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Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



Spoke 5

Outreach, public engagement, lifelong learning

October 25, 2022
Susanna Bertelli INFN LNF



OVERVIEW

S5: Leader and affiliates

S5: INFN Team

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S5: Tasks -> Flagship projects

S5: Preliminary plan



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Spoke Leader: Università Degli Studi della Tuscia

Spoke affiliates:

**Sapienza Uni. di Roma, Uni. Roma Tor Vergata, Uni. Roma Tre,
Unitus, CNR, INFN**



Spoke 5 INFN TEAM

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TASK 1

Dissemination
and exploitation
of technical
and scientific results

TASK 2

Knowledge exchange
with stakeholders

TASK 3

Visibility and impact
on society

TASK 4

Lifelong learning

TASK 5

Secondary School
students
engagement

TASK 6

Placement

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TASK 1 Dissemination and exploitation of technical and scientific results

Description: Activities targeting industries and research community, events, publications aimed to disseminate research results and to promote the brand of Rome Technopole



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TASK 2 Knowledge exchange with stakeholders

Description: Activities of the stakeholder board, open events

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TASK 3 Visibility and impact on society

Description: Promoting the brand and the social mission of RT as a means of breaking down inequalities. Investment to support gender balance in STEM and to promote female empowerment and entrepreneurship.

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TASK 4 Lifelong learning

**Description: Actions aimed at revising and updating the legal framework for continuing training relevant to the labor market for people of working age; definition of relevant study areas and learning paths.
Multidisciplinary approach.**

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TASK 5 Secondary School students' engagement

Description: Activity specifically targeting students, with open days, student fairs etc. Incoming and itinerant tutoring plans aimed at filling training gaps also resulting from the provision of remote school teaching due to the restrictions for the fight against the COVID 19 pandemic for the students of the courses who find themselves having an incomplete or inadequate training.

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TASK 6 Placement

Description: Activities include job orientation activities, soft skills and employability skills development, co-design of training activities, development of internship and job opportunities, operational linking of labour supply and demand; the set of instruments are: career/recruitment events, open days, consultation tables, training activities, digital platforms, etc.; the activities are carried out in collaboration with companies, associations, institutions, etc.



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Spoke 5 and Flagship projects

FP2: Energy transition and digital transition in urban regeneration and construction

Contribution to the outreach and public engagement aimed at disseminating the culture of digital transition and green technology for urban regeneration including the design and realization of multimedia products with examples on existing areas (e.g. the Castelli Romani area).

FP4 Development, innovation and certification of medical and non-medical devices for health

FP6 Artificial intelligence, virtual reality and digital twin for advanced engineering and aerospace

FP7 Advanced and automated innovation labs for diagnostic and therapeutic biopharma solutions

Design and realization of multimedia ICT products illustrating the development of medical devices and the experimental testing needed for their validation (FP4), of artificial intelligence (machine & deep learning) (FP6), of diagnostic and therapeutic biopharma solutions (FP7).

Spoke 5 preliminary plan

Realizzazione di realtà virtuali (VR) per spiegare il principio di funzionamento di un acceleratore lineare, un acceleratore circolare, della Plasma Wakefield Acceleration Technique, delle applicazioni degli acceleratori in ambito medico/industriale, ultra fast electron diffraction (imaging tessuti) e nella realizzazione di realtà aumentate/animazioni (AR) per mostrare il funzionamento di stazioni di potenza di TEX e delle applicazioni di raggi X/tecnologie nucleari nell'ambito del restauro.

Inoltre verrà allestito un laboratorio didattico di fisica moderna con kit per attività hands-on da impiegare in corsi di formazione e aggiornamento per docenti, scuole e corsi per allieve/i delle Scuole primarie e secondarie e studentesse e studenti universitari.

Spoke 5 preliminary plan

Primary and Middle School students -> INFN KIDS

High school students -> stages and opendays

University students -> course and openday

Middle School teachers -> training course

High School teachers -> training course

General public -> public seminars, webinars and openday

Industries, companies -> guided tours and openday