

EOSC Strategic Research & Innovation Agenda

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ESFRI workshop

6-7th October 2020



**EUROPEAN OPEN
SCIENCE CLOUD**

Slides by EOSC Executive Board



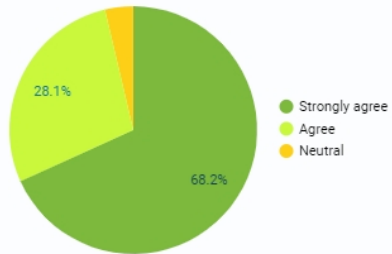
SRIA open consultation process

- ★ Held from 20 July to 31 August 2020
- ★ Over 217 responses
- ★ Based on consultation document
 - 5 guiding principles for EOSC
 - 3 Strategic Objectives
 - 14 Action Areas
 - 20 priorities
 - 10 high level KPIs

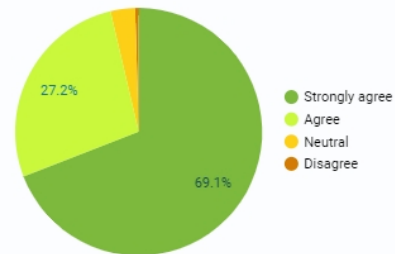


Guiding principles

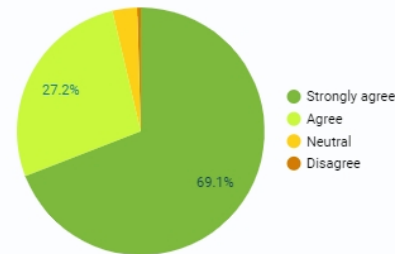
Multi-stakeholder approach



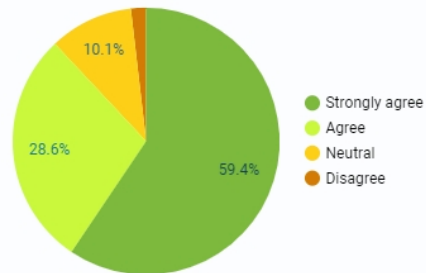
As open as possible, as closed as necessary



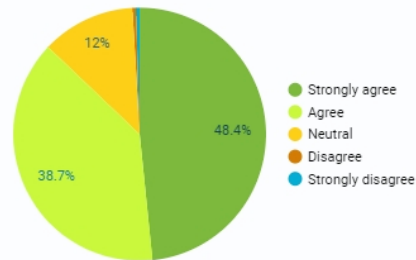
Towards a Web of FAIR Data and Related Services for Science



Federating existing research infrastructures



Machines and People



- ★ Positive response to all
- ★ Machines & people has lowest approval rating
- ★ Comments to:
 - Cover more than data
 - Respect diversity of disciplines
 - Address long-tail of science

14 Action Areas

Implementation challenges

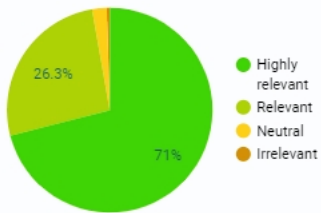
- Identifiers
- Metadata and Ontologies
- FAIR Metrics and Certification
- Authentication and Authorisation Infrastructure
- User Environments
- Resource Provider Environments
- EOSC Interoperability Framework

Boundary conditions

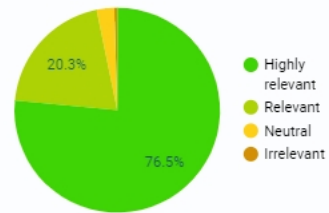
- Rules of Participation
- Landscape Monitoring
- Business Models
- Skills and Training
- Rewards and Recognition
- Communication
- Widening to Public and Private Sectors

