

The EOSC Interoperability Framework

Michelle Williams (GÈANT)

Licia Florio (GÈANT)

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with



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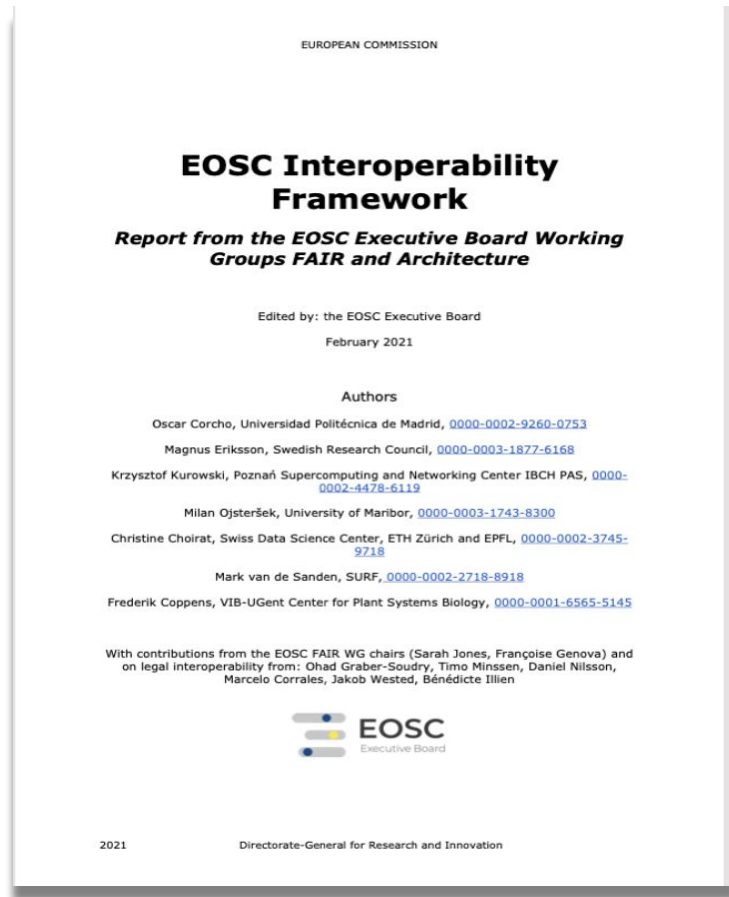




Topics for today

- Background
- What is the EOSC Interoperability Framework?
 - Why is it important?
 - How is it relevant for providers?
 - How will it manifest?
- Where are we now?

A bit of history



Feb 2021 the EOSC Executive Board Working Groups FAIR and Architecture publishes the [EOSC Interoperability Framework Report](#)

The SRIA also has sections on interoperability.

"The EOSC IF is meant to be a generic framework that can be used by all the entities participating in the development and deployment of EOSC, providing a common understanding of the requirements, challenges and recommendations that they should take into account, as well as a general set of principles on how these recommendations may be addressed".



EOSC Interoperability Framework

Why

- EOSC is a federated infrastructure of data and services.
- Interoperability is essential to deliver services to users.
- Adoption of standards is not sufficient...
- we need more to enable resource interoperability.

What

- Set of **guidelines*** that:
 - Facilitate interoperation with EOSC-Core
 - Promote standards and community best practices within the EOSC
- Governance to manage EOSC promoted guidelines
- A registry to list the guidelines and help tag resources that support them

