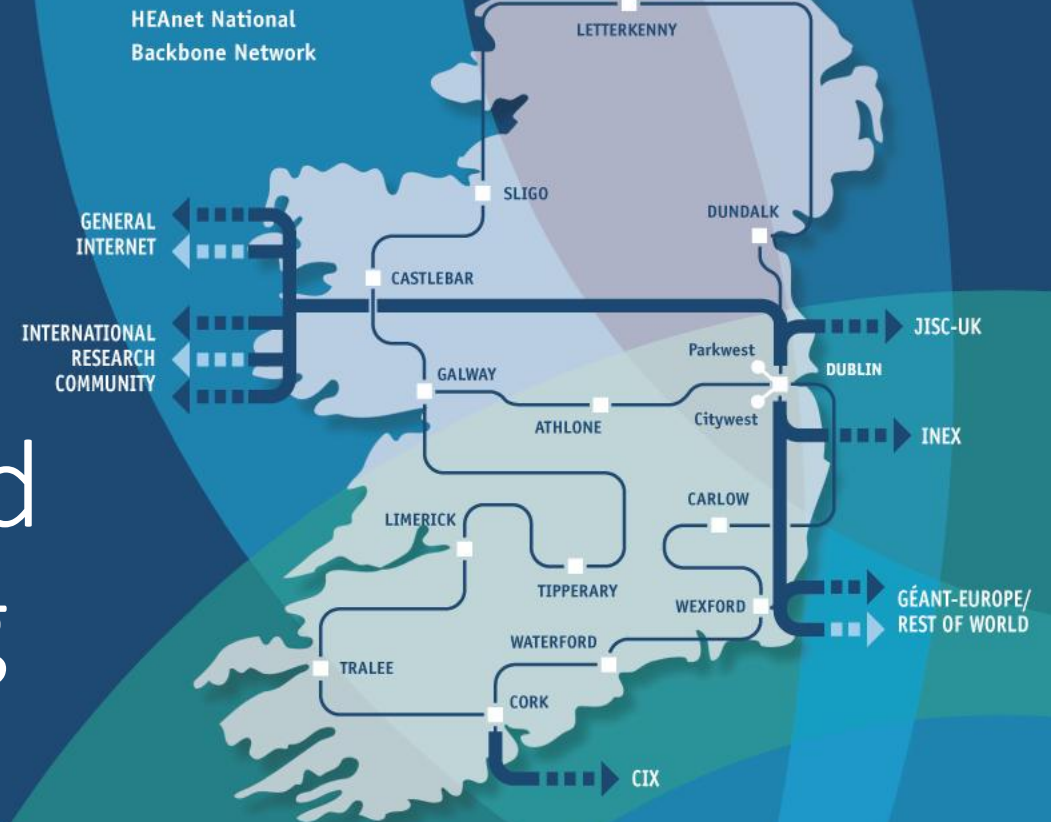




Update on EOSC-Ireland infrastructure planning

RESIN Infoshare
26th September 2025
Roberto Sabatino



Agenda

- Recaps from webinars on 3 Nov 2024 and 25th April 2025
- Key points national vision
- Current status
- Associated work
 - Research Cloud PoC with demo
 - EOSC4ALL proposal

Recap from webinar 3 Nov

- Presented the EOSC-EU node, as first component of the planned EOSC federation of nodes
 - Access to resources based on user profile
- Presented the plans for adding new additional nodes to the federation
- Outlined a vision, prepared by HEAnet, to contribute to the EOSC federation
- Outlined the process to get to national position paper

European Commission

EOSC EU Node

Resource Hub

Roberto Sabatino user

Logout

Overview

Notifications

Tools Hub

SERVICES

File Sync & Share

Interactive Notebooks

Large File Transfer

Cloud Container Platform

Virtual Machines

Bulk Data Transfer

https://open-science-cloud.ec.europa.eu/dashboard/home

Hello Roberto Sabatino

This is the overview of your EOSC EU Node account.

Welcome to the EOSC EU Node!

