

# Connecting ESFRI infrastructures through Cluster projects

This topic will ensure the connection of the research infrastructures identified in the ESFRI Roadmap to the EOSC. Support to this activity will be provided through cluster projects gathering ESFRI projects and landmarks in each of the following large thematic domains: Biomedical Science, Environment and Earth Sciences, Physics and Analytical Facilities, Social Science and Humanities, Astronomy, Energy. While the ESFRI infrastructures represent the core component of any cluster, other relevant world class research infrastructures with a European dimension, established as ERICs or International Organisations, can also be involved in a cluster. Each infrastructure should participate to only one cluster.

Proposals will address the stewardship of data handled by the involved research infrastructures according to the FAIR[[ Findable, Accessible, Interoperable and Re-usable]] principles and in line with the objectives of Open Science. This will include the definition of domain specific data policies (e.g.

Research Infrastructures such as the ones on the ESFRI roadmap and others, are characterised by the very significant data volumes they generate and handle. These data are of interest to thousands of researchers across scientific disciplines and to other potential users via Open Access policies. Effective data preservation and open access for immediate and future sharing and re-use are a fundamental component of today's research infrastructures and Horizon 2020 actions but researchers are still confronted with a fragmented research data landscape. The European Open Science Cloud (EOSC) will help addressing the current situation. Major stakeholders, such as the pan-European research infrastructures, must actively contribute to the setting up of its services.

- In line with the objectives of Open Science, improve access to data and tools enabling new and interdisciplinary research leading to new insights and innovation for the society at large
- Facilitate access of researchers across all scientific disciplines to the broadest possible set of data and to other resources needed for data driven science to flourish.

- Contribute to the creation of a cross-border and multi-disciplinary open innovation environment for research data, knowledge and services with engaged stakeholders and organisations.
- Rise the efficiency and productivity of researchers thanks to an easier and seamless access to reliable and open data services and infrastructures for discovering, accessing, and reusing data;
- Foster the establishment of global standards, ontologies and interoperability for scientific data.
- Develop synergies and complementarity between involved research infrastructures, thus contributing to th

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