EOSC-hub Contribution to the EOSC WGs
Tallinn, TNC 2019

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Dissemination level: Public
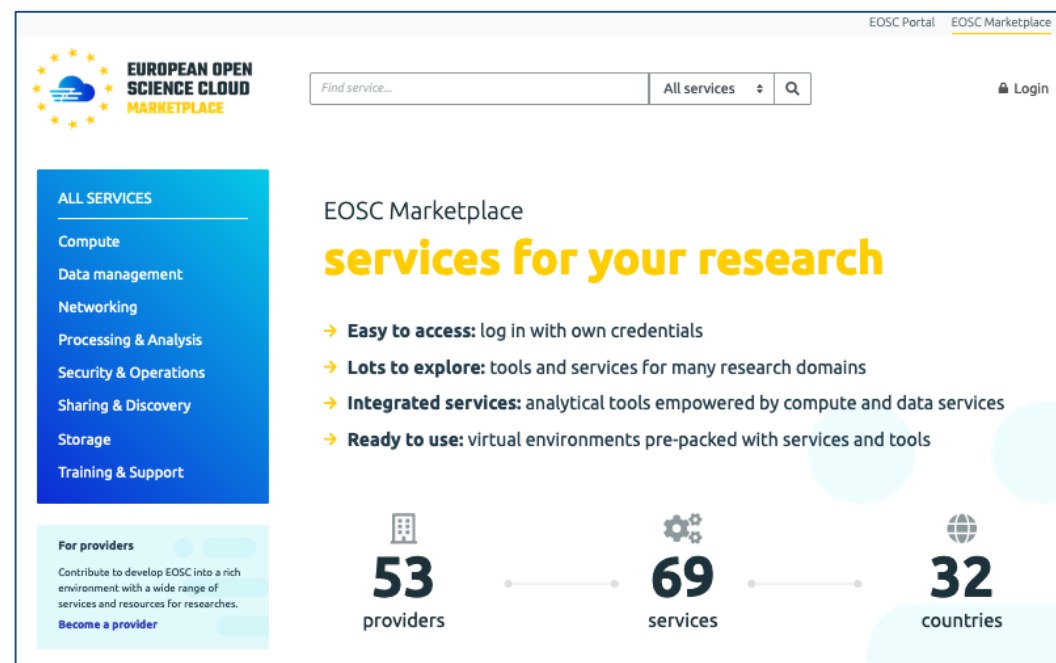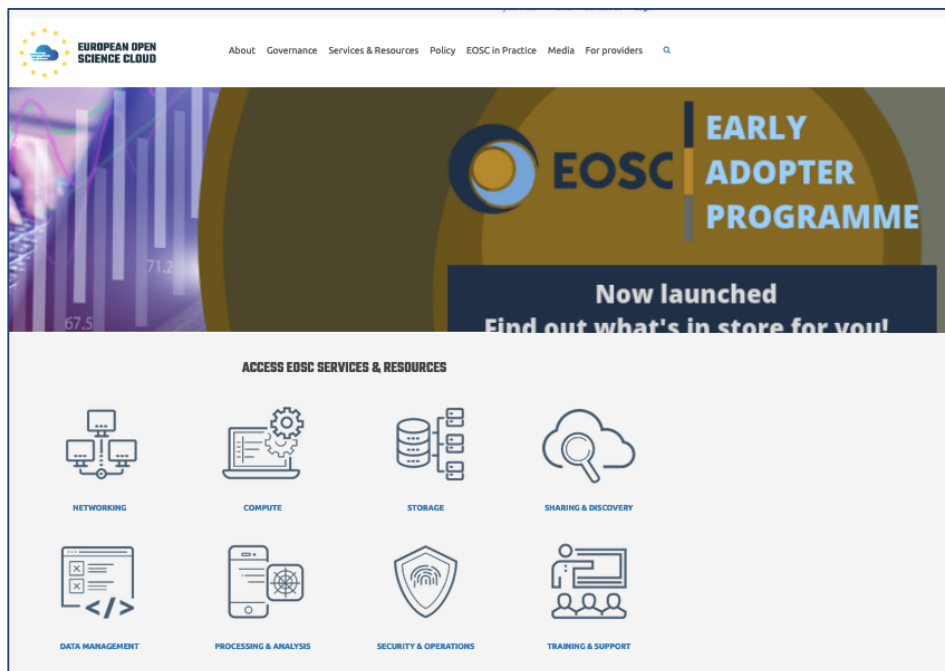
EOSC-hub input to

