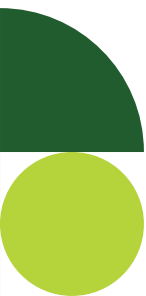


EOOSC.ie update

Designing the European Open Science Cloud (EOSC) Node
for Ireland

23 June 2026



EOSC.IE

Project team

Asiera
Formerly known as HEAnet & EduCampus

T DUBLIN
Ollscoil Teicneolaíochta Bhaile Átha Cliath
TECHNOLOGICAL UNIVERSITY DUBLIN

DCU



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

ICHEC
Irish Centre for High-end Computing

dri
Digital Repository of Ireland
Taisclann Dhigiteach na hÉireann

DIAS
Institiúid Ard-Léinn | Dublin Institute for
Bhaile Átha Cliath | Advanced Studies

SE TU
Ollscoil Teicneolaíochta an Oirdheiscirt
South East Technological University

UNIVERSITY OF LIMERICK
OLLSCOIL LUIMNIGH

RCSI
ROYAL COLLEGE OF SURGEONS IN IRELAND

elixir
IRELAND



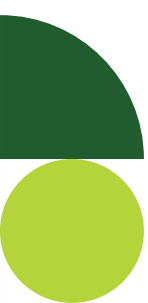
01 **Recap of EOSC**

02 **The journey
towards EOSC.IE**

03 **Learning from
other nodes**

04 **Project WP
updates**

Agenda





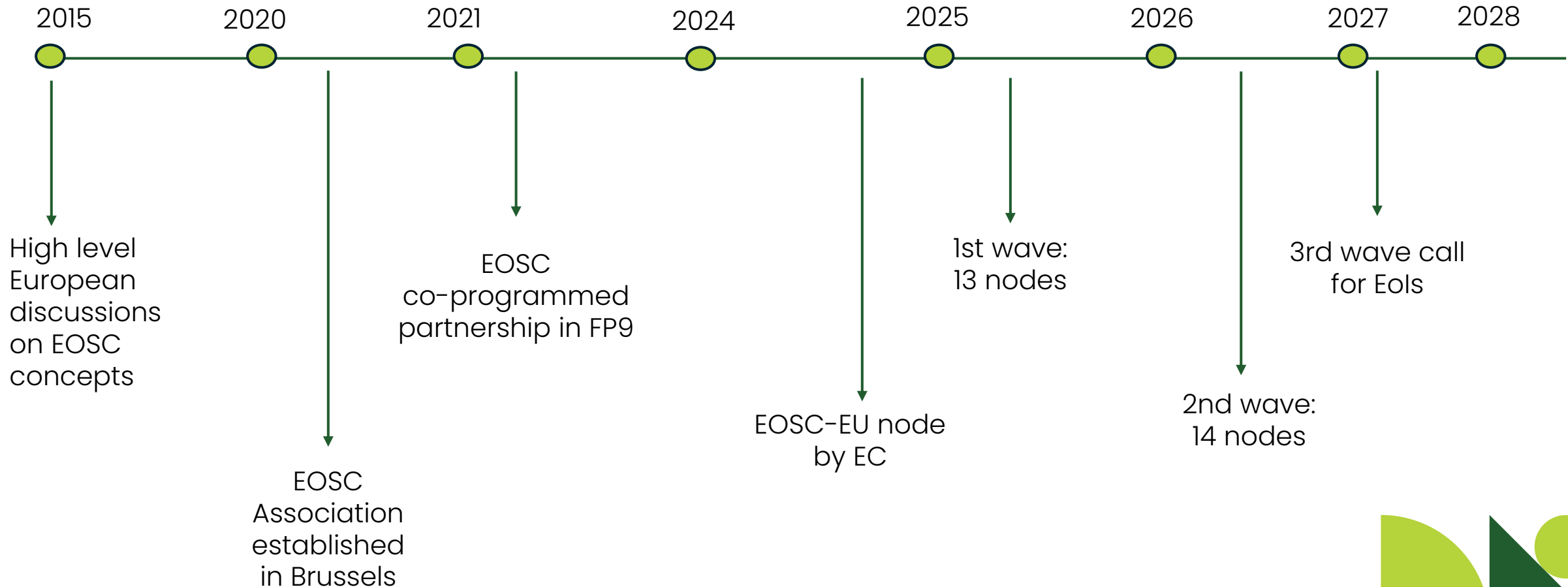
EOSC as a Federation of nodes

- **National**
- **Thematic**
- **e-Infrastructure**

electronic Infrastructure, comprising a set of ICT based resources (e. g. networks, grids, data centres, collaborative environments) and support operations (e. g. operation centres, service registries, credential delegation services, certificate authorities, training, help-desk services) intended to address the needs of researchers for digital services in terms of networking, computing and data management and facilitating the collaboration among research communities by sharing resources, analysis tools and data. Examples of EU-funded e-infrastructures are GÉANT, EGI and EUDAT (Source: EC)



