as in the field of medical applications of ionising radiation, changes in the energy policies, environmental or climate changes, and changes in societal perspectives. Analysis of these aspects is foreseen from month M24 to M30. The timing of the analysis allows to include the latest advances in science and technology in research projects funded through PIANOFORTE calls. This subtask includes collaboration with the MEENAS platforms providing updated SRAs, and with relevant stakeholders (in collaboration with WP3), following the principle of transparent stakeholder engagement laid out in figure 2. .

Sub-task 2.2.3. Drafting of the updated Joint Roadmap for radiation protection research (Lead: SCK CEN; Participants: ENEA, EK, JSI, all platforms)

Based on MS 2.2.1. and MS 2.2.2. a new draft version of the Joint Roadmap will be made in M48, taking into account the information from the updated SRAs of all the platforms.

Sub-task 2.2.4. Review of the draft and publication through stakeholder consultation through a questionnaire and live/online events (Lead: EK; Participants: JSI, SCK CEN)

In the fourth year of PIANOFORTE, a stakeholder consultation process will be organized based on the draft joint roadmap (MS2.2.4) starting with a questionnaire. This subtask will be conducted in close collaboration with T 2.1, T2.3 and WP3. Input from WP4-WP6 and from the coordinators of running research projects within and outside PIANOFORTE will be collected. The results will be collected, such that interaction with stakeholders will be allowed on a sufficient number of occasions (ERPW, platform workshops, other PIANOFORTE meetings).

Sub-task 2.2.5. Second edition of the Joint Roadmap for radiation protection research (Lead: SCK CEN; Participants: ENEA EK, JSI, all platforms)

The result of the consultation round in T2.2.4. will enable the finalization of the 2nd edition of the Joint Roadmap.

Task 2.3: Scientific follow up and integration of the research projects (Lead STUK; Participants: SCK CEN, CEA, INSERM, NCRPP, ISS U. Exeter)

Several projects will be selected that will handle several aspects linked to research priorities defined in Task 2.1, so it is important that the results from these projects can be efficiently communicated to avoid overlap and to maximise the projects' impact. In particular, through continuous cooperation between the projects from the start, particularly in relation to stakeholder engagement (WP3), dissemination (WP6), infrastructures (WP5) and education and training activities (WP4), the resources are used efficiently, the expertise is used widely across the projects, and stakeholders' needs are addressed properly.

After each project selection round, synergies between projects will be discussed with selected projects' participants (coordinators and Work package leaders), including new and already running PIANOFORTE projects. Tools will be developed to monitor the project outcomes and to communicate the results between projects, as well as to promote and monitor the integration of social sciences and humanities. A systematic follow-up and analysis of project outcomes will be carried out and new means of cooperation between projects will be suggested to, and discussed with, the project coordinators and the Stakeholder and Advisory Board (in collaboration with WP3).

Interaction with authorities, international organisations and other Horizon Europe initiatives and activities is analysed and possible ways to interact are promoted to projects. Moreover, the innovation and development in the projects are captured and are steered towards applications, and links to industry and other knowledge users are encouraged. The project outcomes are steered towards good practice guides, standardisation and recommendation forming to enable the efficient uptake of the results by the end users and other stakeholders such as authorities and international organisations.

Particular attention will be given to the integration of social sciences and humanities in funded projects. Guidelines will be set up to support cross-disciplinary collaboration and inclusion of social sciences and humanities research in radiation protection projects; these contributions will be monitored, and projects will be requested to report their achievements in this area using the abovementioned tools.

Sub-task 2.3.1. Web based tool (Lead: NCRPP; Participants: STUK, SCK CEN, CEA, INSERM, ISS)

This task will develop a web-based tool for monitoring the project's outcomes (such as scientific problems to

be tackled, breakthroughs, and innovations), promoting interactions with other parties and for exchanging this information between projects. The tool will also serve to identify best practices in the integration of social sciences and humanities and citizen involvement in research.

Sub-task 2.3.2. Topical workshops (*Lead: CEA, INSERM; Participants: STUK*)

This task will organise online topical workshops between projects working towards the same research priorities, in particular each time a new round of projects starts. The workshop identifies synergies and possible ways to cooperate and seek possibilities to combine dissemination efforts. The SAB and relevant members of the Stakeholders Network (WP3) will be invited.

Sub-task 2.3.3. Monitoring of scientific progress (*Lead: STUK; Participants: U. Exeter, SCK CEN*)

This task will monitor the scientific progress of the research projects and promote the integration of the different projects working towards the related research priority. The monitoring is based on scientific reports and articles, progress reports, conference contributions and innovations.

To ensure meaningful and substantive integration of social sciences and humanities, this task will also establish guidelines for integrating social sciences and humanities in funded projects, and will monitor and promote the integration of social sciences and humanities in the projects. The tool developed in subtask 2.3.1 will be used to support this subtask.

Sub-task 2.3.4. Applications and recommendation forming (*Lead: ISS; Participants: STUK, SCK CEN, CEA, INSERM, ISS, NCRPP*)

This task will aim to capture the innovation and development in the projects and steer them towards applications. A tool developed in subtask 2.3.1 will be used. We will steer the output of the research projects towards the dissemination and recommendation forming. These recommendations should focus on improving radiation protection practices, and should be used as input to the BSS revisions. Promote connections to end users, international organisations and authorities. Provide data to Subtask 6.4.1. for measuring the impact of the PIANOFORTE project.

Task 2.4: Integration of Artificial Intelligence in Radiation Protection (*Lead: NCSR; Participants: IRSN, OVGU, U. Exeter, all platforms*)

This task will coordinate, harmonize and stimulate activities related to the application of Artificial Intelligence (AI) and big data approaches in radiation protection topical fields. It will foster synergies between state-of-the-art AI research activities and radiation protection implementations while documenting and reviewing novel research works in the context of different thematic areas (such as medical, emergency response and recovery, radiation biology and radiation sensitivity). In the framework of generating interest in AI by radiation protection research groups in EU, key topics will be identified as potential study themes of R&I calls funded under PIANOFORTE. To this end, the requirements on training and validation data sets will be acknowledged along with pertinent limitations imposed by GDPR.

The Task objectives are to: (a) delineate the relevance and applicability of AI and big data technologies in RP domains and identify the thematic areas that appear to be more susceptible to AI implementations (e.g., radiology, radiotherapy, dosimetry, emergency preparedness and response), (b) identify and develop links with scientific communities specializing on AI and big data technologies, (c) promote the uptake and application of AI in the PIANOFORTE R&I calls.

Sub-task 2.4.1: Review on AI implementations in RP (*Lead: NCSR; Participants: IRSN, OVGU*)

A literature review on AI and big data technologies will be performed to chart their relevance and applicability in radiation protection domains. In addition to reviewing the body of knowledge on AI and big data implementations, the study will identify the radiation protection domains that could benefit by adopting AI techniques such as radiology, radiotherapy, or emergency and recovery preparedness and response.

Sub-task 2.4.2: Interaction with scientific communities specializing in AI (*Lead: IRSN; Participants: NCSR, OVGU*)

A significant effort will be devoted to identifying and developing links with scientific communities specializing on AI and big data technologies (e.g., EurAI <https://www.eurai.org/>) and corresponding ethical aspects. Partners involved in the Task will explore their expertise in the field and via their participation in technology platforms, scientific fora and projects (e.g., AI4EU <https://www.ai4eu.eu/>) will formulate an AI ecosystem with relevance to radiation protection. A Technical Meeting will be organized, where representatives from relevant technology platforms, projects and initiatives will be invited to jointly explore

the adoption of AI and big data in RP.

Sub-task 2.4.3: Promoting the uptake of AI in R&I calls (*Lead: OVGU; Participants: NCSR, IRSN*)

There will be a spill over of the knowledge accumulated in Task 2.4 into other WP2 Tasks (and as a consequence into WP7: ‘Open call organisation’), into Task 5.3 “Promoting harmonization of quality standards, practices and protocols” (e.g. introduction of quality standards for data management in machine learning model development), Task 5.5 “Developing a plan and vision for data management and approaches to exploitation of archived data” as well as into Task 6.1 “Knowledge management”. Interactive sessions will be organised with research project partners to promote the inclusion of AI and big data technologies in the R&I calls formulated and announced in the PIANOFORTE framework.

Sub-task 2.4.4: Ethical challenges of AI (*Lead: UExet*)

Use of big data, artificial intelligence and machine learning are fast becoming ubiquitous in scientific research. The utility of such approaches varies across domains and for many areas the potential is not yet fully understood. Concurrently, some of the ethical challenges of AI have been posited in general terms but the affordances and limitations of AI in RP have not been explored. It is necessary that such ethical challenges are understood as evolving alongside the technical AI capacities. The sub-Task will assess the key issues arising for use of AI approaches in RP; report on the application to RP of existing relevant initiatives (e.g. IAEA Technical Meeting (TM) on Artificial Intelligence for Nuclear Technology and Applications; and liaise with relevant stakeholders on further research needs.

Deliverables

- D2.1.1 Research priorities for the first open call (M10)
- D2.1.2 Research priorities for the second open call (M23)
- D2.1.3 Research priorities for the third open call (M35)
- D2.1.4 Main conclusions and lessons learned from the whole prioritization process, identifying new research for the updated joint roadmap (M54)
- D2.2.1 Second edition of the Joint Roadmap (M54)
- D2.3.1 Guidelines on integration of social sciences and humanities in R&I (M6)
- D2.3.2 Report on integration of projects (M54)
- D2.4.1 Review of AI and big data implementations in RP (M54)
- D2.4.2 Minutes of the Technical Meeting on AI and big data implementations in RP (M54)
- D2.4.3 Recommendations on the uptake of AI in R&I calls (M42)
- D2.4.4 Report on ethical aspects of AI in radiation protection (M12)

Milestones

- MS2.1.1 Finalisation of the first prioritisation procedure for the first open call to be launched (M6)
- MS2.1.2 Finalisation of the second prioritisation procedure for the second open call to be launched (M19)
- MS2.1.3 Finalisation of the third prioritisation procedure for the third open call to be launched (M31)
- MS2.2.1 Analysis of the consultation on the 1st edition of the Joint Roadmap (M4)
- MS2.2.2. Identification of changes in science, technology, society and environment affecting the Joint Roadmap (M32)
- MS2.2.3 New draft Joint Roadmap (M36)
- MS2.2.4 Questionnaire for stakeholder consultation on the new draft Joint Roadmap (M48)
- MS2.3.1 Concept design of the reporting tool (M6)
- MS2.4.1 Technical Meeting on AI and big data implementations in RP (M54)
- MS2.4.2 Interactive sessions with Tasks 5.3, 5.5 and 6.1 (M42)
- MS2.4.3 Workshop with leading experts on ethics and AI (M36)

Work package number	WP3		Lead beneficiary			BfS
Work package title	Stakeholder engagement					
Participant number	3	27	34	46	6	4
Short name of participant	BfS	CIEMAT	DSA	IMROH	DH-PHE	SU
Person months per participant:	52	13	9	8	0,5	0,5
Participant number	33	21	32	10	28	1
Short name of participant	EIMV	UTartu	JSI	SCK CEN	MERIENCE	IRSN
Person months per participant:	1,5	1,5	1	5	1	1,5
Participant number	30	37	49	45	35	51
Short name of participant	ISS	CEA	IST	EEAE	NMBU	NRG
Person months per participant:	1	0,5	2	0,5	5	0,5
Participant number	22	12	31	47	11	38
Short name of participant	GIG	CEPN	EK	UZagreb	KU Leuven	UnCaen
Person months per participant:	1,5	1,5	2	0,5	2	2
Participant number	54	23	5			
Short name of participant	INFN	IFJ PAN	Skandion			
Person months per participant:	2	4	2			
Start month	1			End month		60

Objectives

This work package aims to connect the diverse set of relevant stakeholders within and outside the radiation protection community to show that radiation protection research influences and improves the lives of all European citizens. It also organizes as a central task the input to priority setting for all external target groups defined in 2.1, i.e. all inputs that are not already represented through consortium members or the platforms. To do so efficiently, all efforts in this work package build further on work that has been done in PIANOFORTE's predecessor CONCERT and other European initiatives. At the same time, this work package will use professional and agile consultation methods to consider the specific voice of the users of radiation science products as well as the broader civil society and make their input available for the prioritization process of the R&I open calls and the Partnership integration activities. It is paramount for the radiation protection research community in Europe to continuously identify the most urgent stakeholder needs for the large political missions of our time and stay visible in these fields as well - health, sustainability, innovation and safety. A specific focus will be put on stakeholder needs in medical applications, specifically proton therapy.

The work is organizationally split up into five tasks and aims to actively collect relevant feedback to PIANOFORTE's research calls, and plan and execute a variety of direct stakeholder engagement activities:

1. Establish links with the European and non-European radiation protection community to create synergies and establish key elements of a global strategy for radiation protection; establish links with other EC Partnerships, like metrology, nuclear safety, waste management, health, environment, safety;
2. Align diverse stakeholder interests with the partnership's impact by involving key stakeholders in the priority setting of the R&I calls as part of an transparent, open priority setting process;
3. Elaborate a stakeholder engagement plan (SEP) and set up the Stakeholder and Advisory Board (SAB) based on experiences from CONCERT EJP and other European programs; prepare, design, implement, feed-back, follow up, and evaluate all the stakeholder engagement activities;
4. Maintain 2-way communication with the Stakeholder Advisory Board throughout the whole Partnership
5. Secure a structured stakeholder involvement in the partnership's R&I projects, and to enhance uptake of results and recommendations
6. Use assembled expertise in radiation protection to address urgent stakeholder questions with respect to proton therapy

It is planned that the Joint Research Centre (JRC) will be involved in all Tasks in order to provide independent scientific advice in line with EU policy and help perpetuate the strong interaction between the RP research community and its target groups as well ensure strong synergies and complementarities with EC direct actions. All five task leading entities will work closely together to reach the overall goals outlined above.

Task 3.1 International partners and partnership priority setting (Lead: BfS; Partners: DH-PHE, SU, GIG, EIMV, UTartu, STUK)

This task will make sure that the interests of target groups outside the partnership (i.e. stakeholder advisory board, connected entities and a diverse range of target groups) are represented in the call-based priority setting process and that PIANOFORTE's overall strategy is in line with the needs of relevant target groups, see figure 2. This requires the setup of a "network infrastructure" of links to the target groups that can be used in all integration activities where useful and necessary. These connected entities are the **first (of three)** pillars of external stakeholder involvement. Through direct stakeholder activities we aim to enhance visibility and presence of radiation protection research topics in relevant communities, setting a basis for strong dissemination (WP6).

Subtask 3.1.1. Link to international RP research initiatives/networks

We set up both continuous and / or call -based one-time links with relevant research initiatives / networks. This work focuses on the alignment of the JRM, SRAs and on general avoidance (or in relevant cases strategic focus on) double funding systems. The aim is to create lasting, permanent robust communication between different communities

- establish / strengthen collaborative links with global or non-European radiation protection research initiatives/networks like PLANET, EPRI-IDEA for low-dose, ARADOS for dosimetry or /REMPAN for emergency preparedness;
- establish collaborative links with other EC actions or H2020 projects in related fields like health, environment, safety... or enhance existing collaborations (e.g. SAMIRA action plan, EURAMET, EURAMED Rocc-n-roll, SINFONIA, MEDIRAD, MADEIRA, RadoNorm, EURAD, EAGMST ...);
- establish collaborative links with industry oriented organisations involved in NORM (e.g. the International Association of Oil & Gas Producers (IOGP), Zircon Industry Association (ZIA), European NORM Association (ENA));
- align with the research priorities identified by e.g. ICRP, NEA, UNSCEAR; IAEA...
- align with NRTs with RP-connection, i.e. NRT-01-01, 07, 08, 10, 12, 13 in a structured format.

These connections will be managed by BfS but will be based on existing connections of the wide range of PIANOFORTE's members.

Subtask 3.1.2 Priority setting for R&I calls

Throughout PIANOFORTE we aim for a systematic, balanced and transparent system of priority setting / stakeholder involvement, see figure 2, that follows the principles of open science from the start. This involves organization of internal (WP2) and external stakeholders (WP3). This work focusses on integrating different stakeholder inputs into the generic priority setting process of all calls: from the Stakeholder advisory board, the direct stakeholder consultations and the linked international initiatives and networks.

Subtask 3.1.3 Coordination of stakeholder engagement within PIANOFORTE

While most stakeholder engagement will be organized in this work package, there is also lots of "customer centricity" in other work packages as well, i.e. in data and infrastructure, education and training and impact creation. WP3 will coordinate relevant stakeholder activities for external stakeholders in the integration work packages of PIANOFORTE to ensure a systematic, transparent and robust stakeholder engagement process. To do this, we will have a central point to coordinate the timing / amount / type of overall stakeholder activities within all WPs, with specific representatives from these work packages.

Task 3.2 Partnership Projects (Lead: IMROH, Partners: JSI, MERIENGE, SCK CEN, IRSN, CEPN)

This task's mission is to use best practices wrt stakeholder engagement from CONCERT, align stakeholder activities in funded R&I projects, coordinate and oversee stakeholder communication

Subtask 3.2.1 Learning from CONCERT EJP projects to create stakeholder engagement criteria for R&I calls

In this subtask we will evaluate stakeholder input and guidance for CONCERT R&I calls, and create best practice examples as input for PIANOFORTE's SAB discussion. This includes analysis of the deliverables from CONCERT (D5.1-->D5.4) concerning the stakeholder engagement in research projects preparation.

Subtask 3.2.2 Oversee running projects and link to overall stakeholder activity

Once PIANOFORTE R&I projects are running, this task will coordinate and link their stakeholder activity into the larger engagement plan as developed in task 3.4.

Task 3.3. Stakeholder Engagement Planning and Management (*Lead: CIEMAT; Partners: DSA, BfS, CEPN, IRSN, ISS, GIG, SCK CEN, EIMV, MERIENGE*).

This task's mission is to create a stakeholder advisory board and a stakeholder engagement plan that integrates all stakeholder activities during the partnership

The main objective of this task is to set up the Stakeholder and Advisory Board (SAB) as the **second pillar** of external stakeholder engagement and to elaborate a Stakeholder Engagement Plan (SEP), to secure a structured strong stakeholder involvement in PIANOFORTE activities and developments, as well as to enhance uptake of results and recommendations through fluent communication with stakeholders.

Subtask 3.3.1. Stakeholder and Advisory Board (SAB) establishment

The first step will be a mapping all the potential stakeholders – also based on CONCERT results - , including representatives of the target groups defined in 2.1: Government authorities (European and national policy makers, regulatory authorities, other national, regional and local authorities); experts in radiation protection and other related disciplines (international and European organizations, research centres, universities); civil society and affected communities (civil society organizations, nuclear and non-nuclear industry workers, citizens, patients, NGOs, media).

The SAB is expected to have 10 to 15 members. To select its memberships several aspects will be taken into account, as for example the tasks/functions assigned to them (to be detailed in the SEP developed in subtask 3.3.2) or their influence and interest in the developments to be done in PIANOFORTE. There must be a balance within the SAB representatives regarding different disciplines or functions in radiation protection and related disciplines (medicine, radiobiology, dosimetry, radioecology, emergency preparedness, social sciences and humanities, ethics, science or federal authorities, medical unions, NORM involving industries...), geographical distribution and gender. SAB will also have non-experts in radiation protection representatives to represent the wider “civil society”.

Once the SAB membership is established, a document with the mission and rules of the PIANOFORTE Stakeholder and Advisory Board will be developed (based on lessons learned in CONCERT).

Subtask 3.3.2 Stakeholder Engagement Plan (SEP)

An overall SEP will be designed and implemented, not only for the SAB, but also for other potential stakeholder activities within PIANOFORTE. The SEP will describe the strategy to follow for stakeholder participation in the activities carried out throughout PIANOFORTE, the rules to run the stakeholder network activities (Task 3.4), the anticipated impacts of such engagement, and a work plan of actions to be carried out. In addition, the SEP will describe the possible mechanisms and tools to be used for the involvement of stakeholders and follow up of their input and comments (to assure that their views and concerns are heard) and for the evaluation of the stakeholder engagement activities (to determine if, and when, the SEP needs to be updated). To develop the SEP, the lessons learned from the EJP-CONCERT and other European projects (e.g. ENGAGE) on stakeholder engagement will be considered.

Task 3.4 Direct Stakeholder Engagement (*Lead: DSA, Partners: BfS, CIEMAT, EK, SCK CEN, IRSN, CEPN, CEA, ISS, IST, EIMV, EEA, NMBU, NRG, GIG, UTartu*).

This task's mission is to carry out the activities outlined in the stakeholder engagement plan (SEP), such as an e-survey, online public consultations and meetings throughout the tasks of this WP, the other integration work with packages and the R&I projects within PIANOFORTE. This is **the third pillar** of PIANOFORTE's external stakeholder interaction: topical, directed online interaction organized by a central professional agency and guided and led by PIANOFORTE's members.

The main objectives of the task are to map needs, interest and potential impacts of identified stakeholders, establish specific stakeholder networks (depending on defined criteria e.g., topical, regional stakeholders networks, and in contrast to the already existing stakeholder networks identified in task 3.1) and to engage them, through various tools and events, in order to gain information on their opinions, needs, requirements related to the Partnership activities of importance for (a) research priorities, and (b) update of the existing SRA and JRM for radiation protection or other, community-relevant outputs of the project. Direct engagement activities in the form of pro-active interactions and innovative participatory processes will be organized for

networks of stakeholders according to the SEP (developed in Task 3.3). Practically, once a prioritization process is started by WP2, this task will organize direct online consultations with the subset of groups that are the most affected by this specific calls. These meetings will be organized centrally and be run online to allow a wide participation from all member states throughout the partnership.

Subtask 3.4.1. Stakeholder mapping and establishing stakeholder networks for direct engagement

Not all stakeholders will have the same interest level nor will be affected by the same impacts, and classifying them according to the predefined criteria will make managing communication issues and their inputs easier. Therefore, once identified in the previous tasks, stakeholders will be mapped according to the developed mapping criteria matrix, which may include stakeholder main interest, but also consideration of the research priority outcomes and lessons learned from the EJP CONCERT, transdisciplinary aspects and existing interfaces between radiation protection of the human health and the environment.

Based on results of mapping, smaller network groups of target stakeholder groups will be organized to allow for more efficient communication. National contact points will be assigned to facilitate the involvement of national and/or local stakeholders from the different European countries.