Architecture
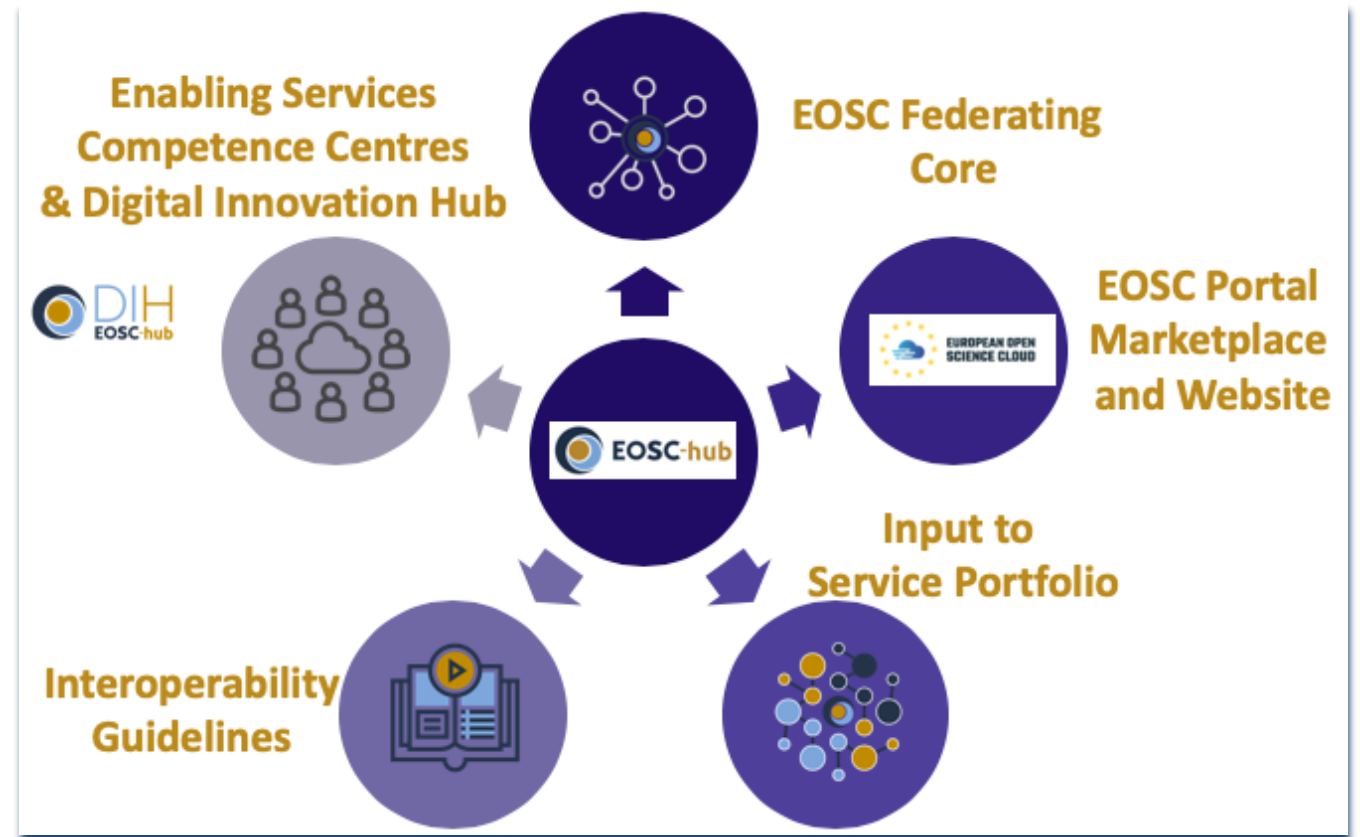
- **Services of the EOSC federating infrastructure** that provide the frame through which the research-facing services can be integrated into EOSC, including
  - EOSC Portal website and its Marketplace
  - Federated AAI
  - Monitoring
  - Accounting
  - Helpdesk
  - D4.2 Operational Infrastructure Roadmap