EOSC Federation build-up timeline

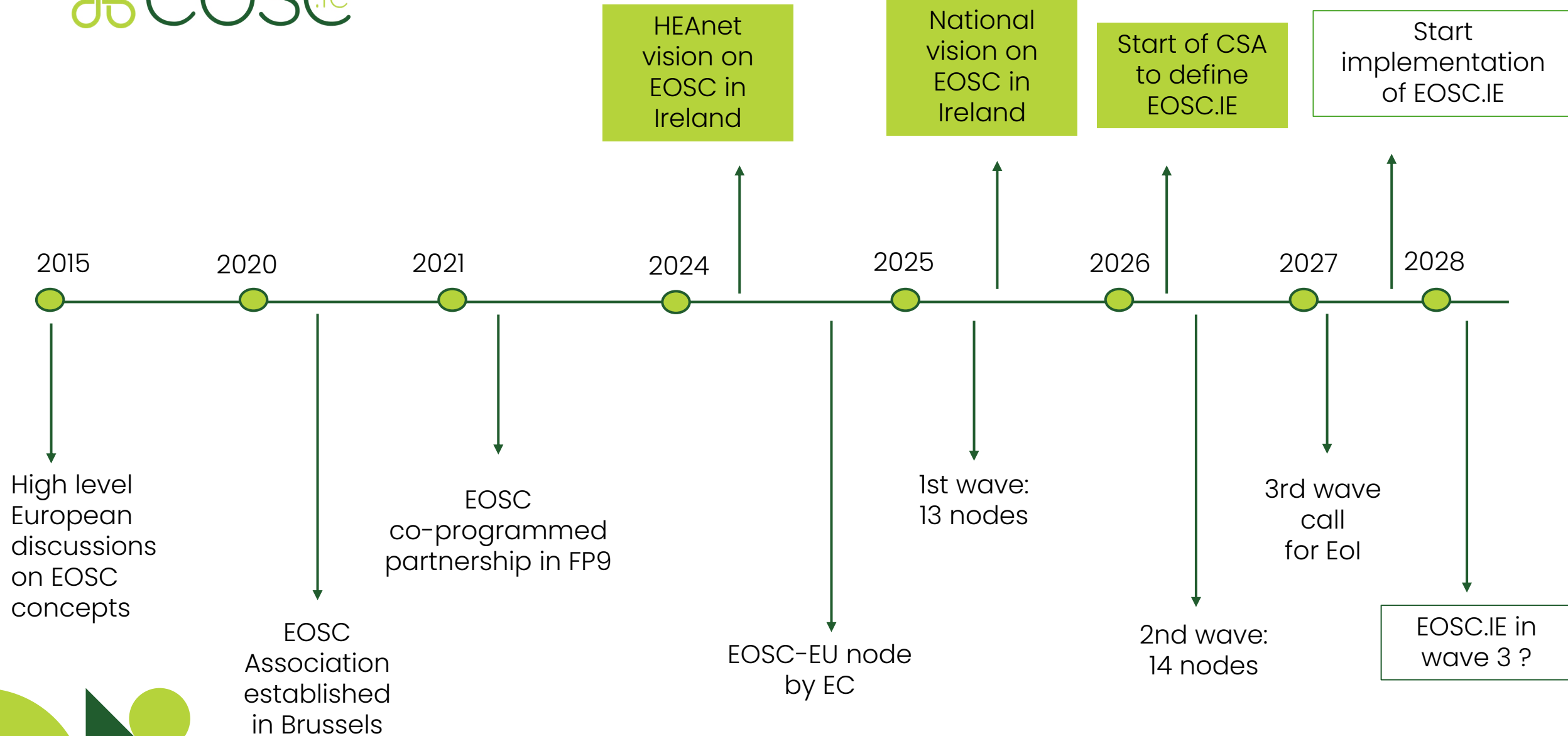


	National	Thematic	E-Infrastructure
Wave 1	DE FI IT NL PL SK	CERN DataTerra LSN DTO BBMRI PaNSC	EUDAT
Wave 2	CY CZ HR LV MK SI SE CH TR	ENVRI METROFOODS EBRAINS	GEANT EGI Scholarly Commons

The journey towards EOSC.IE

Roberto Sabatino, Asiera







Sabatino, R., O'Neill, J., Dowling, L., Burbidge, C., Brown, W., Collins, D., Culhane, A., Doran, M., Farrell, G., Golden, D., Kannan, V., Moran, R. P., Neff, F., Whelan, L., & Wrynn, S. (2025). Implementing the European Open Science Cloud (EOSC) in Ireland - Version 2 July 2025. Zenodo. <https://doi.org/10.5281/zenodo.16266119>

