

## Proposal Preparation for

H2020 INFRAEOSC 05 -2018-2019: *Support to the EOSC Governance*

2018-05-03, DESY

<b>Types of action</b>	RIA Research and Innovation action
<b>DeadlineModel</b>	single-stage
<b>Opening date</b>	26 July 2018
<b>Deadline</b>	21 November 2018 17:00:00

### Section (b)

Coordination of EOSC-relevant national initiatives across Europe and support to prospective EOSC service providers - Research and Innovation Actions

#### Relevant information from the Call Text

- Support the coordination, convergence and federation of EOSC-relevant national and or thematic initiatives for open research data and services, as well as the development of common practical tools and mechanisms (including development of human skills and capital) which enable, promote and further the compliance of research practices with open data policies.
- Support activities of existing and future EOSC service providers to ensure their long-term sustainability, their role within the EOSC and the accessibility of their services through the EOSC hub, according to established rules and standards.
- **Only initiatives and services of**
  - **wide European interest and at**
  - **appropriate maturity level, and which**
  - **are not addressed by INFRAEOSC-04-2018****should be considered.**

#### General Remarks

- The proposal should focus on Photon and Neutron as thematic initiatives.
- Only soft link to Lasers and possibly other sciences, like microscopes, e.g.CSSB.
- The proposal should be under the umbrella of
  - the LEAPS national facilities plus
  - national neutron facilities.
- Targeting 5-6 M Euros and a duration of 3 years.
- The general idea is to coordinate, adapt and deploy existing services to **all** national photon and neutron facilities.
- Focusing on moving from local to federated EOSC services.

#### Collection of topics

- Install a network of data scientists at the national hubs
  - consulting users in data policies, the FAIR principles and the complete DLC,
  - working on strategic plans,
  - ensuring and promoting further development of EOSC data policy,
  - coordinating virtual help desks.
- Data Catalogue(s)

- Definition:
  - Data Repository: contains the actual data
  - Data Catalogue: contains
    - meta data about the data
    - technical metadata, e.g. could point to the actual data locations.
- Similar to the ‘*data lake*’ concept, facilitating cross facility data mining.
- Reminder: we might want to distinguish between the different steps of the DLC: like raw and derived etc.
- Key objectives:
  - providing a federated data repository,
  - adapting to scientific data catalogues (e.g. ICAT and SICAT).
- The F in FAIR: discovery of data
- Define a reference interface for existing services ICAT and SICAT.
- Enabling distributed computing on private and public clouds including HPC
- Analyzing possible business models available for science.
- Broking public and private resources.
- Coordinating/Deploying virtual start to end simulation spread out to all partners
- Coordination the use of AI methods throughout the entire data lifecycle, e.g. simulation and analysis.
- Interfacing European-wide (EOSC) solutions in AAI (following AARC policies and suggestions) at the partner sites.
- Implementing sustainability action and policies
  - Requires the commitment from national funding agencies, initiatives and e.g. LEAPS.
  - Working with the EOSC governance structure and LEAPS governance,
  - Liaison with national agencies and initiatives.
- Coordinating national user views.
  - Close interaction with individual science specific user communities.
  - Possibly: user surveys, questionnaire, etc.