Services

File Sync and Share

Access enabled

View Service >

Virtual Machines

Access enabled

View Service >

Interactive Notebooks

Access enabled

View Service >

Cloud Container Platform

Access enabled

View Service >

Large File Transfer

Access enabled

View Service >

Bulk Data Transfer

Not available

Please read our [User Access Policy](#) for more information

View Service >

Credits renewed 2025-10-19

500

Credits

Actual total credits remaining in this period.
Refreshes every 90 days.

Available EOSC EU Node environments (3)

Small

vCPUs:2

GPU:-

RAM (GB):8

More info

10 credits / day

Get access

Medium

vCPUs:8

GPU:-

RAM (GB):64

More info

40 credits / day

Get access

Large

vCPUs:8

GPU:1

RAM (GB):32

More info

400 credits / day

Get access

Recap from webinar 25th April

- V1 of national paper published: <https://zenodo.org/records/15261566>
- Sets out the vision
- The next steps for broader consultation to June 2025
- Defines the implementation via a CSA, with 5 Work Packages

V1 of National position paper

William Brown, Senior System Administrator (Research IT), RCSI

Chris Burbidge, Project Manager (Research IT), iCrag affiliate. UCD

Diarmuid Collins, Senior Systems Administrator, School of Computing, DCU

Aedín Culhane, Professor of Cancer Genomics, School of Medicine, Director Limerick Digital Cancer Research Centre, UL

Michelle Doran, National Open Research Coordinator, NORF

Lindsay Dowling, Open Research Support Unit Lead, Open Research Support Unit, TU Dublin

Venkatesh Kannan, Associate Director (Solutions R&D), ICHEC

Beth Knazook, Project Manager, Research Data, DRI

Ruth Moran, Graduate Education and Research Integrity Officer, ATU

Joan Murphy, National Manager, DARIAH-IE, Trinity Long Room Hub, TCD

Flaithri Neff, Academic, Technological University of the Shannon: Midlands MidWest

Jenny O'Neill, Research Engagement Officer, HEAnet

Roberto Sabatino, Research Engagement Officer, HEAnet

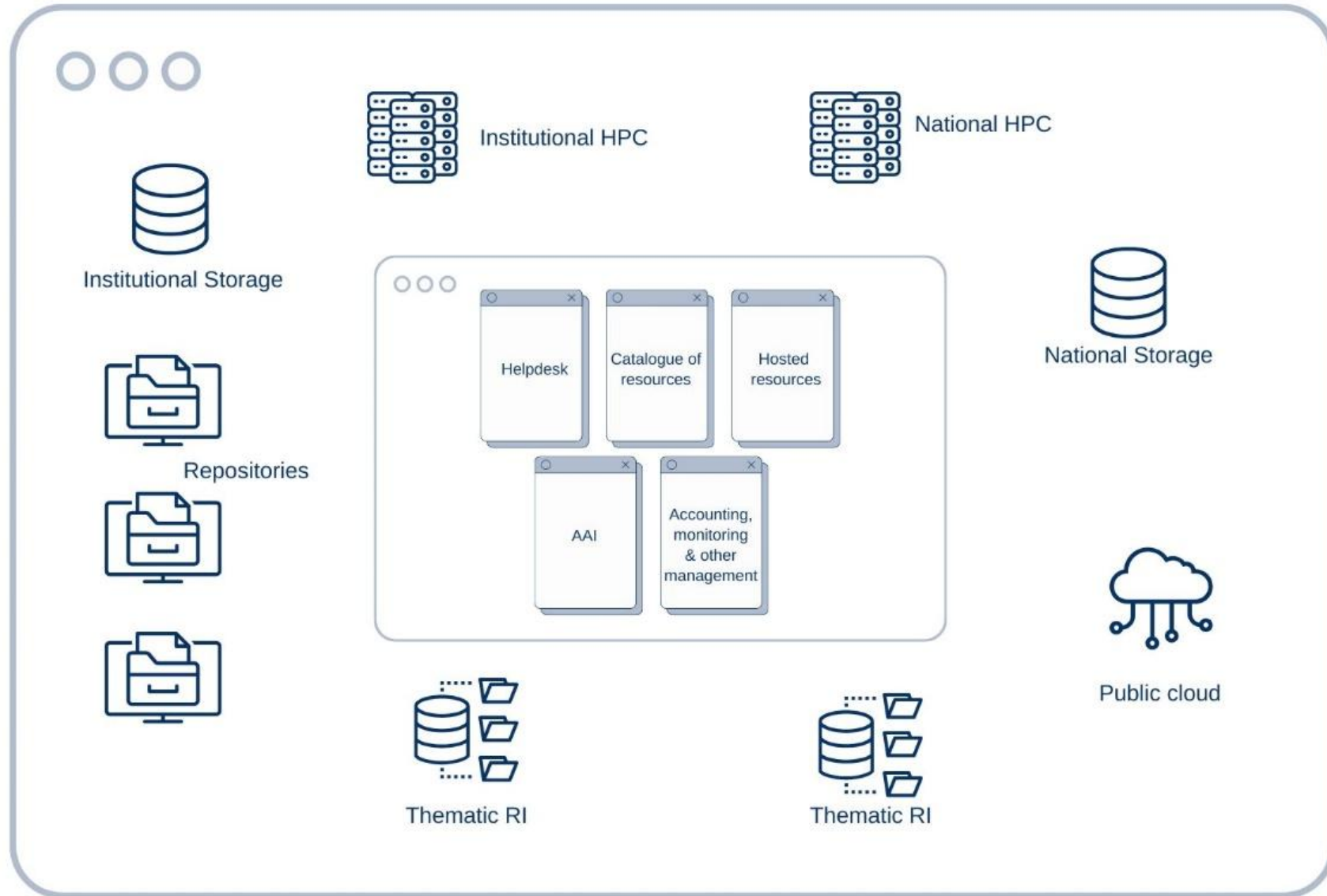
Laura Whelan, Lecturer, School of Pharmacy and Biomolecular Sciences, RCSI