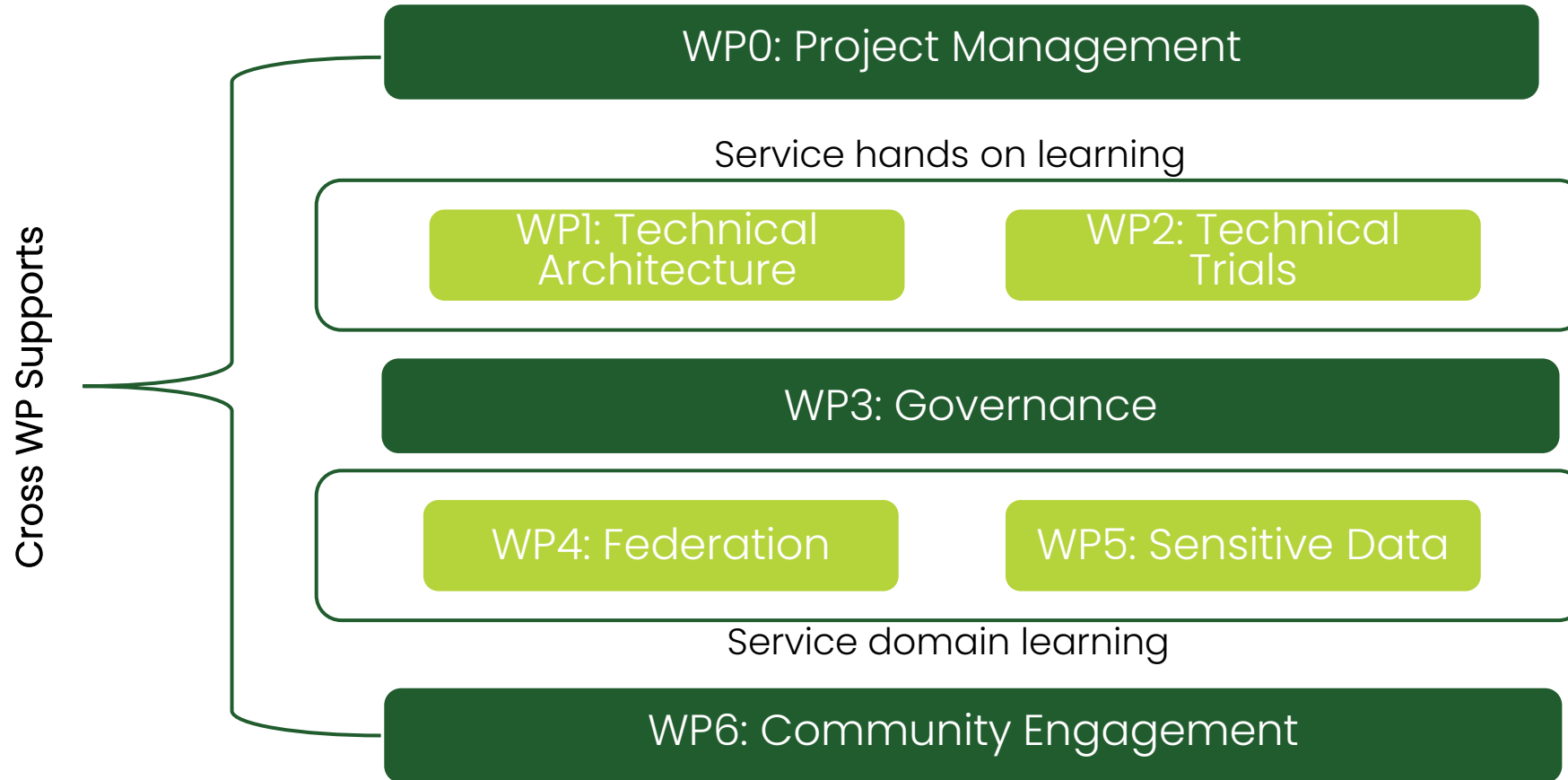
Authors

- **Roberto Sabatino** (*coordination lead*), Research Engagement Officer, HEAnet
- **William Brown**, Senior System Administrator (Research IT), Royal College of Surgeons in Ireland
- **Chris Burbidge**, Project Manager (Research IT) & iCRAG, University College Dublin
- **Diarmuid Collins**, Senior Systems Administrator, School of Computing, Dublin City University
- **Aedin Culhane**, Professor of Cancer Genomics, School of Medicine, Director Limerick Digital Cancer Research Centre, Head of Node for Elixir Ireland, University of Limerick
- **Michelle Doran**, National Open Research Coordinator, National Open Research Forum
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- **Gavin Farrell**, ELIXIR Ireland Node Coordinator, University of Limerick
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- **Venkatesh Kannan**, Associate Director (Solutions R&D), Irish Centre for High End Computing
- **Ruth Moran**, Graduate Education and Research Integrity Officer, Atlantic Technological University
- **Flaithri Neff**, Academic & Researcher, Technological University of the Shannon
- **Jenny O'Neill**, Research Engagement Officer, HEAnet
- **Laura Whelan**, Lecturer, FutureNeuro, Research Ireland Centre, School of Pharmacy and Biomolecular Sciences, RCSI University of Medicine and Health Sciences
- **Shirley Wrynn**, Research Integration Project Manager, Atlantic Technological University

Contributors

Christine Brennan, Research Strategy & Policy Manager, UL; **Brendan Curran**, APC Microbiome, UCC; **Edie Davis**, Research Policy programme Officer, Research Ireland; **John Donovan**, Head of Research Support Services, TU Dublin; **Dan Eames**, Senior Digital Design Advisor, National Disability Authority; **Abdoulie Faal**, iCRAG Data Manager, UCD; **Sarah Gleeson**, iCRAG Director, UCD; **Lisa Griffith**, Director, Digital Repository of Ireland; **Paul Hynds**, Pre-Award Lead, TU Dublin; **Cillian Joy**, Head of