

EOSC onboarding

A brief introduction

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Agenda

- EOSC overview
- Benefits
- Onboarding process
- Examples
- Conclusion



eosc

EOSC overview

European Open Science Cloud (EOSC)

- Built on existing infrastructure and services supported by relevant entities:
 - ◆ European Commission, Member states and research communities

- Federated and open multi-disciplinary environment
 - ◆ researchers, innovators, companies and public

 - ◆ publish, search and reuse:
 - data, tools and services

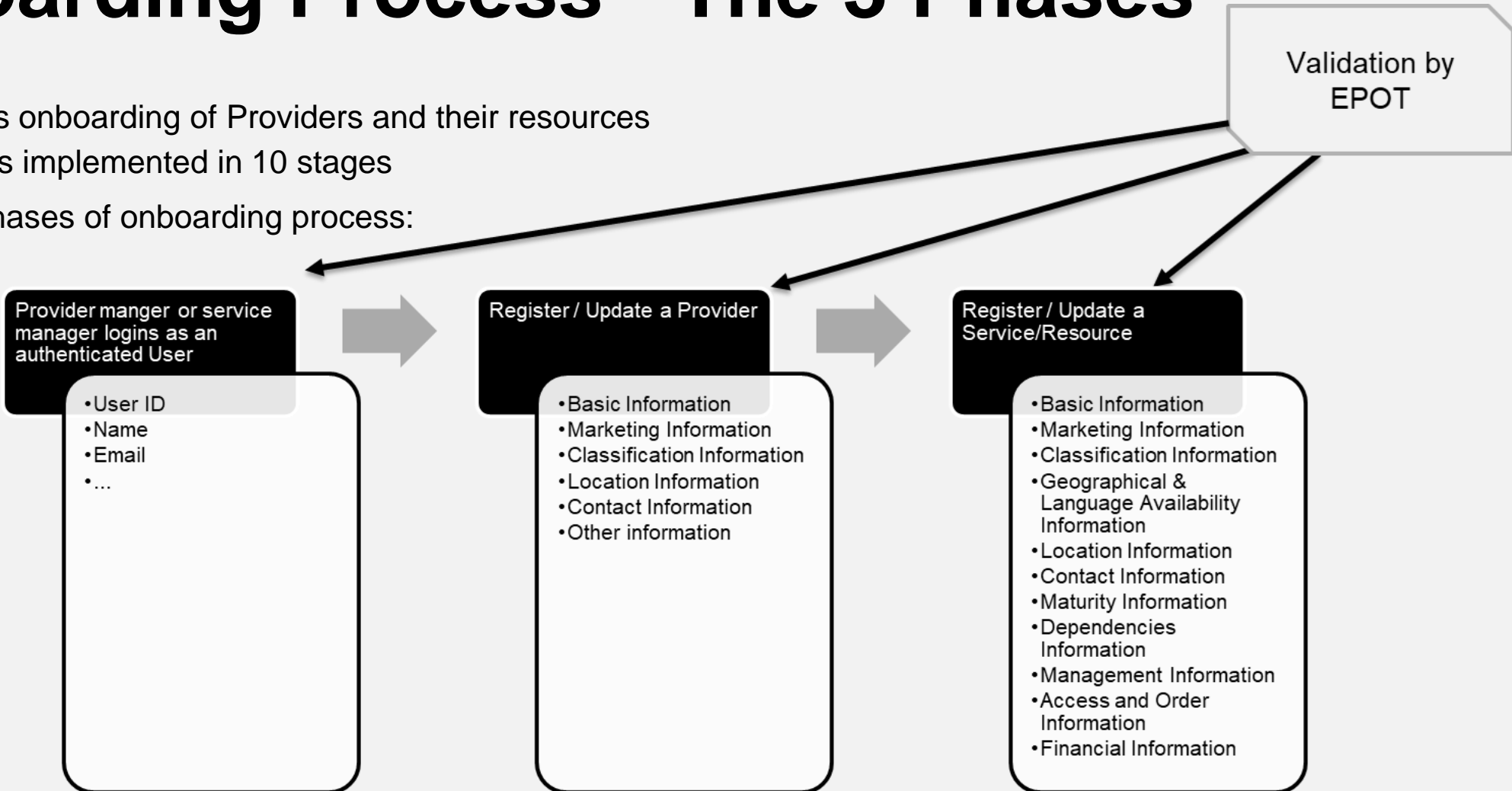
 - ◆ research, innovation and educational purposes

