



FÓRUM
GESTÃO DE DADOS
DE INVESTIGAÇÃO

Status and Next Steps - Portugal

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What is EOSC?

The ambition of the European Open Science Cloud (EOSC) is to develop “**Web of FAIR Data and services’ for science in Europe**. EOSC will be a **multi-disciplinary environment** where **researchers** can **publish, find and re-use data, tools and services**, enabling them to **better conduct their work**.

EOSC builds on **existing infrastructure and services supported by the EC, Member States and research communities**. It brings these together in a **federated ‘system of systems’** approach, adding value by aggregating content and enabling services to be used together.



Ambition

1

Close collaboration between knowledge institutions, government, industry and citizens

2

Scientific processes are inclusive, efficient, transparent, and carried out with integrity

3








No more barriers to reading and reuse of scientific outputs

4

Products from and for science are FAIR



Open Science Activities

Publications			Data	Directory
Gold OA Read & Publish Publish and read	Diamond OA	Green OA	Research Data	Journals and Repositories
 biblioteca do conhecimento online	  			

Polen

The Polen brand was established to aggregate all RDM services provided by FCT to the Portuguese scientific community

polen.fccn.pt

Coming Soon



MOOC - The Essential of RDM

New topics and updates on the 3rd edition:

- RDM responsibilities
- DMP template - FCT
- Resources
- Content related to sensitive data
- Certified repositories
- Horizon Europe requirements



nau.pt

Argos - argos.openaire.eu

Argos is a joint effort of OpenAIRE and EUDAT to deliver an **open platform for Data Management Planning**. **FCT recommends Argos** as DMP creation tool, and has created a **DMP template** that is available through this platform.

The screenshot displays the Argos web application interface. The top navigation bar includes the Argos logo, a 'Start new DMP' button, and links for 'FAQ', 'EN', and a user profile. The left sidebar contains a 'Home' link and sections for 'My DMPs', 'My Datasets', 'Public DMPs', and 'Public Dataset Desc.'. The main content area is titled 'Latest Activity' and features tabs for 'All (7)', 'Drafts (5)', 'DMPs (2)', and 'Datasets (5)'. A search bar and a 'Sort by: Modified' dropdown are present. The first entry is a DMP titled '9º Forum GDI - Projeto Quase', edited on 19 November 2022. It shows the owner as 'Draft', version 0, and grant 'WORKSHOP JORNADAS FCCN'. It contains 4 datasets: 'Dados de vídeo', 'Dados de GPS', and 'Dados de eventos'. The second entry is a Dataset titled 'Dados de vídeo', edited on 17 November 2022, which is part of the DMP '9º Forum GDI - Projeto Quase'. Both entries have an 'Export' button. The right sidebar shows 'Personal Usage' statistics: 2 DMPs, 8 Datasets, 0 Grants, and 1 Related Organisation.

Polen Repository - repositorio.polen.fccn.pt

The screenshot displays the 'Polen Repository' interface. At the top, the header includes the 'polen' logo, the word 'repositório', and navigation links for 'Search', 'User Guide', 'Support', and a user profile for 'João Manuel Fernandes Cardoso' with a notification badge. The main content area is titled 'FCCN' and features an 'Unpublished' status badge. Below this, there are 'Metrics' and '0 Downloads' indicators, along with 'Contact' and 'Share' buttons. A search bar is present with the placeholder text 'Search this dataverse...' and a magnifying glass icon, followed by a link to 'Advanced Search'. On the left, there are three filterable categories: 'Dataverses (0)', 'Datasets (0)', and 'Files (0)', each with a checkbox and a document icon. A large yellow message box states: 'This dataverse currently has no dataverses, datasets, or files. You can use the Email Dataverse Contact button above to ask about this dataverse or request access for this dataverse.' The footer contains the copyright notice 'Copyright © 2022' and the 'Powered by FCCN fct' logo, which includes the text 'Fundação para a Ciência e a Tecnologia' and 'Tecnologia para o Conhecimento'.

polen repositório

Search User Guide Support João Manuel Fernandes Cardoso 1

FCCN

Unpublished

Metrics 0 Downloads

Contact Share

The FCCN dataverse.

Search this dataverse... Advanced Search

☒ Dataverses (0)

☒ Datasets (0)

☐ Files (0)

This dataverse currently has no dataverses, datasets, or files. You can use the Email Dataverse Contact button above to ask about this dataverse or request access for this dataverse.