Open & Digital Research, Library, University of Galway; **Dan Kilper**, Director Connect Centre, TCD; **Brendan Kenna**, iCRAG IT Manager, UCD; **Beth Knazook**, Research Data Project Manager, Digital Repository of Ireland; **Gavin Lawler**, Programme Manager, Research and Innovation Infrastructures, HRB; **Dave Lewis**, Associate Professor School of Computer Science, TCD; **Tania Marsh**, Research Integration Project Manager, TUS; **Cormac McKenna**, Head of Technical Operations, ADAPT; **Declan McKibben**, Executive Director Commercialisation, ADAPT; **Michael Meagher**, Director Open Ireland Network, UL; **Joan Murphy**, National Manager, DARIAH-IE, Trinity Long Room Hub, TCD; **Barry O'Sullivan**, IT Operations Manager, UCC; **Martina Prendergast**, Research Officer, UL, LERO; **Niall Reenan**, School of Earth Sciences IT Manager, UCD; **John Ronan**, Walton Institute, SETU; **Winnie Ryan**, Senior Project Manager, UCD; **Sebastian Schmidt**, APC Microbiome, UCC; **Michael Scriney**, Assistant Professor, Engineering & Computing, DCU; **Armin Straube**, Research Data Manager, UL; **Koen Torremans**, Assistant Professor School of Earth Sciences, UCD.

Project Structure



WP	Description	Lead	Funded partners
0	Project Management	Asiera	
1	Technical Architecture	ICHEC	DCU, SETU, UCD, DRI, TU Dublin
2	Technical Trials	ICHEC	DCU, SETU, UCD, DIAS
3	Governance, Organisational, Funding Models	TU Dublin	Asiera, TCD, ICHEC
4	Connecting to EOSC Federation	UL	UCD
5	Requirements for connecting to services that handle Sensitive Data	TCD	ICHEC, UL, RCSI, SETU
6	Community Engagement	Asiera	DRI



Online

- EOSC-EU node
- PaNOSC



In person

- Poland
- Netherlands
- Finland
- Life Sciences Node



- Switzerland

Learning from other nodes

- Architectural choices, what options were considered
- Technology choices, what options were considered
- Organisational structure principles
- Business/funding models of the node
- Approach to dealing with services for handling sensitive data

