EOSC Projects: INFRAEOSC-07 projects &
EGI Advanced Computing for EOSC (EGI-ACE)

Gergely Sipos
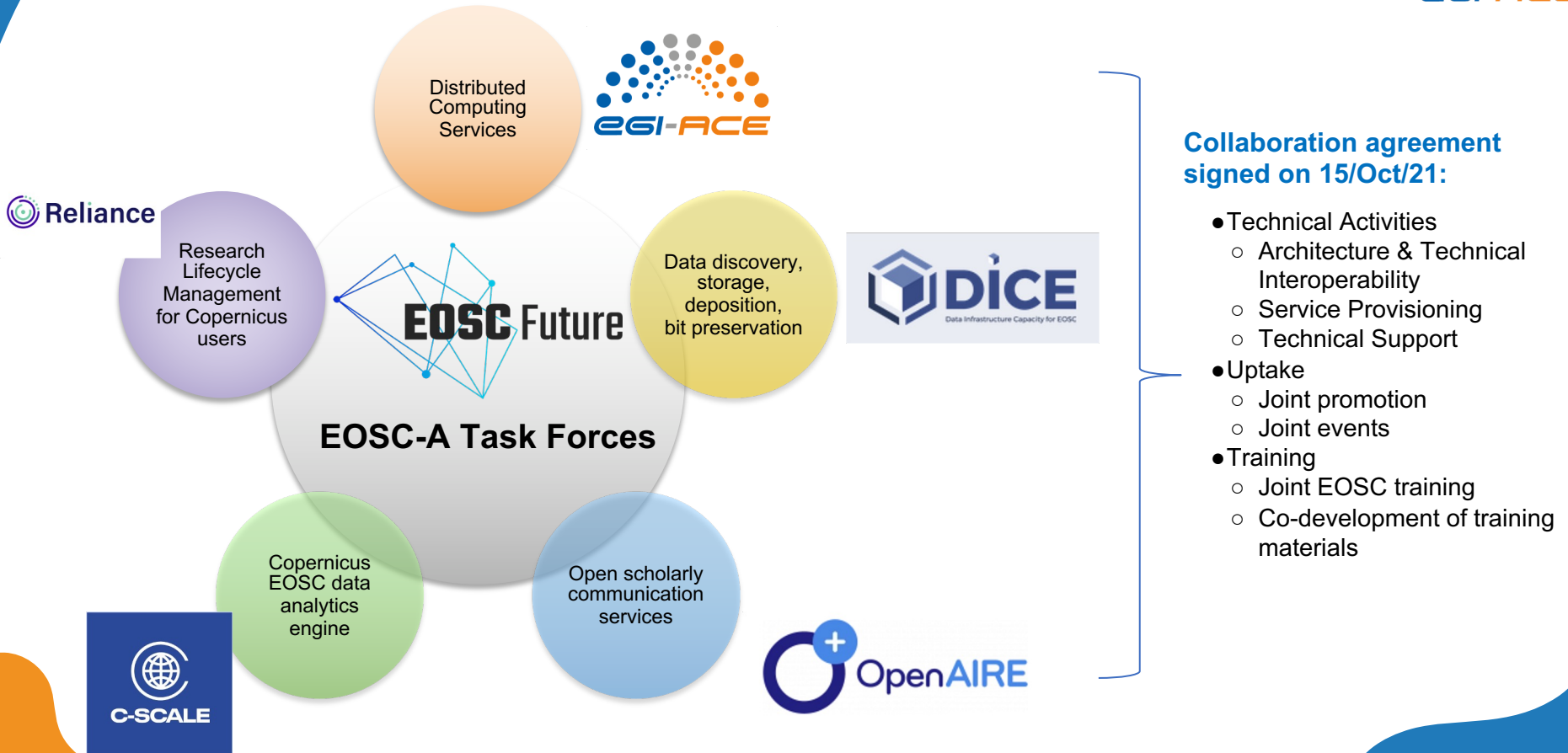*Head of Services, Solutions, Support @ EGI Foundation*
EGI-ACE Project Technical Coordinator
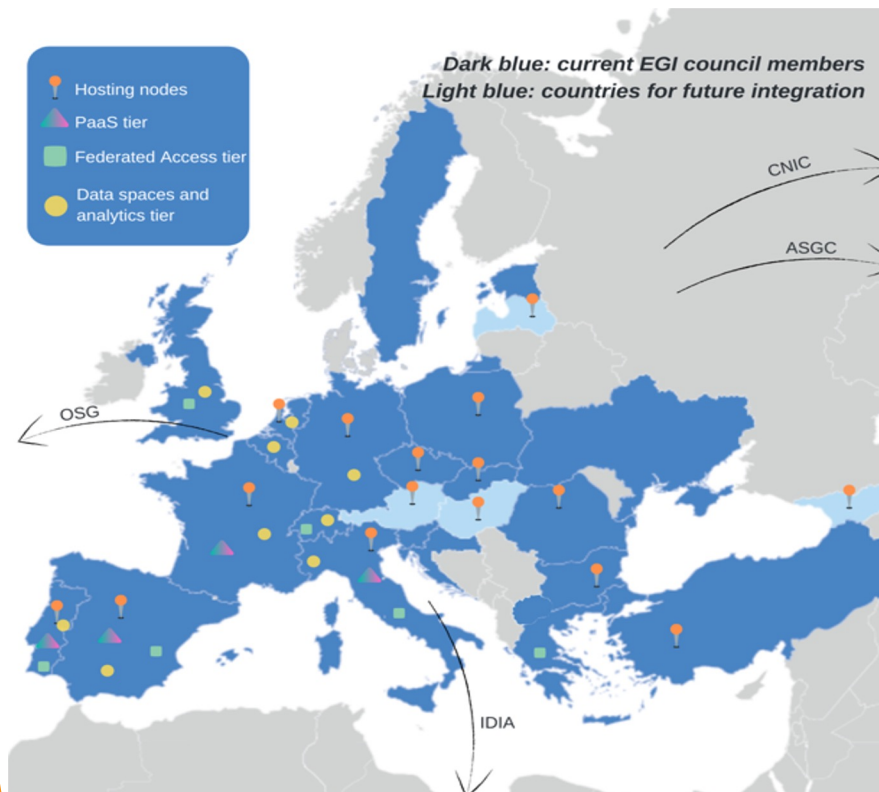
IBERGRID 2022, Faro, 10-10-2022

