The EOSC Future project is co-funded by the European Union Horizon Programme call INFRAEOSC-03-2020, Grant Agreement 101017536

EOSC Future and the EOSC Portal

Catalin Condurache (EGI Foundation)
EOSC Portal Onboarding Team coordinator
The European Open Science Cloud (EOSC)

An environment for hosting and processing research data to support EU science

It addresses technical and organisational challenges

- Federation of the Research Infrastructures (RIs)
- Fulfilment and development of FAIR* principles on data
- Services for data discovery, access and processing integrated on a centralised access portal
- Governance model with clear Rules of Participation (RoP)

* Findable, Accessible, Interoperable, Reusable
EOSC Architecture

Three components

- EOSC Core
- EOSC Exchange
- EOSC Interoperability Framework
EOSC Core

Enabling services required to operate the EOSC including:
- EOSC Portal
- EOSC Resource Catalogue, including Provider Portal
- EOSC Federated AAI
- Monitoring and Accounting
- Helpdesk and Security Coordination
EOSC Exchange

Federation services registered to the EOSC by RIs and clusters to serve the needs of users
- Horizontal Services provided by e-Infrastructures and Science Cluster Communities
- Cluster, Community and Regional specific resources such as Thematic/Regional Resources and Portals
- Execution Framework allowing composability for EOSC resources complying to the EOSC Interoperability Framework
EOSC Interoperability Framework

Scientific services provided by RIs and Clusters to the respective communities

The EIF provides guidelines for providers to connect these services to EOSC-Exchange and EOSC-Core

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EOSC Future

INFRAEOSC 03 project – “Integrating and managing services for the EOSC”

Vision - Provides an operational platform with an integrated execution environment consisting of data, services, open research products, infrastructures

Mission - To bring the e-Infrastructures and Science Cluster communities together to implement an operational EOSC platform focusing on technology and interoperability, resources, user engagement and user experience
Onboarding to EOSC

It is about populating the EOSC-Exchange
Who onboards and what?

Providers and resources

EOSC Resources

<table>
<thead>
<tr>
<th>Services</th>
<th>Research Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combine human activities (operations, support etc) with</td>
<td>Digital objects. Contain value which is realised through their</td>
</tr>
<tr>
<td>Research products (software, data, documentation etc)</td>
<td>examination, processing, combination or other use.</td>
</tr>
<tr>
<td><strong>Operational, active, delivered, managed</strong></td>
<td><strong>Object, storeable, FAIR</strong></td>
</tr>
<tr>
<td>Data processing</td>
<td>Data sets</td>
</tr>
<tr>
<td>Storage &amp; archiving</td>
<td>Software</td>
</tr>
<tr>
<td>Thematic environment</td>
<td>Publications</td>
</tr>
<tr>
<td>...</td>
<td>FDOs</td>
</tr>
<tr>
<td>Content source</td>
<td>...</td>
</tr>
</tbody>
</table>

Data source
Software repo
Publisher repo
...
What to onboard to?

EOSC and the system of systems

EOSC Platforms allow for Integration with EOSC Core services

Platform integration
Why to onboard?

Benefit from added value of the EOSC Portal

- For service providers: integration with Core and enable service, composability, attract new users
- For users: single point of access to discover, order services, obtain help etc.
Where and how to onboard?

Directly to EOSC registry (Providers Portal)
- Onboard the RP, then resources, via web or API – https://providers.eosc-portal.eu
- Support via onboarding@eosc-portal.eu
- Providers documentation - https://eosc-portal.eu/providers-documentation
- Validated by EOSC Portal Onboarding Team (EPOT) and then listed on EOSC MP

Via community organisations
- Onboard to community catalogue (thematic, regional) after it’s integrated with EOSC (*)
- Contact community organisers / reps from cluster, region
- Expose to similar communities to your own

(*) Catalogue integration with EOSC is work in progress
More about the onboarding process and EPOT

Process developed by EOSC Enhance and EOSC-hub projects back in 2020

Follow the EOSC Portal inclusion criteria

Two separate procedures
- Validation of new requests against Rules of Participation requirements
- Audit existing records to ensure they remain valid

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Criteria from Rules of Participation

https://eosc-portal.eu/providers-documentation/eosc-provider-portal-inclusion-criteria

Providers should be a *legal entity* asserting
- resource is delivered by them or by their collaborators
- will maintain record/remove them in future as appropriate

Resources should be
- ‘live’ services (IT service or ‘human’) not artifact (data/software)
- mature (ideally TRL8) (*)
- services targeted to EOSC or EOSC communities
- services building on/leveraging EOSC capabilities


Technology Readiness Level (TRL) indicators: TRL 7 – Beta, TRL 8 – Production, TRL 9

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Improvements under EOSC Future

Integrated workflow using Jira
Improved initial checking of fields during input
Proper auditing of records incl. selection of records to be audited
Developing support for importing multiple records from other catalogues
- Pilot with NI4OS Europe
- Need for common adoption for resource ‘profile’ (EOSC Portal Profile 4.0)
- Consistent application of RoP requirements including GDPR
- Set up of EOSC Onboarding Strategy group

Further scalability improvements
Onboarding Procedure

https://providers.eosc-portal.eu/becomeAProvider

EOSC welcomes the participation of service providers that will contribute to develop EOSC into a rich environment offering a wide range of services and resources for researchers.