WP1&2 Architecture Conversation

Evan Smyth, ICHEC



Some EOSC Resource Types

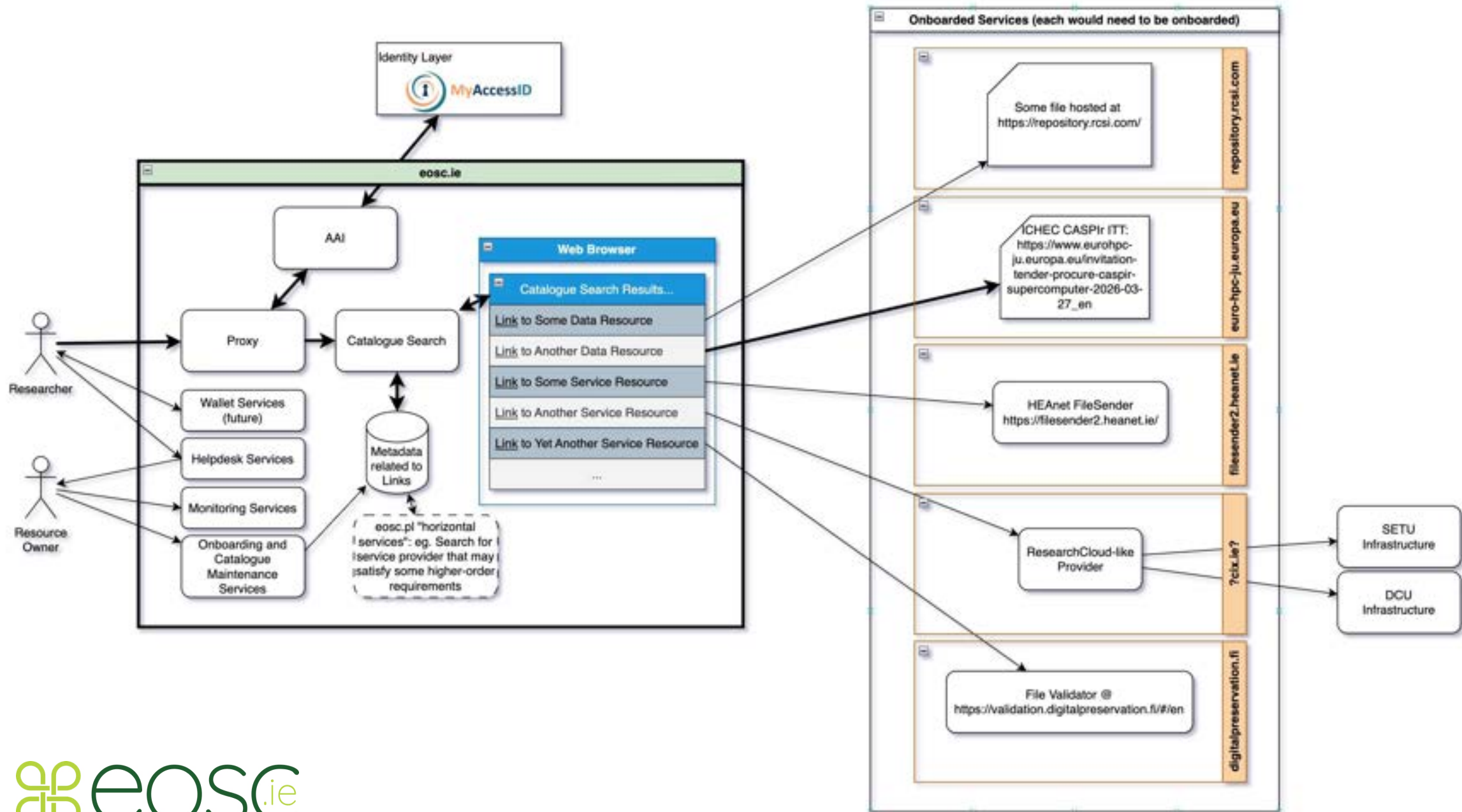
Data Resources

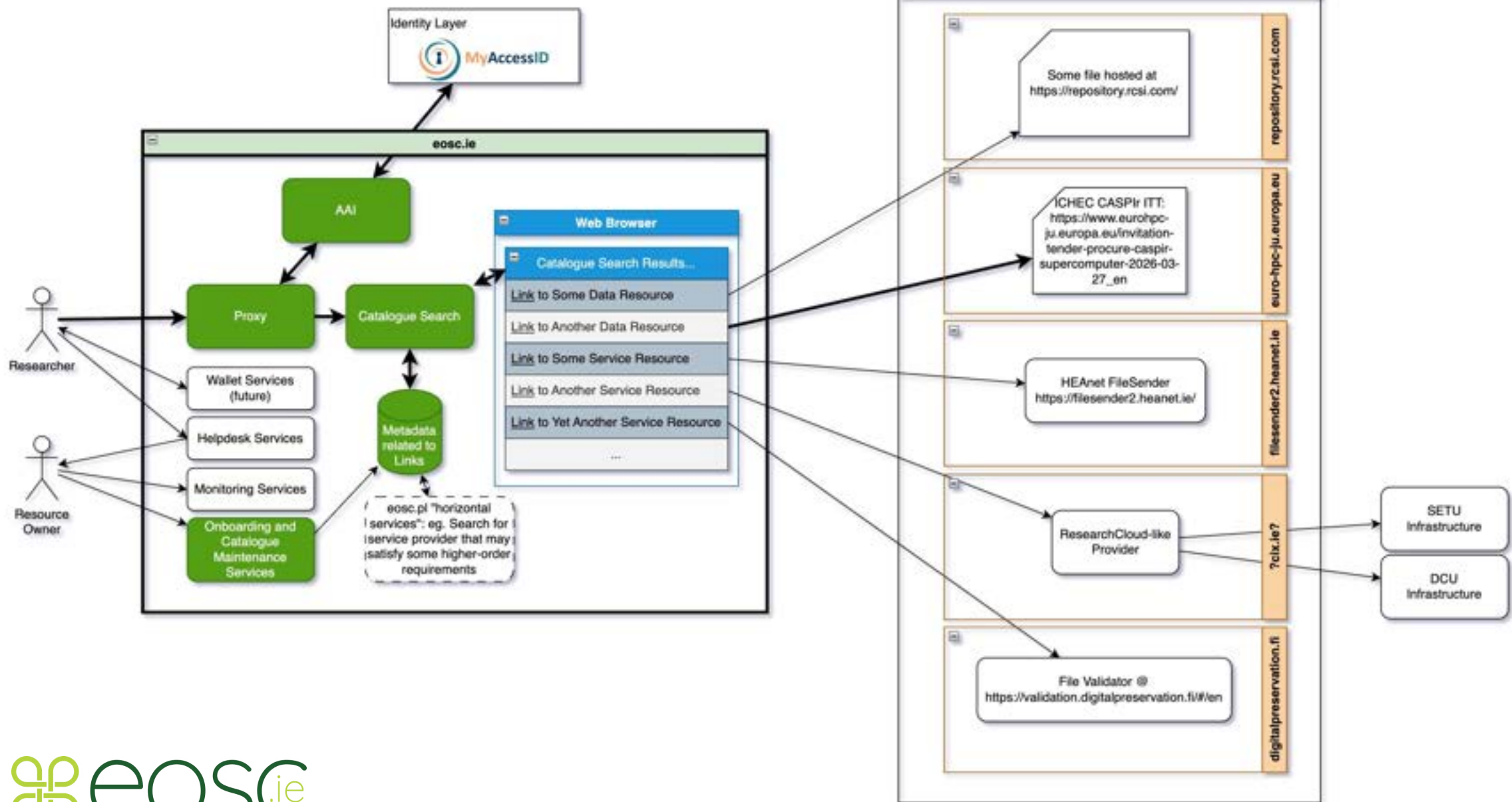
- File (zip, pdf, doc etc) or reference (tiny.url) hosted on a Resource Provider's infrastructure
- Datasets related to research results/efforts hosted on a Resource Provider's infrastructure
- Docker images hosted on Resource Provider's infrastructure
- Github/gitlab software repos

