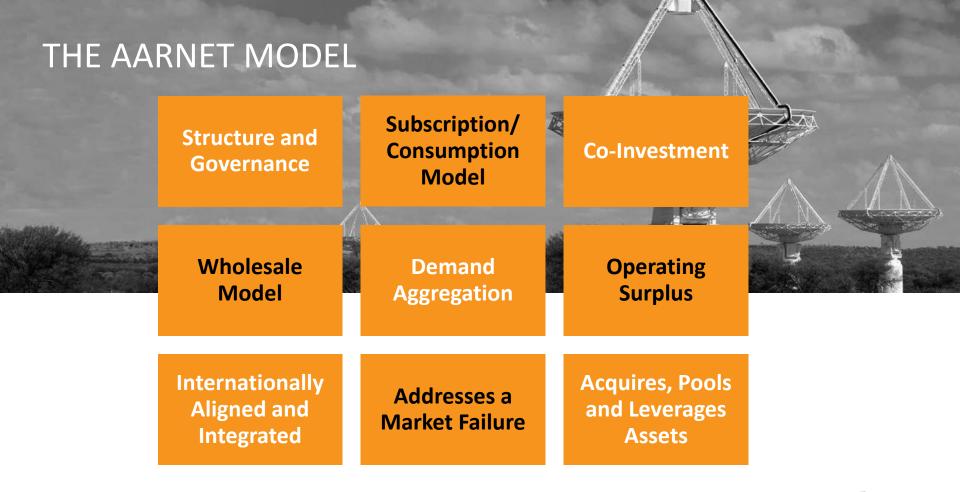


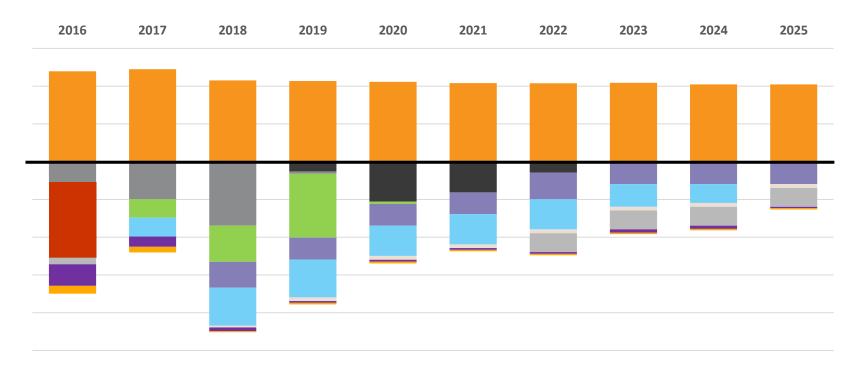
SERVICE PROVIDER PANEL

AeRO Forum

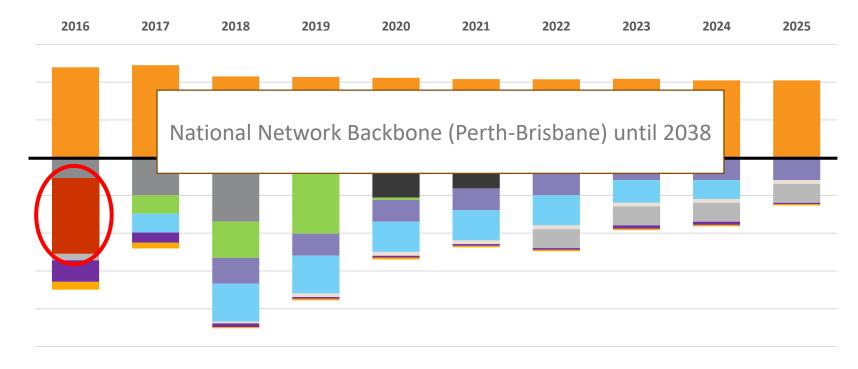
4th May, 2017,

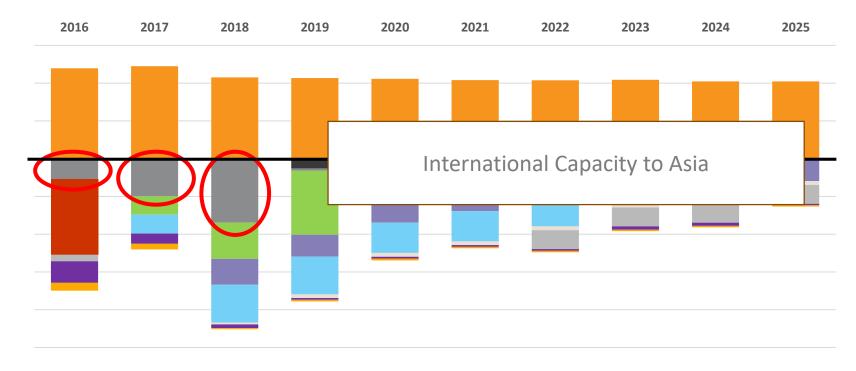
Peter Elford, Director, Government Relations and eResearch – peter.elford@aarnet.edu.au