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Tecnologia para o Conhecimento

A Dataverse based repository for the storage and preservation of research data for FCT funding beneficiaries

Call - Polen Repository - Pilot



Who should apply?

Beneficiaries of FCT funding instruments.

Eligibility:

- Data management plan submission, using Argos FCT's template;
- **30% or 2 elements** of the applicant R&D project team must successfully complete the 3rd edition of the MOOC - "**The Essential of RDM**";
- The proposing institution must be able to issue an **invoice** corresponding to the funded amount.




Call - Polen Repository - Pilot

Selection:

- Merit of the Open Science strategy of the applicant institution;
- Merit of the application submitted;
- Completeness and quality of the PGD presented;
- Volume of research data.

The selection process will also take into account promoting the diversity of types of institutions, scientific areas and geographic areas.

Amount:

- Total amount for the call of 30,000 € -> SAMA project
 - Minimum funding limit of 5,000 €, per selected application
 - Up to 6 applications.
- 

European Data Infrastructure



e-INFRASTRUCTURE

Computing



Minho
Advanced
Computing
Center



Data

FAIR Data PT



European Open Science Cloud



Network



The role of FCT | FCCN in EOSC

A. FCT representation in EOSC

- Focus on representation tasks
- The interests of the Portuguese Republic in EOSC-A are represented by FCT, through FCCN

B. FCT as a National Contact Point

- FCT is the National Contact Point
- Information from EOSC-A and the European Commission is aggregated to serve the national community

C. The role of FCT in implementing EOSC

- Facilitate the coordination of national infrastructures and network resources
- Establishing connections with EOSC relevant competence centers



Fundação
para a Ciência
e a Tecnologia



Sharing EOSC - National community

National community info-shares about EOSC

- National RIs
- Jornadas FCCN (since 2019)
- Fórum GDI (since 2019)
- Ciência 2022 Conference
- 13th Lusophone Conference on Open Science

EOSC Relevant information

- EOSC TF, EOSC Funding
- National RIs, Forum GDI Members, RDA.pt



The Contributions of the Portuguese Community to EOSC

EOSC Future

- An integrated environment of data, services, products and open access infrastructures.
- **University of Minho** is engaged with the **training and skills** work package



EOSC Life

- Promotes the publication of FAIR live sciences resources in EOSC
- **Centro de Ciências do Mar** is an associate member and is collaborating in the “**A workflow for marine Genomic Observatories data analysis**” project.