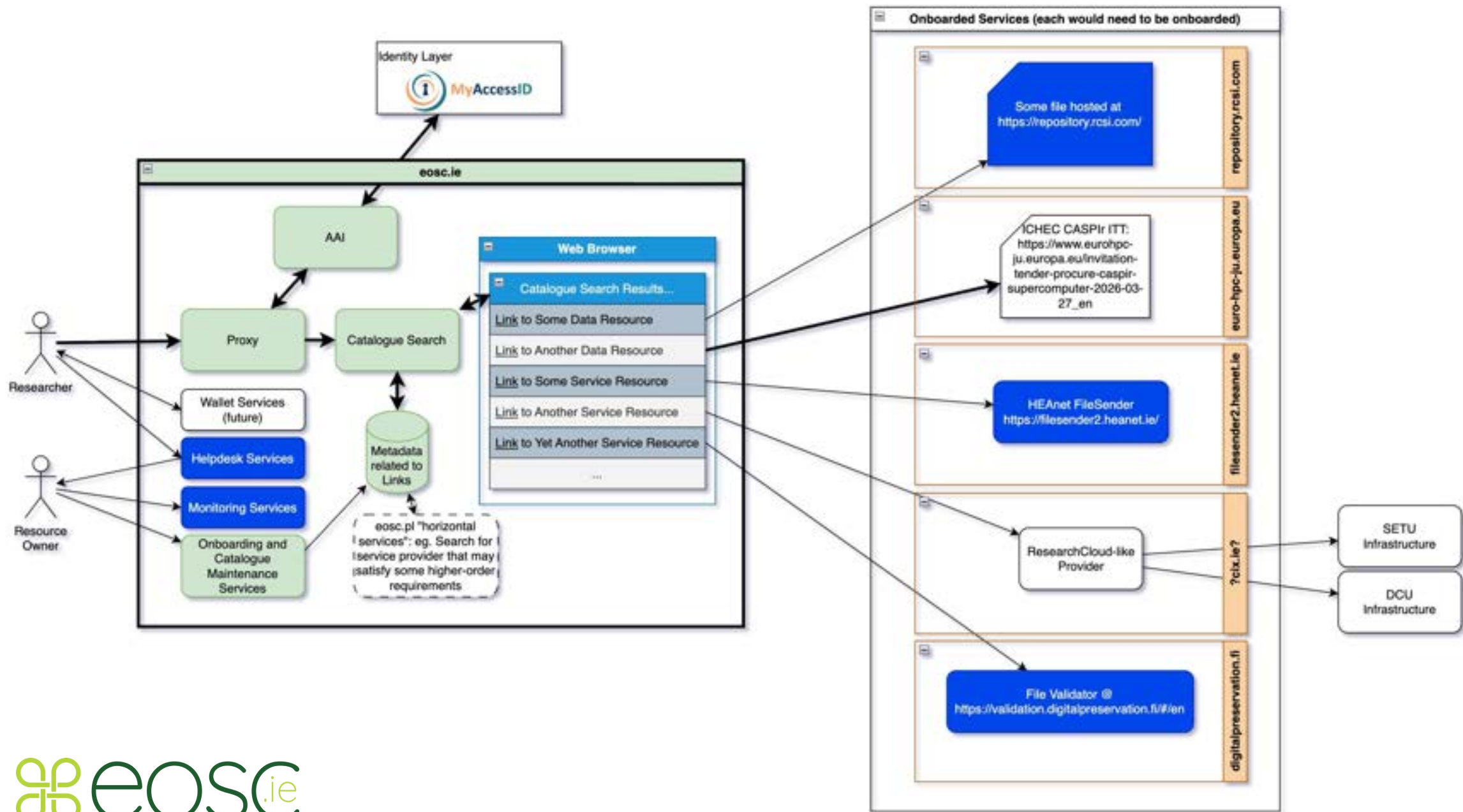
Service Resources

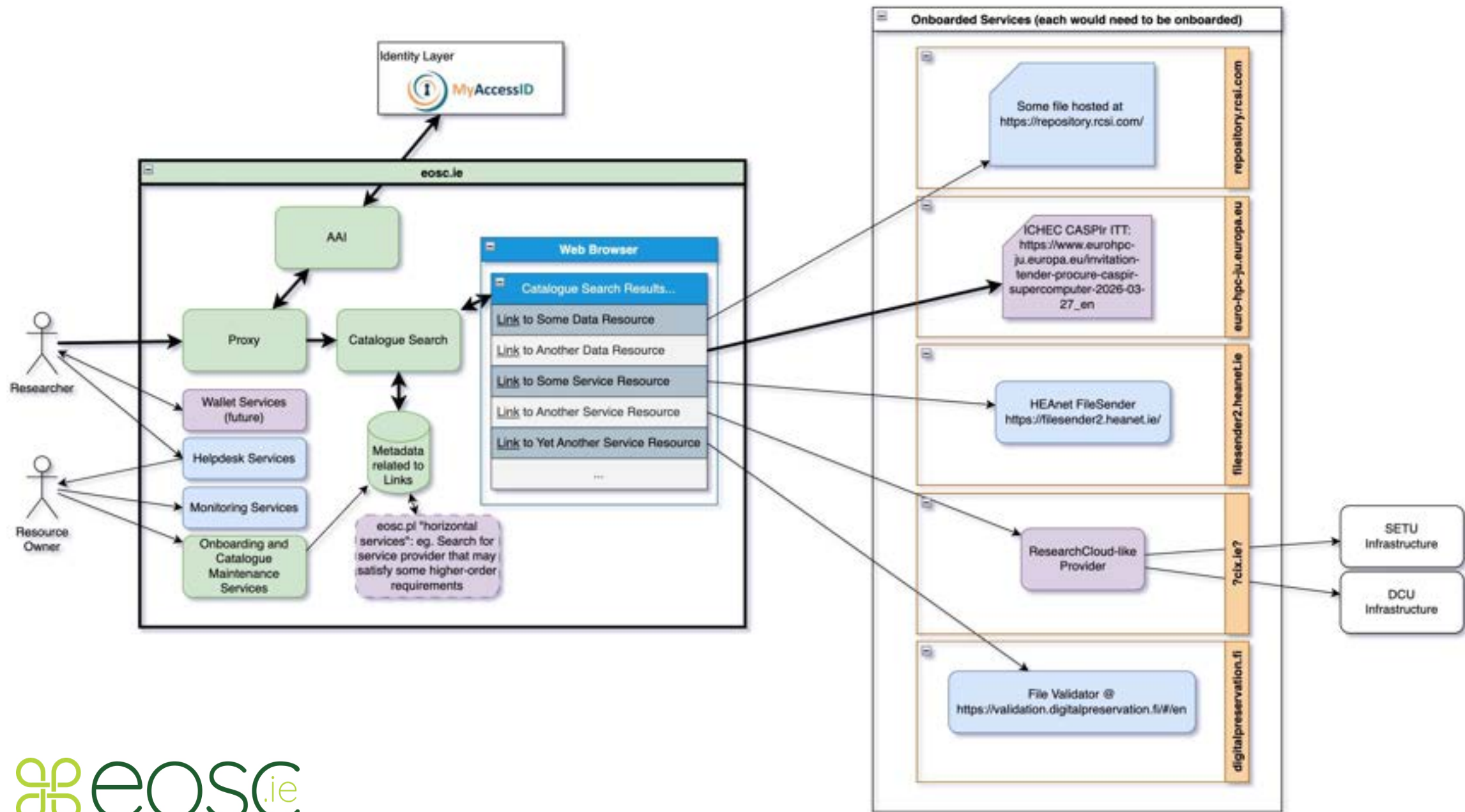
- Cloud Provider portal
- Data Hosting Provider portal
- HPC Provider portal
- File Transfer Service portal (HEAnet's service)
- File Staging Service portal (OneData)
- Workflow Service portal
- Jupyter Notebook Service portals
- Other competing service portals
- Other specialized service portals

