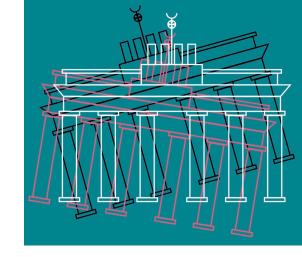
'How should the EOSC Interoperability Framework evolve; what is missing?'

Simon Hodson, Executive Director, CODATA

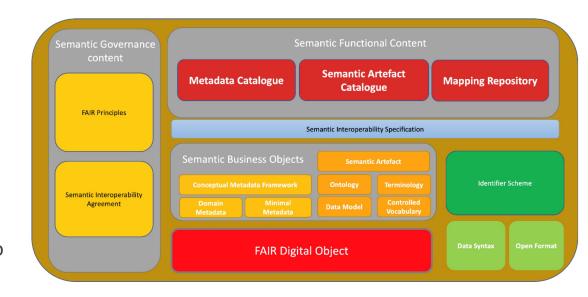
Coordinator, WorldFAIR





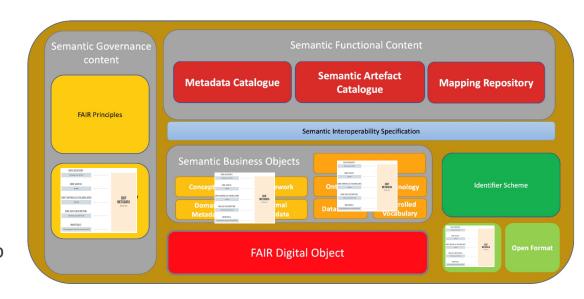
What is the EOSC IF?

- EOSC IF is a high-level framework to break up the problem space.
- We need more detail for technical, semantic, legal and organisational interoperability.
- The Cross-Domain Interoperability
 Framework offers additional detail and recommendations in relation to technical and semantic interoperability.



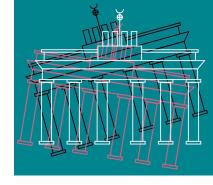
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Why do we need interoperability?

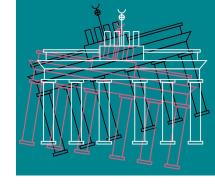
- To enable science, to support interdisciplinary research, we need data aggregation and data integration services as part of EOSC and globally.
- To **reduce the opportunity cost** of not having FAIR data (the excessive cost and inefficiency of data wrangling), data and metadata need to be FAIR and machine-actionable.
- We need a shift from a bibliographic model to a data engineering model for data stewardship.
- Need to enable research data infrastructures to provide data aggregation and data integration services.
 - ➤ WorldFAIR Policy Brief https://doi.org/10.5281/zenodo.11242702





Interoperability Framework

- Needs to be based on standards, supported by implementation guidelines.
 - Identify widely used standards for the purposes required.
 - Identify formats and technologies that will enable implementation.
- Needs to address functional requirements based on common use cases, and derive those use cases from close engagement with research disciplines and cross-domain research areas.



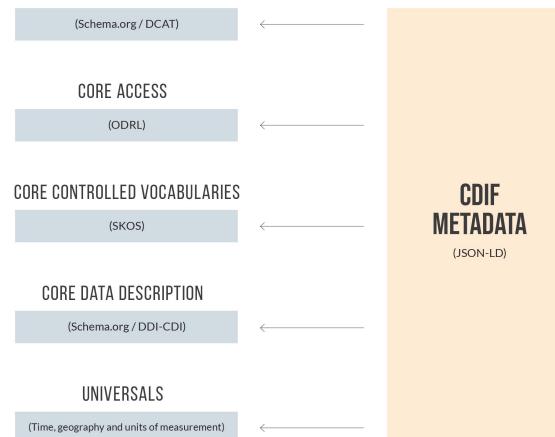


CDIF, the Cross-Domain Interoperability Framework

- The Cross Domain Interoperability Framework (CDIF) is based on a set of concrete, implementation-level principles intended to enhance any community's data management approaches and reduce the barriers to reusing data across domains.
- CDIF provides recommended standards and approaches to building different levels of interoperability needed for cross-domain data reuse.
- Adds specific detail to parts of the EOSC IF.
- Identifies a set of functional requirements and takes a modular approach.
- Makes standards-based recommendations informed by good practice in a range of research areas internationally.
- Provides a practical implementation guide.
 - CDIF https://doi.org/10.5281/zenodo.11236871
 - CDIF Book https://cross-domain-interoperability-framework.github.io/cdifbook/introduction.html
 - > Apply to join the Working Group or Advisory Group: : https://bit.ly/CDIF-AG-WG-Apply

CDIF: current profiles

CORE DISCOVERY



CDIF: current work

