

EOSC

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- 1. e-infras
- 2. Dados de investigação
 - a. FCT
 - b. País
 - c. Mundo
- 3. EOSC
- 4. EOSC-Synergy

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e-Infras: visão global e integrada

European Data Infrastructure











e-INFRAS

Computing



Data



European Open Science Cloud













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FCT: propostas de atividades

Planeamento

- Governação e Política Definição de um modelo de governação para a gestão de dados de investigação a nível nacional
- Estudos e prospecções Inquérito
- Casos de uso piloto Levantamento de requisitos e estudos preliminares para a realização de projetos piloto.
- Sistema de Planos de Gestão de Dados –
 Configuração, parametrização e descrição do
 funcionamento do serviço. Desenvolvimento de
 documentação de apoio.
- Repositório de Dados de Investigação Definição de requisitos e escolha de software para o repositório de gestão de dados e respetiva instalação e configuração.

Comunicação e disseminação







Formação / Capacitação



Nacional: rede de centros de excelência

Coordenação

- CA@FCT, Articulação nacional, articulação internacional
- Policy making
- Monitorização e estatística
- Estudos e prospeção

Serviços

- Capacitação (FOSTER PT)
- RCAAP (FCCN)
- GDI (FCCN)

Infraestruturas (FCCN)

- Datacenter, Storage, Rede
- Computação para dados / administrativa
- PTCRIS (PIDs (ex: DOIs)
- AAI

NDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA
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Internacional: Colaboração e alinhamento









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State-of-play and means to realise the EOSC

Brussels, 15 October 2019

European Commission, Directorate General Research & Innovation (DG RTD)

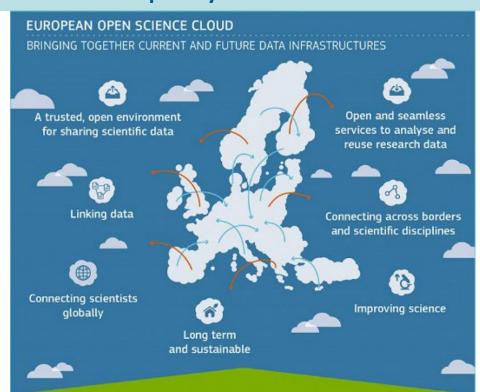
Michel Schouppe, Senior expert, RTD.G4 Open Science



Why the EOSC? What is EOSC?

Enabling the digital transformation of research: towards more of data-intensive, collaborative and cross-disciplinary science

EOSC will provide 2 million EU researchers and innovators with a service environment for research data management, analysis and re-use across disciplines, increasing the creativity, productivity and reproducibility of research





EOSC achievements in 2016-2018



- Vision
- EOSC roadmap
- Political support
- Targeted resourcing
- Communities at work
- Prototype Portal
- Governance 2019-2020

a. Architecture

b. Data

c. Services

d. Access & Interface

e. Rules

f. Governance

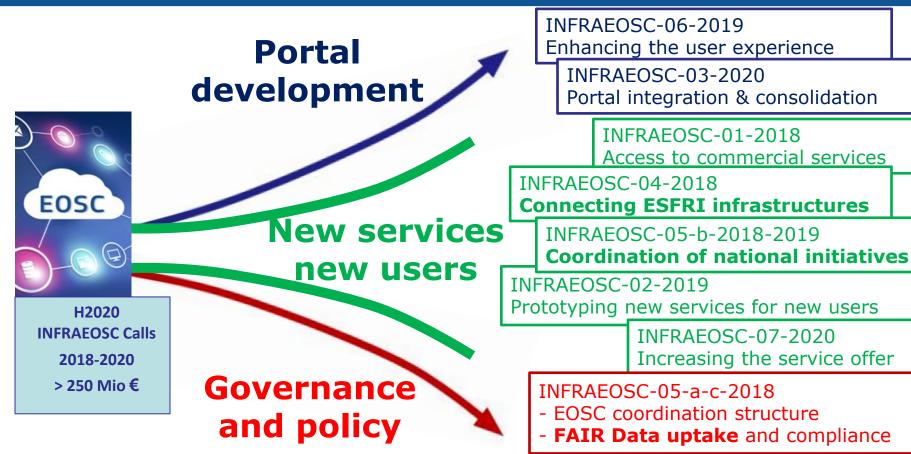
The Vienna Declaration on the European Open Science Cloud

Vienna, 23 November 2018

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H2020 dedicated activities to prototype the EOSC





EOSC governance in 2019-2020

Endors

Interac

Advise on / inform the implementation

Steer the implementation

Contribute to the implementation

Stakeholder

Users, Service Providers, Public sector, Industry, SMFs. etc.