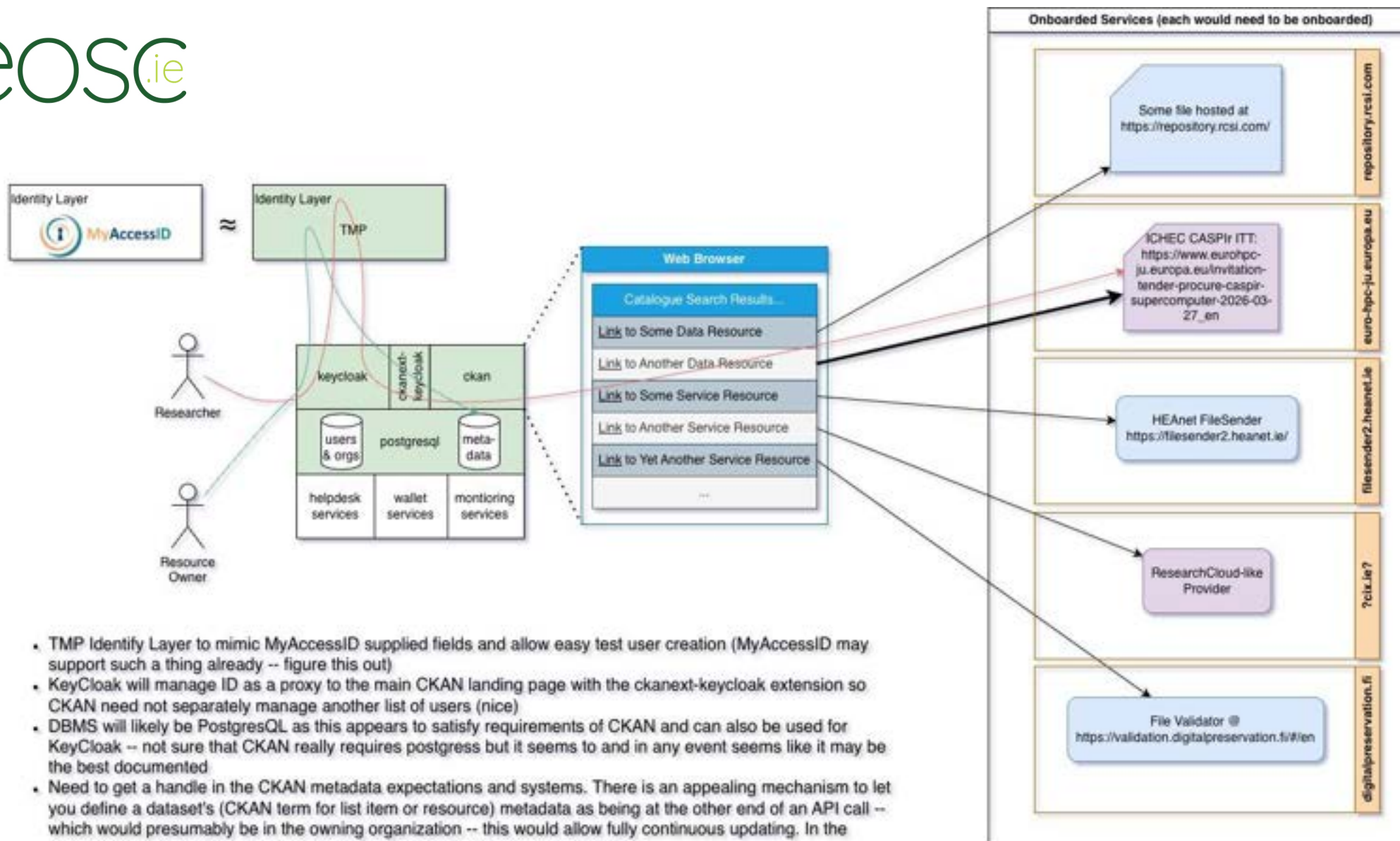












- TMP Identify Layer to mimic MyAccessID supplied fields and allow easy test user creation (MyAccessID may support such a thing already -- figure this out)
- KeyCloak will manage ID as a proxy to the main CKAN landing page with the ckanext-keycloak extension so CKAN need not separately manage another list of users (nice)
- DBMS will likely be PostgreSQL as this appears to satisfy requirements of CKAN and can also be used for KeyCloak -- not sure that CKAN really requires postgres but it seems to and in any event seems like it may be the best documented
- Need to get a handle in the CKAN metadata expectations and systems. There is an appealing mechanism to let you define a dataset's (CKAN term for list item or resource) metadata as being at the other end of an API call -- which would presumably be in the owning organization -- this would allow fully continuous updating. In the meantime, metadata can also be added "by hand" so both options are available
- The Helpdesk, Wallet and Monitoring services are TBD

WP3 Governance, Operations, Funding

Lindsay Dowling, TU Dublin



Topline Governance & Operational Principles

EOSC Federation Requirements

- Legally recognised organisation that can act as signatory – MOU etc
- Capacity to contribute to federating capabilities, e.g. AAI, catalogue
- Provide services, resources that are FAIR and technically compliant
- Establish and administrate SLAs with providers
- Capacity for monitoring and reporting
- Operate a Service Management System
- Data Protection, Privacy
- Cybersecurity
- 5 nominated roles for collaboration

EOSC-IE Principles

- National Coordination with a clear mandate
- Multi-stakeholder governance model
- Technology-neutral governance
- Security as a governance responsibility
- Distributed but accountable responsibility
- Sustainable funding and resourcing (not project based)
- Service Management & Operational Clarity (e.g. FitSM)
- Monitoring, Reporting & Transparency (KPIs, cycles, usage)
- Phased & Risk-Based Onboarding



Next Steps

- Defining a minimum viable mode & developing tiered maturity models
- Clarify risk ownership and liability
- Define responsibilities, SLAs and compliance structures
- Designing a service onboarding and support model
- Financial Model
- The Service Portfolio

WP4 Connecting to the EOSC Federation

Gavin Farrell, UL/ Elixir Ireland



Outputs & Status (1/2)

Insights from Node visits

- Key learnings synthesised in WP6-led report and feeding into landscape analysis

Desk landscaping

- 2 x domain national services as use cases: GDI & ISSDA
- Initiatives e.g. Data Spaces/ EOSC Interop. Framework/ +
- EOSC Projects/Groups (TFs/WGs/OAs/etc)

Survey

- Scope: national service providers
- Goal understand current standards/protocols/etc
- Summer 2026



Outputs & Status (2/2)

Online workshop

- Planning ongoing (e.g. date/registration)
- Late October/early-mid November
- Survey feedback, targeted to service providers

Final report: Recommendations for EOSC Ireland federation

- Fed by above & other WP alignments (e.g. WP5 sensitive)
- By M12 (Feb 2027)