EOSC Capacity Building projects (INFRAEOSC-07)

Distributed Computing Services

Research Lifecycle Management for Copernicus users

Data discovery, storage, deposition, bit preservation

EOSC Future

EOSC-A Task Forces

Copernicus EOSC data analytics engine

Open scholarly communication services

Collaboration agreement signed on 15/Oct/21:

- ●Technical Activities
  - ○ Architecture & Technical Interoperability
  - ○ Service Provisioning
  - ○ Technical Support
- ●Uptake
  - ○ Joint promotion
  - ○ Joint events
- ●Training
  - ○ Joint EOSC training
  - ○ Co-development of training materials

EGI-ACE facts

Dark blue: current EGI council members
Light blue: countries for future integration

Legend:
- Hosting nodes
- PaaS tier
- Federated Access tier
- Data spaces and analytics tier

CNIC
ASGC
OSG
IDIA

Consortium:
- 33 Partners, 23 third parties
- EGI council members + RIs (~ERICs)

Scope:

- **49% service delivery (Virtual Access)**
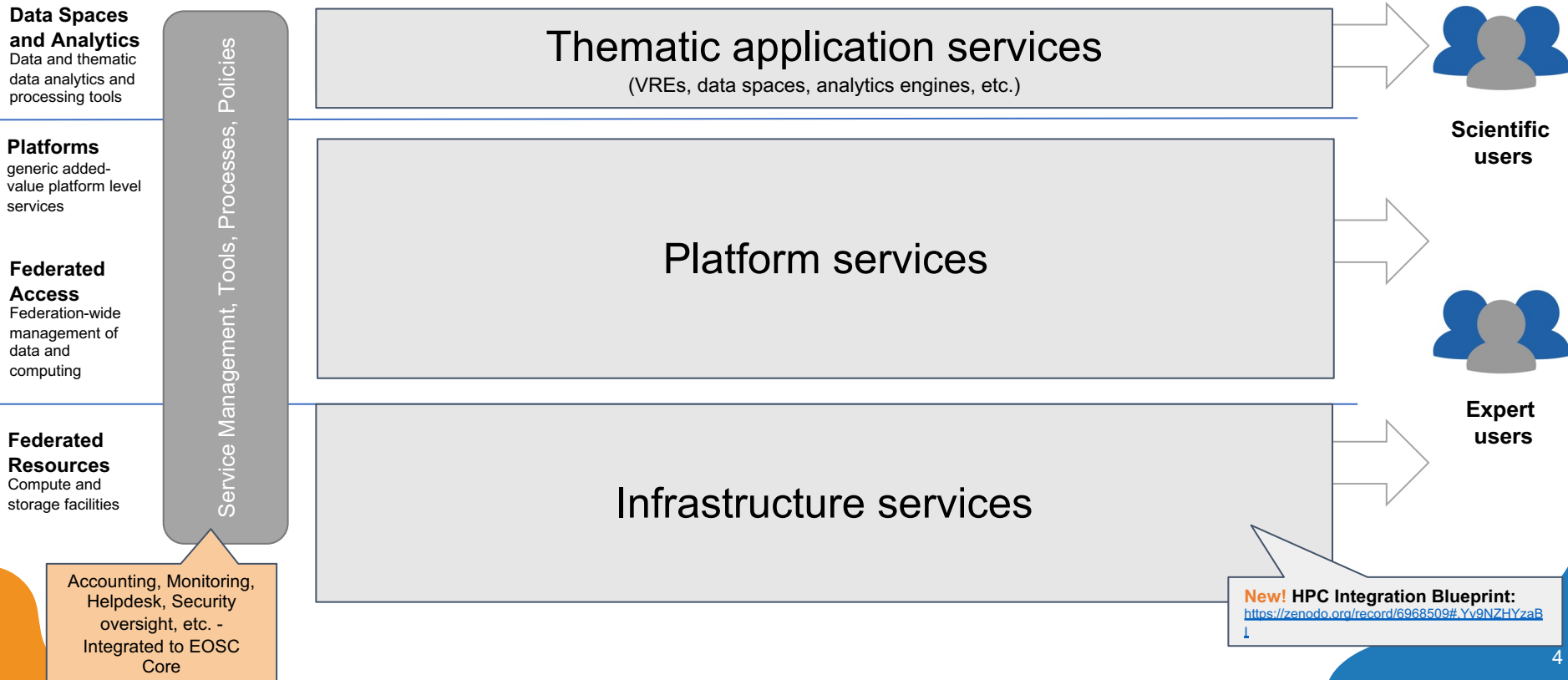- Co-development of 'thematic services'
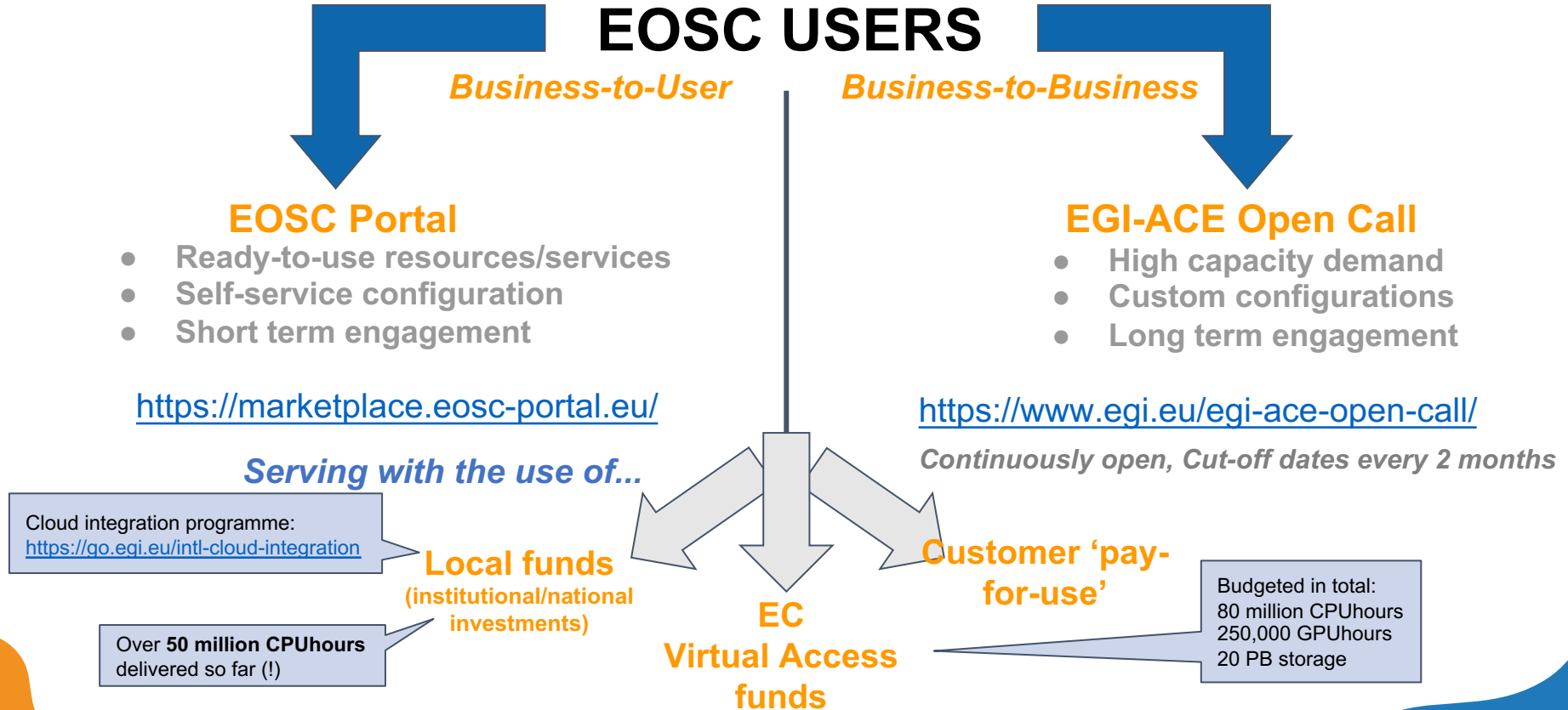
Duration:

