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RICH



Research Infrastructures Consortium for Horizon 2020

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Research Infrastructures WP 2016-2017

- 1. Development and long-term sustainability of new pan-European Ris - Call INFRADEV**
- 2. Integrating and opening RIs of European Interest – Call INFRAIA**
- 3. Fostering the innovation potential of Ris – Call INFRAINNOV**
- 4. Support to policy and international cooperation – Call INFRASUPP**
- 5. E-infrastructures – Call E-infra**

Support to the development of new sustainable world-class RI

1. Design Studies -> conceptual or technical design report
2. Preparatory phase of ESFRI projects: ESFRI roadmap update 2016
3. Individual support to ESFRI and OWCRI: targeted to RI with established governance and structure at EU/international level (ERIC,...). Competitive call. Step to ensure sustainability
4. Pilot action for European Open Science Cloud for Research: pilot action to demonstrate how a cloud infrastructure can enable access to scientific data and data-analysis services

- Proposal for the EU Open Science Cloud have to
- Address the federation, networking and coordination of existing research infrastructures and scientific clouds to increase data findability, accessibility and interoperability, and to facilitate re-use of data
- Design a stakeholder driven governance framework.
- Build on existing e-infrastructures and thematic data infrastructures
Interrelated to EINFRA-12-2017

Opening of key national/regional RI to EU researchers and ensure their optimal use and development

Novelty: different approach for Advanced and Starting Communities

1. IA for Advanced communities

- Advanced degree of coordination
- 1 stage call, top-down approach based on a multi-annual plan
- Emphasis on innovation, widening TA&VA, novelties, sustainability

2. IA for Starting communities

- RI never supported for IA in FP7 and H2020
- 2 stage call, bottom-up
- Emphasis on networking, standardisation, common access procedure for TA&VA

Proposals have to cover 3 mandatory activities

1. Networking activities
2. Transnational and Virtual Access
3. Joint Research Activities

One project/domain; access only to key Ris; synergies with ESFRI, innovation capacity, management of data international dimension

1. Fostering co-innovation for future detection and imaging technologies

New R&I collaborative framework to support technology and innovation transfer from RI to industrial partners, joint-development of high-tech components

2. Support to Technological Infrastructures

Development of SRA and roadmaps for key technologies -> construction/upgrade Ris, potential market, best practices

INFRASUPP-01-2016 – Policy and INCO measures for RI

- 1. Synchronising and harmonisation of RI evaluation mechanisms and road-mapping
- 2. International landscaping exercise for RI
- 3. Bilateral cooperation on RI with Africa
- 4. Training needs of SESAME, Jordan

INFRASUPP-02-2017 – Policy and INCO measures for RI

- 1. Development of a model describing the socio-economic leverage of RI
- 2. Cooperation between EU and strategic partners for the development of global RI
- 3. Support to RDA secretariat, participation of new communities and ESFRI RI and emergence of building blocks for interoperable data infrastructure (CNECT/RTD)

Every researchers to become digital

WP 16-17 is

- User centric
- Service oriented
- Fostering long-term sustainability
 - Service reliability
 - Innovation
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1. Integration and consolidation of e-infrastructure platforms supporting European policies and research and education communities
2. Prototyping innovative e-infrastructure platforms and services for research and education communities, industry and citizens at large
3. Support to policies and international cooperation

E-infra services to enable the open science vision

- Data and distributed computing e-infrastructure for Open science
- Research and Education Network
- High-performance computing

1. Integration and consolidation

Covers:

- Coordination of operations and funding at different level (regional/national/EU)
- Exploitation of synergies between operational e-infrastructures
- Continuous upgrade without service disruption

Implementation:

- E-infra services supported by TA&VA
- Only for platforms and services based on technologies that have achieved TRL8
- Documentation of services
- Services assessed by external board
- Written agreement between funded projects

Integration: Focus on (i)Networking & Service activities



2. Prototyping innovative e-Infra platforms and services

Covers:

Evolution through innovation to responds to long-term needs of researchers through:

- Platform-driven innovation
- User-driven innovation
- GEANT (2nd part of partnership projects)
- Computing infrastructure for the Human Brain Projects

Implementation:

- TRL 6 at the beginning and TRL 8 at the end

Innovation: (i) Networking, (ii) Service & (iii) Joint Research Activities (JRA)

Covers:

- European support to the Research Data Alliance, RDA
- Support to data dissemination and international cooperation in the context of the Square Kilometre Array project
- International Co-operation on e-infrastructure supporting major societal challenges
- Support to the e-IRGsecretariat
- Support to dissemination for the e-infrastructure programme
- Support to small-size foresight roadmaps for the e-infrastructure programme

- Proposals should consider all existing operational services and the greatest extent reuse or extend them
- All proposals are requested to suggest clear metrics (KPIs) for monitoring results and impact
- All services developed should be made discoverable on-line by including them in searchable catalogues or digital registries
- All software developed should be open source with appropriate licenses

- Synergies between INFRADEV4 and E-infra-12 Data and Distributed Computing e-infrstructure for Open Science
- Links between projects submitted to both calls should be established

- WP 16-17:
http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-infrastructures_en.pdf
- The Digital4Science platform: www.ec.europa.eu/d4science
- RICH 2020 website: <http://www.rich2020.eu>
- Your National Contact Point:
http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html