Subtask 3.4.2. Direct stakeholder engagement – e-survey

During the EJP CONCERT, radiation risk perception and attitude towards the different radiation protection issues have been explored in the wide range of public groups through a public survey on different national languages. While the survey results showed a reasonable level of public satisfaction with the available information regarding radiation risk, there has been clearly shown a potential for improvement of the main radiological protection concepts understanding as well as potential for training, further risk communication and stakeholder engagement in the knowledge creation and dissemination. Therefore, an e-survey, dedicated to exploring these specific questions within the area of general radiation protection and possible public knowledge improvements is foreseen within this partnership. A thorough analysis of the results of the previous specific stakeholder panels and public surveys will be done in order to define priority questions to be explored. This e-survey will aim to advertise PIANOFORTE partnership to the wider stakeholder community in early months of the partnership. In parallel, it will allow gaining insights on changing stakeholders' opinions about topics that potentially should be priorities in radiation protection, and relating them to the topics for R&I calls coming later in the partnerships course.

The survey is foreseen as a smaller scale, English language-based follow-up of the one done in the EJP CONCERT. It will be organized in the first months of the partnership, as a one-time activity and not as a part of the stakeholder engagement that will be done for all R&I calls in the partnership.

Subtask 3.4.3. Direct stakeholder engagement - topical online consultations and meetings

A series of up to ten topical online consultation meetings with the different identified stakeholder groups will be organised, where expectations of end-users' participation in this partnership, their views on research priorities within PIANOFORTE, and input on SRAs and JRM of radiation protection research will be regularly discussed throughout the partnership course.

Given the European focus on sustainability, these consultations will be organized online, consisting of pre-meeting target group surveys (small size), followed by related online discussions of expert group and wider audience, and post meeting result analysis. Stakeholder input from these meetings will then be communicated to WP2 as input to the process of research topics prioritization before each R&I call.

Two online meetings per R&I call are envisioned to focus on relevant target groups, depending on the overall direction the R&I calls take. The calls should be centrally organized and handled throughout the project to guarantee homogenous quality. Another opportunity for these target group online consultations is the update of the JRM or relevant activities in other integration work packages.

Task 3.5 Addressing stakeholder interests of DG Health: radiation protection and proton therapy (PT)

(Lead: IFJ, Partners: SKANDION, KULeuven, INFN, UCaen, SCK CEN, BfS)

This task's mission deals with proton therapy as it has been identified by DG Health and DG Research as an urgent, relevant medical technology with overlap to open radiation protection questions. Using the network of involved parties in PIANOFORTE and the stakeholder network created in tasks 3.1 – 3.4 we will address open research questions and identify gaps of knowledge related to radiation protection, dosimetry, radiobiology and related medical physics issues by bringing experts and target groups together.

Subtask 3.5.1. (Lead IFJ, Partners: SKANDION, KULeuven, INFN, UCaen)

The ICRU 78 Report from 2007, which is a guideline for prescribing, recording and reporting proton therapy (PT), is outdated for the current Pencil Beam Scanning technology and is planned to be updated within a few years. Additional, national guidelines and recommendations differ throughout Europe and lack details wrt radiation protection aspects. In the last decade a significant number of scientific papers and reports were published in the field of PT but the clinical data on the effectiveness of PT is still limited. Here we aim to bring together clinical experts in PT with representatives of the radiation protection research to create a fast “scientific sprint” within the first six months of the partnership. The aim of this group would be to analyze and review existing original literature and literature overviews and from the European perspective accumulate clinical evidence in PT, guidelines and recommendations for QA practices, audits and development of common protocols. This critical review will be of particular interest for the newly developed PT centers in planning of their research and upgrading the clinical practice. By doing so we address a concrete question of DG Health put to the PIANOFORTE partnership during the proposal process on how guidelines can contribute to improve the research and clinical practice in PT.

Subtask 3.5.2. (lead SCK CEN, partners: BfS, IFJ, SKANDION, KULeuven, INFN, UCaen) In this subtask we organize two hybrid workshops of two to three days length with invited speakers from within and without the PIANOFORTE partnership to discuss further open questions of the target groups (the users of PT), focusing on radiation protection aspects of open questions with respect to efficacy and efficiency of PT. This will be done in close cooperation with the EC and relevant PT stakeholders to identify questions with a strong overlap to radiation protection research.

Deliverables (brief description and month of delivery)

- D3.1/2/3 Stakeholder comments on ExB suggestion for call topics & criteria from partner initiatives, SAB and online consultations of target groups . M8 + x +y
- D3.4 General stakeholder recommendations for the PIANOFORTE open calls (call criteria, what partnership projects should look for wrt stakeholder activities). M3
- D3.5 Stakeholder and Advisory Board composition, mission and rules M3
- D3.6 First version of the Stakeholder Engagement Plan M6
- D3.7 Report with the review on recommended clinical and research practices in modern proton therapy. M6
- D3.8 E-survey on public understanding of radiation protection issues M9
- D3.9 Report - Conclusions from the PT workshops
- D3.10 Stakeholder topical meetings – overview and input results to the Research Calls within the Partnership M36
- D3.11 Update of the Stakeholder Engagement Plan M40
- D3.12 Exploring the stakeholders’ view on strategic research agenda and joint roadmaps in the radiation protection – input from topical meetings throughout the project M56
- D3.13 Stakeholder and Advisory Board activities and feedback during PIANOFORTE M60

Milestones

- MS3.1 Workshop on emerging economic, social, scientific and clinical aspects of proton therapy, depending on exchange with EC, specifically DG Health(M10-12)
- MS3.2 SAB feedback to the first research prioritization process for the first open call (M13-15)
- MS3.3 Workshops on emerging economic, social, scientific and clinical aspects of proton therapy, depending on exchange with EC, specifically DG Health
- MS3.2 SAB feedback to the second research prioritization process for the second open call (M24-26)
- MS3.5 SAB feedback to the third research prioritization process for the third open call (M36-38)
- MS3.6 E-survey on public understanding of radiation protection issues – launching (M4)
- MS3.7 First series of topical online meetings (consultations before Open call) (M6-9)
- MS3.8 Second series of topical online meetings (consultations before Open call) –(M15-20)
- MS3.9 Third series of topical online meetings (consultations before Open call) (M25-30)
- MS3.10 Topical meetings – stakeholders’ input to update of SRA and JRM of radiation protection research (M50)

Work package number	WP4		Lead beneficiary							SU	
Work package title	Education and Training										
Participant number	10	3	21	38	31	20	2	53	35	22	
Short name of participant	SCKC EN	BfS	Utartu	UnCa en	EK	NNK	UnPv	VIAA	NMB U	GIG	
Person months per participant	5	1	1	1	5	1	1	1	5	1	
Participant number	49	4	32	15	12	17	9	14	16		
Short name of participant	IST	SU	JSI	ALLIA NCE	EURAD DOS	EURAM ED	MELO DI	NERIS	SHAR E		
Person months per participant	1	31	1	1	1	1	1	1	1		
Start month	1		End month							60	

Objectives

The overall objective of this WP is to maintain existing and develop new competences in radiation protection with focus on the following research areas: health effects of low-dose radiation, medical applications of ionising radiation, radioecology, emergency and recovery management, dosimetry and detection of ionising radiation, and social sciences and humanities in ionising radiation research, as represented by the European radiation research platforms ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE. Specific aims are:

- To support targeted courses to promote knowledge, skills and competence of students, early career researchers and professionals in the broad field of radiation protection (RP) research and applications;
- To provide financial support for students and early career researchers by mobility grants allowing research visits, field trips and participation in conferences;
- To support continuous professional development (CPD) in the broad field of radiation protection applications;
- To develop and implement sustainable early career researcher and professional networking: facilitating training and career upgrades.

Description of work (where appropriate, broken down into tasks), lead partner and role of participants

Task 4.1: Support of targeted courses to promote knowledge, skills and competences of MSc/PhD students, early career researchers and professionals (*Lead: NMBU; SCK CEN, SU, EK, IST, UniPv, UniCaen, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE*).

An annual open call will be made for institutions to organise short courses (up to 2 weeks in length), summer schools, training workshops or similar events on topics of relevance to the European radiation research platforms MELODI, EURADOS, EURAMED, NERIS, ALLIANCE, SHARE. This task will contribute to maintaining and developing competences in the field, required for the current and future research on and safe application of ionising radiation. Short courses will be at a level not lower than that of Master of Science. Financial support for E&T providers will be made on the basis of direct costs (no overheads). Guidelines and rules for this support programme, including criteria for evaluation of applications, will be set up and published on the project website. Applications submitted in response to the calls will be reviewed by the task participants to ensure compliance with all the call conditions. Courses that incorporate the use of major European infrastructures will be encouraged. Once per year a web meeting will be organised with all PIANOFORTE beneficiaries and stakeholders where the financed courses will be presented and their relevance for the European radiation protection discussed to adjust future funding rounds. A maximum amount of 180,000€ per year will be allocated to this task (65% EC funding, 35% co-fund).

Task 4.2: Support of mobility for MSc/PhD students and early career researchers (travel grants) (*Lead: SU; SCK CEN, NMBU, EK, NNK, Utartu, VIAA, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE*)

A number of grants will be offered on a competitive basis to MSc/PhD students and early career researchers for research exchange visits including the use of infrastructures, field study trips and to attend conferences and training courses on topics of relevance to the European radiation research platforms MELODI, EURADOS, EURAMED, NERIS, ALLIANCE, SHARE. This task will contribute to maintaining and developing competent future radiation protection researchers. Guidelines and rules for this support programme, including criteria for evaluation of applications, will be set up and published on the project website. Applications for grants will be reviewed by the task participants to ensure compliance with all conditions. Four calls per year

will be launched. Grants will be provided as financial support to individuals and will not exceed a maximum of €1000 per grant. Once per year a web meeting will be organised with all PIANOFORTE beneficiaries and stakeholders where the financed grants will be presented and their relevance for the European radiation protection discussed to adjust future funding rounds. A maximum of €20,000 (100% EC funding) per year will be allocated for this task.

Task 4.3: Support of a continuous professional development programme for radiation protection professionals (*Lead: SCK CEN; Participants: BfS, GIG, SU, NMBU, EK, JSI, VIAA, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE*)

A number of grants will be offered annually on a competitive basis to refresh or update knowledge and skills of radiation protection professionals (such as first responders, occupational health physicians, radiation protection officers and experts, and medical physics experts), regulators and industry. As awareness of new scientific insights is needed to better apply the fundamental principles of radiation protection, continuous professional development for regulators and radiation protection professionals is of utmost importance and this task will contribute to maintaining and developing competence in this area.

Four calls per year will be launched. Grants will be provided as financial support to individuals and will not exceed a maximum of €1000 per grant. Funding can be applied to cover participation in courses and professional internships or technical visits. Guidelines and rules for this support programme, including criteria for evaluation of applications, will be set up and published on the project website. Applications for grants will be reviewed by the task participants to ensure compliance with all conditions. Once per year a web meeting will be organised with all PIANOFORTE beneficiaries and stakeholders where the financed grants will be presented and their relevance for the European radiation protection discussed to adjust future funding rounds. A maximum of €20,000 (100% EC funding) per year will be allocated for this task.

Task 4.4: Development of sustainable early career researchers and professionals networking to facilitate training and career upgrades (*Lead: EK; UTartu, UniPv, SCK CEN, NMBU, SU, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE*)

Subtask 4.4.1 (*Lead: EK*) To support early career researchers and professionals (ECRP) in further developing their career and networking, this task foresees bringing together the members of existing ECRP networks of the Platforms and other early career researchers and professionals in the domain of PIANOFORTE. Dedicated annual meetings of the ECRP group will be organised to initiate contacts and promote collaboration between Europe's future radiation protection researchers and professionals. These meetings should also serve as a forum for exchange of experience and a source of information about career possibilities in the field of radiation protection. It is the intention to motivate juniors to take the initiative to carry this initiative further towards a sustainable initiative. This will result in a PIANOFORTE-ECRP network where early career researchers and professionals can meet and interact. The PIANOFORTE-YGECRP will also be integrated in the pan-European network of junior nuclear researchers and professionals that is to be established in the HORIZON-EURATOM-2021-NRT-01-13, leading to a sustainably structure. 20,000€ is reserved to fund the annual meetings.

Subtask 4.4.2 (*Lead: SCK CEN*) An action will be carried out to bring the vast amount of RP E&T and networking initiatives together with the aim to give them a sustainable character. A first step will be the creation of a website, highly visible and easily accessible for learners and all other stakeholders. To this end collaboration will be set up with the project task(s) dealing with communication and the project website. It will be explored how the funded initiatives of Task 4.1, 4.2 and 4.3 can be made sustainable.

Deliverables (brief description and month of delivery)

D4.1 Rules and guidelines for the support of: 1) courses, 2) the mobility programme for PhD students and early career researchers, 3) CPD for RP professionals (M1)

D4.2 Rules for financing annual meetings of the PIANOFORTE early career researchers and professionals (ECRP) group (M3)

D4.3 Regular reports on the received applications, evaluation, consultation with PIANOFORTE beneficiaries and final decision of the calls, including financial reporting of task 1, 2, 3 and 4.1 (M12, M24, M36, M48, M60)

D4.4 Report on activity of the PIANOFORTE ECRP group (subtask 4.4.1) and subtask 4.4.2 (M36)

Work package number	WP5		Lead beneficiary				DH-PHE	
Work package title	Infrastructures and data management for radiation protection research							
Participant number	6	37	30	21	3	9	15	
Short name of participant	DH-PHE	CEA	ISS	UTartu	BfS	MELODI	ALLIANCE	
Person months per participant:	15.	13.5	10.75	11.5	10.75	1	1	
Participant number	12	17	14	16	40	24	46	
Short name of participant	EURADOS	EURAMED	NERIS	SHARE	CNRS	NCRSD	IMROH	
Person months per participant:	1	1	1	1	1.5	1	1.5	
Participant number	4	1	32	54	31	42	7	
Short name of participant	SU	IRSN	JSI	INFN	EK	UniPv	UCAM B	
Person months per participant:	0.5	1.5	2.5	3.5	6	1.5	3	
Participant number	27							
Short name of participant	CIEMAT							
Person months per participant:	1.5							
Start month	1			End month		60		

Objectives

WP5 has the following objectives:

1. To establish an oversight committee for infrastructures that will ensure that all infrastructure needs required for the implementation of the roadmap for radiation protection research (RPR) and PIANOFORTE projects are recognised and served, provide strategic direction for the WP, and evaluate applications for WP4-allocated funding
2. To provide support for the radiation protection research community and PIANOFORTE partners/projects to access cross-national infrastructures
3. To promote harmonization of quality standards, practices and protocols in all areas relevant to implementation of the research roadmap
4. To develop a strategic work plan for utilisation, novel uses and inter-operability of key RPR infrastructures
5. To develop a plan and vision for FAIR (findable, accessible, interoperable and reusable) data management and approaches to exploitation of archived data in radiation protection R&I.
6. To establish close links with the project selected in NRT01-12 in order to benefit from each other's expertise, to foster collaborations without duplication of activities, and we will endeavour to carry out joint actions favouring access to research infrastructures (potentially including co-sponsored calls).

Description of work (where appropriate, broken down into tasks), lead partner and role of participants

Task 5.1 - Establish an infrastructure oversight committee (*Lead: DH-PHE, all Platforms, SU, IRSN, CEA, ISS, UTartu, BfS,*)

The range of infrastructures relevant to radiation protection research is wide and diverse and it is important that PIANOFORTE WP5 supports implementation of the research roadmap. To this end we will establish an Infrastructures Oversight Committee (IOC) that will provide support for the WP tasks outlined below, a forum for coordination between WP5, Platforms, WP4 in respect of training and education, across the entire PIANOFORTE partnership, PIANOFORTE supported projects and with the successful NRT-01-12 consortium. In addition to the coordination function, the IOC will be the body responsible for evaluating applications for funding; a number of focused WP5 'internal' calls are planned with the objective of encourage access to training in trans-national infrastructures, and to facilitate small-scale technical inter-comparison exercises to promote harmonization of techniques and protocols at the European level, particularly in support of the research roadmap. The key tasks will focus on identification and appointment of IOC members, to draft and agree the Terms of Reference for the IOC, to convene the first of the planned series of virtual meetings (to take place at very least annually), to draft and agree the evaluation criteria for WP5 focused internal infrastructure training calls and to establish the regular virtual meeting schedule to include the launching and evaluation of WP5 infrastructure training calls and inter-comparisons.

Task 5.2 - Providing support for cross-national access to infrastructure (*Lead: CEA, UTartu, EK, INFN, CNRS, UNIPV, JSI, all Platforms*)

The key objectives of this task will be: (i) to promote the use of key existing RPR infrastructures (with WP6 facilitating consortium-wide and community-wide communication); (ii) to develop a fair and transparent system to allow researchers to access key infrastructures through open calls within the consortium (with WP2); (iii) to develop and promote training in the use of key RPR infrastructures (with WP4)

Subtask 5.2.1. Promoting the use of key existing RPR infrastructures (*Subtask leader: INFN; CEA, CNRS, UTartu, EK, all Platforms*)

Continuing the CONCERT efforts, the strategy and its roadmap developed previously, the list of infrastructures (AIR²D²) will be updated, integrating suitable infrastructures linked with EURAMED and more generally with the medical sphere that are connected with research for medical applications using ionizing radiations. Networking among infrastructures of various categories will be encouraged, accompanied and highlighted. (M1-M60). In addition, through selected projects supported through PIANOFORTE open research calls, data will be collected with the help of a short survey to evaluate the evolution of the real positioning of infrastructures in the research system and their impact on the quality of the produced data and results. A high-level report will be prepared to give a global analysis of the landscape of the use of infrastructures and a SWOT of the situation, which is envisaged will be of use for further RP research (M19-M60).

Subtask 5.2.2. Developing a fair and transparent system to allow researchers to access key infrastructures through open calls (*Subtask leader: EK; CEA, CNRS, JSI, all Platforms*)

Efforts will be made to promote transparency in relation to costs of infrastructure access. To develop an “easy to use system” for researchers, the network between infrastructures developed in Task 5.2.1 will contribute to promote common approaches, eg. simplified access, same methodology to establish costs, data storage and IP. (M7-M60). Further, recommendations about infrastructures will be edited and send to all potential users. Recommendations/rules will be edited to be applied by applicants to PIANOFORTE open calls to facilitate and extract data for the visibility and understanding of the use of resources and efforts (€ and pm) focused on infrastructures. (M1-M12).

Subtask 5.2.3. Developing and promoting training in the use of key RPR infrastructures (*Subtask leader: CEA; participants: UniPv, EK, all Platforms*)

Existing recurring courses organized by infrastructures relevant to implementation of the research roadmap will be identified, collected and promoted. For that, a joint ‘infrastructure call text’ will be created and edited annually to invite researchers to apply those training courses on infrastructures on a basis of a trans-institutions access and receive a grant to participate. Internal rules will be edited in order to develop a top-down approach e.g. award linked to topics selected from SRAs) and a bottom-up approach (individual needs) (M1-M60). Considering the potential missing areas for infrastructure training, a focused infrastructure programme will be developed to invite specific infrastructures to organize a dedicated course (M13-M60). Finally a third category of courses (face to face and or using online platforms such as YouTube) will be developed in order to present to all successful applicants to PIANOFORTE open calls and indeed to the wider RPR community to inform them about the different infrastructures and their role in the RPR research landscape and to help researchers how to include infrastructures in their future proposals, how to have access to them (M7-M60).

Task 5.3 - Promoting harmonization of quality standards, practices and protocols (*Lead: ISS, participants JSI, IMROH, CIEMAT, INFN, all Platforms*)

This task will continue and extend the CONCERT approach to infrastructures and harmonization of their standard protocols and practices, taking into account the latest platforms and network communities (e.g. EURAMET) achievements and current activities in this direction. The support of the POMs which represent the main infrastructure owners will be guaranteed by direct involvement of key collaborators. Collaboration with both RP Platforms and POMs is essential considering the large heterogeneity of the infrastructures (e.g. exposure facilities with different irradiation sources and related technologies, radioecology observatories, databases including bio and sample banks and cohorts, analytical platforms, modelling tools including recent advanced artificial intelligence based models. Moreover, due to the large number of organizations involved in RP research, it is vital to harmonize the methods and protocols for measurements..

Subtask 5.3.1. Development of a system for funding inter-comparisons to promote standardization (identify tools and funding framework); (*SubTask Leader: EURADOS , Contributors: JSI, INFN, ISS, all Platforms*)

Inter-comparisons are essential for proper research harmonization and standardization, stimulating infrastructures to keep high quality standards. In this sub-task we will review and survey methods utilized, particularly those of relevance to PIANOFORTE funded projects; classification of infrastructures and

associated techniques requires definition and revision of performance parameters in order to define the “gold standard” infrastructure examples. Subsequently this subtask will identify and develop, in collaboration with RP platforms and POMs representatives running infrastructures, a systematic contest where inter-comparisons can be funded and carried on effectively. Between M6-18, this sub-task will analyze the existing systems of inter-comparisons (e.g. procedures for preparation of dosimetric international inter-comparisons, as organized by EURADOS in the last 20 years) and their funding scheme (e.g. applied by funding agencies); we will also identify candidate infrastructures willing to participate to new inter-comparisons, define use-cases and potential funding sources. Between M24 and 60, the task will define and publish internal calls for selected inter-comparisons to support implementation of the research roadmap.

Subtask 5.3.2. Development of Standard Operating Procedures (SOP) for key protocols to promote standardization; (Lead: IMROH, Contributors: CIEMAT, ISS, JSI, all Platforms)

Between M18 and M30, the aim will be to identify key protocols for selected infrastructure (sub)classes, following and integrating the outcomes of the review/survey activities of sub-task 5.3.1. Following this, existing SOPs will be analysed to propose improvements (if any) or define new SOPs, also in synergy with WP5.5.3 regarding methods for data mining. Then between M30 and 48, the task will focus on testing new SOPs in selected (voluntary) infrastructures, especially those relevant to roadmap implementation and PIANOFORTE-supported projects.

Task 5.4 – Challenges, best practices, and strategic plan for radiation protection research (RPR) infrastructures (Lead: UTartu, CEA, EK, ISS, DH-PHE, BfS, IRSN, all Platforms)

This task develops a coordinated vision and strategic plan to enhance sustainability of RPR infrastructures, addressing considerations such as utilisation, novel uses and inter-operability. The aim is to facilitate access, enhance the visibility of infrastructures, and assure their sustainability beyond short-term constraints. Dialogue between Task 5.4 and Task 2.2 is foreseen to address RPR infrastructures issues in the PIANOFORTE Joint Roadmap.

Subtask 5.4.1. Identification of challenges faced by RPR infrastructures. (Lead: CEA, EK, IRSN, UTartu, ISS, DH-PHE, BfS, all Platforms)

Task 5.4.1 will identify challenges faced by RPR infrastructures, taking into account the attributes of RPR infrastructure categories and selected cross-cutting themes such as medical and computational applications. The task realizes an outcome-oriented extension of the H2020 CONCERT effort on RPR infrastructure classification, based on categories: (a) exposure platforms; (b) databases, sample banks, cohorts; (c) analytical platforms, models, tools.

