How to engage regional and European data infrastructure communities with relevant RDA and EOSC communities

What:

This initiative supports and creates synergies around a selection of five activities that will serve as case studies and demonstrator initiatives on how to engage regional and European data infrastructure communities with relevant RDA and EOSC communities to converge on interoperability solutions. The activities originates from engagements across the Research Data Alliance (RDA), the EOSC Association, the European life science data infrastructure ELIXIR, the Swedish life science infrastructure Science for Life Laboratory (SciLifeLab) and the National Bioinformatics Infrastructure Sweden (NBIS). Mapping exercises between the outcomes of the activities and the EOSC IF will be made at least three times for each activity—first as a preparation and support for

observations, second after the bulk of the results have been produced as support for reflections, and third as part of consolidating the results from all of the activities as support for coherent reporting.

- **Activity 1**: A landscape survey of infrastructure support for adopting the FAIR data principles in life science research practice.
- **Activity 2**: A focus group study on models for leveraging RDA and EOSC activities / outputs in regional initiatives and cross-border life science data infrastructures.
- **Activity 3**: A collection of captured and systematically organised semantic interoperability use cases to support implementation and adoption across EOSC.
- **Activity 4**: A series of training interventions to build capacity for metadata management and machine-actionable vocabularies across European data infrastructures.
- **Activity 5**: An analysis of alignment activities across regional and European data infrastructures to support interoperability of data and tools.

Expected outcomes

- A draft collection of semantic artefacts to support future community guidelines for biomolecular research on viral pathogens and rare diseases
- Recorded case studies on adopting and creating semantic artefacts reflecting use cases for data platform services, research projects and biomolecular data producing services
- A curated and annotated interoperability case study catalogue that support comparisons across projects, communities and technical solutions (not technology dependent)

Community awareness and outreach/training materials on how to contribute to the EOSC IF and how to discover, create and adopt semantic artefacts and other types of community conventions.

Who:

Wolmar Nyberg Åkerström is an IT professional at Uppsala University and the National Bioinformatics Infrastructure Sweden (NBIS) / ELIXIR Sweden.

Scientific Domain:

Interoperability; Reproducibility; Computational workflows; Knowledge organisation; Information retrieval

Your Domain specific Engagement:

Wolmar works at the intersection of several distributed infrastructures focusing on research data for national, Nordic and European life science research. He is involved in EOSC as chair for the EOSC Association Semantic Interoperability Task Force, as contributor to implementing ELIXIR's strategy for engagement with EOSC, and as an active stakeholder—providing input to EOSC initiatives on local, national and European level. He is also engaged with the RDA as a new member of its Technical Advisory Board (TAB), co-chair for the Life Science Data Infrastructures IG, and a frequent contributor to IG/WG sessions at the plenaries.

Wolmar is employed as a data steward at National Bioinformatics Infrastructure Sweden (NBIS), which is the

Swedish node of the European data infrastructure ELIXIR and the Bioinformatics platform of the national life science infrastructure Science for Life Laboratory (SciLifeLab). The services are aimed at a wide spectrum of molecular biosciences—ranging from platforms for advanced and large-scale data acquisition to study design and bioinformatics support to HPC and data storage, and to data sharing solutions for large and sensitive data. Some examples of national services with links to European data infrastructures that he is involved in include the Swedish node of the Federated European Genome-phenome Archive (EGA) for sensitive human data, the Swedish COVID-19 Data portal and Pandemic Lab Preparedness activities for data mobilisation, and the SciLifeLab Data Platform for support emerging data driven life science research.

NBIS is well represented in EOSC Association's Task Forces and is actively supporting the execution of ELIXIR's EOSC Strategy and concerted efforts in the Nordic-Baltic Region through EOSC Nordic, the Nordic e-Infrastructure Collaboration (NeIC), and national coordination activities. Wolmar is an active member of ELIXIR's RDA Activities and EOSC Focus Groups, he has coordinated activities to FAIRify data and tools for NeIC's Nordic Pandemic Research Infrastructure (PaRI) Project, and he regularly present and organise workshops on Open Science, FAIR and reproducible research aimed towards the life science and research infrastructure community.

Wolmar is part of a team at NBIS that focuses on data management support, training and collaborations to ensure that Swedish research outputs are available to the global research community, and to society at large, according to the principles of Open Science, Reproducible Research, and FAIR. The team offers hands-on support, resources, tools and recommendations to research projects. The team also provides training and guidelines on how to put Open Science, FAIR and reproducible research into practice. And they collaborate to build capacity and resources across Sweden, the Nordic-Baltic region and Europe.

Your Promotion and Networking:

Promotion of domain specific Open Science practices/EOSC/RDA at meetings and conferences, publications and presentations.

The project's activities and outputs are featured on the RDA website.

Your Connection to RDA WG/IG or CoP:

Wolmar is regularly contributing to activities in the following RDA groups

- Life Science Data Infrastructures IG (Co-chair)
- Technical Advisory Group (newly appointed member)
- RDA in Sweden (member)

At the RDA 19th plenary he reported from sessions organised by the following groups

- Global Open Research Commons (GORC) IG (member)
- Professionalising Data Stewardship IG (member)
- Vocabulary Services IG (member)
- CURE-FAIR WG (member)

See also:

- ELIXIR Report of the 19th Plenary of the RDA, June 2022, https://doi.org/10.5281/zenodo.7053713

Wolmar's member profile at the RDA website, https://www.rd-alliance.org/user/20093

Your Outputs:

Zenodo, Publications, ORCID, Youtube...

Country:

Sweden