Benefits of EOSC

- Seamless access to content and services via common AAI
- Visibility of and access to data from various sources that are FAIR and, ideally, open
- Visibility of and access to services for storage, computation, analysis, preservation and more
- Adopted standards so data and services can be combined
- Helpdesk, training and support to improve the use of EOSC for users

Onboarding Process - The 3 Phases

- Specifies onboarding of Providers and their resources
- 3 Phases implemented in 10 stages
- The 3 phases of onboarding process:



Onboarding Process - The 10 Stages

1. The ARP registers with the EOSC Portal
2. The AARP logs in to the EOSC Portal
3. The AARP asserts Authorisation for the Provider
4. The AARP applies to onboard the Provider
5. The EPOT reviews the Provider Profile
6. The AARP selects the method to onboard Resources
7. The AARP applies to onboard Resources
8. The EPOT reviews the Resource Profiles
9. The AARP applies to onboard other Resources
10. The EPQT creates a Report

ARP: Authorised Representative of the Provider

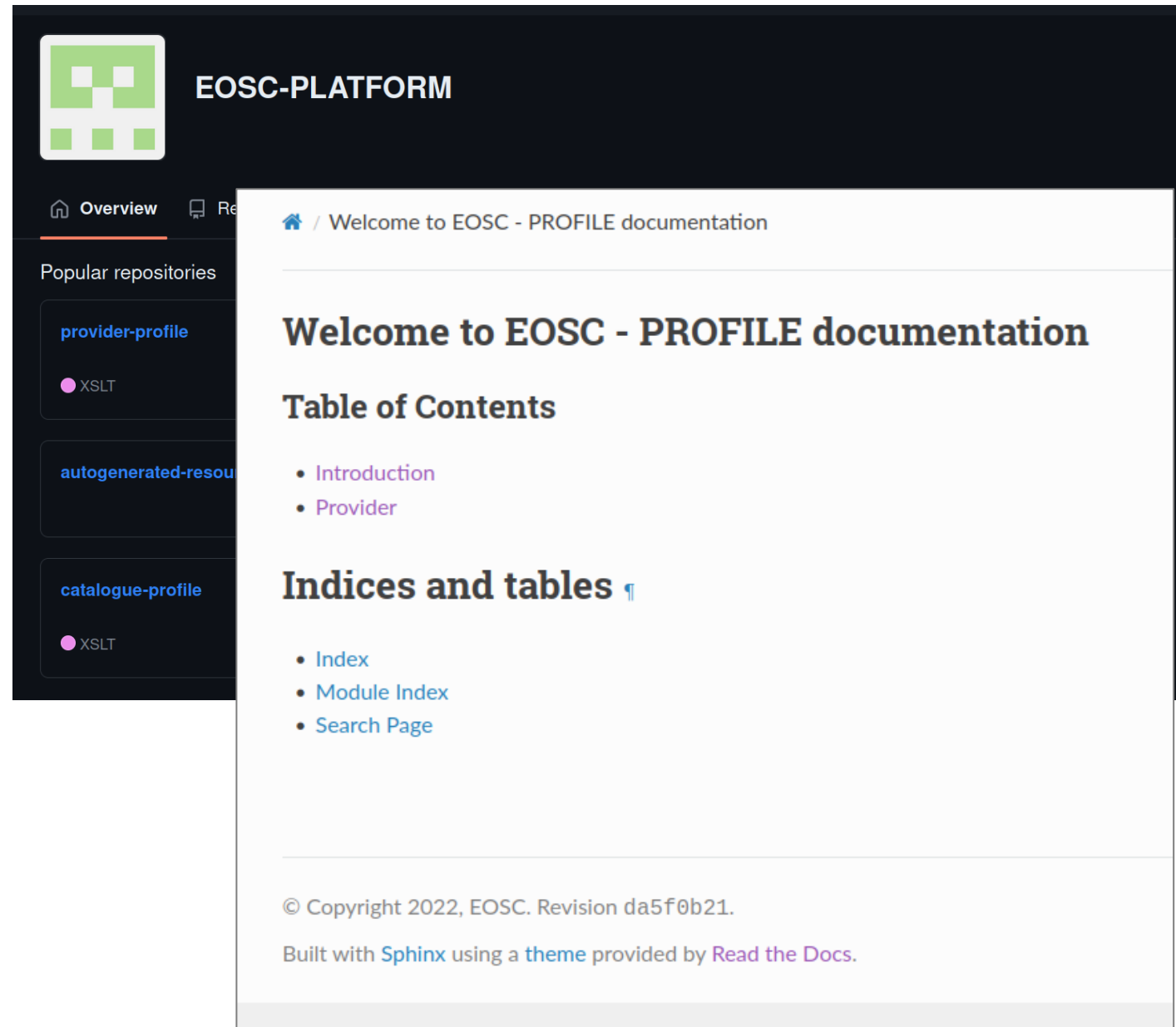
AARP: Authorized and Authenticated Representative of the Provider