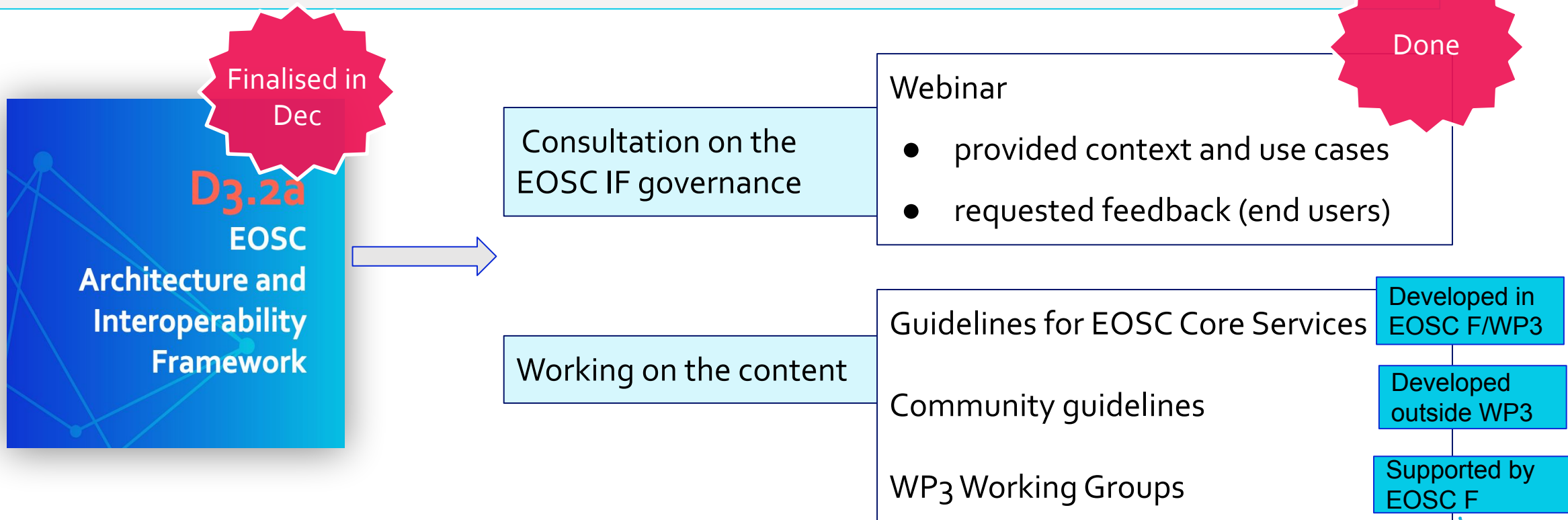
Who

For Providers operating resources, facilities, catalogues, etc and for users with an interoperability requirement

EOSC Future work on the EOSC IF

Watch the EIF Webinar:
<https://youtu.be/gopN4TrJKpA>

The Architecture and Interoperability WP (WP3) works to define a governance model to manage and populate the EOSC Interoperability Framework.



[PDF Version](#)



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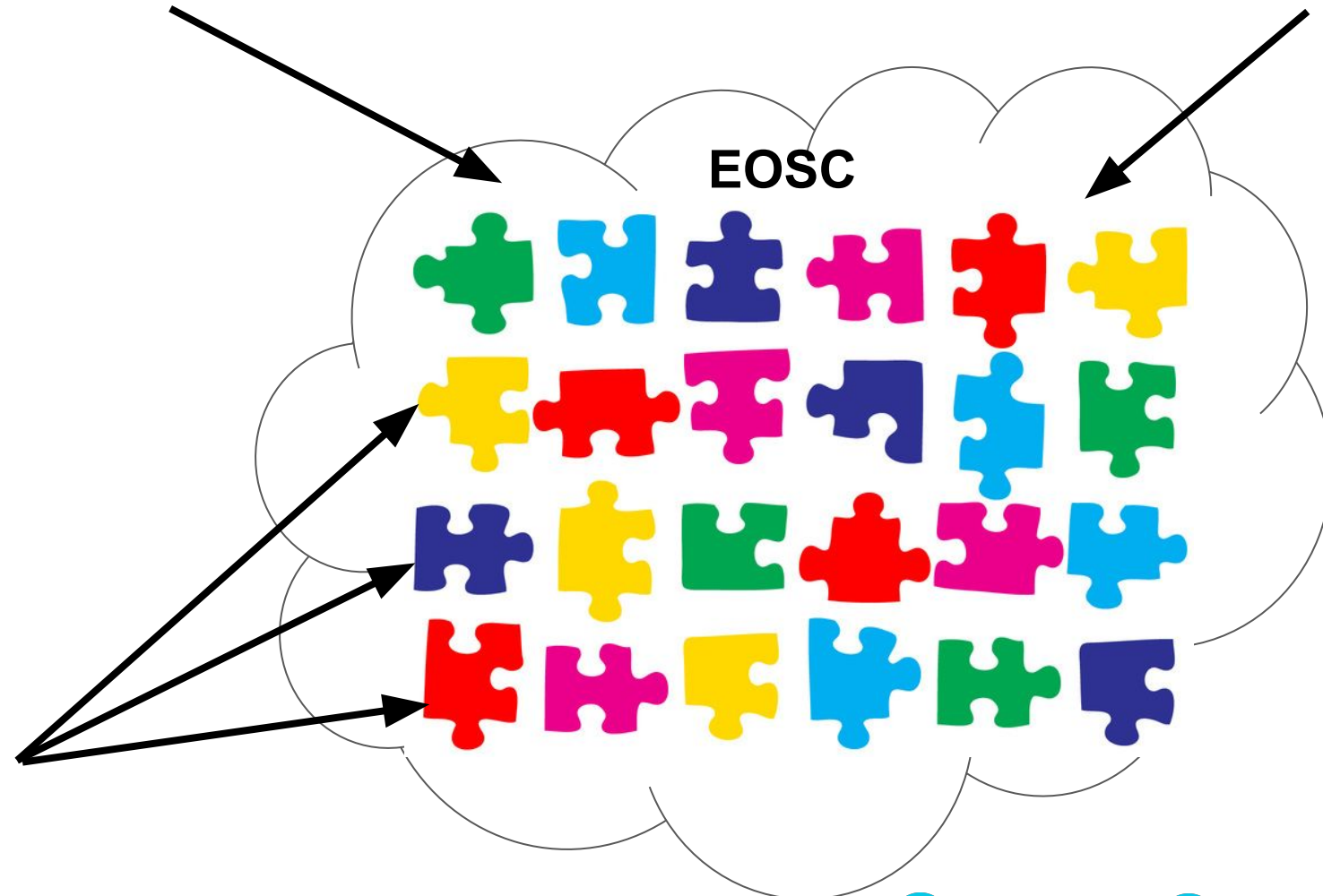
Fostering Interoperability via the EOSC IF

