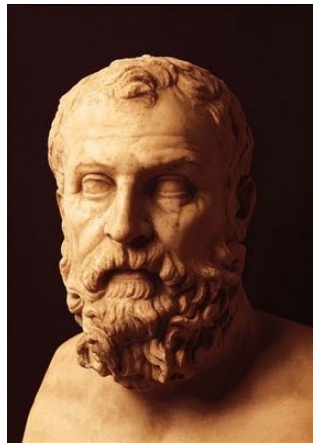
WP3: Organisation and Rules

Horizon Europe



2nd site

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PP Steering Committee: Leaders Behind EuPRAXIA

Horizon Europe

- Governing Board (Decision-making body)
- Steering Committee
- Scientific Advisory Board
- Technical & Industrial Advisory Board
- Board of Financial Sponsors

WP1 - Coordination & Project Management
R. Assmann, INFN & DESY
M. Ferrario, INFN

WP2 - Dissemination and Public Relations
C. Welsch, U Liverpool
S. Bertellii, INFN

WP3 - Organization and Rules
A. Specka, CNRS
A. Ghigo, INFN

WP4 - Financial & Legal Model. Economic Impact
A. Falone, INFN

WP5 - User Strategy and Services
F. Stellato, U Tor Vergata
E. Principi, ELETTRA

WP6 - Membership Extension Strategy
B. Cros, CNRS
A. Mostacci, U Sapienza

WP7 - E-Needs and Data Policy
R. Fonseca, IST
S. Pioli, INFN

WP8 - Theory & Simulation
J. Vieria, IST
H. Vincenti, CEA

WP9 - RF, Magnets & Beamline Components
S. Antipov, DESY
F. Nguyen, ENEA

WP10 - Plasma Components & Systems
K. Cassou, CNRS
J. Osterhoff, DESY

WP11 - Applications
G. Sarri, U Belfast
E. Chiadroni,U Sapienza

WP12 - Laser Technology, Liaison to Industry
L. Gizzi, CNR
P. Crump, FBH

WP13 - Diagnostics
A. Cianchi, U Tor Vergata
R. Ischebeck, EPFL

WP14 - Transformative Innovation Paths
B. Hidding, U Strathclyde
S. Karsch, LMU

WP15 - TDR EuPRAXIA @SPARC-lab
C. Vaccarezza, INFN
R. Pompili, INFN

WP16 - TDR EuPRAXIA Site 2
A. Molodozhentsev, ELI-Beamlines
R. Pattahil, STFC

WP's on coordination & implementation as ESFRI RI (organization, legal model, financing, users)

WPs on technical implementation and sites

WP3 objectives

Objectives (as of “Part-B-Document”)

The primary objective of WP3 is to develop the organisational model of EuPRAXIA to ensure a sound and timely execution of tasks when the RI will be operational. For this purpose, WP3 will develop an organisational model.

The overall concept of EuPRAXIA is unusual for an accelerator facility and is breaking some borders in both the managerial as also the technical concept.

Models of organization of existing research infrastructures that include the participation of different research institutions and funding agencies will be compared.

WP3: Managerial concept

The overall managerial concept assumes that plasma acceleration must move to the next stage beyond the present level of 30 – 50 M€ projects in single laboratories or countries. At the next stage there should be sufficient resources to combine expertise from many European labs and from different technical fields for a next level ESFRI RI. It is assumed that the next stage cannot and should not be performed at several European countries and labs in parallel.

The overall managerial concept of EuPRAXIA therefore implements the scenario where the European field comes together for common design and construction of a European plasma accelerator facility, which shall be installed in two central locations for two complementary driver technologies (one for beam and one for laser drivers). Both sites share common technical designs, prototyping and production for many components. The model applied here takes the example of a large High Energy Physics detector, that is designed and constructed by a wide collaboration

WP3: Description of the work (remit)

The WP3 is following up on the following work items coordinated by CNRS and INFN and supported by the collaborating institutes with their extensive experience and knowledge base:

- Benchmark organisational models of distributed pan-European research infrastructures in physics and engineering **-> WP1, WP2, WP4, WP5, WP6, WP7**
- (Re)define EuPRAXIA-RI access policy **-> WP1, WP5, WP6, WP7**
- Convert services into org. requirements: EuPRAXIA-RI services, tasks & procedures **->WP1, WP5, WP15, WP16**
- Complete the organisational plan with internal services, tasks, and procedures **->WP1, Wp5, WP15, WP16**
- Identify the roles and responsibilities of each EuPRAXIA installation (Construction site and Centres of Excellence) in the provision of services and internal procedure or task **-> all technical WP**
- Continuously interact with existing, operational research infrastructures to find solutions to operational problems at EuPRAXIA **-> WP1, WP2, WP5, WP6**
- Assist **WP6** in drafting the EuPRAXIA Terms of Services

WP3: Deliverables and Milestones

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Milestones:

M3.1 Benchmark of comparable RI organisational models (M18)

M3.2 Organisational requirements: requirements for internal procedures and tasks (M28)

M3.3 Responsibilities breakdown (M32)

- XFEL,ELETTRA,
- ELI,EPAC,…
- FACET
- CTA, FERMI, ESO, GEL
- CERN experiments
- …

suggestions welcome

Deliverables

DEL3.1 Report (R) on the decision for the 2nd Site (M18)

DEL3.2 Report (R) on the distributed RI Concept, including organization and rules (M42)

Items to be addressed in org. model (non-exhaustive)

- scope for organizational model: site (laser- or beam-driven) specific rules
- review management operational model : government and executive bodies
- facility implementation
  - integration of national + EU specific calls
  - in-kind contributions
- status: contributor-v/s co-developer v/s user
- facility operation, e.g. initiation of shutdowns
- access policy:
  - collaborative accelerator R&D v/s “turn-key” beamline users
  - experiment selection and beam time allocation
  - cost evaluation and sharing
  - technical, financial and logistic user support
- health and safety regulations for collaborators and external users
- publications policy, data policy,

WP3: first year actions

- selection of existing distributed European RI for benchmarking of org. models
- establish regular meetings with other organizational WP
- engage discussions with and organise visit to 2nd site candidates
- establish first draft of site selection criteria
  (in collaboration with candidate sites and WP1)
- rules of publication, use of name and logo

EuPRAXIA will have the organizational model that YOU will shape, and follow rules that YOU will have set. YOUR input is required and will be requested.