Working Groups

Supports

WG

WG

WG

 Γ

MG

Governance Roard

MS/AC delegates and the European Commission

Propos

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Reports Utive Board

European stakeholder organisations and individual experts)

Supports

EU-funded projects

Nationally-funded projects and initiatives

Other projects and initiatives

Extended Coalition of Doers

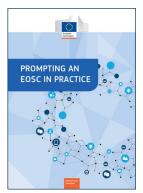
EOSCSecretariat.eu
Coordination and Support Action

Supports/ coordinates



Key issues by end of 2020

- ✓ Governance model and best-fit legal vehicle for after 2020
- ✔ Financing model(s) to sustain EOSC infrastructure and services in the long run
- ✓ Rules of participation that would govern future EOSC transactions
- ✓ Compatibility of EOSC-relevant national initiatives
- ✓ Evolution of the EOSC Portal and its interfaces, expansion of the EOSC service offering to the researchers
- ✔ FAIR digital objects: turning principles into practice
- ✓ Widening strategy for the EOSC user base,
- ✓ Role of the private sector
- ✓ EOSC in the international context



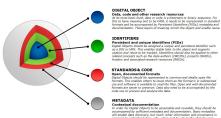




Turning FAIR into reality – key concepts

- FAIR ecosystem: FAIR requires an ecosystem of components, including policies, DMPs, PIDs, specifications and standards, repositories and registries of these components.
- FAIR Digital Objects: FAIR requires a model for FAIR digital objects: outputs (data, software and other research resources) have appropriate PIDs, use standard formats, rich metadata, licenses.





Recommendation 4: Interoperability frameworks

Develop interoperability frameworks for FAIR sharing within disciplines and for interdisciplinary research.

Research communities need to be supported to develop interoperability frameworks that define their practices for data sharing, data formats, metadata standards, tools and infrastructure.

To support interdisciplinary research, **these interoperability frameworks should be articulated in common ways and adopt global standards where relevant**. Intelligent crosswalks, brokering mechanisms and semantic technologies should all be explored to break down silos.

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EOSC Synergy



Project Vision

EOSC Synergy will expand the **Capacity** and **Capabilities** of EOSC by leveraging the experience, effort and resources of national publicly-funded digital infrastructures in a coherent way, therefore acting also as an incentive for national resource providers.



Portugal, Spain, Germany, Poland, Czech Republic, Slovakia, Netherlands, United Kingdom and France



EOSC Synergy - Key Ideas



Building Capacity

Enlarging EOSC with a critical mass of computing and storage resources in such a way that resources can be seamlessly exploited via federation services.

Developing Capability

Promoting EOSC adoption by the research communities by expanding and building knowledge on common interfaces, standards and best practices.

Software Quality as a Service

Increasing EOSC adoption and facilitating the on-boarding of providers.



EOSC Synergy - Project Consortium













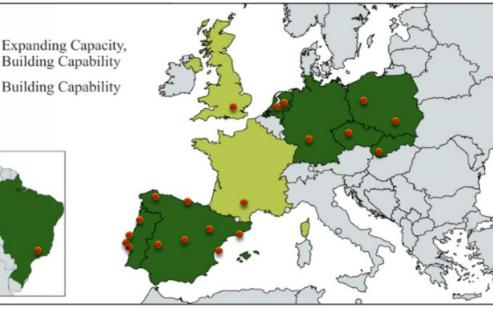






































EOSC Synergy - Our Collaboration

Work Package 5 - Alignment of National Policies and Practices



Harmonization and development of policies and best practices for resource provisioning and allocation compatible with EOSC in the participating countries.



- → Landscape Analysis;
- → Gap Analysis and Recommendations;
- → National and International Liaisons.

Inquérito infraestruturas



Thank you for your attention

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- 5. Forum Infraestruturas

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Contactos e/ou Agradecimentos (opcional)