La agenda estratégica de EOSC (Destino 2)

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Fundación Española para la Ciencia y la Tecnología (FECYT)

Jornada informativa sobre Infraestructuras de Investigación en Horizonte Europa

19 diciembre 2022

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA E INNOVACIÓN

FECYT INNOVACIÓN

LA FUNDACIÓN

PERSONAS

122

87 Mujeres

35 Hombres

PRESUPUESTO 2021

27,5 M€

MISIÓN

Catalizamos la relación entre la ciencia y la sociedad, impulsando el crecimiento de la cultura científica española y fomentando la transferencia de conocimiento a través de la divulgación, la educación, la formación, la información y el asesoramiento.

Colaboramos con otros agentes y actores del Sistema de Ciencia, Tecnología e Innovación en la internacionalización de la ciencia española y la generación y análisis de datos, y damos soporte en la gestión de la información científica y de la ciencia en abierto.

4 OBJETIVOS ESTRATÉGICOS

OE2. Información científica y ciencia abierta

OE3. Ciencia internacional

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¿Qué es EOSC?

What

> **EOSC is a web of FAIR data and related services for research**
> Research data that is easy to find, access, interoperate and reuse (FAIR)
> Trusted and sustainable research outputs are available within and across scientific disciplines

Why

> **Unlock the full potential of research data to accelerate discoveries and innovation**

How

Access and interoperability of research data and results

- Define ownership, authorship and responsibility of data and research outputs
- Ensure long-term preservation of data throughout its lifecycle
- Enable the creation of standards for all research domains
- Make data machine-actionable
- Enable new scientific discovery methods and science disciplines
- Train researchers on adopting FAIR principles as an integral part in their activity

A sustainable coordinated infrastructure

- Establish and maintain a coordinated federated reference architecture
- Implement an operational infrastructure framework that is long term sustainable
- Ensure high quality of data and services
- Ensure secure access to data and services
- Define clear standards for API and interoperability of data and services
- Apply user friendly practices
- Inspire EOSC ambassadors to assist in on-boarding of researchers

Inspired people and robust governance

- Communicate an inspiring EOSC vision and strategy
- Implement an unambiguous and clearly mandated governance structure
- Establish a framework to engage human capital in institutions, countries and scientific communities
- Enable disciplinary and cross-disciplinary transnational research to find new insights from existing and new research data and outputs

15 | 12 | 2022 by Ignacio Blanquer

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EOSC Partnership - Colaboración tripartita

European Commission

Representing the European Union

EOSC Steering Board

Representing EU Member States and Associated Countries

EOSC Association

Representing the European research community

La Asociación EOSC – organización

https://eosc.eu/

249 miembros

144 full members

79 observers

26 mandated organizations

✓ CSIC, miembro fundador y *mandated organization* para España.

✓ Coordinación nacional de las actividades.

✓ Nacho Blanquer (UPV), miembro del comité directivo.

Advisory groups	Task Forces
AG 1 Implementation of EOSC	TF 1.1 PID policy and implementation
	TF 1.2 Researcher engagement and adoption
	TF 1.3 Rules of Participation (RoP) compliance monitoring
AG 2 Metadata and Data QUality	TF 2.1 FAIR metrics and data quality
	TF 2.2 Semantic interoperability
AG 3 Research Careers and Curricula	TF 3. 1 Data stewardship curricula and career paths
	TF 3.2 Research careers, recognition and credit
	TF 3.3 Upskilling countries to engage in EOSC
AG 4 Technical challenges on EOSC	TF 4.1 AAI Architecture
	TF 4.2 Infrastructures for quality research software
	TF 4.3 Technical interoperability of data and services
AG 5 Sustaining EOSC	TF 5.1 Financial Sustainability
	TF 5.2 Long-term data preservation

Fuente: Ilaria Nardello, Ari Asmi, René Buch, & Erik-Jan Bos. (2022). Delivering for EOSC - Key Exploitable Results of Horizon 2020 EOSC-related Projects. Zenodo. https://doi.org/10.5281/zenodo.7401539

La SRIA y el MAR

https://www.eosc.eu/sites/default/files/SRIA_2022_01.pdf

https://www.eosc.eu/sites/default/files/2022-11/20221107_MAR%202023-2024.pdf

EOSC Multi Annual Roadmap 2023-2024

Stage 1 (2021–2022): Development towards added value from a functional federation of infrastructures

Enabling the **European Open Science Cloud operations (the EOSC-Core)** to provide necessary core functions of the Minimum Viable EOSC (MVE) that allow federation of existing and future infrastructures, according to associated Rules of Participation and governance that provision growth and expansion in the following stages.

Stage 2 (2023–2024): Expansion to production that generates added value

Expanding and building the core data infrastructure to support the full cycle of workflows for scientific research in key thematic areas. During this period, activities will build on pilots/demonstrators and work towards linking EOSC beyond the research communities to the wider public sector and the private sector will begin.

Stage 3 (2025–2027 and beyond): Expansion to develop impact from Open Science

Deployment of federated research infrastructures for European researchers with functionality that provisions actors from multiple communities to deliver impactful Open Science. In addition to European infrastructures, the national research infrastructures delivered from the Member States and Associated Countries in particular will help in this expansion phase.

→ Dominio del esquema de clusters científicos.

→ Relevancia del desarrollo de código y de software.

→ Research assessment.

→ Servicios de nueva generación.

→ Arquitectura y marco de interoperabilidad.

→ Tratamiento de datos sensibles.

→ Cambio climático.

→ Apoyo al partenariado.

→ Trustworthy repositories.

→ Infras de acceso y preservación.