Architecture 2/EOSC Portal Website & Marketplace

The EOSC Hub Marketplace exposes the EOSC Service Portfolio, and allows researchers to browse, order & access and in the future track usage of services through the EOSC Portal

- To date 67 services have been integrated to the marketplace. EOSC-hub delivers the operational processes and human network necessary to onboard new services.

Architecture 3/EOSC Service Portfolio

4

Access, Deposition & Sharing

- Application DB (software & VM)
- B2DROP (data)
- B2Note (data)
- B2SHARE (data)
- DataHub

1

Data Management, Curation & Preservation

- B2HANDLE
- B2SAFE
- European Certified Trusted Repository

Access enabling Services

- Federated AAI. monitoring, accounting
- SLA and order Management
- Security incident response and policies
- Technical support & Training

Discover & Reuse

- B2FIND (data)
- Marketplace (Services)

3

2

Processing & Analysis

- Applications on Demand
- Federated HTC & Cloud Compute IaaS & PaaS
- Processing of sensitive data
- Jupyter Notebook

- Thematic data analytics
- Scientific Workflow Management, Orchestration (DIRAC, PaaS Orchestrator)

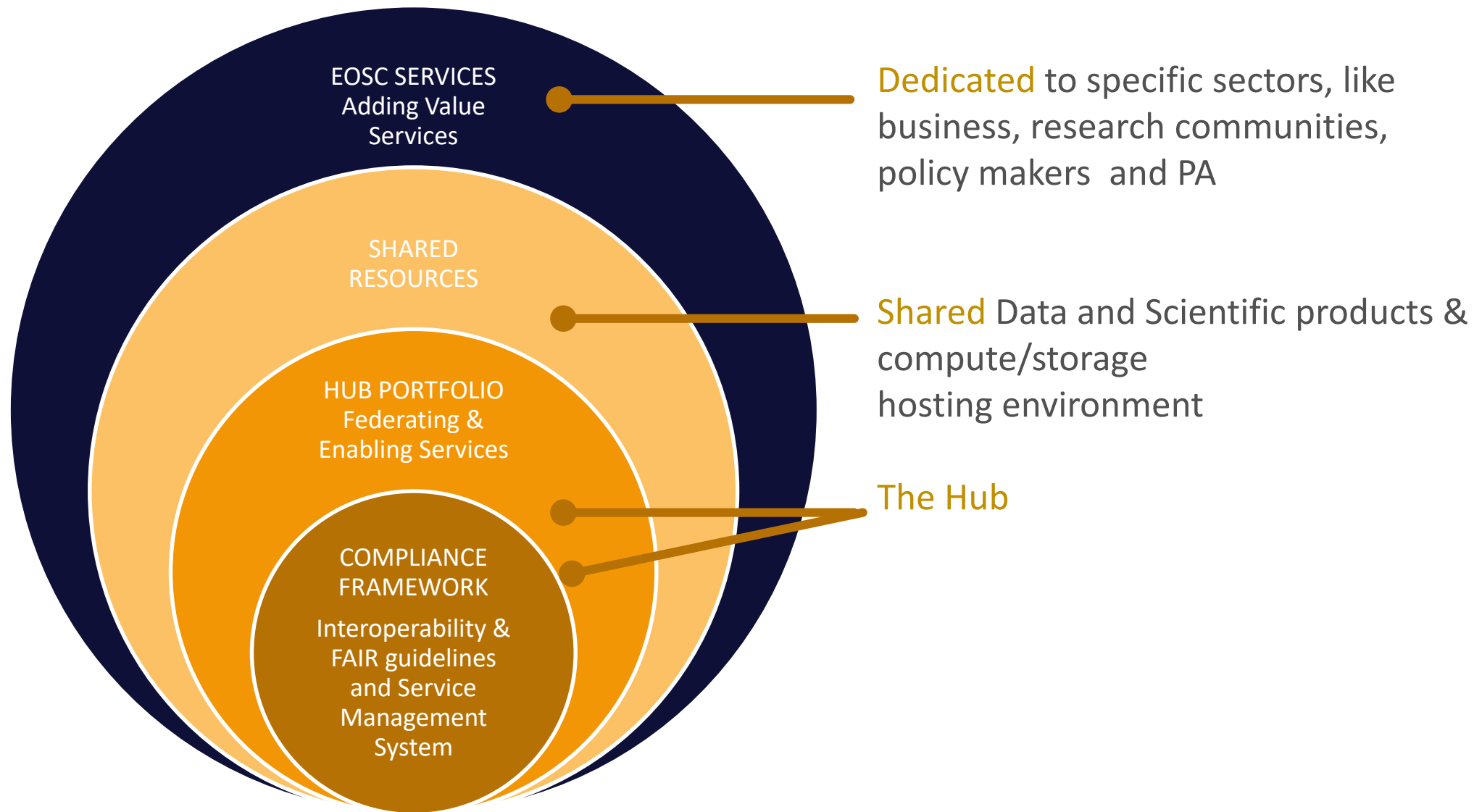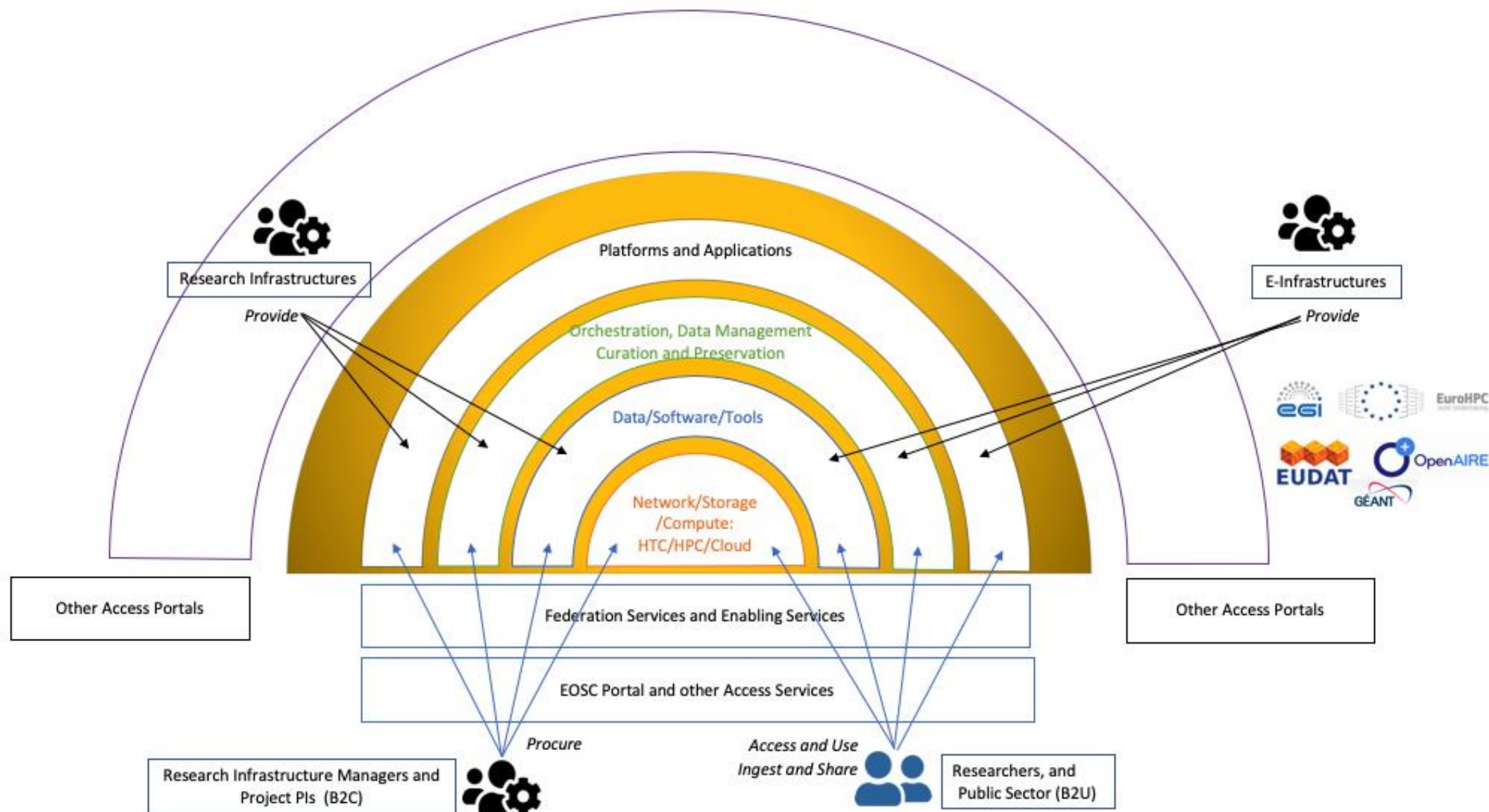# Architecture 4/Interoperability Guidelines