EPOT: EOSC Portal Onboarding Team

EPQT: EOSC Portal Quality Team

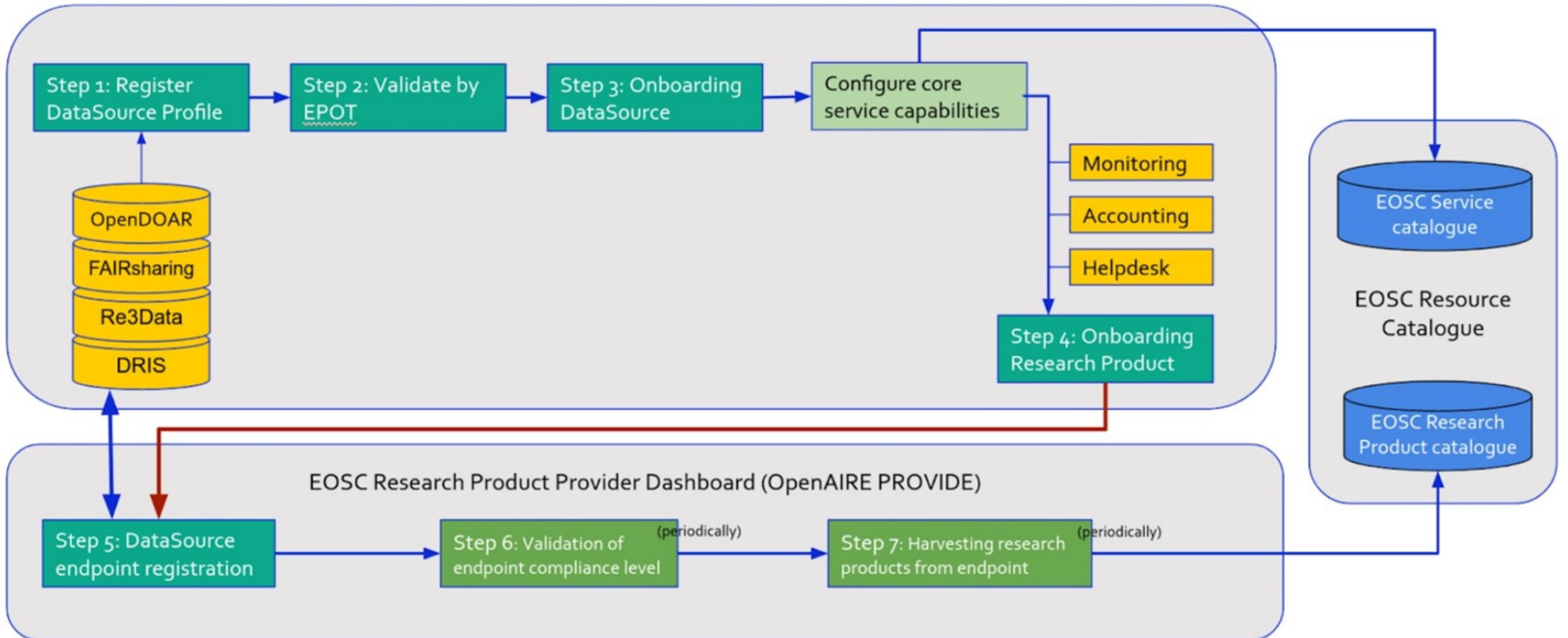
EOSC entities

- Provider
- Service
 - Data-Source
- Training/Learning Resource
- Catalogue



The screenshot displays the EOSC-PLATFORM interface. At the top, there is a logo and the text 'EOSC-PLATFORM'. Below this, a navigation bar includes 'Overview' and 'Re'. A sidebar on the left lists 'Popular repositories' with three items: 'provider-profile', 'autogenerated-resou', and 'catalogue-profile', each with an 'XSLT' icon. The main content area is titled 'Welcome to EOSC - PROFILE documentation' and contains a 'Table of Contents' section with links to 'Introduction' and 'Provider', and an 'Indices and tables' section with links to 'Index', 'Module Index', and 'Search Page'. At the bottom, there is a copyright notice: '© Copyright 2022, EOSC. Revision da5f0b21.' and a note: 'Built with Sphinx using a theme provided by Read the Docs.'

Detailed view on data-source onboarding



EOSC onboarded services

some examples



EOSC onboarded :: servi

● EGI Notebook

- Notebooks is a browser-based tool for *interactive analysis of data* using EGI storage and compute services. Notebooks are based on *JupyterHub* technology. This service can combine text, mathematics, computations and their rich media output using Jupyter technology, and can scale to multiple servers and users with the Cloud Compute service.