→ Servicios innovadores y personalizables.

KERs proyectos previos INFRAEOSC

Delivering for EOSC

Key Exploitable Results of Horizon 2020 EOSC-related Projects

Report from the H2020 INFRAEOSC Projects Survey, run by the EOSC Association, in Spring 2022
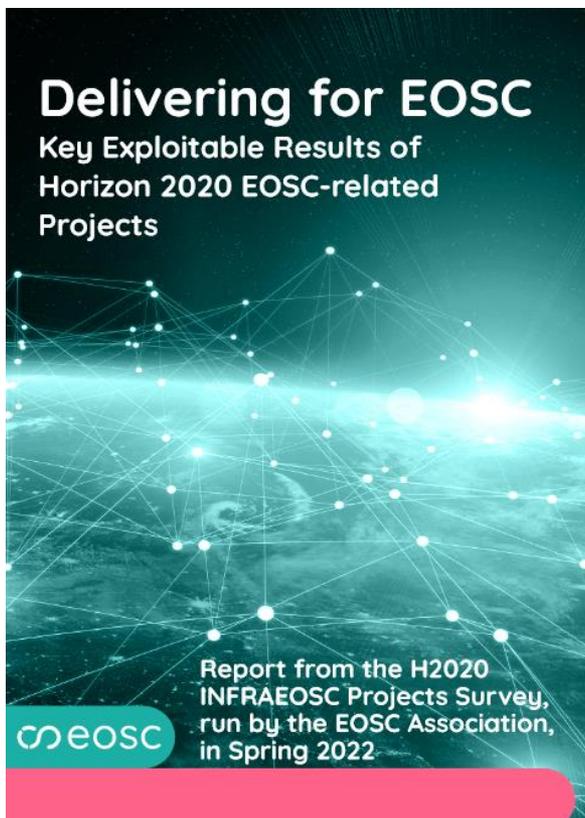
Call name	Topic	Project Name	2018	2019	2020	2021	2022	2023
H2020-INFRAEOSC-2018-2	INFRAEOSC-04-2018 - Connecting ESFRI infrastructures through Cluster projects	ENVRI-FAIR		⊗	⊗	⊗	⊗	⊗
		EOSC-Life		⊗	⊗	⊗	⊗	⊗
		ESCAPE		⊗	⊗	⊗	⊗	⊗
		PaNOSC	⊗	⊗	⊗	⊗	⊗	
		SSHOC		⊗	⊗	⊗	⊗	⊗
H2020-INFRAEOSC-2018-3	INFRAEOSC-05-2018-2019 - Support to the EOSC Governance	EOSC-Nordic		⊗	⊗	⊗	⊗	
		EOSC-Pillar		⊗	⊗	⊗	⊗	
		EOSC-synergy		⊗	⊗	⊗	⊗	
		ExPaNDS		⊗	⊗	⊗	⊗	⊗
		NI4OS-Europe		⊗	⊗	⊗	⊗	⊗
H2020-INFRAEOSC-2018-4	INFRAEOSC-05-2018-2019 - Support to the EOSC Governance	FAIRsFAIR		⊗	⊗	⊗	⊗	
H2020-INFRAEOSC-2019-1	INFRAEOSC-02-2019 - Prototyping new innovative services	COS4CLOUD		⊗	⊗	⊗	⊗	⊗
		CS3MESH4EOSC			⊗	⊗	⊗	⊗
		INODE		⊗	⊗	⊗	⊗	⊗
		NEANIAS		⊗	⊗	⊗	⊗	
		TRIPLE		⊗	⊗	⊗	⊗	⊗
H2020-INFRAEOSC-2020-2	INFRAEOSC-07-2020 - Increasing the service over of the EOSC Portal	C-SCALE				⊗	⊗	⊗
H2020-INFRAEOSC-2020-2	INFRAEOSC-07-2020 - Increasing the service over of the EOSC Portal	RELIANCE				⊗	⊗	⊗
BG-07-2019-2020	BG-07-2019-2020 - The Future of Seas and Oceans Flagship Initiative	Blue Cloud		⊗	⊗	⊗	⊗	⊗
H2020-INFRAEOSC-2020-2	INFRAEOSC-03-2020 - Integration and consolidation of the existing pan-European access mechanism to public research infrastructures and commercial services through the EOSC Portal	EOSC Future				⊗	⊗	⊗
H2020-ICT-2018-2	ICT-34-2018-2019 - Pre-Commercial Procurement open	Archiver		⊗	⊗	⊗	⊗	
H2020-ICT-2014-1	ICT-09-2014 - Tools and Methods for Software Development	DICE				⊗	⊗	⊗

Table 2 – List of respondent to the H2020 EOSC-related Projects Survey
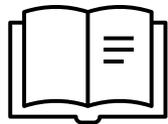
https://zenodo.org/record/7401539
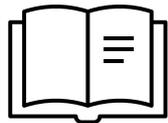
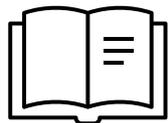# Aportaciones del Steering Board

EOSC Steering Board

Representing EU Member States and Associated Countries

EOSC Data Literacy.

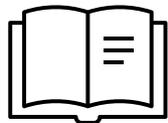EOSC and the Private Sector.

EOSC Sovereignty on FAIR Data.

Monitoring Open Science.

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Gracias

@PilaRicoCastro

Responsable Unidad Acceso Abierto, Repositorios y Revistas
Experta Nacional Comité de Programa *Research Infrastructure* en HE
Representante nacional en el EOSC SB

Fundación Española para la Ciencia y la Tecnología (FECYT)

https://www.fecyt.es/
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