EOSC Resources
(services, datasets, sw, etc.)

EOSC Stakeholders
(providers, communities, researchers, etc.)

**A multitude of
different interfaces**

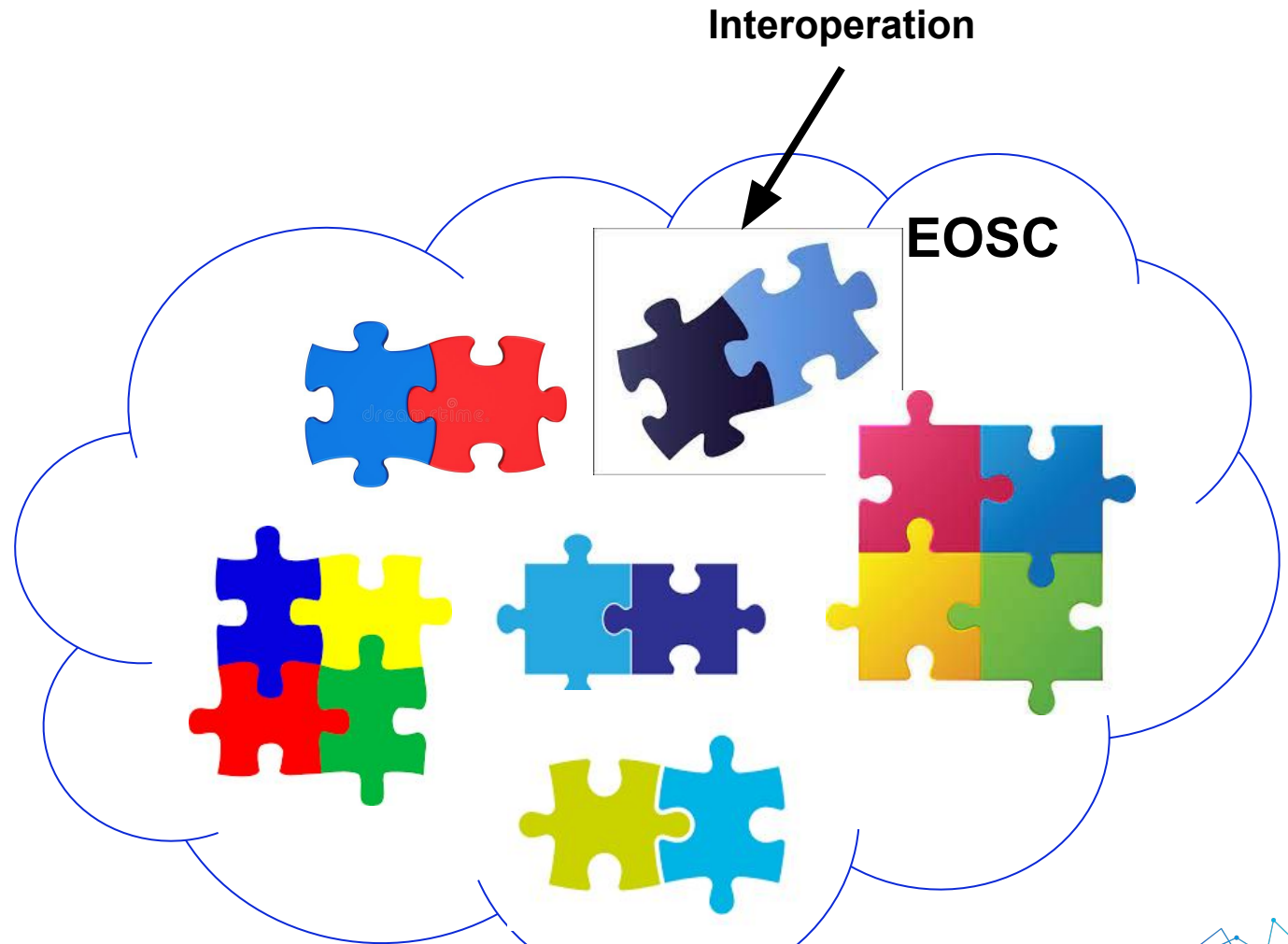
**No description of
supported
interfaces for
EOSC Resource**