The screenshot shows the EGI Notebooks service page. At the top right, a red box highlights the 'HORIZONTAL SERVICE' label. Below it is the 'Access the service' button, which is blue and contains the text 'Access the service'. Underneath the button is the text 'ORDER REQUIRED'. The main content area has a header with the EGI Notebooks logo, title, and description. Below the header are navigation links for 'Webpage', 'Helpdesk', 'Helpdesk e-mail', 'Manual', and 'Training information'. A 'REVIEWS (0)' tab is visible. The main text describes the service as a browser-based tool for interactive analysis of data using EGI storage and compute services. Below the main text is a banner for 'EUROPEAN OPEN SCIENCE CLOUD' with an 'EXPLORE' button and a link to 'See Jupyter Notebook compatible with the EGI Notebooks service at EOSC'. The 'Service offers' section is highlighted with a red box and contains two cards: 'Notebooks for researchers' and 'Notebooks for communities'. The 'Notebooks for researchers' card has a red box around its 'ORDER REQUIRED' button and a technical parameter table showing 'Amount of RAM' as '1 - 4 GB'. The 'Notebooks for communities' card also has a red box around its 'ORDER REQUIRED' button and a technical parameter table. On the right side, there are sections for 'SCIENTIFIC CATEGORISATION', 'CATEGORISATION', 'UPTIME MONITORING', and 'STATISTICS'. The 'UPTIME MONITORING' section is highlighted with a red box and shows 'Availability 100.0%', 'Reliability 100.0%', and 'Status OK'. The 'STATISTICS' section shows 'Service catalog entry views: 87', 'Service visits from the Service catalog: 24', and 'Total numbers of appearances in the project: 60'.