- Accounting record standard and exchange guidelines

- Incident record management and monitoring information

- Service description metadata

    - ➜ A joint effort with eInfraCentral and OpenAIRE!

- Technical interoperability guidelines for generic and thematic services

- Federated service management guidelines: EOSC-hub defines and operates the EOSC Service Management System that follows the FitSM standard

Cross-project technical workshop in June 2019!

EOSC From Design…

Dedicated to specific sectors, like business, research communities, policy makers and PA

Shared Data and Scientific products & compute/storage hosting environment

The Hub

EOSC SERVICES
Adding Value Services

SHARED RESOURCES

HUB PORTFOLIO
Federating & Enabling Services

COMPLIANCE FRAMEWORK

Interoperability & FAIR guidelines and Service Management System
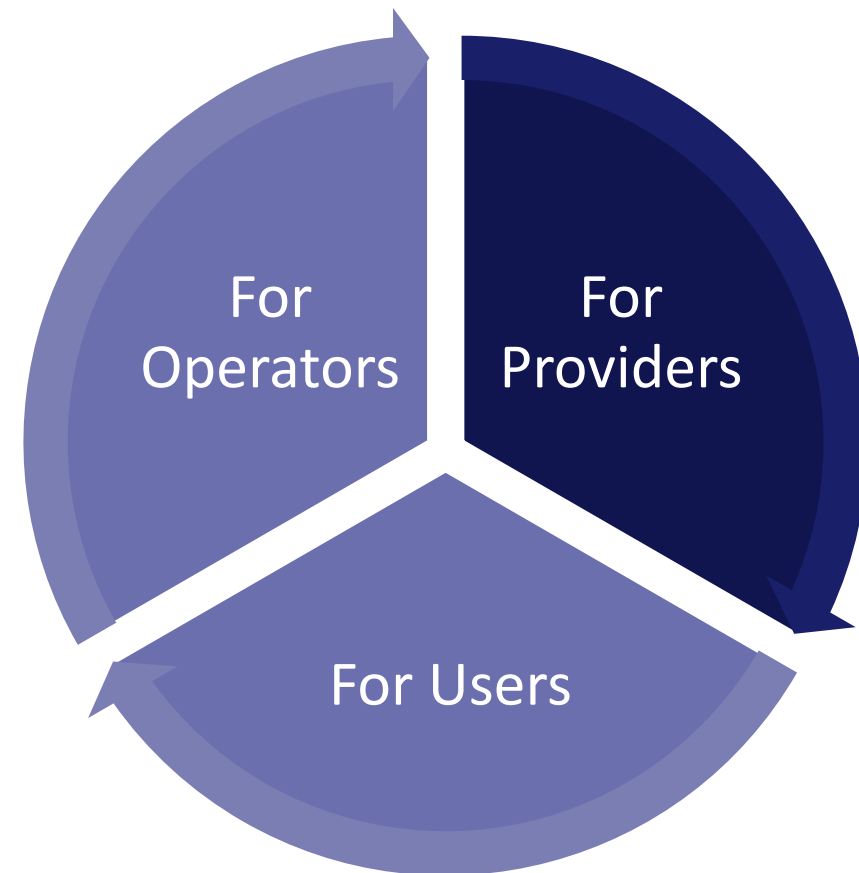
To implementation