Shirley Wrynn, Research Integration Project Manager, ATU



<https://zenodo.org/records/15261566>

Vision



Proposed WGs

WG1: technical architecture, including to analyse the synergies with other national initiatives and determine how to leverage them for a MVP for EOSC-Ireland. Develop a technical roadmap for EOSC-Ireland. Target date 12/2025

WG2: to conduct technical trials/PoCs of relevant technologies, such as ResearchCloud and any other deemed relevant. Target date 10/2025

WG3: to determine the organisational structure for the day to day operations of EOSC-Ireland and its governance. Determine its funding model and the associated costs. To take into account also if a new legal entity needs to be setup, as it is a requirement for joining the EOSC-federation. Target date 12/2025

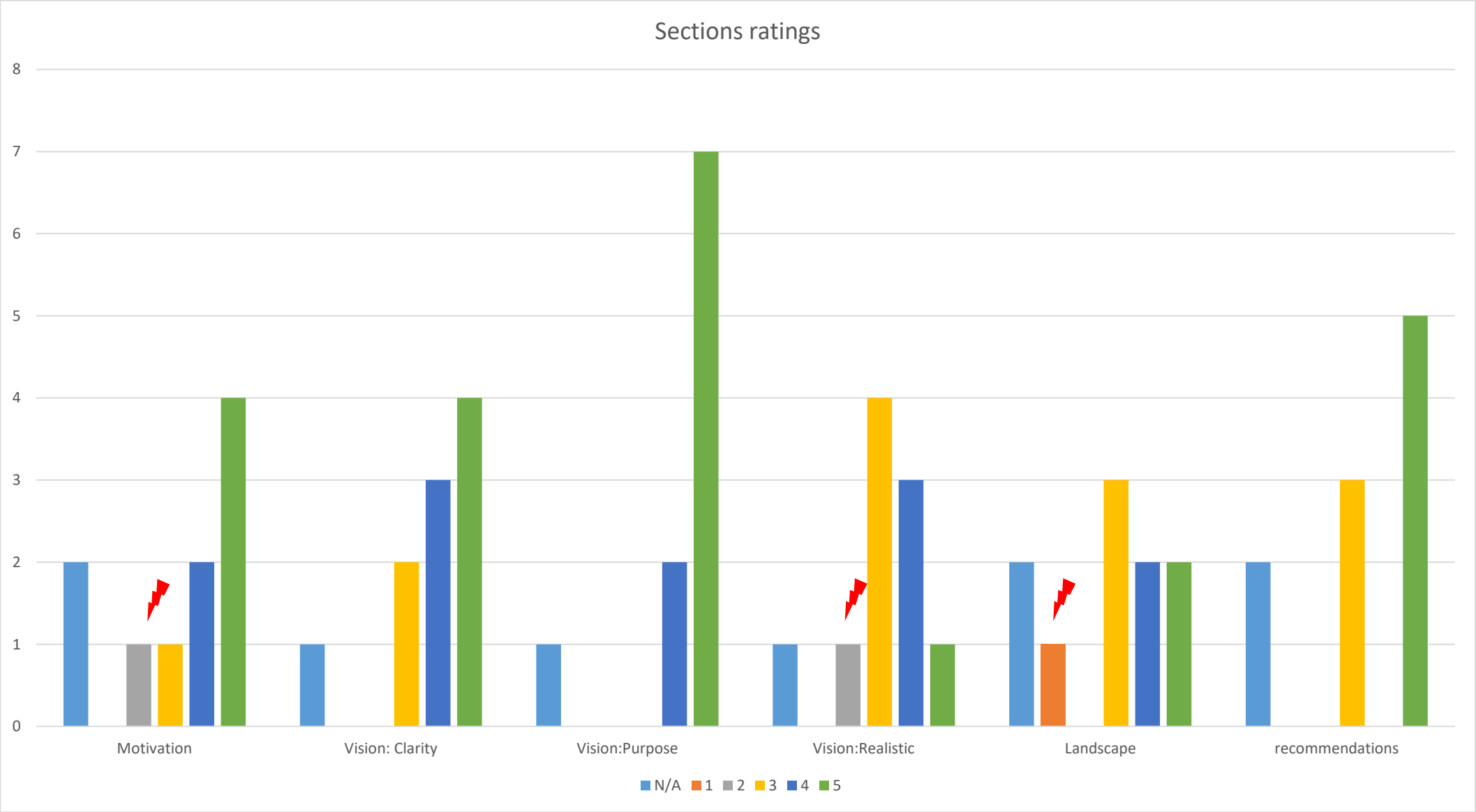
WG4: Technical planning for joining the EOSC Federation. Target date 4/2026

WG5: Analysis and trials on how to incorporate services for handling sensitive data. Target date end 2026