- Jan 2021 - June 2023 (30 months)

Partners from IBERGRID:

- CSIC: Cloud Compute, DEEP ML/AI services

- INCD & LIP: Cloud compute service

- LNEC: OPENCoastS_PLUS service

Services for compute-intensive open science

Data Spaces and Analytics
Data and thematic data analytics and processing tools

Platforms
generic added-value platform level services

Federated Access
Federation-wide management of data and computing

Federated Resources
Compute and storage facilities

Service Management, Tools, Processes, Policies

Thematic application services
(VREs, data spaces, analytics engines, etc.)

Platform services

Infrastructure services

Scientific users

Expert users

Accounting, Monitoring, Helpdesk, Security oversight, etc. - Integrated to EOSC Core

New! **HPC Integration Blueprint:**
https://zenodo.org/record/6968509#.Yv9NZHYzaB1

Sustainable Open Science environments

EOSC USERS

Business-to-User   **Business-to-Business**

EOSC Portal
- **Ready-to-use resources/services**
- **Self-service configuration**
- **Short term engagement**

https://marketplace.eosc-portal.eu/

EGI-ACE Open Call
- **High capacity demand**
- **Custom configurations**
- **Long term engagement**

https://www.egi.eu/egi-ace-open-call/

Continuously open, Cut-off dates every 2 months

Serving with the use of...

Cloud integration programme:
https://go.egi.eu/intl-cloud-integration

Local funds
(institutional/national investments)

Over **50 million CPUhours** delivered so far (!)