Subtask 5.4.2. Guidelines of best practices for sustainable, harmonized RPR infrastructures. (Lead: EK, CEA, IRSN, UTartu, ISS, PHE, BfS, all Platforms)

Task 5.4.2 will develop a framework of guidelines to promote best practices for sustainable RPR infrastructures within a harmonized European context, building on the work in Task 5.4.1. A virtual/hybrid RPR infrastructure stakeholder panel will be employed, in coordination with Tasks 3.3 and 3.4. Furthermore, the task will seek contributions from the IOC to help identify best practices and determine the desired position of RPR within the European infrastructures space. The task serves as an input to the strategic plan (Task 5.4.3) and supports updating the PIANOFORTE Joint Roadmap (Task 2.2).

Subtask 5.4.3. Strategic plan for radiation protection research (RPR) infrastructures. (Lead: UTartu, CEA, EK, ISS, DH-PHE, BfS, IRSN, all Platforms)

Task 5.4.3 will create a strategic plan for the inclusion of users, research, industry and policymakers in the development and advancement of RPR infrastructures. Priorities (pillars) for RPR infrastructures to address (e.g. visibility/promotion, industry dialogue, etc.) will be elaborated. To evaluate and align the strategy and priorities with emerging needs of RPR infrastructures, the task will seek contributions from the IOC, and a virtual/hybrid stakeholder panel/workshop will be organised in coordination with Tasks 3.3 and 3.4. The task will incorporate findings from Tasks 5.4.1 and 5.4.2, and engage in dialogue with Task 2.2, to ensure that RPR infrastructures issues are addressed in the updated PIANOFORTE Joint Roadmap.

Task 5.5 - Developing a plan and vision for data management and approaches to exploitation of archived data (Lead: BfS, Contributors: DH-PHE, UCAMB, NCSR)

The main focus of this task is to develop and promote a Data Management Plan (DMP) according to the FAIR principles to support its use within the radiation research community and the move to the principles of ‘open science’. The DMP includes the security, regulatory and ethical issues to ensure secure, transparent and efficient data storage, maintenance, access and utilisation.

Subtask 5.5.1. Drafting a plan and vision for data management (Lead: – BfS, Contributors: DH-PHE, UCAMB)

The DMP to support implementation of the research roadmap will be drafted in close contact with the key stakeholders in the field. The DMP will be based on the FAIR principles and enable open science principles. The inputs from the experts and the demands of data producers and users will be incorporated in the DMP draft to address the current problems associated with data exchange and archiving.

The DMP will address the key issues of the type and structure of data in research projects (former and upcoming – through the open calls), standardised strategies for data collection and archiving, and secure, transparent means of data sharing and exploitation.

Subtask 5.5.2. Promoting and training on available data storage platform (STOREDB) (Lead – UCAMB, Contributor: BfS)

The DMP will encourage further use of the STORE databank for archiving and sharing research data by promoting STORE in the community and through the establishment of a training plan for radiation researchers, in partnership with WP4.

The plan will promote the implementation of the recent development of the Radiation Biology Ontology (RBO) (provided in RadoNorm 2021) to improve data structuring.

Subtask 5.5.3. Promoting the application of novel approaches to exploitation of archived data (Lead - BfS, Contributors: NCSR, UCAMB)

To improve the (re)use of the archived data, DMP promotes application of the novel approaches such as AI to management of radiation protection data. The efficient establishment of such a novel approaches requires the improvement and maintenance of compatible hardware and software platforms. To achieve this, events are planned in a Hackathon format, bringing together users and data providers at different levels, from the first steps of exchanging ideas to the presentation of the final structures for the development of the prototype software. To identify the requirements and challenges, a small pilot platform for applying AI to one type of dataset is proposed.

Deliverables (brief description and month of delivery)

D5.1 – Terms of reference for the WP5 Infrastructures oversight committee, including criteria for evaluation of applications for WP5 funds (Task 5.1 - M6)

D5.2 – Data Management Plan (Task 5.5 - M6)

D5.3 – Document describing the identified protocols and related qualification criteria on selected infrastructure classes (Task 5.3 – M24)

D5.4 – Document on identified key protocols and developed SOP, results of case studies (Task 5.3 – M48)

D5.5 Final report on training activities related to infrastructures (Task 5.2 – M60)

D5.6 – Report on challenges, best practices, and strategic plan for RPR infrastructures (Task 5.4, M60)

Milestones

MS5.1.1 Report on the actions of the IOC - M60

MS5.2.1 Recommendations to infrastructures for PIANOFORTE open calls - M12

MS5.2.2 Working document with definitions of RP research infrastructures and their classification, continuous update of infrastructures list - M18

MS5.2.3 Report on data, feedback and SWOT extracted from projects supported by PIANOFORTE - M60

MS5.3.1 Document on results of the funding schemes analysis for sustainable inter-comparison system of selected infrastructures - M30

MS5.4.1 Categorized list of identified challenges faced by RPR infrastructures (Task 5.4.1, CEA, M18)

MS5.4.2 Working document on desired position and best practices for RPR infrastructures (Task 5.4.2, EK, M30)

MS5.5.1 Report on improvement and maintenance of STORE – M60

MS5.5.3 Novel uses of AI in data management - M 60)

Work package number	WP6		Lead beneficiary			SURO	
Work package title	Knowledge management, communication, dissemination and impact creation						
Participant number	1	3	4	6	13	37	27
Short name of participant	IRSN	BfS	SU	DH-PHE	SURO	CEA	CIEMAT
Person months per participant:	3.5	1	1	3	30	1	3
Participant number	34	45	33	31	22	49	32
Short name of participant	DSA	EEAE	EIMV	EK	GIG	IST	JSI
Person months per participant:	3	0.5	1	3	1	0.5	0.5
Participant number	55	24	20	50	21	53	2
Short name of participant	NCRRP	NCSRD	NNK	RIVM	UTartu	VIAA	CEPN
Person months per participant:	0.5	2	3	10	3	7	3
Participant number	35	44					
Short name of participant	NMBU	HZDR					
Person months per participant:	4	0,5					
Start month	1			End month		60	

Objectives

The main objectives of WP6 are:

- To enable bidirectional communication about PIANOFORTE and its results effectively to the broader research community, key stakeholders and the public
- To make PIANOFORTE open calls projects results transferable and accessible to audiences that may use the new knowledge, data and information in their own work, enable use and uptake of results and maximize the impact of the EU-funded research
- To develop practical knowledge management tools that contribute to the integration of national research programs as well as to a sustainable collective memory in the radiation protection field on the basis of open science principles.
- To exploit the outputs of PIANOFORTE in order to maximize its impact

Description of work

The WP6 aims to communicate, disseminate and exploit the outputs of the project, as well as to keep the sustainability of PIANOFORTE project. The focus of the communication activities is to inform about and promote results of the project to the multiple audiences in a bidirectional exchange. The communication and dissemination requirements will be specified in the PIANOFORTE Plan for Exploitation and Dissemination of Results (PEDR). The exploitation enables specific use of the project results through different (i.e. scientific and educational) routes by interested organizations or other target audiences outside the project itself. The WP6 will enable access to research data through on-line web repository.

Task 6.1: Knowledge management (Lead: RIVM; SURO, HZDR, UTartu, CIEMAT, EEAE, NCSRD, EK, NNK, DSA, NMBU, GIG, DH-PHE, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE,)

Task 6.1 consists of two subtasks, both of which aim to make the scientific output of PIANOFORTE available to audiences both within and outside the project. The aim of this subtask is to create a sustainable memory of PIANOFORTE's scientific results that is available across member states(subtask 6.1.1) as well as to participants in the partnership (subtask 6.1.2)

Subtask 6.1.1 (Lead RIVM):

M1-M60: this subtask aims to develop practical knowledge management tools that contribute to integration of national research programs as well as to a sustainable collective memory. To achieve this, we will 1) compare knowledge management tools developed in member states, with particular attention to barriers that complicate integration of national programs, 2) identify best practices developed in other European projects and 3) carry out a SWOT analysis (M 1-30). The outcomes of these steps will be incorporated in a white paper (M60) and used to develop practical tools for knowledge management tailored to the field of radiation protection (M60).

Subtask 6.1.2 (Lead: CIEMAT):

The success of PIANOFORTE is dependent not only on what is accomplished, but also on the effectiveness at communicating the outputs to all the participants in the partnership, as well as to external stakeholders. Effective communication means that we provide expected information to appropriate receiver, in the correct

format, on time and with the desired impact.

Considering complexity of the partnership the goal of the Internal Communication Plan (ICP) is to avoid duplication of efforts, to promote efficient use of project mid-results and to achieve possible synergies. For that, efficient flow of information and data among main consortium partners (beneficiaries), associated parties winning open calls as well students and young researchers participating in PIANOFORTE must be developed and properly maintained due the course of the project.

The ICP (M4) will be based on experience gained in past European projects, and will consist of a matrix of communication needs among all parties involved in PIANOFORTE, and the delivery schedules, to keep all PIANOFORTE participants well informed about plans, activities and results of the partnership.

Special attention will be paid to communication among teams involved in project realization (M6) selected in frame of open calls and with students and young researchers participating in PIANOFORTE. For that, the on-line communication tools developed in Task 6.3 (public and PIANOFORTE-partners web pages, social media, etc.) will be used, supported when needed, with mailing of the adequate information to the participants.

Task 6.2: Communication and dissemination (Lead: VIAA; CEPN, NCRRP, SURO, CEA, DSA, GIG, IST, UAVR, UP, JSI, DH-PHE ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE)

The objective of this work package is to facilitate an efficient communication among partnership members and to promote and disseminate the results effectively to the broader research community and key stakeholders.

Subtask 6.2.1 (Lead VIAA):

Communication. A comprehensive communication plan will be set up at the beginning of the partnership. This strategy will be continuously reviewed and adapted as needed in order to provide tailored information to the target groups through appropriate channels. The communication team will continuously involve the entire consortium in internal and external communication activities based on a variety of tools, including web-based communication such as the public PIANOFORTE website or social media (newsletters, information leaflets, videos); media such as partnership flyers (electronic versions preferred and printed only if appropriate) and press releases; conferences and workshops such as those organised by radiation protection research platforms MELODI, EURAMED, ALLIANCE, EURADOS, NERIS, SHARE or the EC.

Subtask 6.2.2 (Lead VIAA):

Exploitation and dissemination of results. The Plan for Exploitation and Dissemination of Results (PEDR) will be prepared for results generated by the PIANOFORTE network. Detailed call results, statistics and project abstracts will be published on the public website after each open call. Whenever open call projects are finished the main results will be checked and in selected cases success stories will be published. An online catalogue of funded projects will be compiled. Data will be prepared for online search and include options to filter by year, country, budget, timeframe, keywords, etc. This will help improve the knowledge about the European radiation protection research and give the opportunity to connect different research communities to create research consortia leading to efficiency gains in further funding efforts. In addition, PIANOFORTE intends to be present and visible at selected national and international events. The communication team will annually request all consortium members to list their scheduled participation in scientific, political, and commercial events for effectively enhancing PIANOFORTE impact. The following examples will be considered – among others - for these purposes: European Radiation Protection Week (ERPW), European Congress on Radiation Protection and International Conference on Radiation Safety. The PIANOFORTE consortium is also planning to organize 3 partnership seminars with the intention to support the consortia funded under the open calls in exploiting their results. Researchers will present their project progress, promote research results, and discuss potential applications. In the interest of efficiency, size of audience, and cost limitation, these seminars will be organized as satellite events to major conferences in which consortium members participate regularly. In case a physical meeting is not possible, various remote communication options – such as webinars and videoconferences – will be implemented. Each partner of the consortium will use their own digital platforms (website, blogs, social media) to direct the public and stakeholders to the PIANOFORTE platforms and social media channels. Therefore, partners will establish links on their central websites and ask stakeholders to support PIANOFORTE by doing so (in co-operation with WP3).

Task 6.3: On-line communication tools (Lead: SURO ;IRSN, EIMV, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE)

In the task 6.3, the online tools will be established for the communication and dissemination activities of the

PIANOFORTE. The communication and dissemination material will be based on the outputs from task 6.2. Subtasks are aimed at developing the web pages of the partnership, setting up corresponding social media, and to internal communication and storage system of the partnership. The identified stakeholder networks from the WP3, as well as research infrastructure identified in the WP5 shall be used for on-line communication and dissemination. All the online tools will be regularly maintained and updated.

Subtask 6.3.1 Partnership website and on-line tools (Lead: SURO)

The design of the graphics of the partnership will be developed, as well as the partnership website. All the information about PIANOFORTE will be visible at the website. News related to the partnership will be regularly updated and displayed. Connection to the social media channels will be made.

Subtask 6.3.2 Social media communication (Lead: SURO)

Several social media channels will be formed in order to reach different target communities, including wider public audience. Twitter and Facebook will be used for public information, LinkedIn and Research Gate will be used for professionals and scientific communities. Other social media (e.g. YouTube or TEDx) will be considered for video content. Information about open calls and other important PIANOFORTE milestones will be regularly communicated through these channels.

Subtask 6.3.3 Internal communication (Lead: SURO):

On-line project repository including internal partnership place will be established within subtask 6.3.3. One of the commercially accessible tools will be used for this purpose (e.g. Microsoft Sharepoint). Internal communication tool based on the commercially accessible tools (e.g. Microsoft Teams) will be prepared for the communication among all the partnership partners, as well as for organizations taking part in open calls utilizing efficient group and individual communication using deliverables from subtask 6.1.2.

Task 6.4: Impact creation (Lead: SU; IRSN, CEPN, SURO, BfS, CIEMAT, CEA, EK, NNK, RIVM, DSA, NMBU, EIMV, DH-PHE, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE)

The impact creation task will ensure that the results/knowledge created by PIANOFORTE reaches the appropriate target groups to improve radiation protection in the EU. It will use the stakeholder network set-up within WP3 and collaborate closely with WP3. The task is divided into 6 subtasks, the first of which aims at applying metrics to measure the impact of PIANOFORTE by comparing the level of relevant competence in the EU before and after the partnership. The aim of subtasks 2-5 is to assure that tangible PIANOFORTE results are received by the relevant stakeholders. The final subtask will assist researchers in forming strong consortia that will apply for projects via open calls, maximizing the research impact. **Subtask 6.4.1. (Lead: SU):**

Subtask 6.4.1 (Lead: SU) Measuring impact. M1-M8: To define metrics for measuring impact. M8-M14: To map competence in radiation protection in the EU (radiation protection institutes and radiation protection research groups) and apply metrics (situation at the beginning of PIANOFORTE). Input will come from Subtask 2.3.4 (WP2). M60: Apply metrics to measure impact (situation at the end of PIANOFORTE).

Subtask 6.4.2 (Lead: BfS): Impact creation via stakeholders

The objective is to organise annual web meetings of PIANOFORTE beneficiaries and SAB members to present the development of PIANOFORTE and its impact on radiation protection in the EU. This subtask will be performed in collaboration with WP3.

Subtask 6.4.3 (Lead: IRSN): Impact creation via national representatives to EURATOM and the EC Scientific and Technical Committee (STC)

The Subtask leader will organize show case meetings for EURATOM national representatives and the EC Scientific and Technical Committee to present the development of PIANOFORTE and its impact on radiation protection in the EU.

Subtask 6.4.4 (Lead: CEPN): Impact creation via international RP organisations

The Subtask leader (assisted by task participants) will organize show case meetings for IRPA, ICRP, ICRU, UNSCEAR, HERCA, NEA/CRPPH, EAN, ISOE, IAEA, WHO, ILO to present the development of PIANOFORTE and its impact on radiation protection in the EU, in coordination with WP3.

Subtask 6.4.5 (Lead: EK): Impact creation via national RP offices and organisations.

The Subtask leader (assisted by task participants) will organize show case meetings for European national RP offices to present the development of PIANOFORTE and its impact on radiation protection in the EU.

Subtask 6.4.6 (Lead: NNK): Impact creation via projects.

When open calls for projects are launched, the subtask leader (assisted by task participants) will organize information meetings for EU researcher groups about the call content and expectations to achieve impact. This will facilitate the formation of strong research consortia, leading to results with high impact for radiation protection.

Deliverables (brief description and month of delivery)

- D6.1 Strategy and plan for communication, dissemination and exploitation of results (M2) (VIAA)
- D6.2 Internal communication plan (M4) (CIEMAT)
- D6.3 External communication plan (M4) (VIAA)
- D6.4 Information on projects selected for funding (M 25/37/49) (VIAA)
- D6.5 Dissemination video (M12) (VIAA)
- D6.6 Knowledge management SWOT analysis (M30) (RIVM)
- D6.7 Final report on printed and digital material (M60) (VIAA)
- D6.8 Report on impact creation (M60) (SU)
- D6.9 Knowledge management white paper (M60) (RIVM)
- D6.10 Report on on-line tools (M60) (SURO)
- D6.11 Communication and dissemination final report (M60) (VIAA)
- D6.12 Project catalogue of all funded projects (M60) (VIAA)

Milestones (brief description and month of delivery)

- MS6.1 Information for the PIANOFORTE web and social media channels (M3 and regular updates)
- MS6.2 Establishment of the on-line tools (M3 and regular updates)
- MS6.3 Communication plan (M2 and regular updates)
- MS6.4 Partnership seminars (M 25/37/49)
- MS6.5 Printed and digital materials reports (M6 and regular updates)
- MS6.6 Practical tool for knowledge management (M60)

Work package number	WP7	Lead beneficiary			NCBR
Work package title	Organisation and management of PIANOFORTE R&I Open Calls				
Participant number	29	19	57		
Short name of participant	NCBR	IFA	MUR		
Person months per participant:	56	0,5	0,5		
Start month	1		End month	60	

Objectives

The aim of WP7 is to organize and manage three international open research calls of the PIANOFORTE project, in accordance with the approved Annual Work Programme of PIANOFORTE and based on the priorities established in WP2. Research priorities will be agreed by Executive Board in interaction with stakeholders and Advisory Board. The corresponding funding resource is made up in part by the EURATOM grant to PIANOFORTE, as specified in the Annual Work Programme, to which will be added a national co-fund contributions. This may come from the national POM or reflect in-kind contributions by consortium members and their affiliated entities (AE). This co-fund contributions will be as high as possible, making use of the high degree of flexibility permitted by the co-fund Partnership instrument, and taking into account the available cash and in kind resources, in order to maximize the impact of the EC EURATOM Grant on the PIANOFORTE scientific and integration objectives. Call applications will describe their proposed funding scheme, including the amount of envisaged EC PIANOFORTE grant contribution and the envisaged co-fund contributions (in kind or in cash) from PIANOFORTE member organizations. Other external resources may also be foreseen, in order to decrease the cost to PIANOFORTE of the proposal, however, these complementary external resources will not generate any further EC grant contribution. This WP and the call process is designed in such a way to meet the following requirements, in order to achieve

the highest level of trust by all parties involved and external stakeholders on major ethical issues:

- Ensuring transparency, whilst maintaining confidentiality of processed information where and when appropriate,
- Preventing the occurrence of conflicts of interest,
- Ensuring equal treatment of the applications made in response to its calls,
- when taking decision, particularly on RTD projects to be funded within the foreseen budgets, on the sole basis of scientific quality and expected implementation performance and impact with respect to PIANOFORTE's overall objectives.

The WP7 team will be formed by NCBR, which have the necessary competence and experience to manage open calls as well as the necessary independence to play this role in the Consortium and in PIANOFORTE project. Team involved in WP7 will not intend to respond to the open research calls. The implementation of open research calls will be improved according to the lessons learned in the previous EJP CONCERT and will be built on the established procedures and documents.

Description of work

Task 7.1: Setting up a Calls Secretariat and Call Steering Committee (CSC) (Lead: NCBR, participants: UEFISCDI, MUR)

The WP7 team will constitute a Joint Calls Secretariat (JCS). The JCS will be in charge of the preparation and implementation of the three open calls (Tasks 7.2 and 7.3). JCS will be a central call management office, separated from the rest of the project governance system (firewall) to avoid possible conflict of interest. The JCS will act as a central helpdesk to the applicants regarding all aspects of proposal drafting and submission. Advice will be available continuously by telephone and e-mail throughout the entire period of call implementation. After proposal submission, the JCS will be responsible for organizing the eligibility check, evaluation process and preparation of Ranked List of Eligible Projects (RLEP). In order to make the open calls preparation transparent and to avoid any conflict of interest the Call Steering Committee (CSC) will be established. The CSC will monitor all actions taken by the JCS.

Task 7.2: Preparation of the Open Call documents and launch of the calls (Lead: NCBR, participants: UEFISCDI, MUR)

On the basis of the set of documents provided by WP2 Lead the CS will prepare an open calls documents. The final version of all documents will be provided to the EC RTD Fission Unit through a restricted communication channel. Once finalized, the call documents will be kept confidential. The JCS will be responsible for drafting and finalizing all necessary call documents as well as collecting the necessary information. The documents include:

1. The Call Text, which specifies the aim and topic of the call, the application procedure (including deadlines), the evaluation procedure as well as other financial and legal issues including intellectual property and open access publication. In addition the funded research projects will be required to follow PIANOFORTE policies and guidelines.
2. The Governance of the Call and Evaluation document, which describes in detail steps and rules of the call for proposals, especially the evaluation and selection process.
3. Guidelines for applicants, which describe the administrative details of the application procedure and include country specific information from different national funding agencies.
4. Proposal templates for full proposal stage.
5. For the experts/reviewers/peer review panel: declaration of commitment, a declaration concerning confidentiality of information and a declaration of interests.

In addition to these documents, the task leader will provide an electronic submission and evaluation system for the calls.

The call for proposals will be published on the PIANOFORTE open R&I Call website, Funding & Tenders Portal as well as, simultaneously, on chosen communication channels aiming to ensure appropriate information coverage for the scientific communities concerned. If feasible and necessary, a call pre-announcement will be published to maximize the early mobilization of the radiation protection research community. The date of publication will be set in consultation with EC RTD Fission Unit and in agreement with the Coordinator and WP 7 Leader. The EC will be duly notified of the call and its content at least 30 days before the expected date of publication. The call will be opened for the submission of proposals for at least 2 months. It is anticipated

that the Open calls will be launched at months 10, 22 and 34.

