

Winter School 2024

29 January - 1 February 2024 / Thessaloniki, Greece



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Task Forces and projects synergy work around opportunity areas

01.02.2024



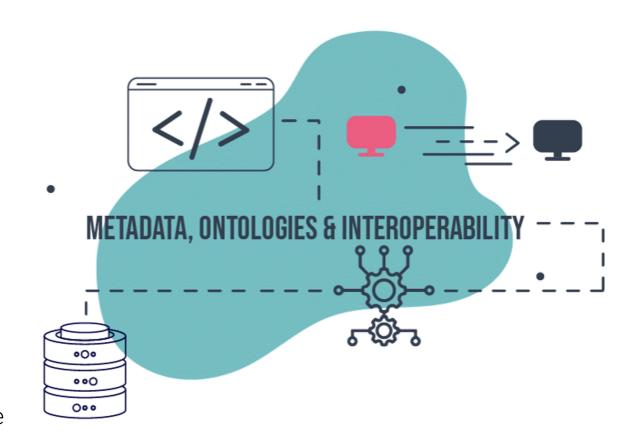


Opportunity Area 2:

Metadata, Ontologies and Interoperability

Wolmar Nyberg Åkerström

NBIS / ELIXIR Sweden (Uppsala University, SciLifeLab) On behalf of EOSC Semantic Interoperability Task Force







OA 2 Participants (17+1)

- Wolmar Nyberg Åkerström, (EOSC Semantic Interoperability Task Force, EJP-RD), European Joint Programme on Rare Diseases NBIS / ELIXIR Sweden (Uppsala University, SciLifeLab)
- George Konstantinidis, (RAISE), University of Southampton
- **Stian Soiland-Reyes,** (EuroScienceGateway, BY-COVID, EOSC-Life, FAIR-IMPACT, EOSC4Cancer, EVERSE, EOSC-ENTRUST), University of Manchester
- Simon Hodson, (WorldFAIR, FAIR Impact, RDA Tiger, Semantic Interoperability TF), CODATA
- Arofan Gregory, (WorldFAIR & FAIR-IMPACT), Observatoire de Paris-PSL
- Alexandros Papadopoulos, (FAIR-IMPACT), Radboudumc
- Panagiotta Koltsida, (STR-ESFRI), ATHENA RESEARCH CENTER
- Baptiste Cecconi, (OSTrails & FAIR-IMPACT), Observatoire de Paris-PSL
- Marc Portier, (Blue-Cloud 2026, FAIR-EASE), Vlaams Instituut voor de Zee
- Peter Thijsse, (Blue-Cloud 2026, FAIR-EASE), MARIS
- Alexandra Kokkinaki, (Blue-Cloud 2026, FAIR-EASE), National Oceanography Centre
- Electra Makridou, (RAISE), University of Thesaloniki
- Joonas Kesäniemi, (FAIRCORE4EOSC), CSC
- Esteban Gonzalez, (FAIR-IMPACT), Universidad Politécnica de Madrid
- Clement Jonquet, (FAIR-IMPACT). INRAE
- Roksana Wilk, (Rules of Participation Compliance Monitoring, FC4E, EOSC Future), ACC Cyfronet AGH
- Teodor Ivanoaica, EOSC Focus, EOSC Association
- +1 colleague from Open Knowledge Foundation only attending day 1



COSC Focus

OA 2 Participants' EOSC project affiliations

Blue-Cloud 2026 FAIR-EASE

BY-COVID FAIR-IMPACT

EOSC Focus FAIRCORE4EOSC

EOSC Future OSTrails

EOSC-ENTRUST RAISE

EOSC-Life RDA Tiger

EOSC4Cancer STR-ESFRI

EuroScienceGateway WorldFAIR

EVERSE





OA 2 Objectives and Approach

Pitch your topic

Topic 1: Mappings: Joonas, Alexandra

Topic 2: Mappings: Clement, Roksana

Topic 3: **Vocabularies -** Roksana, Joonas

Topic 4: Vocabularies - Roksana, Clement

Topic 5: Variable Measured Alexandra, Stian, Roksana, Baptiste, Wolmar, Joonas -

Topic 6: Schema.org issue - Alexandra,

Topic 7: Data integration - Stian, Wolmar,

Topic 8: **Provenance -** Stian, Arofan, Peter

Topic 9: Profiles for using vocabularies - Stian, Mark, Alexandra (RoCrate)