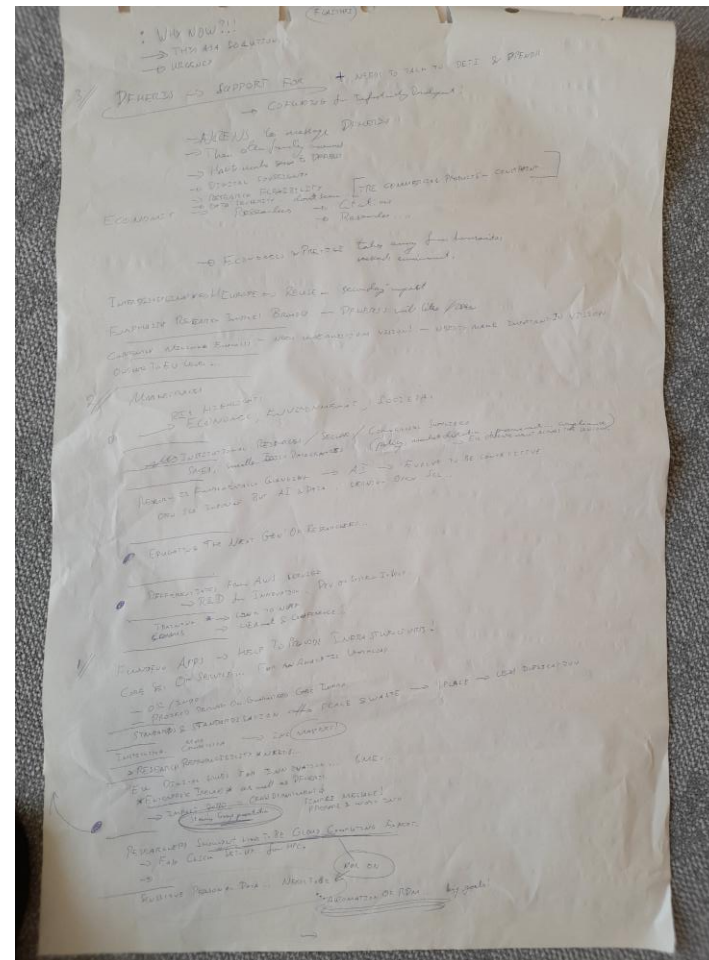
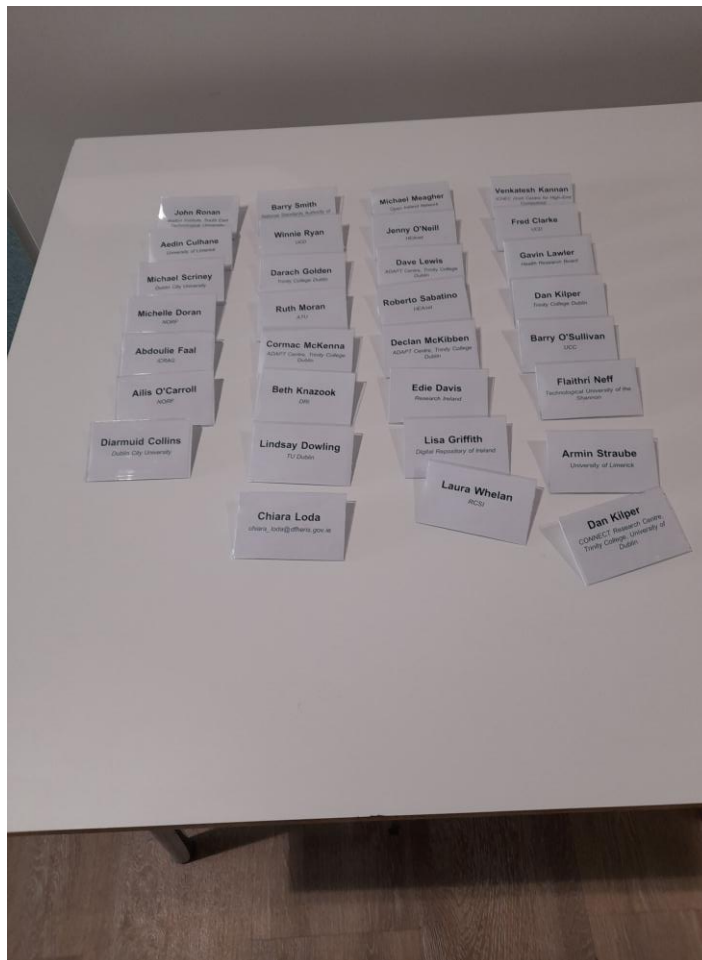
Towards final national paper

- Lots of 1:1 consultations April-June:
 - Research Ireland, Research Ireland centres, institutional consultations
 - Feedback form as input to workshop
- In person workshop on 18th June at HEAnet office
 - ~30 attendees
- Final paper published 3 July 2025: <https://zenodo.org/records/16266119>