EOSC-hub input to

Rules of Participation
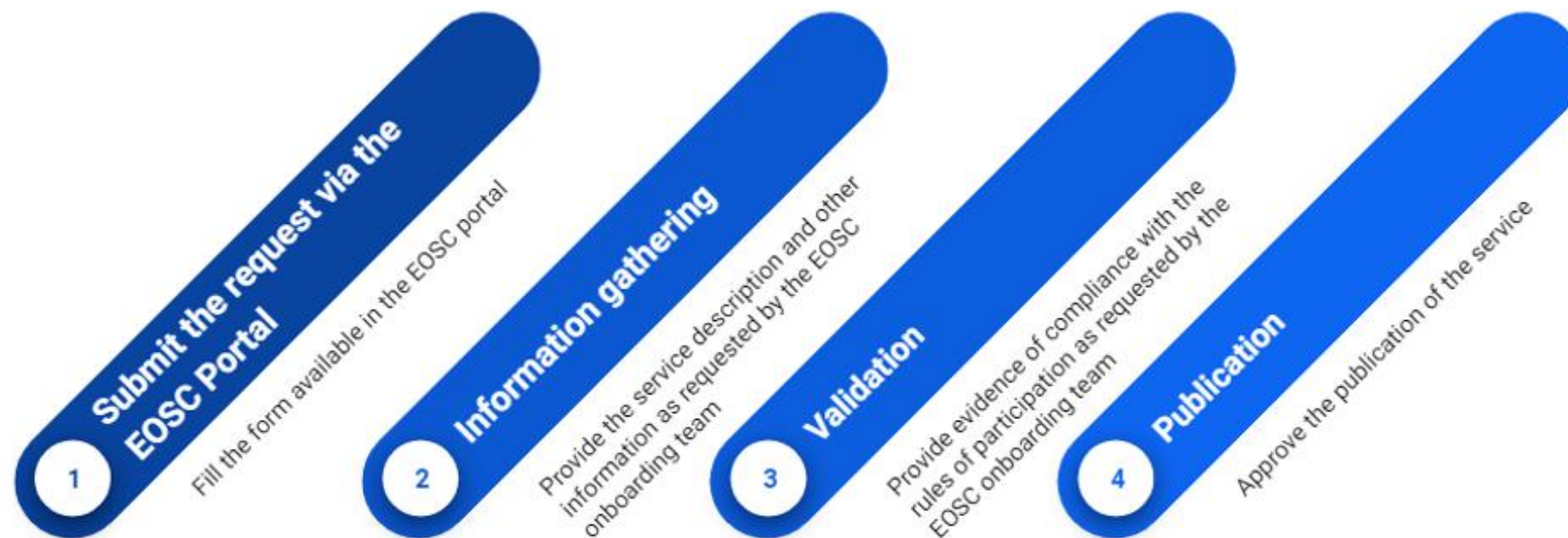
Rules for Participation
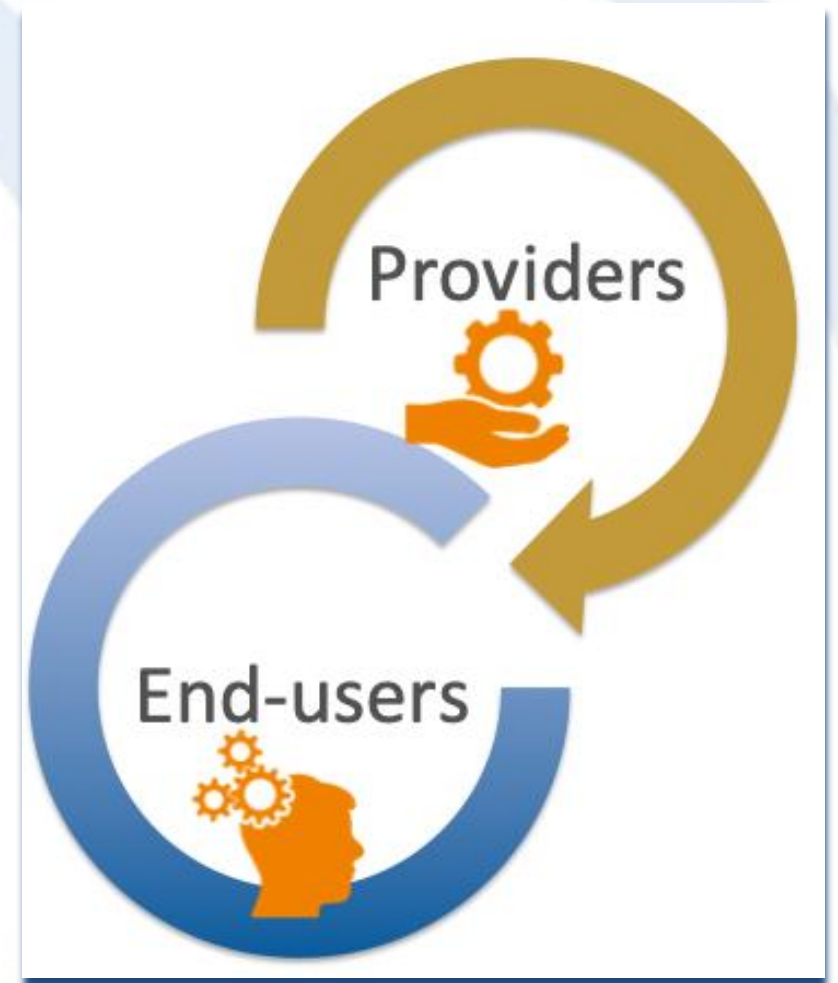
- Guidelines for publishing TRL 8 and 9 services into the EOSC service portfolio.
    - [Service Provider Documentation](#)
- Security and service management policies, among which leveraging outputs of WISE