EC Virtual Access funds

Customer 'pay-for-use'

Budgeted in total:
80 million CPUhours
250,000 GPUhours
20 PB storage

Our vision for computing in EOSC

ational research infrastructures and projects

emso ERIC — LifeWatch ERIC — EPOS EUROPEAN PLATE OBSERVING SYSTEM — eliXir — CLARIN — E-RIHS EUROPEAN RESEARCH INFRASTRUCTURE FOR HERITAGE SCIENCE …

PORTUGUESE ROADMAP OF RESEARCH INFRASTRUCTURES – 2020 Update

FCT – Fundação para a Ciência e a Tecnologia

eosc — **Resource brokering** and **access support**

Service Level Agreement

egi-ACE — **Technical federation** Identity portability + Data portability + Application portability

Operation Level Agreement

Aligned science and compute priorities

egi — EuroHPC Joint Undertaking — EOSC Future — **National and international compute infrastructures**

Thank you!

Contact: **egi-ace-po@mailman.egi.eu**
Website: **www.egi.eu/projects/egi-ace**

EGI Foundation

@EGI_eInfra

Thematic applications and application services
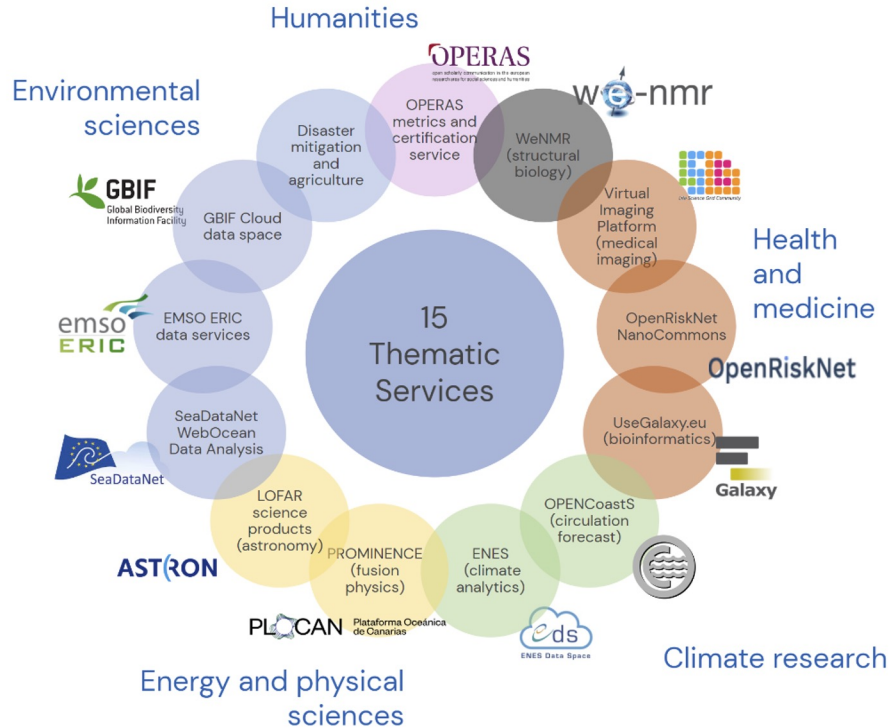
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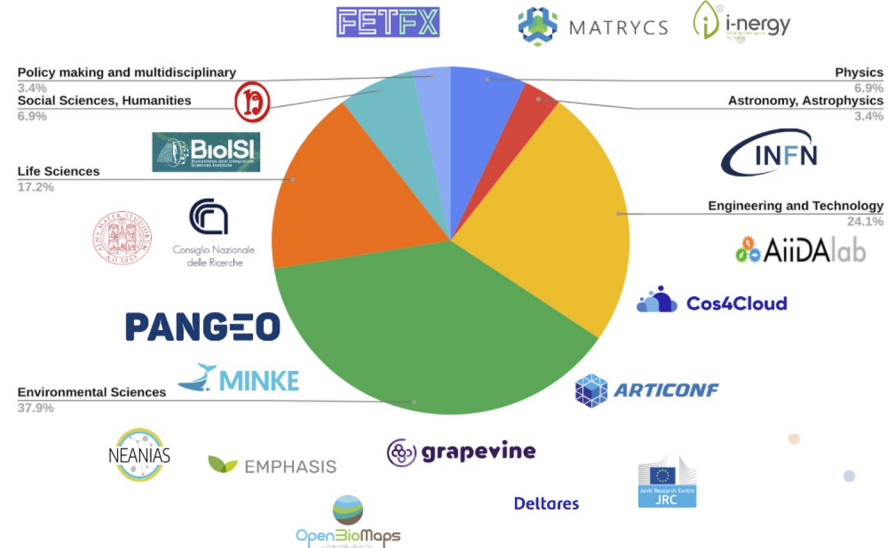
External users