Views on implementation challenges

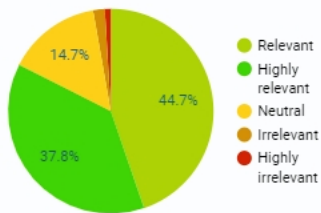
AA1 - Identifiers



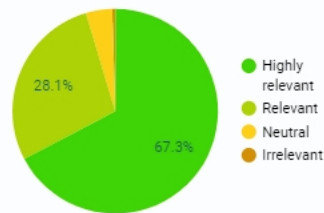
AA2 - Metadata and Ontologies



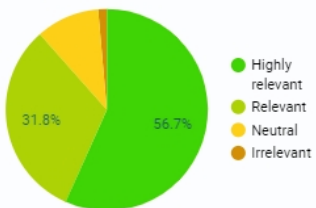
AA3 - FAIR Metrics and Certification



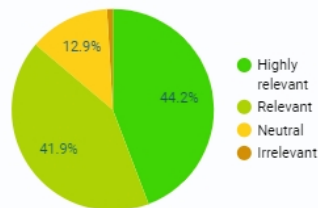
AA4 - AAI



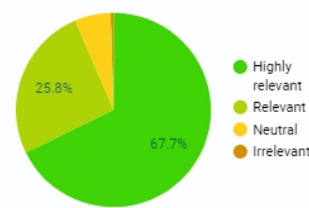
AA5 - User Environments



AA6 - Resource Provider Environments



AA7 - EOSC Interoperability Framework



- ★ Strong approval on all
- ★ Identifiers, metadata and Interoperability Framework most popular
- ★ Metrics & certification and Resource provider environments least popular

Views on boundary conditions



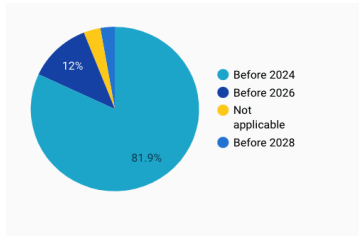
- ★ More mixed approval ratings
- ★ Skills & training, RoP, business models, rewards & comms most popular
- ★ Widening to public & private sectors and landscape monitoring less popular

Implementation priorities

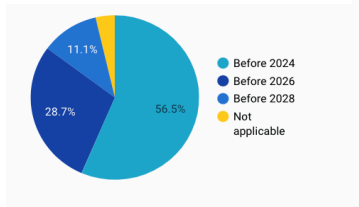
- ★ Implement the **PID** Policy and develop additional **infrastructure** required
- ★ Offer a **common dataset search** to enhance discovery via EOSC
- ★ Support communities to develop **metadata standards & controlled vocabularies**
- ★ **Implement metrics** to assess FAIR digital objects and iterate based on testing.
- ★ Support services to demonstrate they enable **FAIR** via **certification** or the definition of assessment frameworks.
- ★ Implement a common framework for managing **user identity and access** in a highly distributed ecosystem.
- ★ Ensure a **feedback** mechanism to engage with **users** and develop EOSC to meet their needs.
- ★ Implement procedures to ensure services can be **federated into EOSC** easily and efficiently.
- ★ Promote the use of **open specifications to ensure technical interoperability** when establishing EOSC services.

Priority weighting

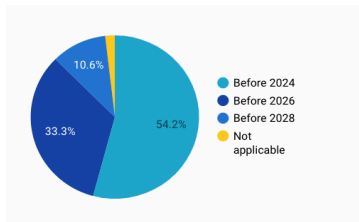
PIDs



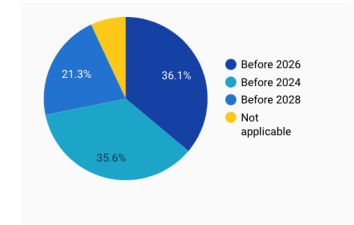
Dataset search



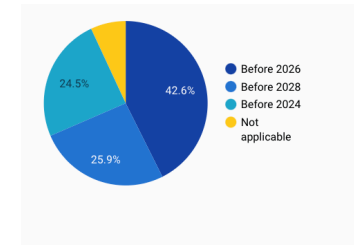
Metadata standards



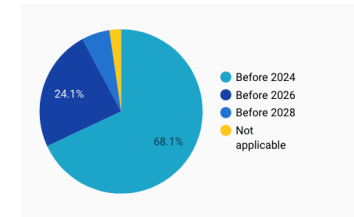
Metrics



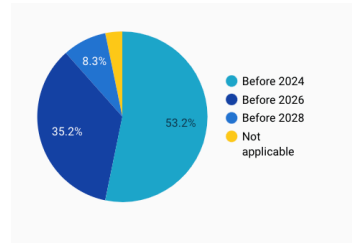
Certification



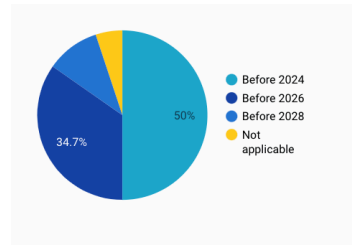
AAI



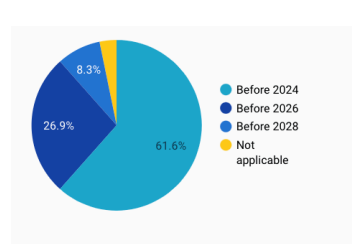
User needs



Service federation



Open specs for interoper



★ Most important to prioritise now are PIDs, open specs, dataset search and metadata standards