Task 7.3: Implementation of the open calls (*Lead: NCBR, participants: UEFISCDI, MUR*)

The JCS will act as central helpdesk to the applicants regarding all aspects of proposal drafting and submission. Applications are established according to the PIANOFORTE open research call specifications that will be validated in task 7.2. The JCS will gather lists of recognized external experts from different filed and with the necessary complementary scientific skills in order to allow a timely and transparent evaluation of each proposal by at least three experts. These experts may come from any country (EU or not), and may have a previous experience in assessing EURATOM or other EC RTD proposals. They must sign a declaration of commitment, a declaration concerning confidentiality of information and a declaration of interests as prepared in Task 7.2. After proposal submission deadline, the JCS will be responsible for the formal check of the submitted proposals and the organization of the eligibility check of the applicants. All applications are evaluated by three independent evaluators, chosen after carefully checking any potential conflict of interest with the entities involved in the proposal. The evaluation criteria and scoring system is based on Annex D of the EURATOM Work Programme 2021-2022, supplemented by a PIANOFORTE Open Call evaluation manual to be used by evaluating experts, which will be developed in Task 7.2. These criteria are made up of three groups of equal importance: scientific excellence, expected impact towards PIANOFORTE's scientific and integration objectives; quality and efficiency of the implementation. In a second stage, all applications will be discussed in a Peer Review Panel (PRP) meeting, which will allow them to confront their quotations, and reach consensus on the establishment of a common Applications Assessment Report, as well as a Ranked List of Eligible Projects (RLEP) identifying those applications with marks above the eligibility thresholds as specified in the evaluation procedures defined in task 7.2. The selection procedure will be followed by an independent expert who will act as an official observer and who will make a report. JCS will take all lawful steps to ensure confidentiality of information and documents obtained during the evaluation and selection procedures of the open research call. After the finalization of all open calls procedures, the list of experts will be made public.

Task 7.4 Quality management of open research calls procedures (*Lead: NCBR*)

It is important to determine whether the calls are efficient and relevant. After each call, the JCS will carry out the internal evaluation. The lessons learned will feed the call design and implementation of the next open research calls. In addition, detailed statistics and information of the submitted, evaluated and recommended and funded proposals will be collected and made available on the demand of the European Commission and other interested actors. After 3rd call JCS will prepare final report on the monitoring of open research calls.

Deliverables (brief description and month of delivery)

D7.1 PIANOFORTE open Call 1

- D7.1.1 Call documents: Governance of the Call and Evaluation document, Call Text, Guidelines for applicants, Proposal templates, for the PIANOFORTE open Call 1 (Month 10)
- D7.1.2 Ranked List of Eligible Projects to be funded from the joint international peer review of full proposals for the PIANOFORTE open Call 1 (Month 17)

D7.2 PIANOFORTE open Call 2

- D7.2.1. Call documents: Governance of the Call and Evaluation document, Call Text, Guidelines for applicants, Proposal templates, for the PIANOFORTE open Call 2 (Month 22)
- D7.2.2 Ranked List of Eligible Projects to be funded from the joint international peer review of full proposals for the PIANOFORTE open Call 2 (Month 28)

D7.3 PIANOFORTE open Call 3

- D7.3.1 Call documents: Governance of the Call and Evaluation document, Call Text, Guidelines for applicants, Proposal templates, for the PIANOFORTE open Call 3 (Month 34)
- D7.3.2 Ranked List of Eligible Projects to be funded from the joint international peer review of full proposals for the PIANOFORTE open Call 3 (Month 40)

D7.4 final report on the monitoring of the open research calls (Month 60)

Milestones

M7.1.1 – 1st PIANOFORTE open research call announced (M10)

M7.1.2 – Submitted proposals to 1st call evaluated (not later than month 17)

M7.2.1 – 2nd PIANOFORTE open research call announced (M22)

M7.2.2 – Submitted proposals to 2nd call evaluated (not later than month 28)

M7.3.1 – 3rd PIANOFORTE open research call announced (M34)

M7.3.2- Submitted proposals to 3rd call evaluated (not later than month 40)

Table 3.1c: List of Deliverables

Deliverable (number)	Deliverable name	WP N°	Short name of lead participant	Type	Dissemination level	Delivery date (in months)
D1.1	First periodic report to the EC in accordance with the provisions of the consortium contract	1	IRSN	Report	PU	9
D1.2	Annual work programme for year 2 (M9)	1	IRSN	Report	PU	9
D1.3	Second periodic report to the EC in accordance with the provisions of the consortium contract	1	IRSN	Report	PU	21
D1.4	Annual work programme for year 3 (M21)	1	IRSN	Report	PU	21
D1.5	Third periodic report to the EC in accordance with the provisions of the consortium contract	1	IRSN	Report	PU	33
D1.6	Annual work programme for year 4 (M33)	1	IRSN	Report	PU	33
D1.7	Fourth periodic report to the EC in accordance with the provisions of the consortium contract	1	IRSN	Report	PU	45
D1.8	Annual work programme for year 5	1	IRSN	Report	PU	45
D1.9	Fifth periodic report to the EC in accordance with the provisions of the consortium contract	1	IRSN	Report	PU	57
D1.10	Final report of the consortium	1	IRSN	Report	PU	60
D2.1.1	Research priorities for the first open call	2	NNK	Report	PU	10
D2.1.2	Research priorities for the second open call	2	CIEMAT	Report	PU	23
D2.1.3	Research priorities for the third open call	2	NNK	Report	PU	35
D2.1.4	Main conclusions and lessons learned from the whole prioritization process, identifying new research for the updated joint roadmap	2	CIEMAT	Report	PU	54
D2.2.1	Second edition of the Joint Roadmap	2	SCK CEN	Report	PU	54
D2.3.1	Guidelines on integration of social sciences and humanities	2	SCK CEN	Report	PU	6
D2.3.2	Report on integration of projects	2	STUK	Report	PU	54
D.2.4.1	Review of AI and big data implementations in RP	2	NCSR	Report	PU	54
D.2.4.2	Minutes of the Technical Meeting on AI and big data implementations in RP	2	IRSN	Report	PU	54
D.2.4.3	Recommendations on the uptake of AI in R&I calls	2	OVGU	Report	PU	42
D.2.4.4	Report on ethical aspects of AI in radiation protection		U. Exeter	Report	PU	42
D3.1/2/3	Stakeholder comments on Exeboard suggestion for call topics & criteria from connected entities (3.1.1), SAB (3.3.1) and online consultations of target groups (3.4.3) for each call	3	BfS	Report	PU	8 /12 /32
D3.4	General stakeholder recommendations for the PIANOFORTE open calls (call criteria, what partnership projects should look for wrt stakeholder activities).	3	IMROH	Report	PU	3
D3.5	Stakeholder and Advisory Board composition, mission and rules	3	CIEMAT	Report	PU	3
D3.6	First version of the Stakeholder Engagement Plan	3	CIEMAT	Report	PU	6
D3.7	Report with the view on recommended clinical and research practices in moder proto therapy	3	IFJ	Report	PU	6
D3.8	E-survey on public understanding of radiation protection issues	3	EK	Report	PU	9
D3.9	Report – Conclusions from the Proton Therapy	3	IFJ	Report	PU	18

	workshops					
D3.10	Stakeholder topical meetings – overview and input results to the Research Calls within the Partnership	3	NMBU	Report	PU	36
D3.11	Update of the Stakeholder Engagement Plan	3	CIEMAT	Report	PU	40
D3.12	Exploring the stakeholders’ view on strategic research agenda and joint roadmaps in the radiation protection – input from topical meetings throughout the project	3	DSA	Report	PU	56
D3.13	Stakeholder and Advisory Board activities and feedback during PIANOFORTE	3	BfS	Report	PU	60
D4.1	Rules and guidelines for the support of: 1) courses, 2) the mobility programme for PhD students and early career researchers, 3) CPD for RP professionals	4	NMBU	Report	PU	1
D4.2	Criteria for financing a European PhD and early career researcher/professional association (M3)	4	SCK CEN	Report	PU	3
D4.3.1	Report on the received applications, evaluation, consultation with PIANOFORTE beneficiaries and final decision of the calls, including financial reporting of task 1, 2, 3 and 4.1	4	SU	Report	PU	12
D4.3.2	Id.	4	SU	Report	PU	24
D4.3.3	Id.	4	SU	Report	PU	36
D4.3.4	Id.	4	SU	Report	PU	48
D4.3.5	Id.	4	SU	Report	PU	60
D4.4	Report on a sustainable E&T infrastructure, including subtask 4.4.2	4		Report	PU	36
D5.1	Terms of reference for the WP5 Infrastructures oversight committee, including criteria for evaluation of applications for WP5 funds	5	DH-PHE	Report	PU	6
D5.2	D5.2 – Data Management Plan	5	BfS	Report	PU	6
D5.3	Document describing the identified protocols and related qualification criteria on selected infrastructure classes	5	ISS	Report	PU	24
D5.4	Document on identified key protocols and developed SOP, results of case studies	5	CEA	Report	PU	48
D5.5	D5.11 Final report on training activities related to infrastructures	5	CEA	Report	PU	60
D5.6	Strategic workplan for RPR infrastructures	5	Utartu	Report	PU	60
D6.1	Strategy and plan for communication, dissemination and exploitation of results	6	VIAA	Report	PU	2
D6.2	Internal communication plan	6	CIEMAT	Report	PU	4
D6.3	External communication plan	6	VIAA	Report	PU	4
D6.4	Information on projects selected for funding	6	VIAA	Report	PU	17/29/41
D6.5	Dissemination video	6	VIAA	Video	PU	12
D6.6	Knowledge management SWOT analysis (M30)	6	RIVM	Report	PU	30
D6.7	Final report on printed and digital material (M60)	6	VIAA	Report	PU	60
D6.8	Report on impact creation	6	SU	Report	PU	60
D6.9	Knowledge management white paper	6	RIVM	Report	PU	60
D6.10	Report on on-line tools	6	SURO	Report	PU	60
D6.11	Communication and dissemination final report	6	VIAA	Report	PU	60
D6.12	Project catalogue of all funded projects	6	VIAA	Report	PU	60
D7.1.1.	Call documents: governance of the Call and evaluation document, call text, Guidelines for applicants, proposal templates, for the PIANOFORTE open Call1	7	NCBR	Report	PU	10
D7.1.2	Ranked list of eligible projects to be funded from the joint international peer review of full proposals for the PIANOFORTE open Call 1	7	NCBR	Report	PU	17
D7.2.1.	Call documents: governance of the Call and evaluation document, call text, Guidelines for applicants, proposal	7	NCBR	Report	PU	22

	templates, for the PIANOFORTE open Call2					
D7.2.2	Ranked list of eligible projects to be funded from the joint international peer review of full proposals for the PIANOFORTE open Call 2	7	NCBR	Report	PU	28
D7.3.1	Call documents: governance of the Call and evaluation document, call text, Guidelines for applicants, proposal templates, for the PIANOFORTE open Call 3	7	NCBR	Report	PU	34
D7.3.2	Ranked list of eligible projects to be funded from the joint international peer review of full proposals for the PIANOFORTE open Call 3	7	NCBR	Report	PU	40
D7.4	Final report on the monitoring of the open research calls	7	NCBR	Report	PU	60

Table 3.1d: List of milestones

Milestone number	Milestone name	Related WP	Due date (in month)	Means of verification
MS1.1	Negotiations with successful applicants of the first PIANOFORTE open research call finalised and grants signed	1	18	Grant contract signed
MS1.2	Negotiations with successful applicants of the second PIANOFORTE open research call finalised and grants signed	1	30	Grant contract signed
MS1.3	Negotiations with successful applicants of the third PIANOFORTE open research call finalised and grants signed	1	42	Grant contract signed
MS2.1.1	Finalisation of the first prioritisation procedure for the first open call to be launched	2	6	report to the coordinator
MS2.1.2	Finalisation of the second prioritisation procedure for the second open call to be launched	2	19	report to the coordinator
MS2.1.3	Finalisation of the third prioritisation procedure for the third open call to be launched	2	31	report to the coordinator
MS2.2.1	Analysis of the consultation on the 1 st edition of the Joint Roadmap	2	4	Report to the coordinator
MS2.2.2.	Identification of changes in science, technology, society and environment affecting the Joint Roadmap	2	32	Report to the coordinator
MS2.2.3	New draft Joint Roadmap	2	36	Report to the coordinator
MS2.2.4	Questionnaire for stakeholder consultation on the new draft Joint Roadmap	2	48	Report to the coordinator
MS2.3.1	Concept design of the reporting tool	2	6	Report to the coordinator
MS.2.4.1	Technical Meeting on AI and big data implementations in RP	2	24	The technical meeting has taken place and the conclusions are documented in D.2.4.2
MS.2.4.2	Interactive sessions with tasks 5.3, 5.5 and 6.1	2	42	The sessions have taken place
MS.2.4.3	Workshop with leading experts on ethics and AI	2	36	The technical meeting has taken place and the conclusions are documented in D.2.4.4.
MS3.1	SAB feedback to the first research prioritization process for the first open call	3	13-15	Report to the coordinator
MS3.2	SAB feedback to the second research prioritization process for the second open call	3	24-26	Report to the coordinator
MS3.3	SAB feedback to the third research prioritization process for the third open call	3	36-38	Report to the coordinator
MS3.4	E-survey on public understanding of radiation protection issues - launching	3	4	Report to the coordinator
MS3.5	First series of topical online meetings (consultations before Open call)	3	6- 9	Report to the coordinator

MS3.6	Second series of topical online meetings (consultations before Open call) –	3	15-20	Report to the coordinator
MS3.7	Third series of topical online meetings (consultations before Open call)	3	25-30	Report to the coordinator
MS3.8	Topical meetings – stakeholders’ input to update of SRA and JRM of radiation protection research	3	50	Report to the coordinator
MS5.1.1	Report on the actions of the IOC	5	60	Report to the coordinator
MS5.2.1	Recommendations to infrastructures for PIANOFORTE open calls	5	12	Report to the coordinator
MS5.2.2	Working document with definitions of RP research infrastructures and their classification, continuous update of infrastructures list	5	18	Report to the coordinator
MS5.2.3	Report on data, feedback and SWOT extracted from projects supported by PIANOFORTE	5	60	Report to the coordinator
MS5.3.1	Document on results of the funding schemes analysis for sustainable inter-comparison system of selected infrastructures	5	30	Report to the coordinator
MS5.4.1	Categorized list of identified challenges faced by RPR infrastructures	5	18	Report to the coordinator
MS5.5.1	Report on improvement and maintenance of STORE	5	60	Report to the coordinator
MS5.5.3	Novel uses of AI in data management (Task 5.5 - Month 60)	5	60	Report to the coordinator
MS6.1	Information for the PIANOFORTE web and social media channels	6	3 and updates	Report to the coordinator
MS6.2	Establishment of the on-line tools	6	3 and updates	Report to the coordinator
MS6.3	Communication Plan	6	3 and update	Report to the coordinator
MS6.4	Partnership seminars	6	25/37/49	Report to the coordinator
MS6.5	Printed and digital materials reports (M6 and regular updates)	6	6	Report to the coordinator
MS6.6	Practical tool for knowledge management (M60)	6	60	Report to the coordinator
MS7.1	1st PIANOFORTE open research call announced	7	10	Publication of the call
MS7.2	Submitted proposals to 1st call evaluated	7	17	Report to the coordinator
MS7.3	2nd PIANOFORTE open research call announced	7	22	Publication of the call
MS7.4	Submitted proposals to 2nd call evaluated	7	29	Report to the coordinator
MS7.5	3rd PIANOFORTE open research call announced	7	34	Publication of the call
MS7.6	Submitted proposals to 3rd call evaluated	7	41	Report to the coordinator

Table 3.1e: Critical risks for implementation

Description of risk	WP	Proposed risk-mitigation measures
The size of the consortium is large and requires clear management processes at all levels of the consortium (consortium, WPs, TLs) and in absence of, project can be jeopardized Likelihood : Low; Severity : High	WP1 to WP7	Coordinator and WP leaders and their organisations have a long-standing experience in managing projects at the national and international level (i.e. in European projects such as DoReMi, COMET, OPERRA, CONCERT). The PIANOFORTE has in place: <ul style="list-style-type: none"> - Tight coordination of the activities - Frequent WP videoconferences - Strong motivation of participants who consider their proposed tasks clear, feasible, useful and strategic.
Lack of coordination Likelihood : low; Severity : High	WP1	The coordination will be ensured by the managerial experience of IRSN with the support for legal, administrative and financial issues from IRSN

		dedicated Departments. In addition, IRSN is managing research in the field of nuclear safety and waste management. A dedicated structure is in place in IRSN to manage European projects and contracts. Very experienced large organisations in project coordination (BfS, SCK-CEN, DH-PHE...) are part of the consortium and members of the ExB.
Failure to launch Open Calls in due time Likelihood: medium Severity: High	WP2 WP7	Within the consortium there is an important experience with the organisation of open calls and a REX of the open call organisation process was made after CONCERT. The WP7-leader responsible for the open calls organisation is experienced entity in organizing calls and though chances of success of timely organising and evaluating the calls are maximal.
Missing or late input into priority setting Likelihood: low; Severity: low	WP2 WP3	There is a wide range of input to be expected on the priority setting. The list of parties and sources that will provide input are clearly described in the project proposal, and in collaboration with WP3, the list of relevant stakeholders will be timely elaborated and contacted. If one or few of these parties will fail to give input in time, this will still have relatively limited effect, as input will come from many parties and sources.
No agreement on priority setting Likelihood: medium; Severity: medium	WP2	The procedure on how to come to a consensus is well described in the project proposal and globally agreed upon, and this approach will be followed. The final priority setting will be decided by the GA, which explicitly includes all POMs
Lack of collaboration and information exchange between the selected research projects Likelihood: small; Severity: small	WP2	A specific task is included in the project to minimize the likelihood of accepted projects working in isolation.
Failure to involve all appropriate stakeholders Likelihood: medium, Severity: medium	WP3	<ul style="list-style-type: none"> • Identification and analysis of stakeholder and interest groups and planned targeted dissemination actions early in the project. • Seeking to understand the impact to each stakeholder. • Throughout the project, continuously identify and manage stakeholders • evaluation/ track the engagement of stakeholders <p>WP Leader and partners have close contacts to and vivid exchange with Stakeholders, e.g. as part of their national activities and duties (committee work) and in connection to other projects (e.g. RadoNorm). The severity hinges strongly on the willingness of the target group's acceptance of scientific results and translation into actual radiation protection improvements; less on the scientific excellence of the work done in the calls, which will be well aligned with longstanding priorities through the large work on prioritization done before.</p>
Failure to keep stakeholders updated Likelihood: medium, Severity: small	WP3	maintain consistent communication throughout the lifecycle of a project;
1. Pandemic situation prevents physical participation in courses Likelihood: medium, Severity: low 2. Number of applications is low Likelihood: low, severity: medium 3. Course offer found unsatisfactory by stakeholders Likelihood: low, severity: medium	WP4	<ol style="list-style-type: none"> 1. Course organisers will be asked to prepare remote teaching versions of the events 2. Intensify announcement of funding option 3. Actively promote applications of dedicated courses
Failure to establish processes to facilitate access to and use of relevant RP infrastructures Likelihood : medium, severity medium	WP5	This key aim will build on a number of previous actions including the identification of EU RP infrastructures which was carried out under CONCERT, as well as established relationships between the WP management team and those responsible for the infrastructures. While the introduction of new infrastructures is envisaged, the existing links should mitigate the chance of failure. In addition, the WP management team (WP and tasks leads) are highly experienced in the successful running of such large-scale research programmes, and will work closely with the ExB to address early any issues arising.
Insufficient dissemination and exploitation of results, lack of impact creation	WP6	Accent on on-line communication and dissemination tools will be made. Physical show case meetings will be moved to the virtual ones.

Table 3.1f: Summary of staff effort

N°	Organisation	WP1	WP2	WP3	WP4	WP5	WP6	WP7	Total
1	IRSN	150	5,75	1,5	0	1,5	3,5	0	162,25
10	SCK CEN	2	40,75	5	5	0	0	0	52,75
11	KU Leuven	0	0	2	0	0	0	0	2
55	NCRRP	0,25	5,75	0	0	0	0,5	0	6,5
36	FOPH	0,25	0,75	0	0	0	0	0	1
13	SURO	2	0,75	0	0	0	30	0	32,75
3	BfS	2	0,75	52	1	10,75	1	0	67,5
18	OVGU	0	5	0	0	0	0	0	5
44	HZDR	0,25	0,75	0	0	0	0,5	0	1,5
43	DEMA	0,25	0,75	0	0	0	0	0	1
21	Utartu	0,25	0,75	1,5	1	11,5	3	0	18
27	CIEMAT	0,25	7	13	0	1,5	3	0	24,75
28	Merience	0	0	1	0	0	0	0	1
9	MELODI	0	0	0	1	1	0	0	2
12	EURADOS	0	0	0	1	1	0	0	2
14	NERIS	0	0	0	1	1	0	0	2
15	ALLIANCE	0	0	0	1	1	0	0	2
16	SHARE	0	0	0	1	1	0	0	2
17	EURAMED	0	0	0	1	1	0	0	2
25	UEF	0,25	0,75	0	0	0	0	0	1
26	STUK	0	8	0	0	0	0	0	8
2	CEPN	0	0	1,5	0	0	3	0	4,5
37	CEA	0,25	3,25	0,5	0	13,5	1	0	18,5
38	UnCaen	0	0	2	1	0	0	0	3
39	INSERM	0	2,5	0	0	0	0	0	2,5
40	CNRS	0	0	0	0	1,5	0	0	1,5
24	NCSR	0,25	12,75	0	0	1	2	0	16
45	EEAE	0,25	0,75	0,5	0	0	0,5	0	2
46	IMROH	0,25	0,75	8	0	1,5	0	0	10,5
47	U.Zagreb	0	0	0,5	0	0	0	0	0,5
20	NNK	0,25	12,5	0	1	0	3	0	16,75
31	EK	0,25	4,75	2	5	6	3	0	21
58	EPA	0,25	0,75	0	0	0	0	0	1
30	ISS	0,25	5,75	1	0	10,75	0	0	17,75
41	ENEA	0,25	4,75	0	0	0	0	0	5
42	UnPv	0	0	0	1	1,5	0	0	2,5
54	INFN	0,25	0,75	2	0	3,5	0	0	6,5
57	MUR	0,25	0,75	0	0	0	0	0,5	1,5
53	VIAA	0,25	0,75	0	1	0	7	0	9
50	RIVM	0,25	0,75	0	0	0	10	0	11
51	NRG	0	0	0,5	0	0	0	0	0,5
34	DSA	0,25	0,75	9	0	0	3	0	13
35	NMBU	0	0	5	5	0	4	0	14
22	GIG	0,25	0,75	1,5	1	0	1	0	4,5
23	IFJ PAN	0	0	4	0	0	0	0	4
29	NCBR	3	1	0	0	0	0	56	60
48	APA	0,25	0,75	0	0	0	0	0	1
49	IST	0,25	0,75	2	1	0	0,5	0	4,5
19	IFA	0,25	0,75	0	0	0	0	0,5	1,5
4	SU	2	0,75	0,5	31	0,5	1	0	35,75
5	SKANDION	0	0	2	0	0	0	0	2
52	SSM	0,25	5	0	0	0	0	0	5,25
32	JSI	0,25	4,75	1	1	2,5	0,5	0	10
33	EIMV	0	0	1,5	0	0	1	0	2,5
56	UVZSR	0,25	0,75	0	0	0	0	0	1
6	DH-PHE	2	0,75	0,5	0	15	3	0	21,25
7	UCAMB	0	0	0	0	3	0	0	3
8	U.Exeter	0	3	0	0	0	0	0	3
	Total	170	148,75	121,5	61	91,5	85	57	734,75