Scalable, distributed user support

Intense support period

1. Assessment of the technical requirements
2. Shepherd and Capacity Allocation
3. Launch of the Competence Centre
4. Start co-design activities
5. Validation of results
6. On-boarding in EOSC

EUROPEAN OPEN SCIENCE CLOUD

eGI-ACE
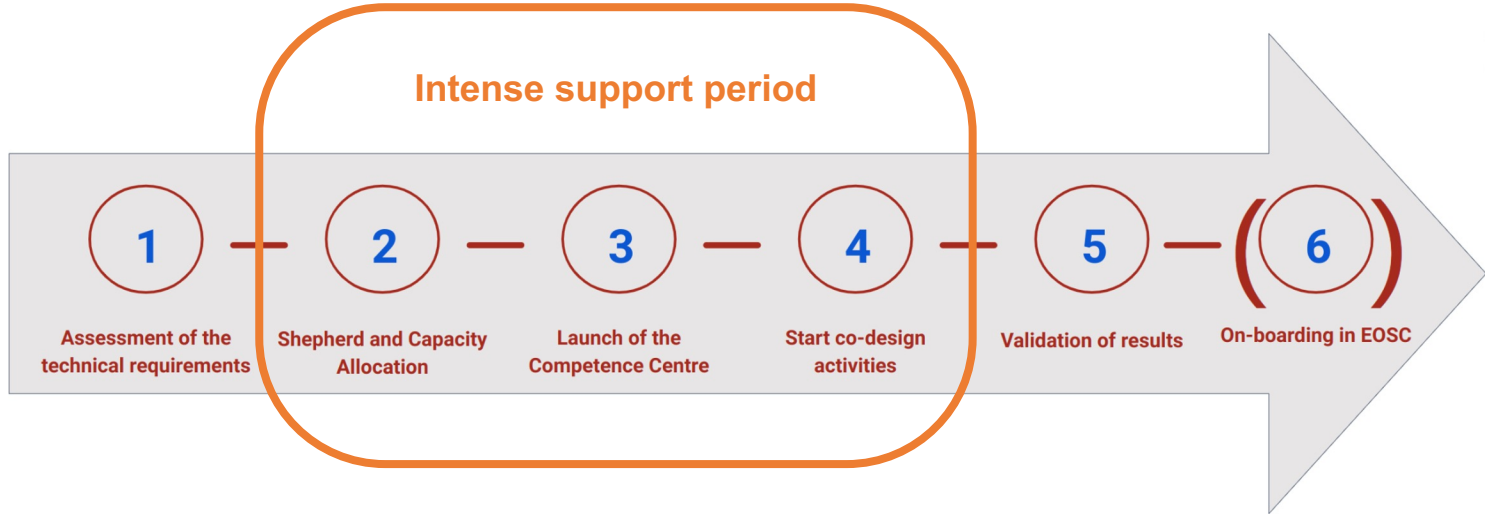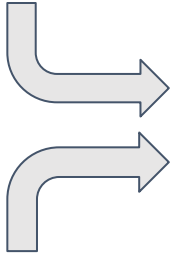
Open Call

Shepherds and Competence Centres
- Scalable and distributed structure
- Brings the right expertise for each use case
  - Service and resource providers
  - Technical experts, and
  - Observer parties