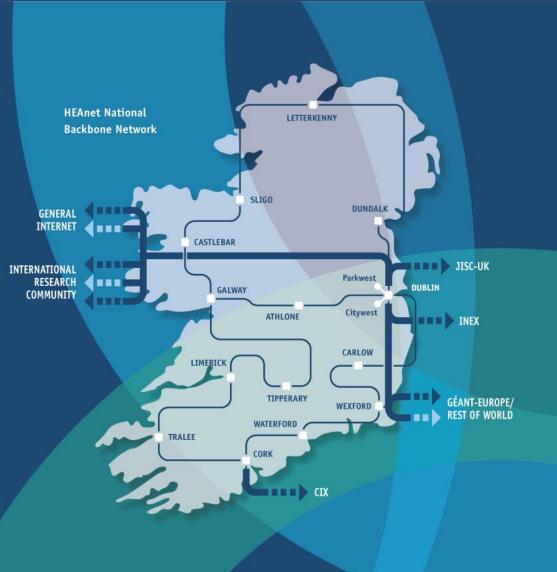


Ireland's National Education & Research Network

Developing EFSS for Research in Ireland

> Joint CS3/SIG-CISS 11th March 2024 Roberto Sabatino



Some history and context...

- HEAnet the Irish NREN
 - Connectivity, Identity, Brokerage, Security
 - Support to research done on "I know them" basis, or obvious national cases
 - I-LOFAR
 - EUMETCast with Met Eireann
 - Research in networking (TSSG, TCD, SFI-CONNECT)









National context

- No national service at present in Ireland for storing and sharing active research data
- Support for research, from digital infrastructure/IT perspective, best described as "patchy". For both:
 - Institutes
 - Server under desk managed by post-doc
 - Silos. Within and between institutes
 - Funders
 - National RI strategy ? What's that ??











But not all is bleak

- Open Science, FAIR RDM gained momentum in Ireland through NORF
- And to some degree EOSC
- Funding to bootstrap activities across the Open Science spectrum in 2022 and 2023.
 - Culture, Open Access, Infrastructure
 - ~1.8M/year
 - Up to 200K per project











And from 2020 HEAnet is a fully fledged NREN



 Addressing silos in Research Support and leading to a *first* sectoral national collaboration





AN tÚDARÁS um ARD-OIDEACH/ HIGHER EDUCATION AUTHORI



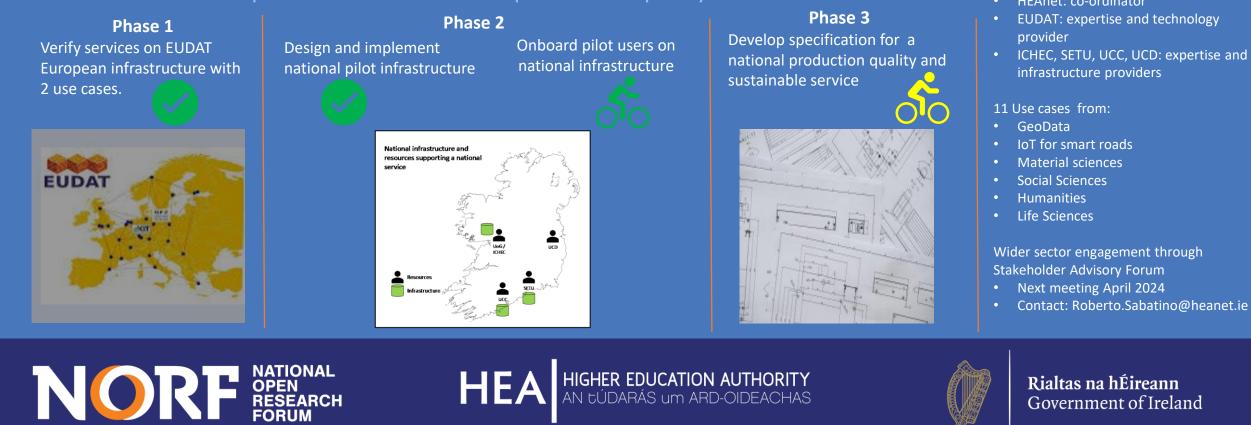




IRLDAT : National Shared Storage Service

NORF Open Research Fund 2022

Develop and run a pilot for a national service for active research data. Leverage findings to develop the specification of a national production-quality and sustainable service. Partners: HEAnet: co-ordinator



GHER EDUCATION AUTHORITY

The challenges ?

- Technically, it's straightforward and proven
- Demand planning hence service dimensioning
 - From short pilot only so much you can determine: many stars have to line up.
 - Pilot users need to change their way of working for a limited time without funding
- Outreach
- Sourcing additional resources: A more general challenge
 - Market competition, short term contracts
 - Headcounts





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Our path

- Informed by discussions with our Stakeholder Advisory Forum and sessions with other NRENs
- Full service definition based on nextcloud + B2Drop done by October 2024
 - Includes Build vs Buy analysis
 - Business and operational model
- Likely to have a 5 year plan based on 1 central national service
 - Serving the average users
 - During 5 year period evaluate case for evolving towards, for example, SUNET Drive/Research Drive models
- Preference appears to be for hybrid funding model
 - Part centrally funded
 - Part user (Institutional) fees
 - Very large users/groups maybe treated separately ?





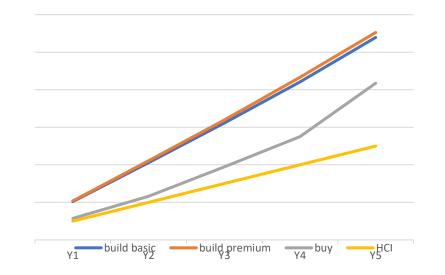


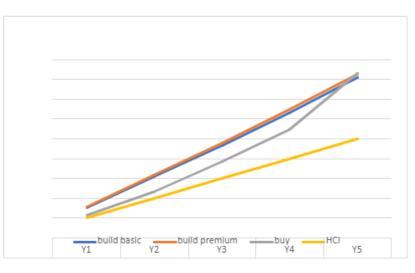




Build v Buy

- Example 5 year scenario based on:
 - progression from 100 users, 100TB to 1000 users, 500TB
 - Leveraging hypothetical existing HW and HW support staff.
 - But get the data right !
- Cheapest or MEATest ?
 - Importance of HCI ?















We'd love your input

- Especially on service dimensioning and forecasting
- I'm around the next few days let's talk !













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Thank you

Any questions?