Table 3.1g: ‘Subcontracting costs’ items

	Cost (€)	Description of tasks and justification
3-BfS		
Subcontracting	50 000	Organisation of an e-survey
Subcontracting	520 000	Organisation of 12 on-line consultation meetings
13-SURO		
Subcontracting	50 000	Website development
37-NCBR		
Subcontracting	10 000	Submission system (licence for 3 calls)

Table 3.1h: ‘Purchase costs’ items (travel and subsistence, equipment and other goods, works and services)

	Cost (€)	Justification
1-IRSN		
Travel and subsistence	16 000€	Travel ExB/GA meetings (6000€), Travel WP2 meetings (2000€), travel WP3 stakeholder meetings (6000€), travel WP6 impact creation meetings (2000€),
Other goods & services	1 283 000 €€	Audit (8000€), Meeting organisation WP1, logistics expenses for GA meetings (room, coffee break) 30 000€, WP5 Funds to allocate for training (75000€) and intercomparison (50000€), WP4 : Training courses (900 000€), Travel grants (100.000€), Vocational training (100 000€), Early career support (20 000€)
2-CEPN		
Travel and subsistence	2000€	Travel WP6 meetings
10-SCK CEN		
Travel and subsistence	32 000€	Travel WP1 meetings (3000 €), WP2 meetings (18 000€), WP3 meetings (9000 €), WP4 meetings (2000€),
Other goods & services	6 500€	WP2 meeting organisation (6500€)
11-KU Leuven		
Travel and subsistence	2 000€	WP3 meeting (2000 €)
55-NCRRP		
Travel and subsistence	8 000 €	Travel WP1 meetings (3000€), WP2 meetings (3000€), WP6 meetings (2000€)
36-FOPH		
Travel and subsistence	3 000€	Travel WP1 meetings (3000 €)
13-SURO		
Travel and subsistence	5 000€	Travel WP1 meetings (3000 €), WP6 meetings (2000€)
Other goods & services	52 500€	Web site development (50.000€), Audit (2500€)
3-BfS		
Travel and subsistence	29 000€	Travel WP1 meetings (3000€), WP3 meetings (21.000€), WP4 meeting (2000€), WP5 meeting (1000€), WP6 meetings (2000€)
Other goods & services	173 000€	WP5 meetings organisation (10000€), SAB experts travel (150.000€), 13000€ audit costs
44-HZDR		
Travel and subsistence	5 000€	Travel WP1 meetings (3000€), WP6 meetings (2000€)
41-DEMA		
Travel and subsistence	3 000€	Travel WP1 meetings (3000€)
19-UTartu		
Travel and subsistence	14 000€	Travel WP1 meetings (3000€), WP3 meetings (6000€), WP4 meetings (2000€), WP5 meeting (1000€), WP6 meeting (2000€)
Other goods & services	10 000€	WP5 meetings organisation
27-CIEMAT		
Travel and subsistence	20 000€	Travel WP1 meetings (3000€), WP2 meetings (6000€), WP3 meetings (8000€), WP5 meeting (1000€), WP6 meetings (2000€)
28-Merience		
Travel and subsistence	4 000€	Travel WP3 meetings (4000€)

25-UEF	Cost (€)	Justification
Travel and subsistence	3 000€	Travel WP1 meetings (3000€)
26-STUK	Cost (€)	Justification
Travel and subsistence	3000€	Travel WP2 meetings (3000€)
Other goods & services	6 000€	WP2 meeting organisation (6000€)
37-CEA	Cost (€)	Justification
Travel and subsistence	11 000€	Travel WP1 meetings (3000€), WP2 meetings (3000€), WP3 meetings (2000€), WP5 meeting (1000€), WP6 meetings (2000€)
Other goods & services	10 000€	WP5 meetings organisation
40-CNRS	Cost (€)	Justification
Travel and subsistence	0€	
39-INSERM	Cost (€)	Justification
Travel and subsistence	3 000€	Travel WP2 meetings (3000€)
38-UCaen	Cost (€)	Justification
Travel and subsistence	4 000e	Travel WP3 meeting (2000€), WP4 meetings (2000€)
45-EEAE	Cost (€)	Justification
Travel and subsistence	7 000€	Travel WP1 meetings (3000€), WP3 meetings (2000€), WP6 meetings (2000€)
24-NCSRD	Cost (€)	Justification
Travel and subsistence	8 000€	Travel WP1 meetings (3000€), WP2 meetings (2000€), WP5 meeting (1000€), WP6 meetings (2000€)
Other goods & services	14 000€	WP2 meeting organisation (4000€), expert invitation (10 000€)
46-IMROH	Cost (€)	Justification
Travel and subsistence	8 000€	Travel WP1 meetings (3000€), WP3 meetings (4000€), WP5 meeting (1000€),
47-U.Zagreb	Cost (€)	Justification
Travel and subsistence	2 000€	Travel WP3 meetings (2000€)
30-EK	Cost (€)	Justification
Travel and subsistence	14 000€	Travel WP1 meetings (3000€), WP2 meetings (2000€), WP3 meetings (4000€), WP4 meetings (2000€), WP5 meeting (1000€), WP6 meetings (2000€)
20-NNK	Cost (€)	Justification
Travel and subsistence	13 000€	Travel WP1 meetings (3000€), WP2 meetings (6000€), WP4 meetings (2000€), WP6 meetings (2000€)
Other goods & services	6 000€	WP2 meeting organisation (6000€)
58-EPA	Cost (€)	Justification
Travel and subsistence	3000€	Travel WP1 meetings (3000€)
41-ENEA	Cost (€)	Justification
Travel and subsistence	5 000€	Travel WP1 meetings (3000€), WP2 meetings (2000€)
42-UnPv	Cost (€)	Justification
Travel and subsistence	9 000€	WP3 meetings (6000€), WP4 meetings (2000€), WP5 meeting (1000€)
54-INFN	Cost (€)	Justification
Travel and subsistence	6 000€	Travel WP1 meetings (3000€), WP3 meeting (2000€), WP5 meeting (1000€)
30-ISS	Cost (€)	Justification
Travel and subsistence	11 000€	WP1 meetings (3000€), WP2 meetings (3000€), WP3 meetings (4000€), WP5 meetings (1000€)
Other goods & services	10 000€	WP5 meetings organisation
53-VIAA	Cost (€)	Justification
Travel and subsistence	7 000€	Travel WP1 meetings (3000€), WP4 meetings (2000€), WP6 meetings (2000€)
Other goods & services	30 000€	Printed materials, meetings organisation (meeting rooms, catering)
50-RIVM	Cost (€)	Justification
Travel and subsistence	5 000€	Travel WP1 meetings (3000€), WP6 meetings (2000€)
Other goods & services	25 000€	Meetings organisation, open access for publications
51-NRG	Cost (€)	Justification

Travel and subsistence	2 000€	Travel WP3 meetings (2000€)
34-DSA	Cost (€)	Justification
Travel and subsistence	19 000€	Travel WP1 meetings (3000€), WP3 meetings (14000€), WP6 meetings (2000€)
35-NMBU	Cost (€)	Justification
Travel and subsistence	6 000€	Travel WP3 meetings (4000€), WP6 meetings (2000€)
29-NCBR	Cost (€)	Justification
Travel and subsistence	27 000€	Travel WP1 meetings (3000€), WP7 meetings (24000€)
Other goods & services	154 500€	WP7 expert fees (67500€), financial cost statements (2000€), legal services and data protection expert (35000€), 30 000e (peer review panel), consulting (20000€)
22-GIG	Cost (€)	Justification
Travel and subsistence	13 000€	Travel WP1 meetings (3000€), WP3 meetings (6000€), WP4 meetings (2000€), WP6 (2000€)
23-IFJ Pan	Costs (€)	Justification
Travel and subsistence	2 000€	WP3 travel meeting (2000€)
48-APA	Cost (€)	Justification
Travel and subsistence	3 000€	Travel WP1 meetings (3000€)
49-IST	Cost (€)	Justification
Travel and subsistence	15 000€	Travel WP1 meetings (3000€), WP3 meetings (8000€), WP4 meetings (2000€), WP6 meetings (2000€)
19-IFA	Cost (€)	Justification
Travel and subsistence	6000€	Travel WP1 meetings (3000€), travel WP7 meetings (3000€)
4-SU	Cost (€)	Justification
Travel and subsistence	9 000€	Travel WP1 meetings (3000€), WP3 meetings (2000€), WP4 meetings (2000€), WP6 meetings (2000€)
5- Skandion	Cost (€)	Justification
Travel and subsistence	2 000€	WP3 meetings (2000€)
52-SSM	Cost (€)	Justification
Travel and subsistence	9 000€	Travel WP1 meetings (3000€), WP2 meetings (6000€),
32-JSI	Cost (€)	Justification
Travel and subsistence	10 000€	Travel WP1 meetings (3000€), WP2 meetings (2000€), WP3 meetings (2000€), WP5 meetings (1000€), WP6 meetings (2000€)
33-EIMV	Cost (€)	Justification
Travel and subsistence	11 000€	Travel WP1 meetings (3000€), WP3 meetings (6000€), WP6 meetings (2000€)
56-UVZSR	Cost (€)	Justification
Travel and subsistence	3000€	Travel WP1 meetings (3000€)
15-ALLIANCE	Cost (€)	Justification
Travel and subsistence	26 000€	Travel WP1 meetings (3000€), WP2 meetings (21 000€), WP5 meetings 2000€)
12-EURADOS	Cost (€)	Justification
Travel and subsistence	26 000€	Travel WP1 meetings (3000€), WP2 meetings (21 000€), WP5 meetings 2000€)
17-EURAMED	Cost (€)	Justification
Travel and subsistence	26 000€	Travel WP1 meetings (3000€), WP2 meetings (21 000€), WP5 meetings 2000€)
18-OVGU	Cost (€)	Justification
Travel and subsistence	2 000€	Travel WP2 meetings (2000€)
9-MELODI	Cost (€)	Justification
Travel and subsistence	26 000€	Travel WP1 meetings (3000€), WP2 meetings (21 000€), WP5 meetings 2000€)
14-NERIS	Cost (€)	Justification
Travel and subsistence	26 000€	Travel WP1 meetings (3000€), WP2 meetings (21 000€), WP5 meetings 2000€)
16-SHARE	Cost (€)	Justification

Travel and subsistence	26 000€	Travel WP1 meetings (3000€), WP2 meetings (21 000€), WP5 meetings (2000€)
6-DH-PHE	Cost (€)	Justification
Travel and subsistence	8 000€	WP1 meetings (3000€), WP3 meetings (2000€), WP5 meetings (1000€), WP6 meetings (2000€)
7-UCAMB	Cost (€)	Justification
Travel and subsistence	1 000€	WP5 meeting (1000€)
8-U.Exeter	Cost (€)	Justification
Travel and subsistence	5 000€	WP2 meetings (5000€)
57-MUR	Cost (€)	Justification
Travel and subsistence	3 000€	WP7 meetings (3000€)

3.2 Capacity of participants and consortium as a whole

Description of the Consortium

The PIANOFORTE Consortium will have members as follows:

- National POM build the core of the PIANOFORTE Consortium and have their primary responsibility in managing the national co-funding. In the majority of cases, they are large national research centers that play an important part in radiation protection research in Europe. Some of them have own radiation research programmes and are committed for years and even decades to radiation research.
- The six European research platforms played a key role in the elaboration of the JRM. Nowadays, it is more than 200 organisations (representing 25 MS) that are gathered through their activities. They will be full members and key actors in PIANOFORTE as it will seek the engagement of a number of expert communities that are represented in the Platforms due to the broad scope of the challenges and the diversity of expertise needed.
- Finally, several universities are members of the consortium and they will play an important role in the partnership by bringing their expertise in the field of research but also by playing a key role in the E&T activities.

The consortium partners complement each other in expertise and competence in all field of radiation protection research and many of them have important roles to play as national radiation protection institutions. By integrating long lasting expertise in radiation protection research with responsibility in developing and implementing of radiation protection research with responsibility in developing and implementing standards on the national level, excellence in science and tailoring of the research programme to societal needs will be achieved.

Access to critical infrastructures

The wide ranging, multidisciplinary nature of RPR within Europe means that a diverse range of relevant infrastructures are available. In order that PIANOFORTE is able to support the projects initiated under the open calls as well as the needs of the platforms and wider community, it is important to ensure a balanced, open approach to access to infrastructures. Access to critical infrastructures will be managed under WP 5, which will also seek to promote harmonization of quality standards, practices and protocols in all relevant RPR areas, to develop a strategic workplan for utilisation, novel uses and inter-operability of key RPR infrastructures, and to develop a strategic plan for DM and novel approaches to exploitation of archived RPR data.

In the first months, an oversight committee specifically focused on infrastructures will be established, to provide strategic direction to ensure that all infrastructure needs of the sub-disciplines in radiation protection research (RPR) are recognised and served. Access to infrastructures in particular will build on previous work done in CONCERT to identify and establish relationships with relevant infrastructures, namely: exposure platforms; contamination sites and observatories, databases, sample banks and cohorts; analytical platforms, particularly omics platforms, and models and tools. The results of this work are summarised in the AIR2D2 database. The specific PIANOFORTE aims related to access will be the identification and promotion of the key existing RPR infrastructures, to develop a fair and transparent system to allow researchers to access key RPR infrastructures including through the open calls, and to develop and promote training in the use of key RPR infrastructures. Research activities undertaken following the open calls will be required to make clear the infrastructures and training requirements specific to their projects. This will then help facilitate tailored support from WP 5.

Activities in wider support of access will include development of the strategic plan to define key infrastructures with

input from all relevant stakeholders, including on NRT-12, development of a FAIR (findable, accessible, interoperable and reusable) data management plan for infrastructures related to storage, sharing and reuse of data, which will also include development of novel approaches to data management and exploitation, and identification of infrastructure protocols suitable for standardisation, and development of standard processes for these.

Governance and management of the project

All decision-making procedures will be governed by the terms of the Consortium agreement. The proposed governance structure is largely built on the experience of the CONCERT-EJP that has proven to provide good governance and decision making by all partners in a cost-efficient way while allowing for advisory processes. The governing structure of the consortium will be composed of the following elements :

Executive Board (ExB):

The Executive Board consists of the WP leaders and a representative from MEENAS and is chaired by the Project Coordinator. The ExB ensures the successful management and execution of the project by taking care of the coordination and correct implementation of the scientific project tasks of respective work packages. The ExB reports to and is accountable to the General Assembly. The Executive Board:

- ensures the implementation of the overall Partnership;
- ensures the strategic governance of the Partnership to ensure the strategic decisions are implemented throughout the activities of the Partnership (in interaction with the Stakeholder and Advisory Board);
- translates the JRM in a 5-year common strategy, develop priorities and related activities for the Partnership and develop the basis for Open Calls (in interaction with WP2 and WP3 and through a transparent prioritization process, i.e., with the Stakeholder and Advisory Board);
- translates the 5-year common strategy in Annual Work Plans (AWP);
- follows up research projects in close contact with the project coordinator;
- monitors the achievements of milestones and deliverables and ensure its overall quality before submission to the EC;
- proposes and manages any changes of the technical work programme of the project;
- in concertation with the PC, manages the budget and the use of resources in line with the agreed AWP;
- cross-coordinates between work-packages and tasks;
- liaises with the GA for problems encountered during the Partnership;
- ensures a good and transparent communication to the GA and the consortium;
- oversees and ensures the dissemination strategy of the Partnership and uptake of results by the Partnership.

General Assembly (GA):

The General Assembly is the ultimate decision-making organ of the Partnership and discusses and decides about the strategy and the major orientations of the Partnership, its priorities and actions to be supported, project performance, budget allocations. It is composed of representatives of the Partnership signatory organisations, *i.e.* POMs and Platforms. The GA acts as global steering and management committee. The GA will be responsible for all decisions of a general nature within the framework of the Grant Contract and the Consortium Agreement. Three major tasks are highlighted,

- the endorsement of the 5-year strategy, the AWP and the proposal of Open Call programme proposed by the Executive Board;
- any re-definition of the overall work plan, the coordination of the activities and communication between the subgroups, and the overall project progress assessment;
- the endorsement of the detailed budget allocation.

The General Assembly is chaired by the Project Coordinator. The Chair of the Stakeholder and Advisory Board will be invited to report to the General Assembly about the activities of, the questions from and the decisions by the Stakeholder and Advisory Board. The project officer or other representative of DG R&I will be invited to the GA. The Partnership will also invite the EURATOM Scientific and Technical Committee to send a member as an observer to the GA.

Stakeholder and Advisory Board (SAB)

PIANOFORTE aims to close the gap between R&I and regulatory processes and societal needs by creating a large network of partners and stakeholders. To achieve this goal, PIANOFORTE intends to create a strong Stakeholder and Advisory Group (SAB) that will be pivotal in our interaction with the larger stakeholder community. The detailed role and the composition of the SAB are described in the WP3 description, as well the complementary activities to represent specific user's needs that will not be feasible in the SAB.

Joint Call Secretariat (CS)

The Joint Call Secretariat (CS) will be a central separate call management office, separated from the rest of the project governance system (firewall) to avoid possible conflict of interest. The JCS will organize the operative steps involved in the open calls. Its members are chosen from organisations not involved in the execution of research within this project. The JCS stands in for the administration and organisation of the evaluation process of open competitive calls based on the decisions of the consortium. Its role is detailed in the WP7 description.

Resources to be committed

The present Partnership will allocate the biggest share of its budget to research and innovation activities resulting from the R&I defined priorities with a target exceeding 76% very close from the recommendation by the EURATOM STC (compared to 60% in the CONCERT EJP). R&I activities will be accomplished *via* open calls, with a global national co-fund minimum threshold of 35%. Also, for the projects answering the open call, research partners will have to declare how the national co-funding is secured. Feasibility of the national co-funding for a proposal will be one of the evaluation criteria in the decision-making process regarding the funding of proposals.

PIANOFORTE will allocate about 15% of the total budget to integration activities (*i.e.* Stakeholder involvement, E&T, Infrastructure access and Data Management) and about 2,0% for communication, exploitation and dissemination activities and impact creation. All these activities will be co-funded by Partnership members, except travel grants for early career researchers (refunded at 100%).

Management of the consortium, administration of calls and funded projects, evaluation of proposals and projects will get a refund of 100% and, in total, will not take more than 6.5% of the total costs.

The covid-19 pandemic has led to an intensive use of video-conferencing and has shown that, in many cases, it allows for remote exchanges and discussions that do not compromise work quality. Based on this experience, a special effort will be made, within the framework of this partnership, to carry out a large part of the meetings in the form of video-conferencing while keeping a minimum of physical meetings which allow the development of interpersonal exchanges and group spirit while reducing the CO₂ footprint of PIANOFORTE.

Different co-funding sources by country will be envisaged. Partner countries should explore the possibilities to use other EU funding programmes, beyond Horizon Europe, such as structural funds for the co-funding and the development of their structural or human capacities. The Partnership as such will look at possibilities to use *e.g.* Marie-Sklodowska-Curie funds or the ERASMUS programme to facilitate the training of next generation scientists and risk assessors.

At national level, resources will come from different policy domains. In many Member States radiation protection authorities support research *via* open calls and will act as program owners. General research funding bodies may also reserve resources for co-funding. Finally, in some countries, ministries have their own allocated budgets dedicated to research activities – the ambition of the Partnership is to join forces on these and thereby optimize the use of resources.

Involvement of the Commission in the implementation of the project

In order to define and defend the EU public interest in PIANOFORTE and to ensure better coordination between the actions implemented by the different Directorate of the Commission, several Commission representatives will be invited either to the GA or to specific stakeholder activities (implemented under WP3) namely :

- the scientific officer of the Partnership (DG R&I, Directorate J- Energy, Unit J.2);
- A representative of DG-ENER in charge of the SAMIRA initiative;
- A representative of DG-Health in charge EU4Health Programme.

In addition, the Partnership will also invite the EURATOM Scientific and Technical Committee (STC) to send a member as an observer to the GA.

Principles in the establishment of PIANOFORTE

The approach adopted for the preparation and implementation of PIANOFORTE is based on, equity, transparency, openness, multi- and inter-disciplinarity and excellence. This is reflected in several ways:

- The foundations of PIANOFORTE were established on a vision document, developed in 2020. It was prepared by a group of representatives of radiation protection institutes and MEENAS, the umbrella structure of radiation protection platforms. It has therefore been shared with a vast majority of the European

organisations (including academia) practically involved in radiation protection and radiation protection research that represent all aspects to be covered by the activities described in this proposal.

- The consortium that prepared the present proposal gathers almost all the POMs in radiation protection in Europe, to which many AEs are linked.
- The consortium integrates the six platforms in radiation protection, which are representative of the different disciplines involved in radiation protection research and associated communities, and which are integrated under the umbrella structure MEENAS through an MoU;
- The organization of Open Calls which will be an opportunity to integrate new partners bringing new know-how and new skills that will guarantee excellence;
- The creation of a WP specifically dedicated to the interactions with the stakeholders which will allow the involvement, at different stages of the project, of all stakeholders in radiation protection in the broadest sense (authorities, end-users, international organizations, civil society, citizens,...),
- A particular attention to the implementation of Open Science practices, whether in the management and dissemination of results, their exploitation, or in the communication which are the subject of a dedicated WP (WP6).
- And finally, the implementation, in a dedicated WP (WP7), of a robust and independent system of organization of open calls and selection of projects that will avoid any conflict of interest and be in compliance with the principles of transparency, non-discrimination and sound financial management.

Recruitment policy

The Partnership will support a proactive and continuous recruitment policy to address the development in radiation protection field. This policy will also be looking at strengthening gender equality in radiation protection research. There is a significant aging of researchers and other experts in the field, therefore special attention will be given to establish the E&T programme to support the needs of present generation and also to allow for sufficient future generation of researchers. The E&T programme will be supported by the gap analyses and particular financial schemes to enable dynamic and agile respond to evolution in the radiation protection sector throughout the Partnership lifetime.

Establishment of the Annual Work Plan

The Partnership will have robust consultation procedures in place to establish and manage the development of the SRA/Roadmap with priorities in the field. As described, the established European Radiation Protection Platforms are already continuously developing and upgrading the Joint Roadmap with the joint research challenges in the context of existing and potential exposure scenarios priorities. The approach to the regular renewal of the Joint Roadmap will be based on openness, transparency, inclusiveness of all participants and be based on the governmental structure as presented in Section 3.3. The ultimate decision-making body will be General Assembly who will endorse the 5-year strategy, the Annual Work Plan and the proposals of Open Call programme.