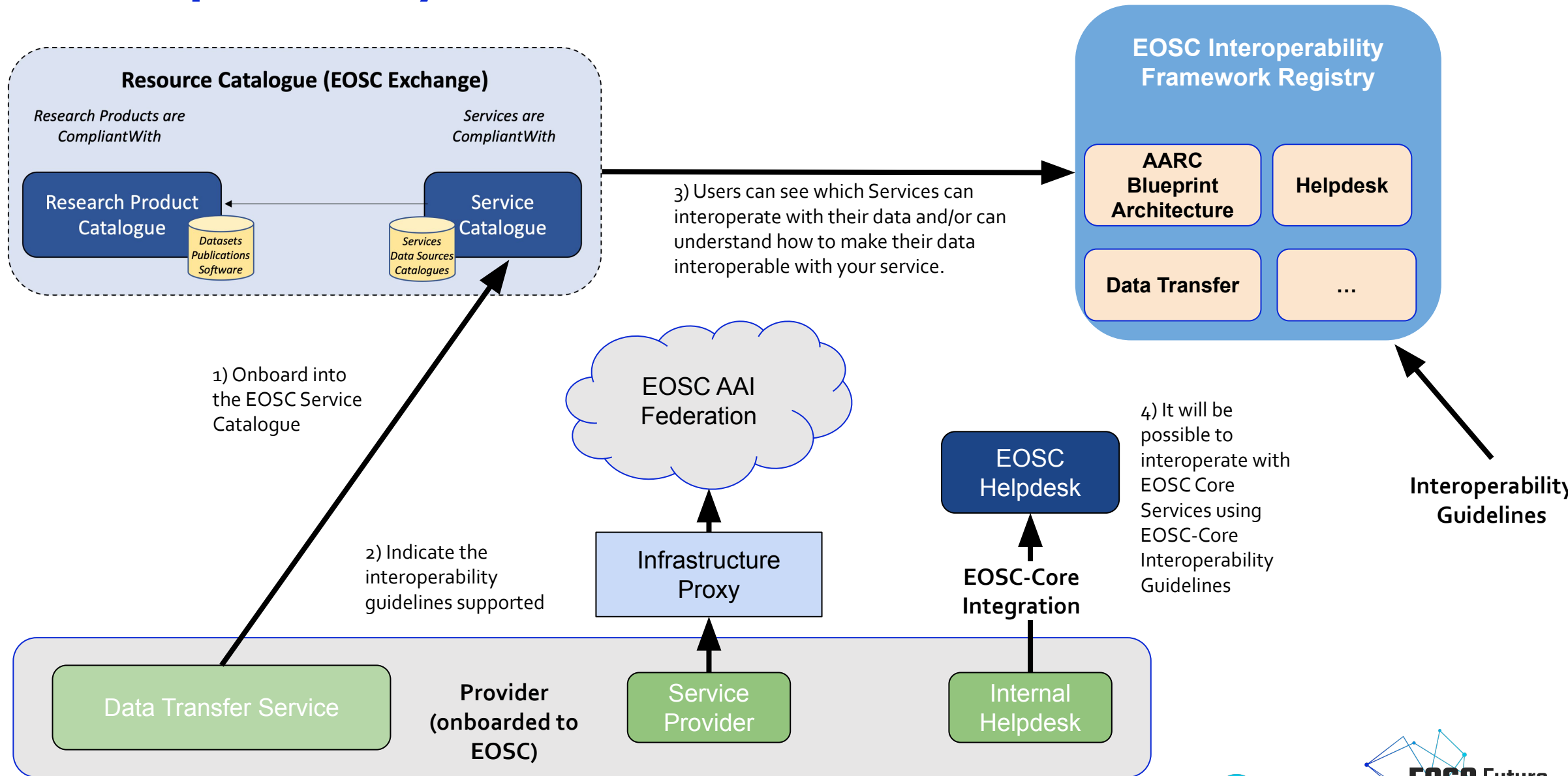
**Interfaces of the
EOSC Resources**

Fostering Interoperability with the EOSC IF

- **Curating and creating guidelines that**
 - facilitate interoperation
 - work towards composability
 - promote adoption of already existing standards and community best practices
- Providers will be able to indicate **supported interfaces in the EOSC Resource Catalogue**
- Existing guidelines that could apply across disciplines can become EOSC Exchange Interoperability Guidelines



Interoperability for services





EOSC Interoperability Registry

Initial scope:

- Output of EOSC Hub, EOSC Enhance, AARC and OpenAIRE projects, + + +
- the 'Main Standards and Interfaces as a Starting Point for EOSC Future'*

Objectives:

- become a library of accepted artefacts, and
- a supporting tool for the governance
- to help track each Guideline through the proposal and consultation process.
- become a de facto EOSC Knowledge Base.
- Facilitate signalling of supported guidelines

The registry will...

- be publicly available,
- link resources, services and research products to supported guidelines
 - help resources/service owners integrate with the resource catalogue
 - help users discover resources on the basis of the guidelines they support
- help identify gaps in interoperability.

*<https://wiki.eoscfuture.eu/display/PUBLIC/Main+Standards+and+Interfaces+as+a+Starting+Point+for+EOSC+Future>



Governing bodies

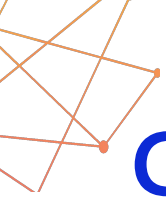
"An overarching, independent group that will assess whether requests for inclusion into the EOSC IF are compliant with a minimum set of requirements"

Body	Responsibility	Interim body for duration of EOSC Future project
EOSC Interoperability Advisory Board (EIAB)	Responsible for <ul style="list-style-type: none">overseeing the EOSC IF;endorsing guidelines, based on the recommendations of the EIAC.	EOSC Future Technical Coordination Board