HORIZONTAL SERVICE

EGI Notebooks

EGI Notebooks
Create interactive documents with live code, visualisations and text
Organisation: EGI Foundation
Provided by: CESNET
☆☆☆☆☆☆ (0.0 /5) 0 reviews Add to comparison Add to favourites

[Webpage](#) [Helpdesk](#) [Helpdesk e-mail](#) [Manual](#) [Training information](#) [Ask a question about this service?](#)

ABOUT DETAILS REVIEWS (0)

Notebooks is a browser-based tool for interactive analysis of data using EGI storage and compute services. Notebooks are based on JupyterHub technology. This service can combine text, mathematics, computations and their rich media output using Jupyter technology, and can scale to multiple servers and users with the Cloud Compute service. Notebooks for Researchers: After a lightweight approval, users login, write and play notebooks using storage and compute capacity. Notebooks for Communities EGI offers consultancy and technology to set up a community-specific JupyterHub on top of a community VO. Comes together with EGI-enabled compute and storage resources and with community-specific storage. For individual users: Reproducible research with notebooks (notebooks can be re-played by the same user, shared and re-played by different users), easy to hook into other big-data environments (e.g. Spark, Hadoop) or services (e.g. Cloud Compute) provided by or hosted by EGI. For groups: establish a JupyterHub for your community on top of EGI and community-specific compute and storage resources. "For individual users: Reproducible research with notebooks (notebooks can be re-played by the same user, shared and re-played by different users), easy to hook into other big-data environments (e.g. Spark, Hadoop) or services (e.g. Cloud Compute) provided by or hosted by EGI. For groups: establish a JupyterHub for your community on top of EGI and community-specific compute and storage resources"

EUROPEAN OPEN SCIENCE CLOUD **EXPLORE** See Jupyter Notebook compatible with the EGI Notebooks service at EOSC [Explore](#) (opens in a new window)

Service offers

Notebooks for researchers ORDER REQUIRED

Run your own notebooks with persistent storage on EGI Cloud resources.

TECHNICAL PARAMETERS

Amount of RAM	1 - 4 GB
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Notebooks for communities ORDER REQUIRED

Community specific deployment to provide notebooks for all the users of a community. Allows further customisation to meet the community needs (e.g. shared storage).

TECHNICAL PARAMETERS

SCIENTIFIC CATEGORISATION

Generic

- Generic
- Generic

CATEGORISATION

- Applications
- Collaboration

UPTIME MONITORING

Availability **100.0%**
Reliability **100.0%**
Status **OK**
[Show more details >](#)

STATISTICS

- Service catalog entry views: **87**
- Service visits from the Service catalog: **24**
- Total numbers of appearances in the project: **60**

EOSC onboarded :: servi

● EGI Notebook

- Notebooks is a browser-based tool for *interactive analysis of data* using EGI storage and compute services. Notebooks are based on *JupyterHub* technology. This service can combine text, mathematics, computations and their rich media output using Jupyter technology, and can scale to multiple servers and users with the Cloud Compute service.


The screenshot shows the EGI Notebooks service page on the EOSC marketplace portal. The page is titled "EGI Notebooks" and features a blue icon of a notebook with a code symbol. The main description states: "Create interactive documents with live code, visualisations and text". It lists the organization as "EGI Foundation" and the provider as "CESNET". The service has a rating of 0.0/5 with 0 reviews and options to "Add to comparison" and "Add to favourites". A blue button labeled "Access the service" is present, with a note "ORDER REQUIRED" below it. Navigation links include "Webpage", "Helpdesk", "Helpdesk e-mail", "Manual", and "Training information". A link to "Ask a question about this service?" is also visible. The page is divided into sections: "ABOUT", "DETAILS", and "REVIEWS (0)". The "DETAILS" section is expanded, showing various categories: "Classification" (Research Steps, Target Users, Access Types, Access Modes, Tags), "Public Contacts" (support@egi.eu), "Maturity Information" (TRL: 9 - ACTUAL SYSTEM PROVEN IN OPERATIONAL ENVIRONMENT, Life Cycle Status: Production, Certifications: ISO/IEC 20000-1, Version: 1.0, Last Update: 2018-10-24), "Availability" (Geographical Availabilities: World, Languages: English), "Marketing" (MathWorks, D4Science), and "Management" (Helpdesk, Manual, Terms of use, Privacy policy, Training information). A red rounded rectangle highlights the "Maturity Information" section.