Feedback received



Workshop





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>

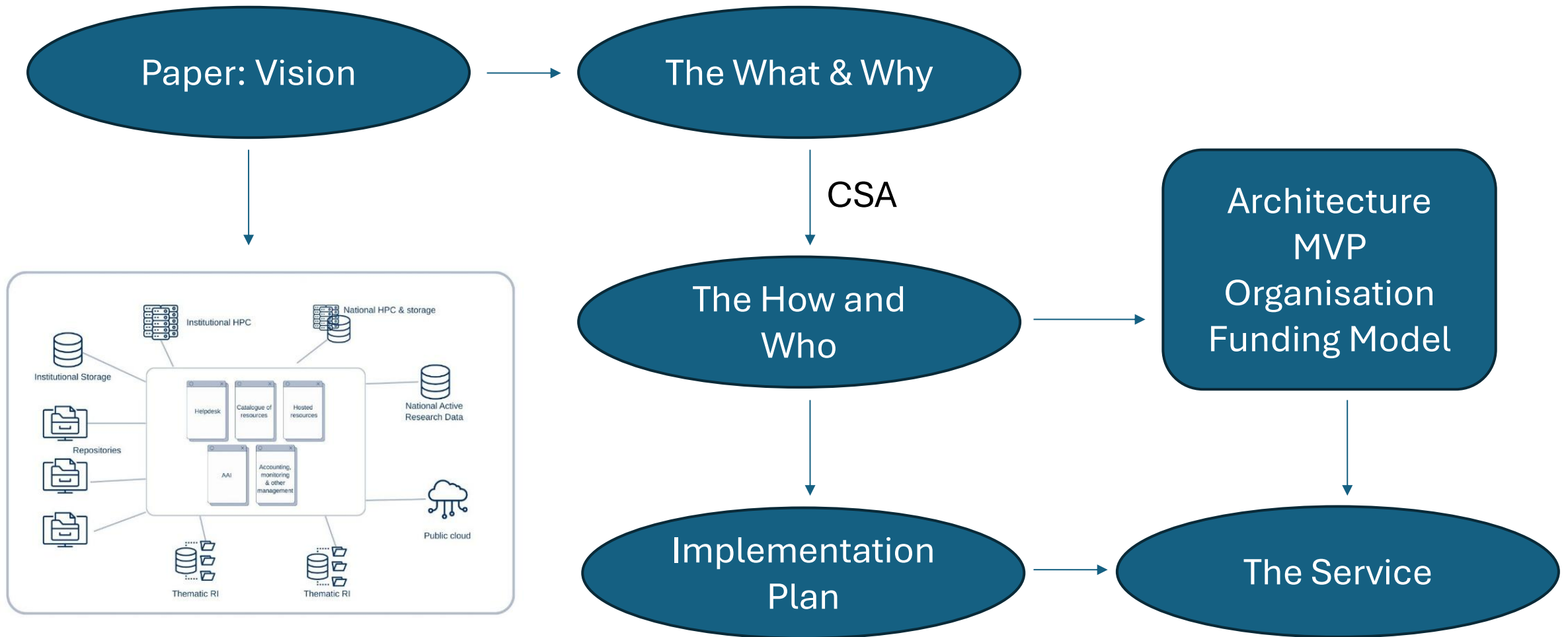
Authors

- **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
- **Aedín 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
- **Lindsay Dowling**, Open Research Support Unit Lead, Research & Innovation, Technological University Dublin
- **Gavin Farrell**, ELIXIR Ireland Node Coordinator, University of Limerick
- **Darach Golden**, Research IT Manager, IT services, Trinity College Dublin
- **Venkatesh Kannan**, Associate Director (Solutions R&D), Irish Centre for High End Computing
- **Ruth Moran**, Graduate Education and Research Integrity Officer, Atlantic Technological University
- **Flaithrí 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.

From Vision to Service



WP Title	Participants	Cost Category	Effort	Cost	Totals
WP0, project management	HEAnet	Staff	0.5 FTE, 12 months	50K	52K
		Travel&events		2K	
WP1 Technical architecture	ICHEC and 2 others TBD	Staff	1.2 FTE, 8 months	80K	82.5K
		Travel and events		2.5K	
WP2 technical trials	ICHEC and 2 others TBD	Staff	1.2 FTE, 9 months	90K	158.5K
		equipment		6K	
		Travel & events		2.5K	
		Other external services (licenses, consultancy)		60K	
WP3 organisational, governance, funding models	TUDublin and 5 others TBD	Staff	1 FTE, 9 months	75K	80K
		consultancy		5K	
WP4 Planning connection to EOSC Federation	UL and 2 others TBD	Staff	0.6 FTE, 4 months	20K	23K
		Travel and events		3K	
WP5 Planning for access to services for handling sensitive data	TCD and 2 others TBD	Staff	1 FTE, 4 months	33.3K	35.83K
		Travel and events		2.5K	
WP6 Community Engagement	HEAnet	Staff	0.2 FTE, 12 months	20K	30.5K
		Travel & events		5.5K	
		Materials & Consumables		5K	
Totals	Budget 462,333		Overhead at 25% 115,583		577,19k