EURATOM PROGRAMME

**Partnership for European research in radiation
protection and detection of ionising radiation**

PIANOFORTE

Annual Work Programme for year 1 – AWP1 (Annex to PART B)

Annex: Structure of the Annual Work Programme

1. Coherence with part B of the proposal

1.1 AWP objectives for month 1 to 12

The PIANOFORTE partnership aims to improve radiological protection of members of the public, patients, workers and the environment in all exposure scenarios and to provide solutions and recommendations for optimised protection in accordance with the BSS. This objective will be reached by multidisciplinary research, innovation and citizen involvement activities in a collaborative approach of scientists, regulators and stakeholders. Research projects focusing on identified research and innovation priorities will be selected through competitive open calls.

This general objective will be reached through the achievement of six specific objectives (four scientific specific objectives and two integration specific objectives) that are inter-dependent and are as follows:

- To innovate in ionising radiation based medical applications combating cancer and other diseases by new and optimised diagnostic and therapeutic approaches improving patient health and safety and supporting transfer of the R&I outcome to practice.
- To improve scientific understanding of the variability in individual radiation response and health risk of exposure.
- To support regulations and implementation of the BSS and improve practices in the domain of low dose exposures of humans and the environment by better understanding and reducing uncertainties in risk estimates.
- To provide the scientific basis to recommendations, procedures and tools for assuring better preparedness to response and recovery from a potential radiological event or nuclear accident and to improve the know-how to manage legacy sites.
- To maintain a sustainable expertise capability on radiation protection issues across the EU by fostering the availability, the use, and the sharing of existing state-of-the-art infrastructures at European level and beyond, and conducting education and training activities.
- To involve all the relevant stakeholders at the different stages of the implementation of research projects and assure efficient dissemination, knowledge management and uptake of results

Activities of the consortium will focus on the one hand on the aspects to continue to develop an integrated landscape for radiation protection in Europe and, our main focus on the other hand, which will be the main one, to directly fund coordinated research projects in an open, fair and transparent manner dedicated to state of the art science and tailored to the needs of the stakeholder target groups that have been defined in part B of the proposal. Integration of education and training activities in connection with co-funded research projects as well as optimal use of research infrastructures in Europe and even beyond are also essential to the consortium. Finally communication, dissemination of results and impact creation activities will ensure that the outcomes from the Partnership will contribute to a significant improvement of radiation protection of the public, patients, workers and the environment at the European level.

1.2 Expected impacts

The set of activities in the Annual Work Plan Month 1 to 12 will contribute to the circling work flow on an approximately annual basis to prepare and launch the first Open Call.

WP1

The coordinator will set in place all management procedure for the PIANOFORTE Partnership, especially the structures such as the Executive Board (ExB) and the General Assembly (GA) and will call for a kick-off meeting at the earliest possible date. From the start on, the coordinator will organise regular videoconference meetings with the ExB members in order to follow up on the deployment of the tasks in

the different WPs.

WP2

The priority setting together with WP3 is a very important step in PIANOFORTE. This task will contribute to the harmonization of radiation protection research by assembling a widely accepted list of research priorities reflecting the views of POMs and European radiation research platforms, agreed by various stakeholders (including the Stakeholder and Advisory Board, SAB) and in line with HORIZON EUROPE and EURATOM research policies.

Next to this, the feedback from the stakeholders on the CONCERT Joint Roadmap (JRM) will be analysed in the first months. Effectively taking into account this feedback will help in setting up the second version of the JRM, and will improve the new document. The ranking of the game changers will be used as input for the priority setting for call 1.

We will start already with the development of guidelines for efficient inclusion of social sciences and humanities in research projects. This will also be important for the priority setting. We will also develop tools for assessing the scientific output of the projects.

The task on the use of Artificial Intelligence will be started already so that it can be fed into the priority setting, and a report on the ethical aspects of AI will be made.

WP3

In the course of the first year, PIANOFORTE will plan and develop its stakeholder engagement activities that will raise awareness of radiation protection issues and widen the inputs into developing research priorities over the partnership life. Key activities will be establishment of the Stakeholder Advisory Board (SAB), publication of Stakeholder Engagement Plan, identification and contact of relevant international organisations followed by various dedicated initiatives for mutual exchange (e.g., topical meetings, e-survey on radiation protection issues). Consultation meetings will be organised with the SAB and other relevant stakeholders regarding joint research needs and priorities and gained input will be further analysed and used in R&I Calls. Additionally, a scientific sprint will be organized to answer radiation-protection related questions on clinical guidelines in proton therapy. Strategies for stakeholder involvement will be drafted during the first year and a Stakeholder Advisory Board (SAB) as well as stakeholder network will be established during year 1. An e-survey focusing on research needs and knowledge gaps will aim to advertise PIANOFORTE partnership to the wider stakeholder community. Research priorities will be commented during topical online consultation /meeting with the different identified stakeholder groups and SAB members. This will be announced on the website of PIANFOFORTE.

WP4

WP4 on education and training will specifically contribute to reinforcing training by continuous training and career upgrades. It will develop competences in radiological protection with a special focus on radiological protection culture. To this end WP will organize calls on a competitive basis and finance: 1) short courses for young researchers and professionals on topics related to radiation protection; and 2) mobility grants for researchers and radiation protection professionals to participate in conferences, training activities and exchange visits. Also, a call will be launched for setting up and maintaining a European PhD and early career researcher/professional association in the field of radiation protection. The association will promote contacts and lead to close networking between EU's future radiation protection experts. The association will receive funding to organize its first meeting. Finally, EU's RP E&T initiatives twill be summarized and announced on the website of PIANFOFORTE. Possibilities of sustainability of the initiatives will be investigated and promoted.

WP5

The maintenance of sustainable RPR capabilities and expertise on radiation protection issues across the EU will be achieved through the objectives of WP5, namely to foster the availability, use, sharing and optimization of existing state-of-the-art infrastructures and data management systems at the European level and beyond, and by conducting education and training activities. The key performance indicator of this

activity within year 1 will be to establish the WP5 Infrastructures Oversight Committee to ensure a seamless link between the data and infrastructure communities, and their involvement in the initiation of the WP5 activities focused on provision of access to, training and intercomparisons for, and the strategic vision in relation to key RPR infrastructures within Europe. Furthermore, novel approaches to Data Management (DM) will be developed, with the overall aim to establish a culture of effective management of the data and research outputs according to the 'FAIR' principles, so that the data are findable, accessible, interoperable and reusable, in order to facilitate effective open, exchange between researchers, stakeholders and policymakers. The practical implementation of DM within PIANOFORTE will be through early production and adoption of all project partners of the data management plan (DMP), which will be developed within the first 6 months of the project. Promotion of the developed approaches including provision of training will also be initiated during year 1. The key expected impact will thus be the establishment of a FAIR culture for DM, as the gold standard for RPR.

WP6

Within the WP6, which focuses on knowledge management, communication, dissemination and impact creation, several activities are planned during the first year of the partnership. The on-line communication tools, including the partnership web pages, social media channels, as well as the internal storage and communication system will be developed. The Internal Communication Plan will be set up in order to avoid duplication of efforts, to promote efficient use of project mid-results and to achieve possible synergies. The external communication plan will be formulated to provide tailored information to the target groups through appropriate channels. The Plan for Exploitation and Dissemination of Results (PEDR) will be created for results generated by the partnership. Furthermore, appropriate metrics for the measuring of the impact of the PIANOFORTE partnership will be defined. Information meeting for EU researcher groups about the call content will be organized after launching of the first call.

WP7

Under WP7 will be organized and managed first Open Call for R&I proposals for funding multilateral research projects on radiation protection under the Partnership for European research in radiation protection and detection of ionising radiation co-fund mechanism. The aim of the call will be the support for transnational research projects that combine innovative approaches in the field of radiation protection in line with the research priorities of PIANOFORTE Partnership set up in WP2. WP7 lead will be responsible for preparation of all call documents. The call will be implemented as a one-step submission procedure. An electronic submission portal will be in place. The first Open Call will be launched at the end of the first year

1.3 Correspondence with part B of the proposal

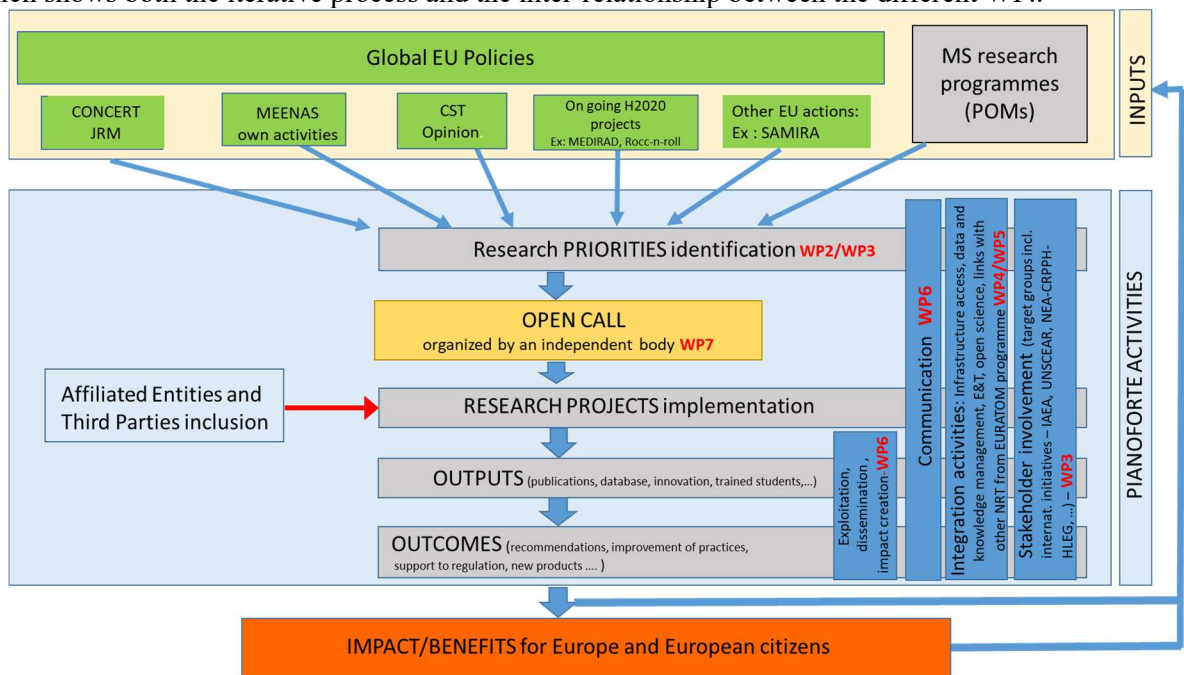
The main objective of the Partnership is to carry out research activities that will address current and future scientific and technical challenges that will improve radiation protection practices, enable better implementation of BSS and ultimately ensure better protection of man and the environment from ionising radiation in all types of exposure scenarios. As recommended by the EURATOM STC, more than 75% of the Partnership's budget will be dedicated to research activities, with the remainder allowing for better access to national infrastructure, education and training activities and dissemination and exploitation of results. The concept of the partnership is based on a five-step iterative process (Prioritisation, Open call launch, Research projects implementation, Outputs of research, Transfer of outputs to practice). Beside the input of integration activities in the iterative process, the integration WP provide the basis for sustainable integration of activities.

2. Annual Work Programme Activities

2.1 Annual Work Programme

i) Structure of the Annual Work Programme

The structure of the Annual Work programme is based on the work packages and is recalled in Figure 1 which shows both the iterative process and the inter-relationship between the different WP..



ii) Timing of the different programmed activities and their components

		YEAR 1											
		Q1			Q2			Q3			Q4		
		1	2	3	4	5	6	7	8	9	10	11	12
WP1	Project coordination and management												
	meetings (kick-off, periodic meetings)									D1.1, D1.2			
Task 1.1	Coordination and management												
Task 1.2	Executive and AG meetings												
Task 1.3	Updating the AWP												
Task 1.4	Negotiation of projects funded												
Task 1.5	Funding decision process for Integration activities												
Task 1.6	Monitoring of the progress of PIANOFORTE												
WP2	Research and innovation projects												
							D2.3.1				D2.1.1		D2.4.4
Task 2.1	Setting-up the research priorities												
Task 2.2	Update of the Joint Road Map												
Task 2.3	Scientific follow-up of projects												
Task 2.4	Integration of AI in Radiation Protection												
WP3	Stakeholder engagement												
Task 3.1	International Partners and priority setting			D3.4,D3.5			D3.6,D3.7		D3.1	D3.8			D3.2
Task 3.2	Partnership projects												
Task 3.3	Stakeholder engagement planning and management												
Task 3.4	Direct Stakeholder engagement plan												
Task 3.5	Addressing stakeholder interests of DG Health: RP and proton therapy												
WP4	Education and Training												
		D4.1		D4.2									D4.3.1
Task 4.1	Support of targeted courses												
Task 4.2	Support of mobility for MSc/PhD												
Task 4.3	Support of continuous professional devpt												
Task 4.4	Dvpt of sustainable radiation protection E&T												
WP5	Infrastructures and data management for radiation protection research												
							D5.1, D5.2						
Task 5.1	Establish an infrastructure oversight/stakeholder committee												
Task 5.2	Providing support for cross-national access to infrastructure												
Task 5.3	Promoting harmonization of quality standards, practices and protocols												
Task 5.4	Developing a vision and strategic work plan for utilisation, novel uses and inter-operability of key RPR infrastructures												
Task 5.5	Developing a plan and vision for data management and approaches to exploitation of archived data												
WP6	Knowledge management, communication, dissemination and impact creation												
			D6.1		D6.2, D6.3								D6.5
Task 6.1	Knowledge management												
Task 6.2	Communication and dissemination												
Task 6.3	On-line communication tools												
Task 6.4	Impact creation												
WP7	Organisation and management of PIANOFORTE R&I Open Calls												
												D7.1.1	
Task 7.1	Setting up a Calls Secretariat												
Task 7.2	Preparation of the Open Call documents and launch of the calls												
Task 7.3	Implementation of the open calls												
Task 7.4	Quality management of open research calls procedures												

iii) **Detailed work description:****Table 2.3.a: Annual Work Programme Activities for each set of activities:**

Set of Activities Number	WP1		Start Date or Starting Event					Month 1		
Set of Activities Title	Partnership coordination and management									
Participant number	1	10	3	4	6	13	29			
Short name of participant	IRSN	SCKC EN	BfS	SU	DH PHE	SUR O	NCB R	All POMs	All platforms	
Person months per participant	30	0,4	0,4	0,4	0,4	0,4	0,6	28x0,05 =1.40	6x0,05= 0,3	
Start month	1	End month							60	

Objectives

WP1 purpose is to ensure the most effective coordination, administrative and financial management of the consortium with a view of reaching a good synergy between the partners; The overall objective of the managerial organisation is to provide the necessary structures for participatory and efficient decision-making and coordination of activities, fluent day-to-day management including flow of information and financing (including the establishment of contracts with PIANOFORTE grantee consortia and PIANOFORTE external contractors), reporting to EC, as well as providing support and guidance on consortium activities.

Description of work (where appropriate, broken down into tasks), lead partner role of participants and relevant Work Package

Task 1.1: Overall coordination and legal, contractual, administrative and financial management (Lead : IRSN).

Key activities during year 1 are:

- Monitoring the compliance by beneficiaries with their obligations under the grant agreement
 - Monitoring the progress of the project and review the deliverables and reports to verify consistency with the project tasks
 - Collection of information about achievements in relation to objectives from the partners every 12 months in order to ensure efficient follow-up of the project progress and proper reporting to EC.
 - Updating the Consortium Agreement if necessary.
 - Administration of the EC financial contribution regarding its allocation between beneficiaries and activities, in accordance with the grant agreement and the decisions taken by the consortium.
 - Keeping the records and financial accounts
- Writing the first periodic report

Task 1.2: General Assembly and Executive Board meetings (Lead IRSN, ExB members, General Assembly members)

Key activities during year 1 are:

- Organisation of the kick-off meeting
- Organisation of periodic GA meetings in connection with reporting periods
- Organisation of regular ExB meetings (about 3-4 times per year) by video conference.

Task 1.3: Updating the annual work plan (IRSN, ExB, GA members)

Key activities during year 1 are:

- Update of the AWP
- Submission of the AWP together with the annual project report to the EC not later than month 9 of the project year 1

Task 1.4 : Negotiation of projects to be funded through open R&I calls (Lead: IRSN, ExB members, GA members).

The first Open call should be launched on year 1 (M10).

Key activities during year 1 are:

- Organisation of the PIANOFORTE Funding Meeting of the ExB..

- Preparation of draft contracts by the coordinator and WP 7 leader

Task 1.5: Funding decision process for integration activities listed in the approved annual work program (Lead: IRSN, ExB members,)

Key activities during year 1 are:

- Proposal by the coordinator and decision by the ExB on the funding of integration activities as listed in the AWP.
- When it is suggested by the ExB that an integration activity be performed, in part or in total, by one or more external entities, the Coordinator launches a European public procurement procedure to identify and contract with such entities for the delivery of the required services

Task 1.6: Monitoring of the progress of the Partnership (Lead IRSN, ExB members)

Key activities during year 1 are:

- To monitor KPI indicator twice a year at the ExB level.

Set of Activities Number	WP2		Start Date or Starting Event				M1
Set of Activities Title	Research and innovation projects						
Participant Number	10	20	52	27	32	31	40
Short name of participant	SCK-CEN	NNK	SSM	CIEMAT	JSI	EK	ENEA
Person-months per Participant:	3.9	2.5	1,5	1.5	1	0.1	0.1
Participant Number	26	55	37	39	30	8	
Short name of participant	STUK	NCRPP	CEA	INSERM	ISS	UExet	
Person-months per Participant:	1	3	0.1	0.1	0.2	2	
Participant Number	24	1	18				
Short name of participant	NCSR	IRSN	OVGU	All other POMs			
Person-months per Participant:	3	1	1	0.25x28=7			
Start month	M1			End month	M12		

Objectives

Task 2.0: Management of WP2

Task 2.1: (a) Preparation of the consensual list of research priorities for the first open call

Task 2.2: (a) Analysis of stakeholder feedback on the first edition of the Joint Roadmap and the game changer ranking

Task 2.3: (a) Develop a tool for monitoring scientific output of the projects; (b) establish guidelines for integrating social sciences and humanities in funded projects.

Task 2.4: (a) delineate the relevance and applicability of AI and big data technologies in RP domains and identify the thematic areas that appear to be more susceptible to AI implementations (e.g., radiology, radiotherapy, dosimetry, emergency preparedness and response); (b) identify and develop links with scientific communities specializing on AI and big data technologies; (c) promote the uptake and application of AI in the PIANOFORTE R&I calls; (d) assess the key issues arising for use of AI approaches in RP

Description of Programmed Activities (possibly broken down into tasks), lead partner, role of participants, and relevant Work Package

2.1.a: (**Lead NNK**): A list of research priorities will be assembled by Task 2.1 partners following the detailed steps of the prioritization process as set in WP2 description. In order to enable launch of the first open call as soon as possible the first synthesis of the prioritization process will be based on the research priorities already identified in the Joint Roadmap for radiation research elaborated during the EJP-CONCERT, rather than reaching out for new priorities.

2.2.a: (**Lead JSI**): Analysis of comments on the general text of the first joint roadmap (edition 2020). Analysis of the game changers ranking by EJP-CONCERT POMs, LTPs, MEENAS and stakeholders, and their motivations.

2.3.a (**Lead NCRPP**): Prepare the research project monitoring methodology and develop a web-based tool for monitoring the project's outcomes.

2.3.b (**Lead STUK**): Establish guidelines for integrating social sciences and humanities in funded projects

2.4.a (**Lead: NCSR**): The literature review on AI and big data technologies will start to chart their relevance and applicability in radiation protection domains. This study will identify the radiation protection domains that could benefit by adopting AI techniques such as radiology, radiotherapy, or emergency and recovery preparedness and response.

2.4.b (**Lead IRSN**): The process of identification and development of links with scientific communities specializing on AI and big data technologies will start.

2.4.c (**Lead OVGU**) The knowledge gradually accumulated in Task 2.4 will be used as input to the other WP2 tasks, and more specifically as input to the priority setting in T2.1.

2.4.d (**Lead UExet**) The key issues arising for use of AI approaches in RP will be assessed, reported and communicated to relevant stakeholders

	WP3					
Set of Activities Title	Stakeholder engagement					
Participant Number	3	27	34	46	6	4
Short name of participant	BfS	CIEMAT	DSA	IMROH	DH-PHE	SU
Person-months per Participant:	14,0	4	2	2	0,1	0,1
Participant Number	33	21	32	10	28	1
Short name of participant	EIMV	UTartu	JSI	SCK CEN	MERIENCE	IRSN
Person-months per Participant:	0,3	0,3	0,2	1,5	0,2	0,3
Participant Number	30	37	49	45	35	51
Short name of participant	ISS	CEA	IST	EEAE	NMBU	NRG
Person-months per Participant:	0,2	0,1	0,4	0,1	1	0,1
Participant Number	22	2	31	47	11	38
Short name of participant	GIG	CEPN	EK	U.Zagreb	KU Leuven	UnCaen
Person-months per Participant:	0,3	0,3	1,5	0,1	2	2
Participant Number	54	23	5			
Short name of participant	INFN	IFJ PAN	Skandion			
Person-months per Participant:	2	4	2			
Start month	1				End month	12

Objectives

This work package will connect the diverse set of relevant stakeholders within and outside the radiation protection community to show that radiation protection research influences and improves the lives of all

European citizens.

Specific aims during year 1 are:

- Organise consultations to get input to priority setting from all external stakeholders target groups.
- Usage of professional and agile consultation methods to consider the voice of the users of radiation science products as well as the broader civil society.
- Identify the most urgent stakeholder needs for the large political missions of our time - health, sustainability, innovation and safety.
- Specific focus on stakeholder needs in medical applications, specifically proton therapy.

Description of Programmed Activities (possibly broken down into tasks), lead partner, role of participants, and relevant Work Package

Task 3.1 International partners and partnership priority setting (*Lead: BfS; Partners: DH-PHE, SU, GIG, EIMV, UTartu, STUK*)

Key activities during year 1 are:

- Link to international RP research initiatives/networks.
- Priority setting for R&I call 1 in collaboration with WP2.
- Coordination of stakeholder engagement within PIANOFORTE.

Task 3.2 Partnership Projects (*Lead: IMROH, Partners: JSI, MERIENGE, SCK CEN, IRSN, CEPN*)

Key activities during year 1 is:

- Learning from CONCERT projects to create stakeholder engagement criteria for R&I calls

Task 3.3. Stakeholder Engagement Planning and Management (*Lead: CIEMAT; Partners: DSA, CEPN, IRSN, ISS, GIG, SCK CEN, EIMV, MERIENGE*).