PROJECT INDIGO

AARNet, Google, Indosat, Singtel, SubPartners, and Telstra

Two pair fibre system Singapore – Sydney via Perth – 9,000 km

This is the FIRST subsea project where a National Research and Education Network (NREN) has been a consortium partner

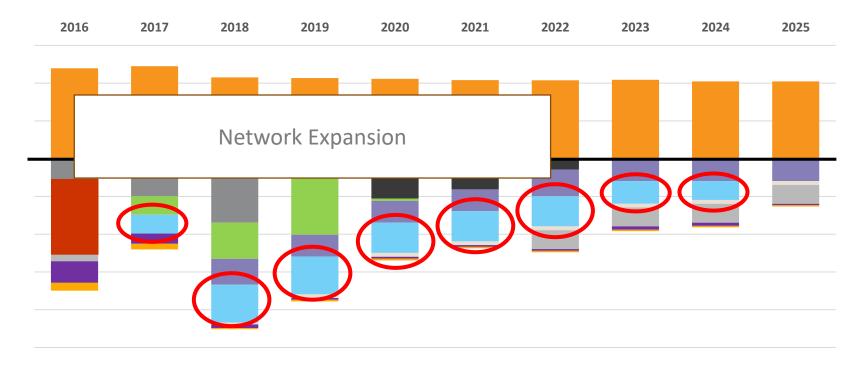
This is one of the first subsea projects to make available portions of the fibre (spectrum or frequencies) to investors

This investment involves no Federal government funding, either for the initial investment or for the operational support

The contracted life of this system is multiple decades









PROMPTERS

- 1. What key eResearch learnings from the last 10 years do we want to address/carry forward into the next 10 years?
- 2. How do you build user confidence in the long-term sustainability of an eResearch service, with or without significant Federal investment?
- 3. What role you see your organisation playing in the definition, evolution and operation of an ARDC?
- 4. How can researchers best be given streamlined access to data (and tools) that may be offered across many providers?



LEARNINGS

Integration
Clarity of purpose
Institutional engagements



USER CONFIDENCE

Ease of use
Research relevance
Service/facility (not program)



DATA ACCESS

Won't (ever?) get all the data co-located with all the compute



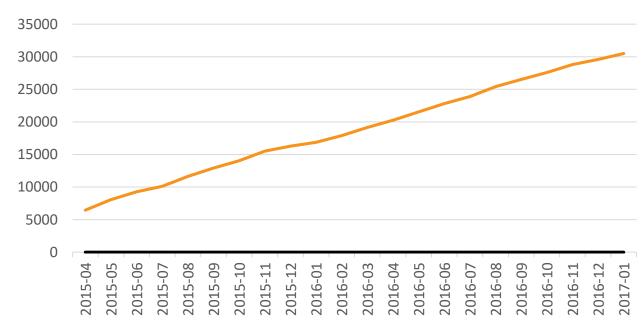
CLOUDSTOR USAGE (SYNC/SHARE)



Users **30,500+**

Domains 238

Storage Used
135 TB

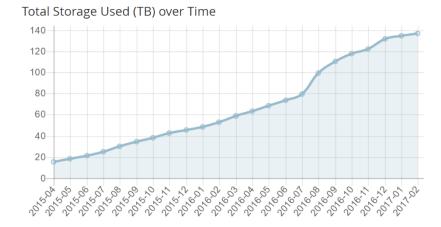




^{*}Latest data as of 2017-01-31

WHY?