Topic 10: Testing profile for assessing the interoperability of EOSC Services (based on TF

recommendation) - Esteban, Peter

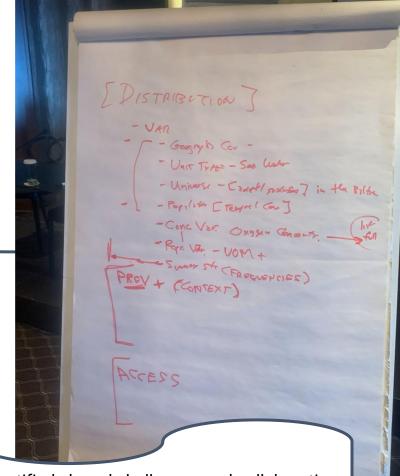
Topic 11: Data Privacy - George, Arofan

Topic 12: Hosting and mapping vocabularies in IVOA Portal (an OntoPortal Instance) -

Clement, Baptiste, Stian

Topic 13: Earth Portal - Clement, Alexandra

Topic 14: Worldfair CDIF - Arofan



Identified shared challenges and collaboration opportunities between projects and Task Forces on developments surrounding OA2 FAIR Assessment, for both the present day as well as the future.





OA 2 Session - Tuesday Afternoon

Opportunity Area Matrix

SRIA-challenges covered/not-covered by EOSC-related project activities and examples of solutions.

Task Force Results

Reference architecture, interoperability profiles, maturity for semantic artefact catalogues, mappings and crosswalks, shared/common use cases.

SRIA 2.0 and future Task Forces

Task force deliverables and associated recommendations can serve as a conversation starters.

→ A balance act between optimism and despair

The solutions space for EOSC is heterogeneous and can be perceived as a mess to someone looking to align/contribute.

→ Working together provides the scaffolds

An overview of what we have and produce a consolidation layer to see how to align.





OA 2 Session – Wednesday Morning

Topic proposals

14 topics covering mappings, vocabularies, representation of variables, metadata, data integration, provenance, services.

Cross-Domain Interoperability

Cross-domain Interoperability Framework (CDIF), focus on tasks/use cases such as data integration.

Domain and upper ontologies

Linking general and more specific conceptual models and common data elements, examples from earth observations and rare diseases.

→ From examples to generalisable solutions

Opportunity to showcase and explore synergies seems to be a promising approach to converge on a shared understanding.





OA 2 Session – Wednesday Afternoon

Web of FAIR services (and data)

Scenarios around service discovery and composition and examples of how to describe them, FAIR signposting, DCAT-AP.

Tools for mappings & crosswalks

User interfaces and "smart" solutions to generate and execute data transformation from one format to another.

Enabling future collaboration

Fora for "groups" such as EOSC-A, RDA, incentives, resources and coordination.

→ Want more hands-on collaborative work

Future EOSC-A Task forces could support coordination, discussions across projects, creating opportunities for hands-on collaborative work etc.

→ Look beyond EOSC

Help projects engage with research communities and actively liaise and align with global initiatives.





OA 2 Next Steps

What could an EOSC Interoperability Board do for "us"?

< 6 months – collaborations between EOSC projects and TFs.

How to align Task Force learnings and EOSC projects?

6–12 months – consolidate problems and gaps from TF and project outputs for SRIA 2.0 and provide input to calls 2026/2027.

What is the EOSC approach to metadata and ontologies?

18+ months – increasing potentials for HE EOSC-related projects sustainable results.





OA 2 Commitment

More hands-on collaborative work

- Form an informal group that is open for those who can contribute to join (mailing list?).
- Co-located event(s) to create opportunities for handson collaborations in connection with EOSC Symposium and other events.



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