The Contributions of the Portuguese Community to EOSC

ESCAPE

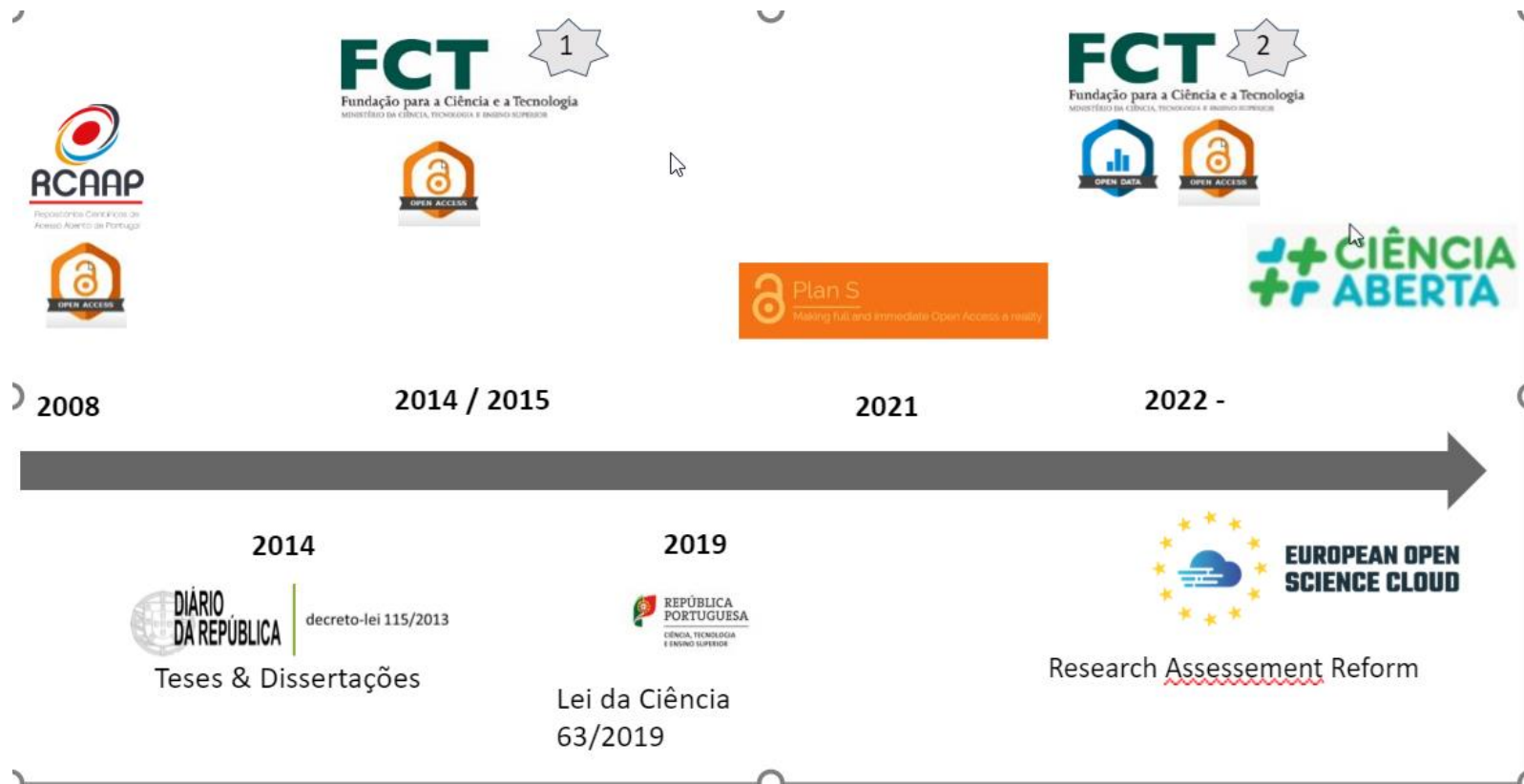
- Establish a cluster of ESFRI facilities in the area of astronomy
- The **University of Minho**, in association with the **LIP** and **INCD** have been the Portuguese **contributors to ESCAPE**

Research careers, recognition and credit Task Force

- Focuses on the incentives and rewards for applying Open Science to all facets of research
- **Delfim Leão from University of Coimbra** is one of the TF coordinators



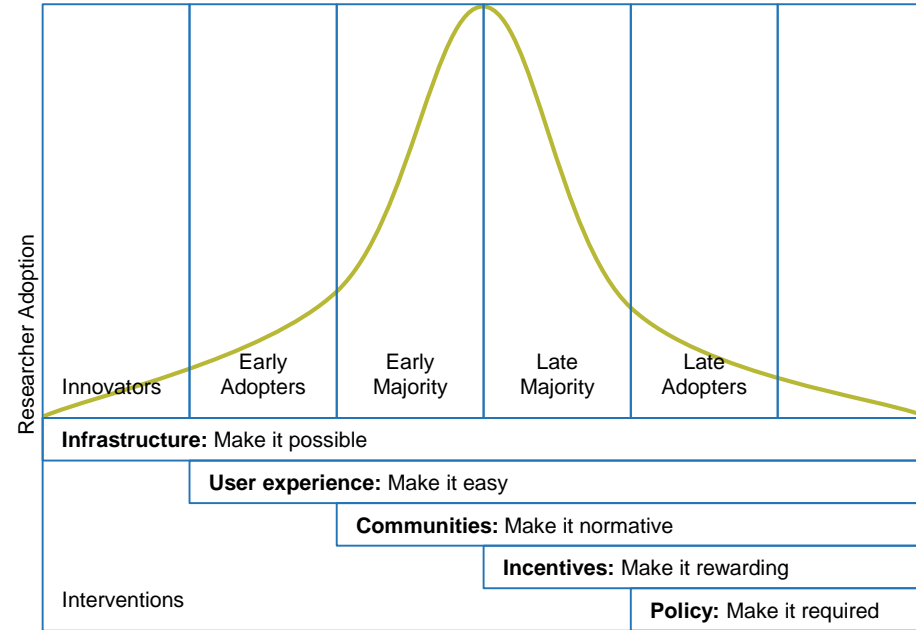
Keep working until the job is done but ...