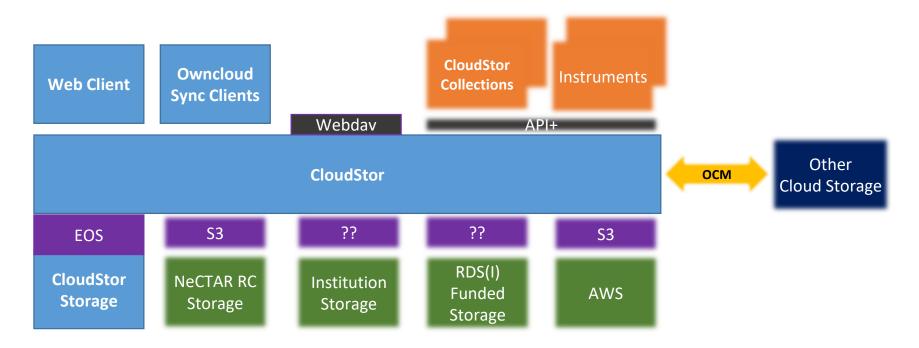
- Zero-barrier to entry
 - Free (and on-net)
 - Pre-approved 100GB
 - Familiar
- Fast
- Australian
- Cross-institution collaboration
- Local "real" support
- AARNet brand



• Strong institutional interest ...

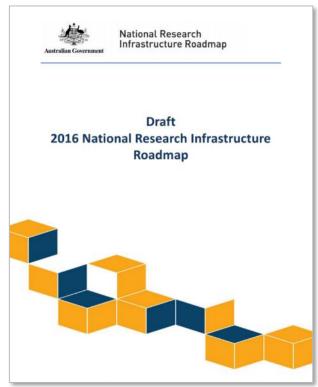


CLOUDSTOR AS THE (OR A) DARK MATTER ...



OCM – Open Cloud Mesh

ARDC



Create Australian Research Data Cloud

Enhance existing capability through the integration of existing capability – ANDS, NeCTAR and RDS to establish an integrated data-intensive infrastructure system, incorporating physical infrastructure, policies, data, software, tools and support for researchers.





AARNET RESPONSE

AARNet is very strongly of the opinion that the "Create Australian Research Data Cloud" requires significant further definition.

Moreover, there are several stakeholders that are critical to the success of this priority that must be explicitly and formally engaged in the definition, subsequent deployment and operation of the services the Australian Research Data Cloud will provide.

At a minimum, these stakeholders are AARNet, the AAF, the Pawsey and NCI facilities, and representatives of Australia's research institutions, and these should be identified as being critically important players in the roadmap in addition to ANDS, RDS and NECTAR.



ARDC ISSUES

Governance

Operational Sustainability

Existing Infrastructure is Close to End of Life

Federated Services

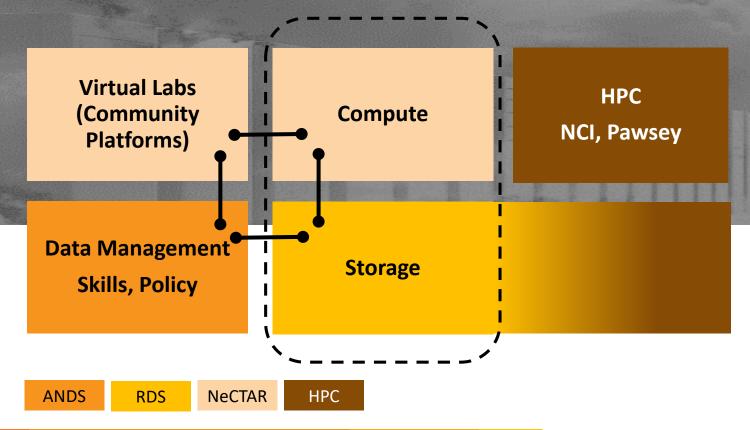
Industry leverage

Service Consistency, Integration and Ease of Use

Consolidation



AUSTRALIAN RESEARCH DATA CLOUD









THANK YOU

DATA AND RESEARCH INFRASTRUCTURE ROADMAP



https://docs.education.gov.au/node/42216

- ... more integrated, coherent and reliable system to meet the needs of data-intensive, cross-disciplinary and global collaborative research
- ... broadly align with the European Open Science Cloud and other global initiatives.
- ... support research data management from creation and discovery, through description and provenance, integration and storage, manipulation and analysis, and preservation.
- ... provide digital platforms that meet specific research requirements and integrate other data rich research infrastructure.
- ... support the sharing of informatics and software techniques to enable the deployment and wide use by researchers.

NATIONAL RESEARCH INFRASTRUCTURE FOCUS AREAS (9): DIGITAL DATA AND ERESEARCH PLATFORMS (2017)

Tier 1 HPC

Enhance existing national HPC

Explore governance integration of these Tier 1 high performance computing facilities



Enhance existing capability through the integration of existing capability

Research Networks

Enhance the capability and capacity of the Australian Research and Education Network

Access and Authentication

Enhance capability and international relationships in access, authentication and authorisation services



ERESEARCH