EOSC Interoperability Area Chairs (EIAC)	Responsible for: <ul style="list-style-type: none">performing the initial assessment of the proposed guidelinesmaking recommendations for inclusion to the EIAB.	EOSC Future WP3 task leads supported by editorial board (calling in community experts to help with the review process as needed).



Current activities

- Build the EOSC-IF Registry into beta release:
 - based on an agreed data model
 - Using existing EOSC-Core infrastructure (Resource Catalogue and Provider Dashboard)
- Populate the Registry:
 - Governance is in place and ready
 - EOSC-Core interoperability guidelines are being finalised and will be formally published/announced
- Launch communication tools that will provide regular updates on new inclusions



Current activities

Populate EOSC IF

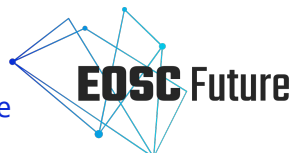
- EOSC-Core interoperability guidelines
- Engage clusters to promote existing interoperability guidelines

Create the EOSC IF registry

- Create an EOSC IF registry
- Populate the EOSC IF registry with the guidelines
- Show how to benefit from the registry

Launch communication tools that will provide regular updates on new inclusions

Showcase use-cases



In summary

The EOSC IF must be built with the community , promoted and maintained with structure, fairness and transparency.

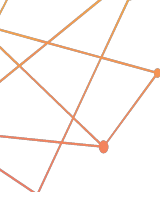
It does not seek to replace existing community guidelines with its own versions

When community data sources are onboarded into EOSC, the EOSC IF will allow to also explicitly onboard the related, implicit, guidelines, etc. as EOSC IF Guidelines.

It will not reinvent existing 'ISO-style' certification models

It will support the identification of gaps in interoperability solutions,

It intends to confirm the readiness of each proposed interoperability artifact



Questions?

licia.florio@geant.org
michelle.williams@geant.org