Open Science as the new normal

Necessary steps:

- Development of new and **more effective use of already existing research infrastructures for effective and open knowledge sharing**
- Development of **open knowledge practice skills** in the relevant scientific communities
- Investment in and the **spreading of best practices and inspiring strong examples** of effective knowledge sharing
- **Reform the rewards and recognition system** to include open knowledge practices
- Incorporate **open science in the key responsibilities of academic leaders**



Adapted from Rogers (2003), Nosek (2021)

Open Science as the new normal

Level

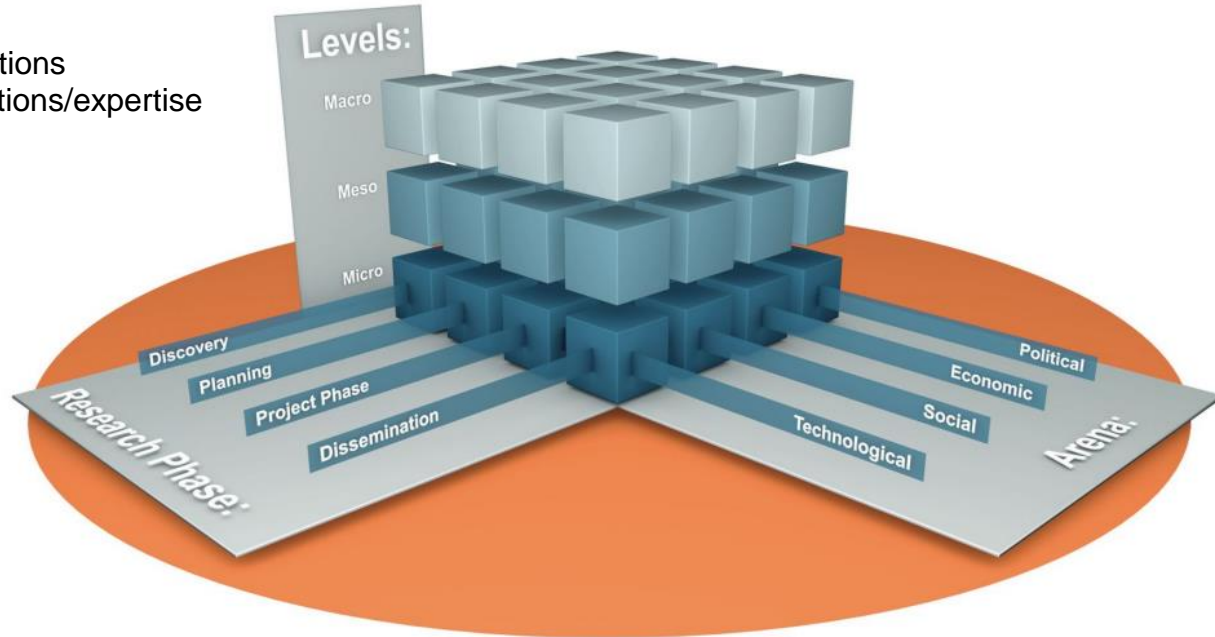
- Government/Funding organizations
- Research performing organizations/expertise centre
- Research groups/Researchers

Arena

- Infrastructure
- Skills
- Recognition and rewards
- Policies and regulations

Research Phase

- Before
- During
- After



Some points worth considering

- Align **top-down and bottom-up initiatives**
- Address the **main barriers for researchers**
 - **Time, effort and financial costs, data protection, legal restrictions and lack of recognition**
 - A stronger focus on **Open Science activities before and during research projects** as opposed to after
 - Develop **expertise (and capacity) in multiple disciplines (team science)**
- Design **research workflows and integrate local, national and international services in these workflows**
 - Collaborate with local and thematic DCCs, and EOSC
 - Stimulate FAIR by design



Next steps - coordination of national EOSC activities



- Incremental
- Participative and inclusive
- Distributed
- Lightweight
- Topdown a bottom-up

Next steps - Tripartite Event

Spain and Portugal EOSC Tripartite Event

First tripartite event hosted jointly with Spain during the IBERGRID 2022 conference

Portuguese EOSC Tripartite Event

2023

Objectives:


- Commitment of policy makers
- Engagement with relevant stakeholders





References

EOSC Symposium 2022, Open Science in 2030. The Dutch approach: towards collective action





Thank you for your attention

Isabel Caetano

Roberto Sabatino

Sara Garavelli

João Mendes Moreira



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