Building European Open Science Cloud together: Perspectives from eInfraCentral

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European Future Innovation Systems (EFIS) Centre

Workshop “Focus on Open Science”
29 October 2019, Kaunas
Future is open and inclusive

• OS implies that scientific knowledge of all kinds should be **openly shared** as early as is practical in the research process

• OS strives to improve **accessibility** to and **reusability** of research practices and outcomes
  • Open Access to publications; Open Research Data and Methods; Open Code and Software; Open Educational Resources; Open Evaluation, and Citizen Science

• OS also means to design **research in inclusive and accessible ways** for all relevant actors, within and beyond the scientific community

• Provides an opportunity to **rethink the social role of science**, the links to inclusive growth, societal well-being, education and industry
Open challenges for Open Science

• How research is done and knowledge is produced
• How knowledge is shared, circulated, reused and preserved across disciplines and beyond science
• How research is valuated and researchers are rewarded
• How research is funded and incentivised
• How researchers are trained
Open challenges for Open Science

• How research is done and knowledge is produced

• **How knowledge is shared, circulated, reused and preserved across disciplines and beyond science**

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Focusing on research infrastructures

1. How to increase collaboration and sharing of resources?
2. Will a potential shift from funding projects to funding use of services provided help with 1 and increase 3?
3. How sharing of data and resources will lead to more technological and scientific breakthroughs and higher socio-economic impacts?
eInfraCentral implementing European Open Science Cloud

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Kaunas
Project in a nutshell

• Coordination and support action funded by Horizon 2020 (call: INFRASUPP-2016-1)
• January 2017 – June 2019 (30 months)
• 9 project partners, incl. 5 e-Infras
• Budget: €1,499,037.50
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731049.
Implementation projects

European Commission’s Implementation Roadmap for the European Open Science Cloud names four projects among the key building blocks of EOSC and tasks to build EOSC Portal.
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Timeline

Jan 2017
Jan 2018
Jan 2019
Jun 2019
Dec 2019
Nov 2018

The EOSC Portal
Accelerating the transition to open science & open innovation
The EOSC from e-infrastructures perspective

EOSC
- User interface/website
- Core service provision
- Access right
- ESOC Marketplace
- Catalogue of services

From: Liina Munari, DG RTD
Our mission

Ensure, that by 2020, a broader and more varied set of users discovers and accesses the existing and emerging Services and Resources for Research.
<table>
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<tr>
<th>Core Objectives and Key Results</th>
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<tr>
<td><strong>Structure an open and guided discussion to consensually define a common catalogue for their services and resources</strong></td>
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<td>Reached consensus initially with 5 key e-Infras on standard description of services and resources and APIs. Now includes 24 SPs.</td>
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<td><strong>Develop a web platform to act as the gateway for researchers to browse the catalogue of services and solve the “last mile” problem</strong></td>
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<td>Developed a production view of the EOSC Catalogue with 250+ services and resources</td>
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<td><strong>Capture and draw policy and sustainability lessons for the development of the European e-Science marketplace</strong></td>
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<td>Lessons from building the catalogue and work with SPs fed into the EOSC Portal development, CatRIS and being further developed and communicated in 2019</td>
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The EOSC portal has been jointly developed and maintained by the eInfraCentral, EOSC-hub, EOSCpilot and OpenAIRE-Advance projects funded by the European Union's Horizon 2020 research and innovation programme with contribution of the European Commission.
All you need to know about the EOSC

Future of scholarly publishing and scholarly communication

The European Commission published the report from the Expert Group titled "The Future of scholarly publishing and scholarly communication". The report discusses the strengths and weaknesses of the current system of scholarly communication, suggests actions and ways to improve and change it where needed.

Link: https://publications.europa.eu/en/publication-detail/-/publication/46447...

Prompting an EOSC in practice

Workshop series: Services to support FAIR Data

OpenAIRE, RDA Europe, FAIRsFAIR and EOSC.hub are happy to announce a series of three workshops, two in April and one in September, called 'Services to Support FAIR data'.

12 APRIL 2019
TO 17 SEPTEMBER 2019

EuroHPC Summit Week 2019

The fourth edition of the EuroHPC Summit Week will take place from 13-17
Promoting the EOSC-in-practice

• Use Cases

- The pufferfish invasion in the Mediterranean Sea - demonstrator
- From language data to insight - the CLARIN demonstrator
- ICOS - Integrated Carbon Observation System

• Best Practices

Open Call

We are looking for concrete examples of "EOSC-in-practice" stories: submit yours!

What is an "EOSC-in-practice" story?

EOSC-in-practice stories are use cases or success stories that highlight how EOSC services and resources can support the daily work of researchers and innovators. Examples of EOSC-in-practice stories can be found here.

An "EOSC-in-practice" story should:

- describe the scientific/technical/research/business challenge
- explain how this challenge was tackled via the usage of the EOSC portal services & resources
- highlight the benefits obtained from the EOSC (time/cost savings, efficiency, etc.)
- demonstrate the cross Research Infrastructure Use Case benefits

How can I publish my "EOSC-in-practice" story on the EOSC portal?

- Submit your story using the webform below
- The EOSC Portal editorial board will review and validate the content of your story
- If your story meets the above-mentioned criteria, it will be published on the portal

Why should I submit an "EOSC-in-practice" story?

Contribution 1: SDT v2.00

Result 1:
The Scientific Resources Description Template (SDT)

A combined effort; now also spanning into physical research infrastructures
Contribution 2: EOSC Catalogue

einfracentral.eu
catalogue.eosc-portal.eu
catris.eu (coming soon)

Database

View A
Rules A

View B
Rules B

View C
Rules C

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Contribution 3: APIs for enabling EOSC

REST API for service information exchange in EOSC
Contribution 4: “Build-your-own” Catalogue

http://catalogue.openaire.eu

http://catalogue.myproject.eu

http://catalogue.geant.org (in progress)

https://github.com/eInfraCentral

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Thank you!

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