Key activities during year 1 are:

- Establishment of the Stakeholder and Advisory Board (SAB): composition, mission and rules
- Develop the first version of the Stakeholder Engagement Plan (SEP).

Task 3.4 Direct Stakeholder Engagement (*Lead: DSA; Partners: BfS, CIEMAT, EK, SCK-CEN, IRSN, CEPN, CEA, ISS, IST, EIMV, EEAE, NMBU, NRG, GIG, UTartu*).

Key activities during year 1 are:

- Stakeholder mapping and establishing stakeholder networks for direct engagement.
- Direct stakeholder engagement – e-survey.
- Direct stakeholder engagement - topical online consultations and meeting.

Task 3.5 Addressing stakeholder interests of DG Health: radiation protection and proton therapy (PT) (*Lead: IFJ, Partners: SKANDION, KULeuven, INFN, UCaen, SCK CEN, BfS*)

Key activities during year 1 are:

- Update clinical guidelines for proton therapy in a scientific sprint.
- Organize two hybrid workshops

Set of Activities Number	WP4		Start Date or Starting Event					Month 1		
Set of Activities Title	Education and Training									
Participant number	10	3	21	38	31	20	42	53	35	22
Short name of participant	SCKCEN	BfS	Utartu	UnCaen	EK	NNK	UnPv	VIAA	NMBU	GIG
Person months per participant	1	0.2	0.2	0.2	1	0.2	0.2	0.2	1	0.2
Participant number	49	4	32	15	12	17	9	14	16	

Short name of participant	IST	SU	JSI	ALLIANCE	EURADOS	EURAMED	MELODI	NERIS	SHARE	
Person months per participant	0.2	6.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Start month	1	End month								12

Objectives

WP4 will maintain existing and develop new competences in radiation protection in research areas relevant for radiation protection. Specific aims are:

- To support targeted courses to promote training and competence;
- To promote mobility of students and early career researchers by travel grants;
- To support continuous professional development (CPD) by mobility grants to professionals;
- To develop and implement sustainable early career researcher and professional networking.

Description of work

Task 4.1: Support of targeted courses to promote knowledge, skills and competences of MSc/PhD students, early career researchers and professionals (*Lead NMBU; Participants: SCK CEN, SU, EK, IST, UniPv, UniCaen, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE*).

Key activities during year 1 are:

- Develop rules and guidelines for the support of courses
- Launch call for courses, evaluate applications and fund winning courses
- Evaluate the courses and if needed adjust the call for year 2 of the project

Task 4.2: Support of mobility for MSc/PhD students and early career researchers (travel grants)

(*Lead SU; Participants: SCK CEN, NMBU, EK, NNK, UTartu, VIAA, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE*)

Key activities during year 1 are:

- Develop Rules and guidelines for the mobility programme for PhD students and early career researchers
- Launch calls for the mobility programme, evaluate applications and fund winners
- Evaluate the applications and if needed adjust the calls for year 2 of the project

Task 4.3: Support of a continuous professional development programme for radiation protection professionals (*Lead SCK CEN; Participants: BfS, GIG, SU, NMBU, EK, VIAA, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE*)

Key activities during year 1 are:

- Develop Rules and guidelines for the support of CPD by mobility program for RP professionals
- Launch calls for the mobility programme, evaluate applications and fund winners
- Evaluate the applications and if needed adjust the calls for year 2 of the project

Task 4.4: Development of a sustainable radiation protection E&T programme and support for early career researcher organisations (*Lead EK; Participants: UTartu, UniPv, SCK CEN, NMBU, SU, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE*)

Key activities during year 1 are:

- Develop criteria for financing a European PhD and early career researcher/professional association
- Launch calls for the mobility programme, evaluate applications and fund winners
- Evaluate the applications and if needed adjust the calls for year 2 of the project
- Start organizing the PIANOFORTE early career researchers and professionals (ECRP) group and collating European RP E&T initiatives

Set of Activities Number	WP5	Start Date or Starting Event	Month 1
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Set of Activities Title	Infrastructures and data management for radiation protection research						
Participant Number	6	37	30	21	3	9	15
Short name of participant	DH-PHE	CEA	ISS	UTartu	BfS	MELODI	ALLIANCE
Person-months per participant	3.05	1.8	2.3	0.74	2.15	0.2	0.2
Participant Number	12	17	14	16	40	24	46
Short name of participant	EURADOS	EURAMED	NERIS	SHARE	CNRS	NCSR	IMROH
Person-months per Participant:	0.5	0.2	0.2	0.2	0.3	0.2	0.3
Participant Number	4	32	54	31	42	7	27
Short name of participant	SU	JSI	INFN	EK	UniPv	UCAMB	CIEMAT
Person-months per Participant:	0.1	0.29	0.7	0.7	0.3	0.6	0.2
Participant Number	1						
Short name of participant	IRSN						
Person-months per Participant:	0.3						
Start month	1			End month	12		

Objectives

The objective of WP5 will be to ensure that all infrastructure needs required for the implementation of the RPR roadmap and *Pianoforte* projects are recognised and served, with a specific emphasis on development of new approaches for management of data and data infrastructures.

Within year 1, the key objective will be to establish the Infrastructures Oversight Committee, in order to facilitate access to and training and intercomparisons in respect of key infrastructures, and to develop the DMP.

Description of Programmed Activities

Within year 1, the relevant tasks and activities will be:

Task 5.1 - Establish an infrastructure oversight committee (**Lead: DH-PHE**; participants: all Platforms, SU, IRSN, CEA, ISS, UTartu, BfS);

Development of initial recommendations for use of and access to infrastructures, in support of Task 5.2.2. Developing a fair and transparent system to allow researchers to access key infrastructures through open calls (Subtask lead: EK; participants: CEA, CNRS, JSI, all Platforms);

Initial collation and dissemination of information regarding recurring training courses already organised by infrastructures, and initiation of development of training materials about different infrastructures and their role in the RPR research landscape, in support of the wider Task 5.2.3. Developing and promoting training in the use of key RPR infrastructures (**Subtask lead: CEA**; participants: UniPv, EK, all Platforms);

To analyse existing systems of and funding for intercomparisons, in support of wider Task 5.3.1. Development of a system for funding inter-comparisons to promote standardization (identify tools and funding framework; (**Subtask lead: EURADOS**;; participants: JSI, INFN, ISS, all Platforms);

To identify and categorise the challenges faced by RPR infrastructures, in support of Task 5.4.1. Identification of challenges faced by RPR infrastructures (**Subtask lead: CEA**; participants EK, IRSN, UTartu, ISS, DH-PHE, BfS, all Platforms);

Task 5.5.1. Drafting a plan and vision for data management (**Subtask lead: BfS**; participants: DH-PHE, UCamb, all Platforms).

Set of Activities Number	WP6	Start Date or Starting Event	Month 1
Set of Activities Title	Knowledge management, communication, dissemination and impact creation		

Participant Number	1	3	4	6	13	37	27
Short name of participant	IRSN	BfS	SU	DH-PHE	SURO	CEA	CIEMAT
Person-months per participant	0.7	0.2	0.2	0.6	6	0.2	0.6
Participant Number	34	45	33	30	22	49	32
Short name of participant	DSA	EEAE	EIMV	EK	GIG	IST	JSI
Person-months per Participant:	0.6	0.1	0.2	0.6	0.2	0.1	0.1
Participant Number	55	24	20	50	21	53	2
Short name of participant	NCRRP	NCSR	NNK	RIVM	UTartu	VIAA	CEPN
Person-months per Participant:	0.1	0.4	0.6	2	0.6	1.4	0.6
Participant Number	35	10					
Short name of participant	NMBU	HZDR	All platforms				
Person-months per Participant:	0.8	0.1					
Start month	1			End month	12		

Objectives

The main objectives of WP6 are:

- To enable bidirectional communication about PIANOFORTE and its results effectively to the broader research community, key stakeholders and the public
- To make PIANOFORTE open calls projects results transferable and accessible to audiences that may use the new knowledge, data and information in their own work, enable use and uptake of results and maximize the impact of the EU-funded research
- To develop practical knowledge management tools that contribute to the integration of national research programs as well as to a sustainable collective memory in the radiation protection field on the basis of open science principles.
- To exploit the outputs of PIANOFORTE in order to maximize its impact

Description of work

Task 6.1: Knowledge management (Lead: RIVM; SURO, HZDR, UTartu, CIEMAT, EEAE, NCSR, EK, NNK, DSA, NMBU, GIG, DH-PHE, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE, JRC)

Key activities during year 1 are:

- Comparing knowledge management tools developed in member states
- Formulating Internal Communication Plan (ICP)

Task 6.2: Communication and dissemination (Lead: VIAA; CEPN, NCRRP, SURO, CEA, DSA, GIG, IST, JSI, DH-PHE ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE)

Key activities during year 1 are:

- Setting up communication plan
- Preparation of the Plan for Exploitation and Dissemination of Results (PEDR)

Task 6.3: On-line communication tools (Lead: SURO; IRSN, EIMV, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE)

Key activities during year 1 are:

- Development of the Partnership's website
- Establishment of social media channels
- Setting up of the internal storage and communication system

Task 6.4: Impact creation (Lead: SU; IRSN, CEPN, SURO, BfS, CIEMAT, CEA, EK, NNK, RIVM, DSA, NMBU, EIMV, DH-PHE, ALLIANCE, EURADOS, EURAMED, MELODI, NERIS, SHARE)

Key activities during year 1 are:

- Defining of the metrics for measuring impact
- Organization of the information meetings for EU researcher groups after the first open call launch

Set of Activities Number	WP7			Start Date or Starting Event			Month 1
Set of Activities Title	Organisation and management of PIANOFORTE R&I Open Calls						
Participant Number	29	19	57				
Short name of participant	NCBR	IFA	MUR				
Person-months per participant	19	0,15	0,15				
Start month	1			End month	12		

Objectives

The aim of WP7 is the PIANOFORTE open research calls process.

The main objectives of the first project year are:

- Establishment of Joint Call Secretariat and Call Steering Committee,
- Preparation of the documents for the first PIANOFORTE open research call,
- Launching first PIANOFORTE open research call.

Description of work (where appropriate, broken down into tasks), lead partner role of participants and relevant Work Package

Task 7.1 – Setting up a Joint Call Secretariat (JCS) and Call Steering Committee (CSC) (Lead: NCBR, participants: IFA, MUR)

Key activities during first year are:

- The JCS will be set up at NCBR for the first PIANOFORTE open research call
- The CSC will be established

Task 7.2 - Preparation of the Open Call (Lead: NCBR, participants: IFA, MUR),

Key activities during first year are:

- Call documents will be prepared for the first PIANOFORTE open research call - Governance of the Call and Evaluation document, Call Text, Guidelines for applicants, Proposal templates and documents for reviewers
- Submission and evaluation platform will be provided

Task 7.3: Implementation of the open call (Lead: NCBR, participants: IFA, MUR)

Key activities during first year is:

- Launch of the first PIANOFORTE open research call

2.2 Participation in Annual Work Programme activities

Most of the PIANOFORTE consortium partners do not plan to involve Associated Entities (AE) or external experts at the stage of proposal submission.

The following PIANOFORTE consortium partners will involve, or plan to involve, AE and/or external experts in their works:

Participant 1: IRSN, France:

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>The AE (CEPN) is research partners of IRSN in its function as national radiation protection research programme manager. In WP 3 and WP6, of PIANOFORTE and integrative activities input is required that cannot be covered by the national PM in total. Additional expertise and competence is provided by the AE</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
The AE have special expertise and competence for input in the PIANOFORTE integrative activities and possibly in the R&I activities. Its contribution is expert input in the tasks and deliverables of WP3 and WP6.	
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Centre d'étude sur l'Evaluation de la Protection dans le domaine Nucléaire (CEPN), 28, rue de la Redoute, F-92260 FONTENAY AUX ROSES, Tel: +33 1 55 52 19 20, contact: thierry.schneider@cepn.asso.fr , <http://www.cepn.asso.fr/en/>

Participant 3 BfS, Germany

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	Y
<i>BfS will subcontract the organization of major meetings in Task 3.4 target meeting, especially with external impact, to guarantee a consistent high level, e.g. in organization, moderation and sum up of results. This can be guaranteed by a professional provider.</i>	
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	N
<i>If yes, describe the affiliated entity, the link of the participant to the affiliated entity, and describe and justify the foreseen tasks to be performed by the affiliated entity</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 4: SU, Sweden:

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>SKANDION clinics, Uppsala. SKANDION is the national Swedish proton therapy centre. There is a standing collaboration with SU in the area of medical radiation protection research. SKANDION will contribute to WP3 with its expertise in evaluating the therapeutic and cost effectiveness of proton therapy. The responsible person in SKANDION is Dr Alexandru Dasu, the head medical physicist.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Dr Alexandru Dasu, Chief Medical Physicist, Skandionkliniken
 von Kraemers allé 26, 752 37 Uppsala, Sweden, +46-18-495 80 06,
alexandru.dasu@skandion.se

Participant 6 : DH-PHE, UK

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>University of Cambridge is an Affiliated Entity to DH-PHE and has worked with DH-PHE over many years in the context of a variety of projects/contracts. University of Cambridge is part of a DH-PHE instigated UK-wide collaboration on radiation protection research. University of Cambridge will be contributing expertise in radiation protection research data management, notably the STORE database as such they will contribute to WP5, task 5.</i> <i>University of Exeter is an Affiliated Entity to DH-PHE and has worked with DH-PHE in the context of stakeholder engagement issues in the CONCERT project and European radiation protection research platforms. University of Exeter is part of a DH-PHE instigated UK-wide collaboration on radiation protection research. University of Exeter will be contributing to the Pianoforte partnership as lead of the SHARE platform and in its own right, contributing to tasks in WPs 2, 4, 5 and 6.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 9 : SCK CEN, Belgium

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
AE: KULeuven <i>Link: SCK CEN and KULeuven are both member of the Belgian Convention of Radiation Protection Research, which governs the Belgian Radiation Protection Research Programme</i> <i>Tasks: KULeuven will participate in Task 3.5 on proton therapy, as they are the seat of the Belgian Proton Therapy Centre.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 11: SURO, Czech Republic:

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>See below</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Linked Third Parties to SURO: (comment – not taking part in integration activities, planning to take part in open calls)

Nuclear Physics Institute of the Czech Academy of Sciences, Husinec-Řež, čp. 130, 250 68 Řež, Czech Republic, Phone: +420 266 177 200, Contact Person: Dr. Marie Davidková (davidkova@ujf.cas.cz), www.ujf.cas.cz

University of South Bohemia in České Budějovice, Branišovská 1645/31a, 370 05 České Budějovice, Czech Republic, Phone: +420 776 296 676, Contact Person: Prof. Friedo Zölzer (zoelzer@zsf.jcu.cz), www.jcu.cz

Participant 15: EURAMED, European Platform

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y

<i>Part of EURAMED's work in the project will be performed by OvGU. OvGU is a member institution of EURAMED, and Prof Christoph Hoeschen is Chair of the EURAMED Scientific Committee.</i>	
<i>Within PIANOFORTE OvGU will contribute to the work package 2 "Research and innovation projects", among other tasks dedicated to improving medical radiation protection research with the aim of helping to combat cancer including modern approaches, in particular to the task 2.4 "Integration of Artificial Intelligence in Radiation Protection."</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 17 : IFA, Romania

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>The Affiliated Entities are research partners of IFA in its function as national radiation protection research programme manager. Joint programming and integrative activities input cannot be covered by the national PM, so additional expertise and competence is needed from the Affiliated Entities.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Institutul Național de Cercetare-Dezvoltare pentru Fizică și Inginerie Nucleară „Horia Hulubei” (IFIN-HH), 30 Reactorului str., Măgurele, Ilfov county, 077373, Tel. 021.404.2300, Fax 021.457.4440, Webpage: <https://www.nipne.ro/>

Legal link between PM and AE: Cooperation Agreement

Contact person: Dr. Diana SAVU, dsavu@nipne.ro

Institutul Național de Cercetare-Dezvoltare pentru Fizica Laserilor, Plasmei și Radiației (INFLPR), 409 Atomistilor str., Măgurele, Ilfov county, 077125, Tel. 021.457.4489, Fax 021.457.4243, Webpage: <http://inflpr.ro>

Legal link between PM and AE: Cooperation Agreement

Contact person: Dr. Gabriela CRĂCIUN, gabriela.craciun@inflpr.ro

Institutul Național de Cercetare-Dezvoltare pentru Fizica Materialelor (INFIM), 405A Atomistilor Str., Măgurele, Ilfov county, 077125, Tel. 021.369.0185, Fax 021.369.0177, Webpage: <https://infim.ro/>

Legal link between PM and AE: Cooperation Agreement

Contact person: Dr. Andrei GĂLĂȚEANU, gala@infim.ro

Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice (ICSI), 4 Uzinei Str., Râmnicu Vâlcea, Vâlcea county, 240050, Tel.: 025.0733890, Fax: 025.0732746, Webpage:

<https://www.icsi.ro/>

Legal link between PM and AE: Cooperation Agreement

Contact person: Dr. Sebastian BRAD, sebastian.brad@icsi.ro

Institutul Național de Cercetare-Dezvoltare pentru Optoelectronică (INOE 2000), 409 Atomiștilor Str., Măgurele, Ilfov county, 077125, Tel. 021.457.4522, Fax 021.457.4522, Webpage: <https://www.inoe.ro/>

Legal link between PM and AE: Cooperation Agreement

Contact person: Dr. eng. Roxana RADVAN, radvan@inoe.ro

Universitatea Alexandru Ioan Cuza din Iași (UAIC), 11 Carol I Bld., Iași, Iași county, 700506, Tel. 023.220.1010, Fax 023.220.1201; Webpage: <https://www.uaic.ro/>

Legal link between PM and AE: Cooperation Agreement

Contact person: Dr. Cătălin BORCIA, cborcia@uaic.ro

Universitatea din Craiova (UCV), 13 A.I.Cuza, Craiova, Dolj county, 20580, Tel. 035.1403.145, Fax. +025.141.1688; Webpage: <https://www.ucv.ro/>

Legal link between PM and AE: Cooperation Agreement

Contact person: Mihaela Tinca UDRIȘTIOIU, mtudristioiu@central.ucv.ro

Participant 23 : UEF, Finland

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<p><i>STUK (Finnish Radiation and Nuclear Safety Authority) is an affiliated entity to UEF through a national radiation research network (CORES). The network is based on agreements and long-lasting cooperation.</i></p> <p><i>In WP2 joint programming and integrative activities input is required that cannot be covered by the national Program Manager alone. Additional expertise and competence are provided by the AE. AE will lead a WP2 task to evaluate scientific output of the research projects, evaluate the integration of social sciences and humanities in the projects, and monitor the innovation and guidance formation of the projects.</i></p> <p><i>In WP2 joint programming and integrative activities input is required that cannot be covered by the national Program Manager alone, such as the role and competence of STUK as national authority in radiation protection and nuclear safety that provides insight into the implementation of results.</i></p> <p><i>Other Affiliated Entities to UEF are University of Jyväskylä, University of Helsinki, Aalto University, University of Oulu, Turku University Hospital, Tampere University Hospital, and Kuopio University Hospital. These AEs will be interested in applying funding through open calls arranged by PIANOFORTE. These AEs do not have any specific role in this stage.</i></p>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

UEF AEs and their PIC numbers (all other information could be accessed through PIC):

- Radiation and Nuclear Safety Authority (STUK; AE participating in Integration Activities): 999460744
- University of Jyväskylä (JYU): 999842245

- University of Helsinki (HY): 999994535
- Aalto University (Aalto): 991256096
- University of Oulu (UOulu): 999844670
- Turku University Hospital (VSSHP/TUCH): 999495858
- Tampere University Hospital (PSHP/TAUH): 999460065
- Kuopio University Hospital (PSSHP/KUH): 998250766
- Tampere University (TAU): 902999288
- University of Turku (UTU): 999903064
- LUT University (LUT): 999591209
- Oulu University Hospital (OUH): 950305509
- Åbo Akademi (ÅA): 999903355
- Helsinki University Hospital (HUS): 999483830

Participant 20 : GIG, Poland

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>The AE is research partners of GIG in its function as national radiation protection research programme manager. In WP5 and WP3 of PIANOFORTE and in integrative activities, a specific input is required that cannot be covered by the national PM in total. Additional expertise and competence in the proton therapy and standardization of measurement protocols is provided by the AE</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	y
The AE have special expertise and competence for input in the PIANOFORTE integrative activities and possibly in the R&I activities. Its contribution is expert input in the tasks and deliverables of WP5 and WP3.	
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Associated Entity (AE) to GIG:

THE HENRYK NIEWODNICZANSKI INSTITUTE OF NUCLEAR PHYSICS,
POLISH ACADEMY OF SCIENCES
KRAKOW, PL
PIC: 999611579

Participant 25: CIEMAT, Spain

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
<i>If yes, describe and justify the tasks to be subcontracted</i>	
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y

<i>The AE (32. MERIENGE SCP, Calle Llimoner, 30. 08734 Olèrdola, Barcelona. Contact: Meritxell Martell (meritxell.martell@merience.eu). Tel. +34 664674180. www.merience.eu) is a research partner of CIEMAT in its function as national radiation protection research programme manager. The AE (MERIENGE SCP) participates in two tasks of WP3 on Stakeholder Engagement (Task 3.2 Partnership Projects, and Task 3.3. Stakeholder Engagement Planning and Management), providing additional expertise and competence.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 27: NCBR, Poland:

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	Y
<i>In order to launch the call the electronic submission portal will be need. It will be subcontracted as NCBR does not have its own portal dedicated to international calls. It is planned to purchase the license for the submission system which will be in line with technical specification set up by EC.</i>	
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	N
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 35 : CEA, France

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>CEA will work with 3 Affiliated entities. INSERM, CNRS and University of Caen ; Inserm is the only public research organization in France entirely dedicated to human health. Its objective is to promote the health of all by advancing knowledge about life and disease, treatment innovation, and public health research. Better estimate the risk of exposure to ionizing radiation in medical use and in societal conditions represents the main research for more than 20 Inserm teams with expertise in radiobiology, medical physic, mathematic, radio-epidemiology and medicine. In this purpose, Inserm is developing a research from basic studies to clinical application in radiation protection. INSERM has a long term official agreement (“Accord-cadre”) with CEA and several joint labs are running. INSERM will be a very valuable partner in medical use of radiations and will contribute to WP2 on task dealing with topical web-workshops dedicated to PIANOFORTE Priorities.</i> <i>The Centre National de la Recherche Scientifique (CNRS) is a French multidisciplinary public research organization under the supervision of the Ministry of Higher Education, Research and Innovation. It brings together 32,000 researchers in more than 1100 research laboratories located</i>	

in France and abroad. It is one of the most important research institutions in the world. Its main objective is to meet the major challenges of the present and the future by exploring life, matter, the Universe and the functioning of human societies. CNRS comprises 10 institutes, including the Institute for Biological Sciences (INSB), the Institute of Chemistry (INC), the Institute of Ecology and Environment (INEE) and the Institute of Nuclear and Particle Physics (IN2P3). These four institutes have been collaborating for several years mainly in the fields of health, nuclear energy and the study of the impact of radionuclides in the environment, conducting interdisciplinary research from the very basic to the development of applications with societal impact.