The EOSC will be Europe's virtual environment for all researchers to store, manage, analyse and re-use data for research, innovation and educational purposes. EOSC is intended to set off the ground by federating existing scientific data infrastructures and digital infrastructures for data exploitation that are now spread across disciplines and EU member states. This will make access to scientific data and other scientific outputs easier and more efficient.

Why join as a provider?

By contributing your services and resources to the EOSC portal, you can:

- Choose to advertise them on the EOSC Portal and promote their adoption outside your traditional user groups, reaching a wider user base.
- Get statistics about access requests and customer feedback.

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EOSC Portal in figures

EOSC Operations Portal

https://opsportal.eosc-portal.eu/metricsEOSC/ECReport

299 resources in EOSC Marketplace

5218 visitors of EOSC Portal + MP

18831 page views for EOSC Portal + MP

1918 service orders

814 unique users

29 countries

154 scientific disciplines

<table>
<thead>
<tr>
<th>Service and providers</th>
<th>EOSC Portal Metrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>299</td>
<td>Total number of services in the EOSC Marketplace at the report time</td>
</tr>
<tr>
<td>0</td>
<td>Total number of request from providers about a new service</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Visitors and views</th>
<th>EOSC Portal Metrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,218</td>
<td>Average number of visitors of EOSC Portal + MP per month</td>
</tr>
<tr>
<td>18,631</td>
<td>Average number of page views for EOSC Portal + MP per month</td>
</tr>
<tr>
<td>13,173</td>
<td>Average number of unique page views for EOSC Portal + MP per month</td>
</tr>
<tr>
<td>8,643</td>
<td>Average number of unique page views for EOSC Portal per month</td>
</tr>
<tr>
<td>4,529</td>
<td>Average number of unique page views for Marketplace per month</td>
</tr>
</tbody>
</table>

Top 10 EOSC Portal Visitors / country

- Italy
- Germany
- France
- Spain
- United Kingdom
- United States
- Belgium
- Netherlands
- Ukraine
- Greece

Top 10 Marketplace Portal Visitors / country

- Poland
- Italy
- Germany
- Ukraine
- Spain
- France
- Netherlands
- United Kingdom
- Greece
- Belgium

<table>
<thead>
<tr>
<th>Service Order</th>
<th>EOSC Portal Metrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1918</td>
<td>Total number of service orders created during the period</td>
</tr>
<tr>
<td>814</td>
<td>Number of unique users making a request during the period</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of countries</th>
<th>Number of countries requesting a service order during the period</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>Italy, Poland, Andorra, Finland, N/A, Ukraine, France, Spain, Germany, Netherlands, Hungary, Ireland, Switzerland, United Kingdom of Great Britain and Northern Ireland, Sweden, Estonia, non-European, Romania, Portugal, Croatia, Greece, Belgium, Slovenia, Czech Republic, Norway, Austria, Bulgaria, Serbia</td>
</tr>
</tbody>
</table>

154 scientific disciplines

- Generic
- Agricultural biotechnology
- Humanities
- History and archaeology
- Computer sciences
- Information sciences
- Engineering and Technology
- Educational sciences
- Social Sciences
- Mathematics
- Computer sciences
- Mathematics
- Physical sciences
- Electrical, electronic and information engineering
- Arts
- Animal and dairy sciences
- Other
- Economics, finance and business
- Chemical engineering
- Biomedical sciences
- Medical and Health Sciences
- Basic medicine
- Clinical medicine
- Health sciences
- Other

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EOSC Marketplace in figures

217 Providers
299 Resources
52 Communities and Infrastructures
17 Defined target groups
Demonstrations

Videos prepared for EOSC Future Deliverable 6.1

Onboarding of a Provider  https://youtu.be/wWGN7WzNuCO
Validation/auditing of a Provider  https://youtu.be/FW1ly-IE3Gs
Onboarding of a Resource  https://youtu.be/nsWPW7Qjc_s
Validation/auditing of a Resource  https://youtu.be/nHULTPs5Sl8
Merci! Des questions?

catalin.condurache@egi.eu

onboarding@eosc-portal.eu