    - [Acceptable Use Policy and Conditions of Use](#)
    - [Security Policy](#)
    - [Service Operations Security Policy](#)
    - [D4.1 Operational Requirements for the Services in the Catalogue](#)
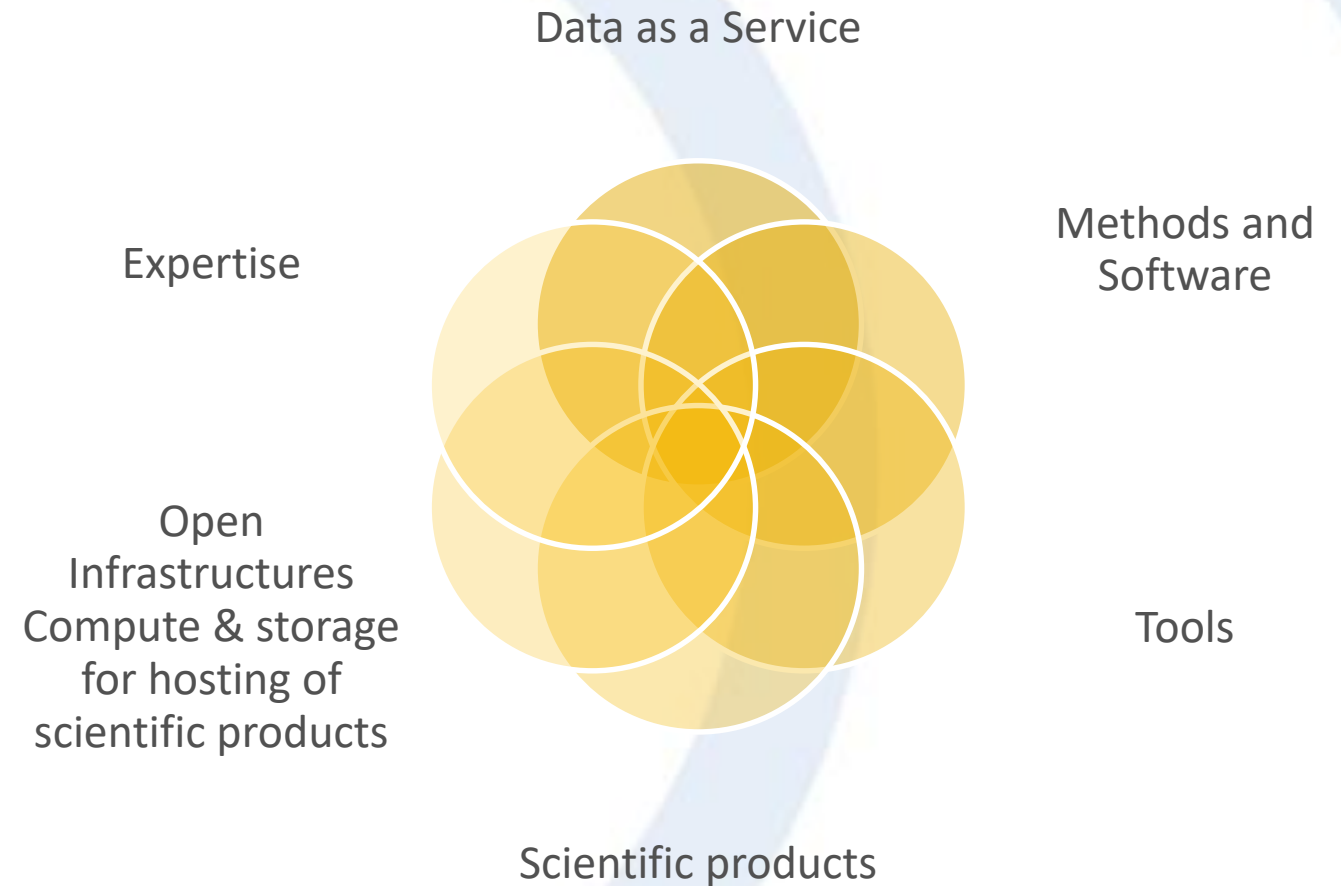   - [D2.8 First Data Policy Recommendations](#)