Domain Service Cases

Informing steps towards Federation

Life sciences

Social sciences

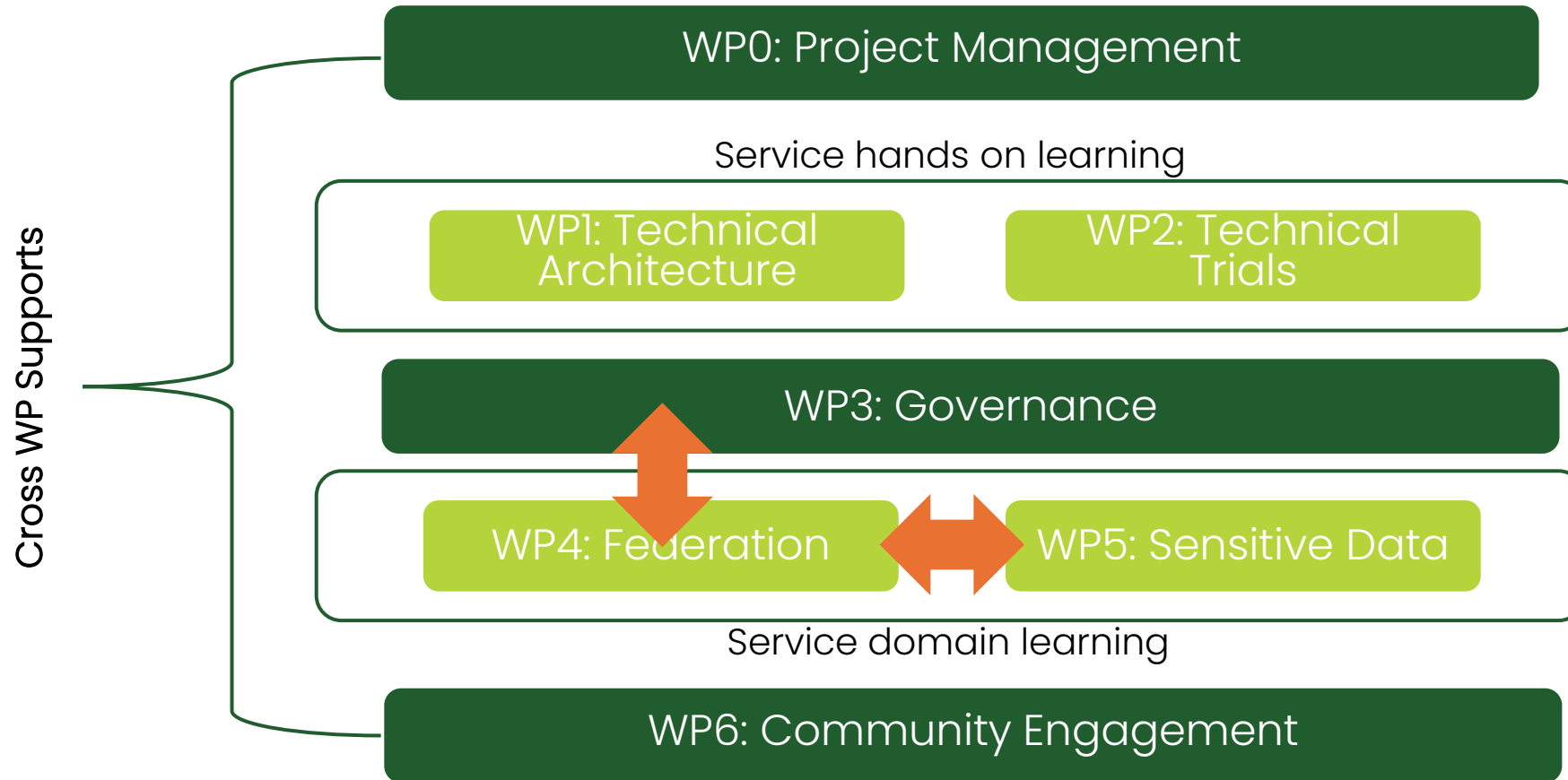


Why ESFRIs matter for EOSC Ireland:

- They are stable European service gateway providers & thematic Node leads/EOSC Clusters
- They play a major role in EOSC projects, (e.g. ENTRUST/EVERSE/EOSC4CANCER/+)
- They connect Irish activity to Europe



Fitting into the Wider Project



WP5 Sensitive Data

Darach Golden, Trinity College



WP5: Sensitive Data

- What, if anything, is additionally required of an EOSC Node in order to support onboarding and federating of services which handle sensitive data?
- Overlap with WP4
- Consultation with existing Nodes regarding integration of services which store and / or analyse sensitive data
- Review status of EOSC Authentication and Authorization Infrastructure (AAI) for sensitive data services
- Review status of EOSC Federation to support federated sensitive data services
- Monitor progress of European Health Data Space (EHDS) related to secondary use of health data; Health Data Access Bodies (HDABs), Secure Processing Environments (SPEs)
- Identify national and EU-level gaps in policy, governance, AAI, skills, and technical capability for sensitive data integration
- **Outcome:** Recommendations and a gap-focused roadmap to support future EOSC Ireland federation of sensitive data services. Due M12 of project



Progress so far:

- Visits to other EOSC Nodes completed
- Initial review of literature completed

Next steps

- Final questions to visited EOSC Nodes
- Complete literature review
- Collaborate with other work packages to generate landscape review, gap analysis and recommendations

WP6: Community Engagement

Jenny O'Neill, Asiera





Tasks

Ensure effective stakeholder engagement, dissemination of project outputs, and capacity building through training and communication activities.

● **Kick-off & Setup**

- Establish advisory group
- Establish website, mailing list, social media (LinkedIn)

● **Engagement & Dissemination**

- Communication & Dissemination Kit
- Prepare branding templates
- Webinars, 1 webinar per WP





- **Access Control & AAI**
Who can have access to which shops
- **Catalogues**
Central Directory
- **Helpdesk**
Information Desk
- **User Support & Training**
The Food Court
- **Governance**
The Management Company

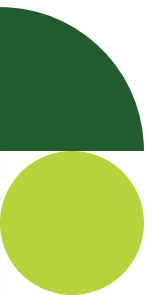
EOSC Ireland Node as a Virtual Shopping Centre

● **Anchor tenants**

e.g. Storage & Compute

● **Specialty Shops**

Domain-Specific Services





Progress so far:

Website



<https://eosc.ie/>



LinkedIn

<https://www.linkedin.com/company/eoscno-deireland>



Mailing list

<https://listserv.heanet.ie/cgi-bin/wa?A0=EOSCIE-COMMUNITY>

Next steps

- Publish report on node visits
- Prepare Communication & Dissemination Kit
- Graphic design of outputs from other WPs
- Produce video



Thank You



<https://www.linkedin.com/company/eoscnodeireland>