CEA and CNRS have a long term official agreement (“Accord-cadre”) and several joint labs are running. CNRS will be a very valuable partner in medical use of radiations and will contribute to WP5 on tasks dealing with transnational access to Infrastructures and will bring its expertise in running very large infrastructures and implementing transnational access.

One of the priorities of University of Caen Normandy (UniCaen) in France is performing research and education in radiobiology. The university comprises 45 laboratories (21 of which are supported by large research bodies such as the CNRS, CEA, INSERM and INRA) within several large multidisciplinary scientific poles including radiation sciences. Since many years, due to GANIL, CYCERON and the new HARDON therapy facilities, University of Caen Normandy has long-term collaboration and official agreement with CEA in both research and educational activities within radiation research. The University of Caen and the region of Normandy invested tremendous economic resources for obtaining new radiation equipment (such as cyclotron C400, proton cyclotron and x-rays machines), infrastructures and laboratory for continue doing basic and translational radiation biology covering high as well as low dose research. UniCaen is a very important partner for Education and training (WP4). UniCaen is a university with long-time experience in E&T, so its expertise is needed in the evaluation process of courses and mobility grants. Even more so because the majority of POMs are non-academic institutions. Moreover Unicaen in collaboration with Medical expert from the new Hadron therapy Facility will contribute to WP3 on Protontherapy and Radioprotection.

Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 39-ENEA, Italy

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>UniPv is a University research partner affiliated to ENEA, with collaboration consolidated in several European projects. UniPv will participate in WP4 Education and Training and WP5 Infrastructures and Data management. As a University with long-time experience in E&T (also coordinating E&T in EURATOM projects), its expertise is needed in the evaluation process of courses and mobility grants for WP4 and in tasks related to training on infrastructures for WP5. UniPv contribution is also important as the majority of POMs are non-academic institutions.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N

Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N
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If yes, please describe the associated partner (s) and their contributions

Affiliated Entities to ENEA

University of Pavia: Contact: Dr. Giorgio Baiocco (giorgio.baiocco@unipv.it), Tel. +39 0382 987948
Address: Physics Department, University of Pavia, Via Bassi 6, Pavia I-27100, Italy
Homepage: <http://radbiophys.unipv.eu/>

Participant 30: JSI, Slovenia:

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))? N	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>The AE is a research partner of JSI. In WP 3 and WP6, of PIANOFORTE and integrative activities input is required that cannot be covered by the national PM in total. Additional expertise and competence is provided by the AE. The AE have special expertise and competence for input in the PIANOFORTE integrative activities and possibly in the R&I activities. Its contribution is expert input in the tasks and deliverables of WP3 and WP6.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)? N	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)? N	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)? N	N

Affiliated Entity to JSI

Elektroinstitut Milan Vidmar, Hajdrihova 2, 1000 Ljubljana, Slovenia
Contact person: Nadja.Zeleznik@eimv.si , <https://www.eimv.si/>

Participant 32 : DSA, Norway

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>The affiliated entity, the Norwegian University of Life Sciences (NMBU) (www.nmbu.no, Address: P.O. Box 5003 NMBU, 1432 Aas, Norway; Contact persons: prof. Deborah Oughton, deborah.oughton@nmbu.no; prof Lindis Skipperud, lindis.skipperdu@dsa.no) will support DSA in the role of national programme manager for radiation protection research during the PIANOFORTE partnership. NMBU will participate in WP3, WP4 and WP6 of the PIANOFORTE. In WP3, Stakeholder engagement, NMBU will contribute with its long experience of stakeholder involvement and organization of engagement activities. In WP4, Education and Training, NMBU is a university with long-time experience in E&T, so its expertise is needed in the evaluation process of courses and mobility grants. Even more so because the majority of POMs are non-academic institutions. In WP6, Knowledge management, communication, dissemination and impact creation, NMBU will</i>	

<i>support dissemination and communication activities, particularly linked to the ethical aspects of open science and data management, drawing on international engagement in the area through UNESCO and ALLEA.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 41 : DEMA, Denmark

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y

DEMA will contribute to WP2: Research and Innovation calls, defining priorities for joint programming in order to enhance radiation protection culture and emergency preparedness. Especially, we are able to introduce advanced use of decision support systems and dispersion models into the project through the use and development of the ARGOS system, which has been developed in a close collaboration with DTU, PDC-ARGOS and Danish Meteorological Institute (DMI). To maintain and constantly improve ARGOS, to adopt it to the rapid development in international standards of data sharing, to establish links to other dispersion models, and to update the nomenclature used for best possible description of the available information DEMA needs support from Affiliated Entities. Another priority is to further develop methods and advice on optimized intervention and related measurement strategies both for decision support and for practical implementation.

DTU has been the main supplier of calculation concepts, methodologies and data for particularly the inhabited areas modules of ARGOS and RODOS (e.g., ERMIN), but has also delivered datasets for improvement of for example the food dose modules of the two decision support systems. Further, DTU has developed the methodologies for, e.g., plume rise, physicochemical source term characterization and dose calculation in the CBRN-related parts of ARGOS. DTU has also been a major supplier of information on countermeasure implementation based on a comprehensive practical development and testing program. DTU constitute an important part of the Danish emergency preparedness, and continuously carry out radiation surveillance work (e.g. national data for EU's REM database). DTU has a long history of collaboration with DEMA and PDC-ARGOS in European projects (e.g., EURANOS (2004-2009), NERIS TP (2011-2014), PREPARE (2013-2016), CONFIDENCE (2017-2020)). DTU has also had extensive collaboration with DMI, as well as DEMA and PDC-ARGOS, in for example a suite of research and development projects under the Nordic NKS framework, developing methodologies for the ARGOS system.

PDC-ARGOS together with DEMA has originally developed the ARGOS system to be used for CBRN(E) Emergency Preparedness and Response. ARGOS is a software system to support the emergency organization to make the best possible decisions in case of incidents involving atmospheric dispersion of hazardous CBRN-materials. PDC-ARGOS also maintains and develops on the short range ADM-model RIMPUFF, Incorporated in the ARGOS DSS. RIMPUFF is originally developed by DTU. In addition, PDC-ARGOS, DEMA and DMI have been mutually engaged in a number of international research and development projects i.a PDC-ARGOS is a supporting member of the NERIS-platform.

The second Affiliated Entities will be the Danish Meteorological Institute (DMI, Denmark). Since

1992, DMI has been an operational partner of the Danish nuclear emergency preparedness for which the Danish Emergency Management Agency (DEMA) is responsible. Through national and international research activities, DMI is constantly improving national meteorological services in the area of emergency preparedness for atmospheric dispersion of nuclear and other harmful substances. DMI has taken part in, and in many cases initiated and coordinated, numerous international research and development projects within radiation protection; e.g. NKS projects SOCHAOTIC, SLIM, AVESOME, MESO, FAUNA, MUD, NordRisk, NordRisk II, MetNet, and EKO-4, as well as EU projects ENSEMBLE, RTMOD, ETEX, ATMES-II, RODOS, and EnviroRisks. All three EAs, Technical University of Denmark (DTU), Danish Meteorological Institute (DMI, Denmark) and PDC-ARGOS will provide in-kind contribution to PIANOFORTE with their own resources.

Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Participant 42 : HZDR, Germany

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>The AE's are research partners of HZDR in its function as national radiation protection research programme manager. In WP2, WP3, WP4, WP5, and WP6 of the PIANOFORTE project and integrative activities input is required that cannot be covered by the national PM in total. Additional expertise and competence is provided by the AEs.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Affiliated entities to HZDR

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Helmholtz Zentrum München (HMGU), Ingolstädter Landstraße 1, 85764 Neuherberg, Tel. : +49-89 3187-2801, contact : Dr. Markus Eidemüller (markus.eidemuller@helmholtz-muenchen.de), Prof. Dr. Werner Rühm (werner.ruehm@helmholtz-muenchen.de)

GSI Helmholtzzentrum für Schwerionenforschung, Planckstraße 1, 64291 Darmstadt, Tel. : +49-6159 71 2009, contact : Prof. Marco Durante (M.Durante@gsi.de)

Participant 44 : IMROH, Croatia

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>The AE is research partners of IMROH in its function as national radiation protection research programme manager. In WP 3 & WP5.3.2 and maybe in WP4, of PIANOFORTE and integrative activities educational input is required that cannot be covered by the national PM in total. Additional educational expertise and competence is provided by the AE (both of them)</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

Affiliated entities to IMROH

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Participant 49, RIVM, Netherlands

Does the participant plan to subcontract certain tasks (please note that core tasks of the programme should not be sub-contracted) (article 6.2 B and 9.3 of Model Grant Agreement (MGA))?	N
Does the participant envisage that part of its work is performed by affiliated entities (article 8 of MGA)?	Y
<i>NRG is one of the leading nuclear expertise centers in the Netherlands. NRG is a major supplier of medical isotopes and operated a publicly financed research program on nuclear science, which includes dedicated research activities in radiation protection, aligned with the major SRA from e.g. EURADOS, EURAMED and ALLIANCE. The department for RP has a total of 30 FTE, with dedicated computer and experimental facilities used in research. NRG and RIVM have a history of joint work in radiation protection research. In recent years, this has focused on naturally occurring radioactive materials in building materials, and their relevance to exposure of indoor exposure to the public. NRG will contribute to WP3.</i>	
Does the participant envisage the use of in-kind contribution provided by third parties (articles 6.1 and 9.2 of MGA)?	N
Does the participant envisage the provision of financial support to third parties (articles 6.2 D.1 and 9.4 of MGA)?	N
Does the participant envisage that part of the work is performed by associated partners ¹ (Article 9.1 of the MGA)?	N

2.3 Resources to be committed

3. Table 2.3.b: AWP Set of Activities

Activity No	Activity Title	Lead Participant N°	Short name of lead participant	Total Person-Months	Start Month	End Month
WP1						
1.1	Overall coordination and legal, contractual, administrative and financial management	1	IRSN	20	M1	M12
1.2	General Assembly and Executive Board meetings	1	IRSN	6,0	M1	M12
1.3.	Task 1.3: Updating the annual work plan	1	IRSN	1,5	M1	M12
1.4	Negotiation of projects to be funded through open R&I calls	1	IRSN	3,7	M1	M12
1.5	Funding decision process for integration activities listed in the approved annual work program	1	IRSN	0,5	M1	M12
1.6	Monitoring of the progress of the Partnership	1	IRSN	2,6	M1	M12
			Total WP1	34,3		
WP2						
2.0	Management	10	SCK CEN	2	M1	M12
2.1.a	Priority for first call	20	NNK	14	M1	M10
2.2.a	Analysis of comments on the the first JRM	32	JSI	1.4	M1	M4
2.3.a	Develop a web-based tool for monitoring the project's outcomes	55	NCRPP	4.1	M1	M12
2.3.b	Establish guidelines for integrating social sciences and humanities in funded projects	26	STUK	1.5	M1	M6
2.4.a	Review on AI implementations in RP	24	NCSR D	2.5	1	12
2.4.b	Interaction with scientific communities specializing on AI	1	IRSN	1.25	1	12
2.4.c	Promoting the uptake of AI in R&I calls (18	OVGU	1.25	1	12
2.4.d	Ethical challenges of AI	8	UExet	1	1	12
			Total WP2	29		
WP3						
3.1	International partners and partnership priority setting	3	BFS	13	M1	M12
3.2	Partnership Projects	46	IMROH	3	M1	M12

3.3	Stakeholder Engagement Planning and Management	27	CIEMAT	5	M1	M12
3.4	Direct Stakeholder Engagement	34	DSA	6,2	M1	M12
3.5	Addressing stakeholder interests of DG Health: radiation protection and proton therapy	10	SCK-CEN	14	M1	M12
			Total WP3	41,2		
WP4						
4.1	Support of targeted courses to promote knowledge, skills and competences of MSc/PhD students, early career researchers and professionals	35	NMBU	2,6	M1	M12
4.2	Support of mobility for MSc/PhD students and early career researchers (travel grants)	4	SU	64,4	M1	M12
4.3	Support of a continuous professional development programme for radiation protection professionals	10	SCKCEN	2,8	M1	M12
4.4	Development of a sustainable radiation protection E&T programme and support for early career researcher organisations	31	EK	2,41	M1	M12
			Total WP4	12,2		
WP5						
5.1	Establish an infrastructure oversight/stakeholder committee	6	DH-PHE	3.7	M1	M6
5.2.2	Developing a fair and transparent system to allow researchers to access key infrastructures through open calls	31	EK	2,02	M1	M12
5.2.3	Developing and promoting training in the use of key RPR infrastructures	37	CEA	1.52	M1	M60
5.3.1	Development of a system for funding inter-comparisons to promote standardization (identify tools and funding framework)	12	EURADOS	3,38	M6	M18
5.4.1	Identification of challenges faced by RPR infrastructures	37	CEA	1.68	M1	M18
5.5.1	Drafting a plan and vision for data management	3	BfS	3,23	M1	M6
			Total WP5	15,53		
WP6						
6.1	Knowledge management tool and internal communication plan development	50	RIVM	5.1	M1	M12
6.2	Communication and PEDR plan formulation	53	VIAA	3	M1	M12
6.3	Establishment of the on-line tools	13	SURO	5.52	M1	M12
6.4	Impact creation system and events	4	SU	3.38	M1	M12

			Total WP6	17		
WP 7						
7.1	Set up Call Steering Committee (CSC) and Joint Call Secretariat (JCS).	29	NCBR	1,3	M1	M10
7.2	Preparation of the Open Call documents and launch of the call	29	NCBR	9	M7	M10
7.3	Implementation of the open call	29	NCBR	9	M10	M17
			Total WP7	19,3		

Table 2.3.d: Summary of staff effort

	Activity 1	Activity 2	Activity 3	Activity 4	Activity 5	Activity 6	Total Person/ Months per Participant
WP1	T.1.1	T.1.2	T.1.3	T.1.4	T.1.5	T.1.6	
IRSN	20	2,5	1,5	3,5	0,5	2	30
SCK CEN	0	0,3				0,1	0,4
BfS	0	0,3				0,1	0,4
SU	0	0,3				0,1	0,4
PHE	0	0,3				0,1	0,4
SURO	0	0,3				0,1	0,4
NCBR	0	0,3		0,2		0,1	0,6
All POMs		1,40					1,40
All Platforms		0,3					0,3
Total WP1	20	6	1,5	3,7	0,5	2,6	34,30
WP2	T.2.0	T.2.1	T.2.2	T.2.3	T.2.4		
SCK CEN	2	1,5	0,2	0,2			3,9
NNK		2,5					2,5
SSM		1,5					1,5
CIEMAT		1,5					1,5
JSI			1				1
EK			0,1				0,1
ENEA			0,1				0,1
STUK				1			1
NCRPP				3			3
CEA				0,1			0,1
INSERM				0,1			0,1
ISS				0,2			0,2
UExet				1	1		2
NCSR D					3		3
IRSN					1		1
OvGU					1		1
All POMs		7					7
Total WP2	2	14	1,4	5,6	6		29
WP3	T.3.1	T.3.2	T.3.3	T.3.4	T.3.5		
IRSN	0	0,1	0,1	0,1			0,3
SCK-CEN		0,1	0,1	0,4	1		1,6
BfS	12,4	0,2	0,2	0,2	1		14
Stockholm U.	0,1						0,1
PHE	0,1						0,1
CEA				0,1			0,1

CIEMAT			3,8	0,2			4,0
DSA			0,2	1,8			2,0
EEAE				0,1			0,1
EIMV	0,1		0,1	0,1			0,3
EK				1,5			1,5
GIG	0,1		0,1	0,1			0,3
IMROH		2					2,0
ISS			0,1	0,1			0,2
IST	0,1		0,1	0,2			0,4
JSI		0,2					0,2
UTartu	0,1	0,1		0,1			0,3
CEPN		0,1	0,1	0,1			0,3
NMBU				1			1,0
U. Zagreb		0,1					0,1
Merience		0,1	0,1				0,2
NRG				0,1			0,1
KU leuven					2		2
IFJ Pan					4		4
U. Caen					2		2
INFN					2		2
Skandion					2		2
Total WP3	13	3	5	6,2	14		41,2
WP4	T.4.1	T.4.2	T.4.3	T.4.4			
SCK CEN	0.2	0.2	0.3	0.3			1
BfS			0.2				0.2
UTartu		0.1		0.1			0.2
UnCaen	0.2						0.2
EK	0.2	0.2	0.2	0.4			1
NNK		0.2					0.2
UnPv	0.1			0.1			0.2
VIAA			0.2				0.2
NMBU	0.4	0.2	0.2	0.2			1
GIG			0.2				0.2
IST	0.2						0.2
SU	1	3.2	1	1			6.2
JSI			0.2				0.2
ALLIANCE	0.05	0.05	0.05	0.05			0.2
EURADOS	0.05	0.05	0.05	0.05			0.2
EURAMED	0.05	0.05	0.05	0.05			0.2
MELODI	0.05	0.05	0.05	0.05			0.2
NERIS	0.05	0.05	0.05	0.05			0.2
SHARE	0.05	0.05	0.05	0.05			0.2
Total WP4	2.6	4.4	2.8	2.4			12.2
WP5	T.5.1	T.5.2.2	T.5.2.3	T.5.3.1	T5.4.1	T5.5.1	
DH-PHE	2.8					0.25	3.05
MELODI	0.05	0.03	0.03	0.03	0.03	0.03	0.2
ALLIANCE	0.05	0.03	0.03	0.03	0.03	0.03	0.2
EURADOS	0.05	0.03	0.03	0.33	0.03	0.03	0.5
EURAMED	0.05	0.03	0.03	0.03	0.03	0.03	0.2
NERIS	0.05	0.03	0.03	0.03	0.03	0.03	0.2
SHARE	0.05	0.03	0.03	0.03	0.03	0.03	0.2
SU	0.1						0.1
IRSN	0.1				0.2		0.3
CEA	0.1	0.7	0.7		0.3		1.8
ISS	0.1			2	0.2		2.3
UTartu	0.1	0.07	0.07		0.5		0.74
BfS	0.1			0.05		2	2.15
INFN		0.5		0.2			0.7
CIEMAT				0.2			0.2
IMROH				0.3			0.3

NCSR						0.2	0.2
CNRS		0.15	0.15				0.3
JSI		0.07	0.07	0.15			0.29
UniPv		0.15	0.15				0.3
EK		0.2	0.2		0.3		0.7
UCamb						0.6	0.6
Total WP5	3.7	2,02	1.52	3,38	1.68	3,23	15,53
WP6	T.6.1	T.6.2	T.6.3	T.6.4			
SURO	0.4	0.4	4.8	0.4			6
IRSN			0.6	0.1			0.7
BfS				0.2			0.2
SU				0.2			0.2
DH-PHE	0.2	0.2		0.2			0.6
CEA		0.1		0.1			0.2
CIEMAT	0.5			0.1			0.6
DSA	0.2	0.2		0.2			0.6
EEAE	0.1						0.1
EIMV			0.12	0.08			0.2
EK	0.2			0.4			0.6
GIG	0.1	0.1					0.2
IST		0.1					0.1
JSI		0.1					0.1
NCRRP		0.1					0.1
NCSR	0.4						0.4
NNK	0.1			0.5			0.6
RIVM	1.8			0.2			2
UTartu	0.6						0.6
VIAA		1.4					1.4
CEPN		0.3		0.3			0.6
NMBU	0.4			0.4			0.8
HZDR	0.1						0.1
Total WP6	5.1	3	5.52	3.38			17
WP7	T.7.1	T.7.2	T.7.3	T.6.4			
NCBR	1	9	9				19
IFA	0,15						0,15
MUR	0,15						0,15
Total WP7	1,3	9	9				19,3

Table 2.3.e: Other major cost items (travel, equipment, infrastructure, goods and services)

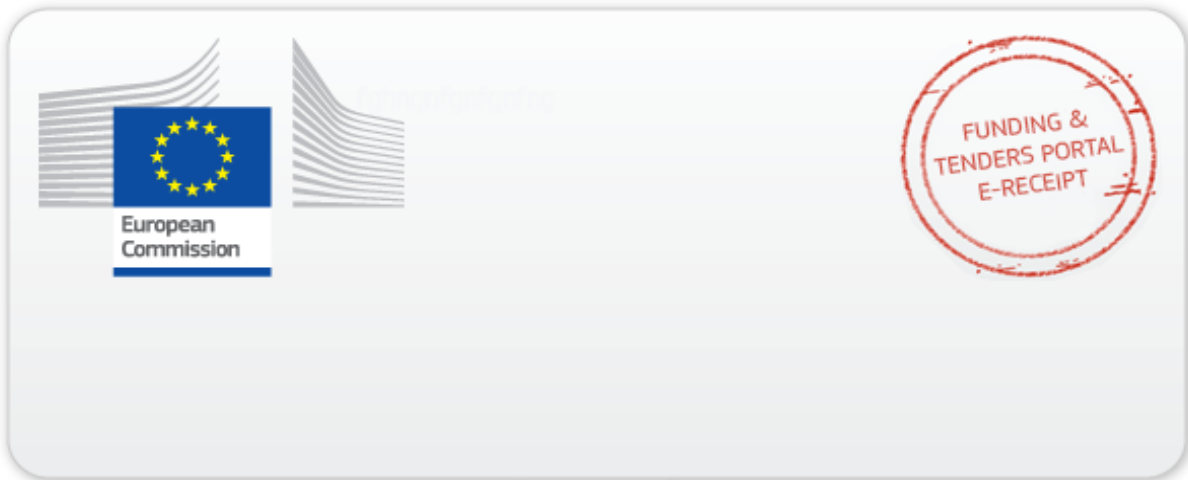
3-BfS	Cost (€)	Justification
Travel	1000	To join (WP3 meeting at) kick-off of PIANOFORTE
Goods and services	80,000	2 stakeholder consultation meetings for 1st Research Call
Total	81,000	

6-DH-PHE	Cost (€)	Justification
Other	25,000	Funds to disburse to facilitate infrastructure access/training and intercomparison exercises
Total	25,000	

50-RIVM	Cost (€)	Justification
Other	5,000	Organisation of meetings dedicated to the knowledge management
Total	5,000	

13-SURO	Cost (€)	Justification
Goods and services	40,000	Website and graphics development; social media channels establishment
Other		
Total	40,000	

20-NNK	Cost (€)	Justification
Goods and services	3,000	Organization of the information meetings for EU researcher groups after the first open call launch
Other		
Total	3,000	



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