<https://marketplace.eosc-portal.eu/services/eosc.egi-fed.notebook>

EOSC onboarded :: service

- Language Resource Switchboard


- A **web application** that **suggests language analysis tools for specific data sets**. It provides access to tools for Sentence level analysis (Constituency Parsing - Dependency Parsing - Shallow Parsing), Word level analysis (Lemmatization - Morphological Analysis - Named Entity Recognition - Part-Of-Speech Tagging), Semantic analysis (Coreference Resolution - Sentiment Analysis - Text Summarization), Digital Humanities analysis (Distant Reading - Named Entity Linking - Stylometry - Topic modelling) and Speech Recognition. The Language Resource Switchboard (<https://switchboard.clarin.eu>) will automatically provide a list of available tools, based on the language and format of the input. The Switchboard can also be invoked from the Virtual Language Observatory (<https://vlo.clarin.eu>) and B2DROP (see Suggested compatible services below).



Language Resource Switchboard

Similar services


Machine Translation



A free translation service for personal and non-commercial use

Organisation: LINDAT/CLARIAH-CZ Res... Dedicated for: Students, Businesses,...


Virtual Collection Registry



A service that allows researchers to create their own citable digital bookmarks.

Organisation: European Research Inf... Dedicated for: Businesses,...


MorphoDiTa



Morphological Dictionary and Tagger

Organisation: LINDAT/CLARIAH-CZ Res... Dedicated for: Students, Businesses,...

Open Knowledge Maps




A visual interface to the world's scientific knowledge

Organisation: Open Knowledge Maps ~... Dedicated for: Businesses,...

Suggested compatible services


EGI Cloud Compute



Run virtual machines on-demand with complete control over computing resources

Organisation: EGI Foundation Dedicated for: Businesses,...


B2FIND



Find research data, research data portal

Organisation: EUDAT Dedicated for: Researchers, Research,...


Virtual Language Observatory



A facet browser for fast navigation and searching in huge amounts of metadata.

Organisation: European Research Inf... Dedicated for: Researchers


B2DROP



Synch and share research data

Organisation: EUDAT Dedicated for: Research Managers,...


B2SHARE



Store and publish research data

Organisation: EUDAT Dedicated for: Research Infrastructure,...

Virtual Collection Registry



A service that allows researchers to create their own citable digital bookmarks.

Organisation: European Research Inf... Dedicated for: Businesses,...

EOSC onboarded :: statistics

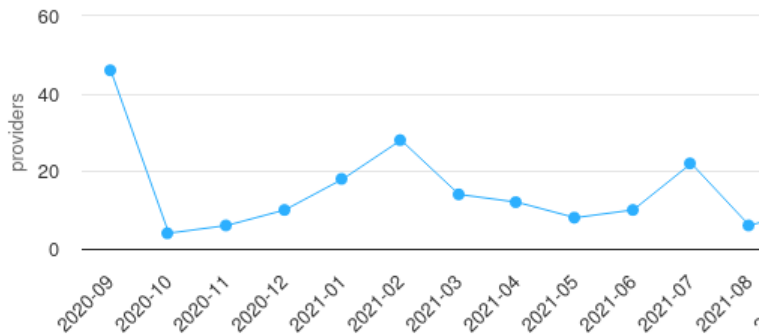
- **298 Providers**, eg. AWI, IFremer, ELIXIR, GBIF, Bielefeld University Library, de.NBI - German Network for Bioinformatics Infrastructure
- **533 Services**, eg. OpenAIRE UsageCounts, B2DROP, OpenAPC, BASE
- **35 Data Sources**, eg. ESCAPE/OSSR, ZENODO, Publications at Bielefeld University (PUB)
- **21 Training resources**, eg. License Clearance Tool, DREAMM
- **4 external catalogues**, eg. EOSC Nordic, NI4OS