[illegible]

Expressions of interest in CSA

- WP leads: HEAnet, ICHEC, TUDublin, UL, TCD
- Participants: SETU, DCU, UCD, UL, LERO, TUS, DRI, UoG
- Advisory: UCC/APC, UL, NDA, UoG
- Broader national engagement carried out through WP0 and WP6

Projected long term costs

- Estimates based on input from the 13 “candidate nodes” provided in June 2025
 - More precise details expected end 2025
 - N.B: The 13 nodes differ significantly in terms of scope and size
- Design costs (equivalent to the CSA)
- Implementation
- Continuous development
- Operations
- Connecting to EOSC Federation

Organisation	Offering	Oragnisation	Offering
CSC (Finland)	General Repository, Competence centre. Thematic repositories onboarded in stages. Chipster: SW to analyse genomic data	ESRF/PaNosc	Infrastructure, VREs
CNR BlueCloud (Italy)	Thematic RI for marine research. Data sets and VRE	EUDAT	RDM services
NCN (Poland)	Generic national. Repos and infrastructure	NFDI (DE)	Federated Repositories and associated services.
BBMI ERIC	Thematic node, Datasets and resources, notebooks	CNRS/ Dataterra	Thematic RI
CERN	“Onboarding” zenodo, Inspire, Indico, HepData, SW analysis workflow (reana)	ICSC	Generic infrastructure, thematic and academic repositories. Sensitive data
SURF (NL)	Aggregates resources from institutes, infra and repos. Sensitive data	CVTI (SK)	Generic national
LSRN (Elixir, EMBL, Instruct, Bioimanging)	Infrastructure and data resources		

	Min cost	Max cost	Average cost	5 year average costs
Design (CSA)	300K	2M	800K	800K
Implementation	600K	2.7M	1.5M	1.5M
Operations	130K/year	2.15M/year	870K/year	4.35M
Development	300K	800K	600K/year	3M
<i>Federation (TBC)</i>	<i>Details TBC by end of 2025</i>			<i>TBC</i>
Total				9.65M

Current status

- Support from DFHERIS staff for the development for a business case for the funding of the CSA and subsequent national service.
- Discussions DFHERIS –HEAnet ongoing
- Target to start work on the CSA early 2026

Connected initiatives

- Proof of concept of SURF's ResearchCloud for Ireland
- EOSC4ALL: proposal to Horizon Europe call INFRA-EOSC-01-01
 - Led by GEANT, HEAnet participant, along with other NRENs
 - Development of ***EOSC node as a service***, provided by GEANT based on ResearchCloud from SURF
 - 3 years, starts mid 2026 (if funded).
 - ~8M budget

SURF's Researchcloud PoC

- To December 2025
- [Researchcloud.heanet.ie](https://researchcloud.heanet.ie)
- Objectives of the PoC
 - Is it a suitable technology/service providing the core functions of EOSC Ireland
 - Understand requirements for connecting institutional resources:
 - Handling of access policies
 - Handling of credits
 - User experience
- Provides early input into WP2 of the proposed CSA

Resources

- SETU (nextcloud, Openstack)
- DCU (Openstack)
- CloudCix (Irish public cloud provider) being discussed
- AWS, Azure, Oracle provided by SURF

- Currently 25K credits, equivalent to 1K Euro.
 - Work in progress to extend to 10K Euro

- ***Contact me if you'd like to try it out !***

Demo from Cian Hughes – DCU / I-Form



Thank you

Any questions?