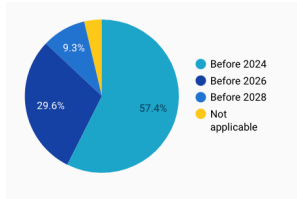
★ Metrics and certification lower priority

Boundary condition priorities

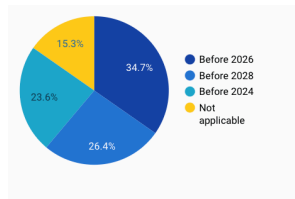
- ★ Agree a common set of rules to ensure data and services within EOSC **support interoperability**.
- ★ Define the **cooperation framework enabling RDIs** to work together more fully and effectively.
- ★ Recognise standards to provide increasing levels of **assurance of quality and trust in the services**
- ★ Ensure **continuous monitoring** of the existing **readiness** of countries to contribute to EOSC.
- ★ Suggest **priorities for action based on the monitoring**.
- ★ Perform **cost assessments**.
- ★ Ensure **sustainable financing** for EOSC.
- ★ Develop Open Science **training** and **professionalise** associated **roles**.
- ★ Create a Europe-wide framework for **rewards and recognition** that **includes Open Science**.
- ★ **Inform stakeholders** about the developments of EOSC.
- ★ **Widen EOSC stakeholder engagement** in a strategic and timely manner.

Priority weighting

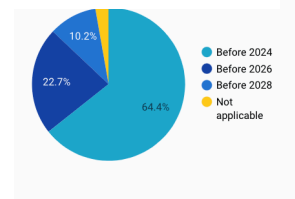
RoP & interop



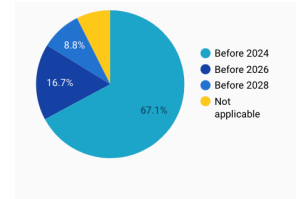
Monitoring



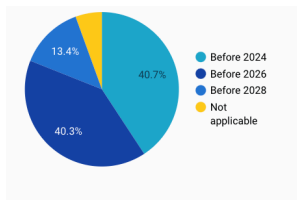
Sustainability



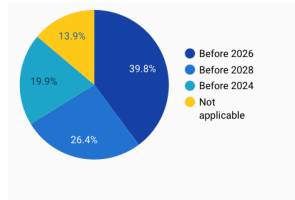
Comms



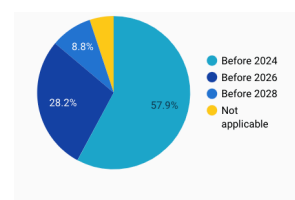
RDI federation



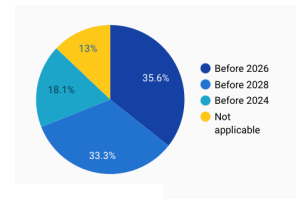
Monitor → priorities



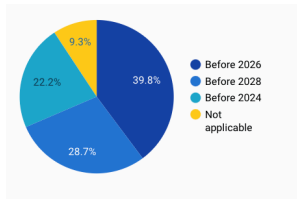
Training



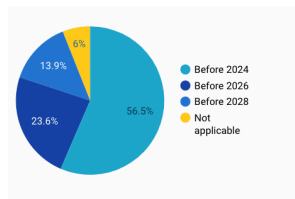
Widen EOSC



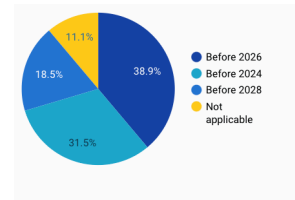
Quality & trust



Cost assessment



Rewards & recognition



★ Most important are comms, RoP, assessing costs, sustainability & training

★ Monitoring, quality & trust and widening EOSC are lower priority / for later

Missing elements

- ★ Data vs Digital objects (data, publications, software, etc.)
- ★ Increased visibility of e-infrastructures role
- ★ All scientific communities (long tail of science, small or emerging communities)
- ★ FAIR and Open
- ★ Sustainability (business models, cost benefit analysis)
- ★ Potential new action areas (trust and security, FAIR data production, Software licencing, etc.)
- ★ Activities to be performed at national or institutional levels (“two-tier” approach)

Next steps

- ★ Overall trends and individual responses are currently being analysed and processed by the EOSC Executive Board (EB).
- ★ The results of the consultation will be:
 - ✓ Presented by the EB to the EOSC Governance Board on 1 October
 - ✓ Incorporated by the EB in the next week in version 0.8 of the SRIA
 - ✓ Presented at the EOSC Symposium on 19-20 October
 - ✓ Update of Destination #2 topics by the EC in the light of the SRIA & MAR

WORK in
PROGRESS!



Any questions?



Thanks!