EOSC onboarded ::

Providers Statistics

General Classification Availability

Onboarded per month

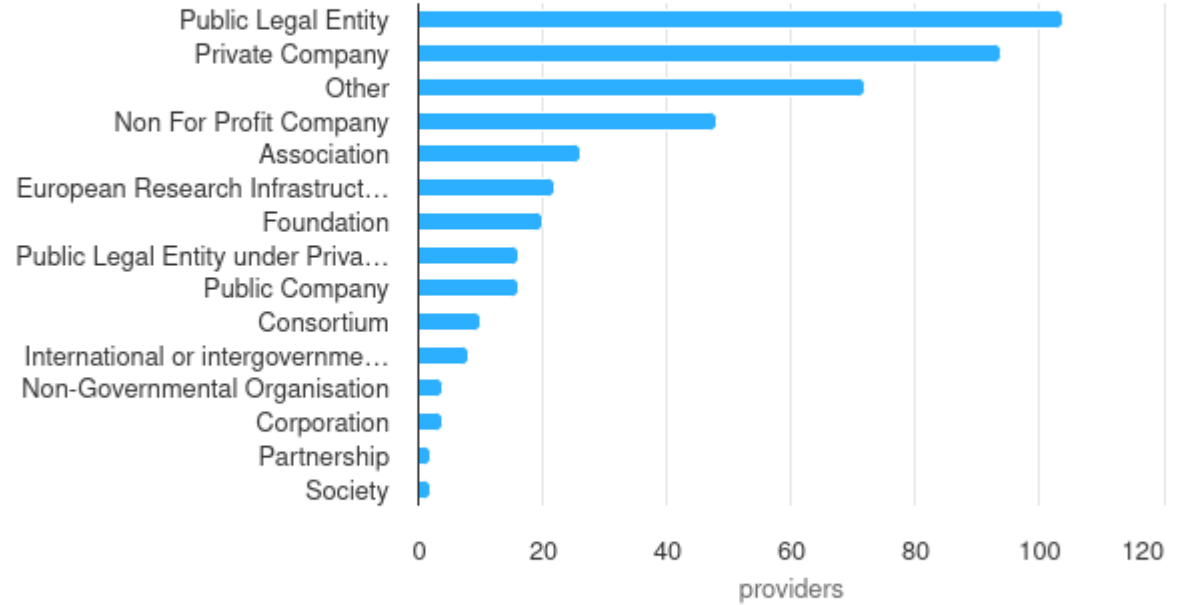


Areas of activity

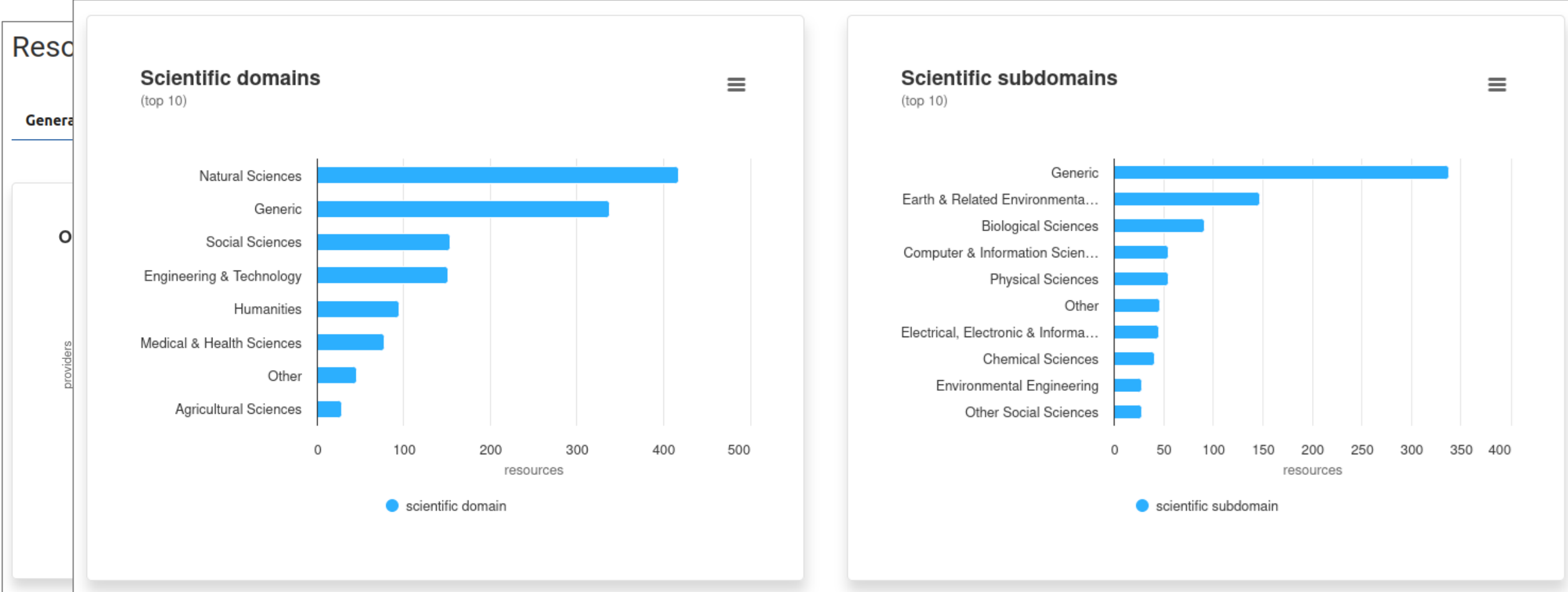
(top 10)

Legal status

(top 10)



EOSC onboarded :: Resources



EOSC onboarded resources from UNIBI

- BASE

Bielefeld Academic Search Engine (BASE) HORIZONTAL SERVICE
BASE() Academic Search Engine
Organisation: Bielefeld University Library
☆☆☆☆☆ (0.0 / 5) 0 reviews Add to collection
→ Webpage → Helpdesk → Helpdesk e-mail [Access the service](#)

- OpenAPC

OpenAPC HORIZONTAL SERVICE
OpenAPC
OpenAPC collects and disseminates datasets on fees paid for open access publishing.
Organisation: OpenAIRE
Provided by: Bielefeld University Library
☆☆☆☆☆ (0.0 / 5) 0 reviews Add to comparison Add to favourites
→ Webpage → Helpdesk e-mail [Access the service](#)
FULLY OPEN ACCESS
[Ask a question about this service?](#)

- Publications at Bielefeld University (PUB)

Publications at Bielefeld University HORIZONTAL SERVICE
UNIVERSITÄT BIELEFELD
PUB
PUB - Publications at Bielefeld University
Organisation: Bielefeld University Library
→ Webpage → Helpdesk → Helpdesk e-mail → User Manual [Access the service](#)
ABOUT DETAILS
OPEN ACCESS

- de.NBI Cloud: Cloud Computing for Life Sciences

de.NBI Cloud: Cloud Computing for Life Sciences HORIZONTAL SERVICE
de.NBI Cloud
Compute Power for your Project
Organisation: de.NBI - German Network for Bioinformatics Infrastructure
☆☆☆☆☆ (0.0 / 5) 0 reviews Add to comparison Add to favourites
→ Webpage → Helpdesk e-mail → Manual → Training information [Access the service](#)
OPEN ACCESS
[Ask a question about this service?](#)

- ...?

Conclusion

- Single entry point to services, data-sets, publications, training resources, ...
- Large community base and expanding
- open-up easily cross-/interdisciplinary research
- Used for innovations, research and education, ...



Thank you for your attention
Vielen Dank für Ihre/Eure
Aufmerksamkeit

und seid FAIR.