For Operators

For Providers

For Users

Operational structures for service onboarding

1. **Submit the request via the EOSC Portal** — Fill the form available in the EOSC portal
2. **Information gathering** — Provide the service description and other information as requested by the EOSC onboarding team
3. **Validation** — Provide evidence of compliance with the rules of participation as requested by the EOSC onboarding team
4. **Publication** — Approve the publication of the service

EOSC-hub input to

Sustainability

Data as a Service

Expertise

Methods and Software

Open Infrastructures Compute & storage for hosting of scientific products

Tools

Scientific products

B2U and B2C requirements

- EOSC Tiered Partnership

  - EOSC portal concept 2.0 with

- Analysis of procurement requirements

  - Demand assessment, buying schedule of selected organisations

- Definition of business models suitable for the selected scenarios with identification of the related funding and payment schemes

- Collaboration with OCRE for procurement cloud and EO services

  - Vouchers for end-users and platform operators

  - EOSC-hub buyer group needs and opportunities

- A Roadmap for organising, governing and sustaining the provision of the EOSC Hub services to European Researchers in the context of EOSC

EOSC-hub input to

FAIR

B2FIND and B2HANDLE

- B2FIND is the EUDAT metadata service and provides a discovery portal which allows users to find data collections within an international and inter-disciplinary scope. It is based on a comprehensive metadata catalogue of research data collections stored in EUDAT data centres and other repositories (find out more)

- B2HANDLE is a EUDAT distributed service for storing, managing and accessing persistent identifiers (PIDs) and essential metadata (PID records) as well as managing PID namespaces. The implementation of the service relies on the DONA/Handle persistent identifier solution (find out more)

- EOSC Portal Website, Marketplace and service provider onboarding
- Portfolios
  - Hub Portfolio
  - EOSC Service Portfolio
  - Enabling and integration activities
- Business plans and roadmaps on service sustainability
- The Hub Service Management System

- Rules of Participation
  - For Users, for Providers and for Operators
- Technical Interoperability Guidelines
- Digital Innovation Hub
- Competence Centres
- Knowledge Management & Training
- Procurement

Thank you
for your attention!

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Questions?

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