

## NCRIS Data Showcase

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### DESCRIPTION

Since 2004, the Australian Government has invested over \$2.8 billion to deliver world-class research infrastructure<sup>1</sup>. The NCRIS network currently supports 27 national research facilities<sup>1</sup>. As a result of strong NCRIS investment, data volumes are ramping up<sup>2</sup>. Furthermore, many NCRIS discipline data centres/portals and national data discovery portals have been established to make data findable, accessible, interoperable and re-usable.

Currently, many NCRIS data intensive facilities have set up their own portals to enable easy data discovery. For example:

- Marine scientists can access marine data at the Australian Ocean Data Network Portal<sup>4</sup>: <https://portal.aodn.org.au/aodn/>
- Terrestrial ecosystem researchers can find useful datasets at TERN data portal: <http://portal.tern.org.au>;
- Atlas of Living Australia data portal (<http://spatial.ala.org.au>) provides more than 50 million occurrence records, based on specimens, field observations, surveys and its related tools;
- AURIN data portal (<http://data.aurin.org.au>) not only brings together more than 1,600 datasets previously difficult, time consuming or costly to obtain, but also enables the analysis of this data with tools.

This BoF will bring relevant NCRIS data intensive providers together (e.g. IMOS, TERN, AURIN and ALA) to provide an overview of their research datasets and related tools, and use an interactive Q&A to discuss the issues of how to make NCRIS data findable, accessible, interoperable and re-usable in an even easier way.

Outline:

- NCRIS data intensive facilities data and relevant tools highlights
- Q&A Panel discussion: how can we make data findable, accessible, interoperable and re-usable easier?
- Next steps and wrap up

Audience:

This BoF will be of interest to researchers and representatives of research institutions engaged in data-intensive activities. Attendees will have an opportunity to learn about the datasets and tools available to them from a range of NCRIS facilities. They will be asked to provide input on how to improve the NCRIS network and its individual data facilities.

### REFERENCES

1. National Collaborative Research Infrastructure Strategy (NCRIS). Available from: <https://www.education.gov.au/national-collaborative-research-infrastructure-strategy-ncris>
2. eResearch Framework: 2016 and Beyond (working paper third draft). Available from: <http://aero.edu.au/wp-content/uploads/2015/03/eResearch-Framework-Draft-3.pdf>
3. Force 11: guiding principles for findable, accessible, interoperable and reusable data. Available from: <https://www.force11.org/fairprinciples>
4. Australian Ocean Data Network Portal. Available from: <https://portal.aodn.org.au/aodn/>
5. TERN Data Portal. Available from: <http://portal.tern.org.au>
6. Atlas of Living Australia Data Portal. Available from: <http://spatial.ala.org.au>
7. AURIN Data Portal. Available from: <http://data.aurin.org.au>

## ABOUT THE SPEAKERS

Xiaobin Shen is the senior research analyst at the Australian National Data Service (ANDS) with particular interest in eResearch related technology, data management and community coordination. Prior to that, he was a research fellow at the University of Melbourne. Further details at <http://orcid.org/0000-0002-1161-8792> or follow him on Twitter @xiaobinshen.

Natasha Simons is a Research Data Management Specialist with the Australian National Data Service (ANDS), an organisation set up by the Australian Government to enhance the value of data for researchers, research institutions, and the nation. Located at Griffith University in Brisbane, Natasha serves on the Council of Australian University Librarians Research Advisory Committee and is an ORCID Ambassador. Further details: <http://orcid.org/0000-0003-0635-1998>

Andrew Treloar is the Director of Technology for the Australian National Data Service (ANDS) (<http://ands.org.au/>). In 2008 he led the project to establish ANDS. He is currently co-chair of the Research Data Alliance (<http://rd-alliance.org/>) Technical Advisory Board and Visiting Fellow at the Data Archive and Network Services organisation in the Netherlands (<http://dans.knaw.nl/>). During 2013-2015 he served as a member of the Belmont Forum Steering Committee for the activity described in this presentation. His research interests include data management and scholarly communication. Further details at <http://andrew.treloar.net/> or follow him on Twitter as @atreloar.

Siddeswara Guru is the Data Integration and Synthesis Manager of the Terrestrial Ecosystem Research network (TERN) since 2011. He initiates, coordinates and manages ecological data, e-infrastructure and synthesis projects apart from overseeing the data and information management activities across TERN. Previously, he was a Data Scientist and Project Officer at Integrated Marine Observing System, Data Management Officer at the CSIRO Marine and Atmospheric research and Post-doctoral Fellow at the CSIRO Tasmanian ICT Centre working on the environmental sensor data management. Currently, he is a member of Organisational Advisory Board (OAB) of Research Data Alliance (RDA).

Roger Proctor is the Director of the Australian Ocean Data Network (AODN) and has been a facility leader for the Integrated Marine Observing System (IMOS) since 2008. In this role it is his responsibility to promote open data within the Australian marine and climate science community and to seek interoperable solutions for discovery, access and download of marine data collections. Part of this role includes the development of robust information infrastructure for IMOS and the AODN. The AODN also contributes to the international marine data community and Roger is the Australian National Coordinator for Oceanographic Data Management for the IOC International Ocean Data and Information Exchange ([www.iode.org](http://www.iode.org)), and a Steering Committee member of the EU Ocean Data Interoperability Platform ([www.odip.eu](http://www.odip.eu)). Further details: <http://orcid.org/0000-0002-6926-2821>

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Serryn Eagleson is the Manager of Data, Business and Analytics for the Australian Urban Research Infrastructure (AURIN). Serryn's PhD in Geographical Information Systems (GIS) and the design of administrative boundaries, completed in 2003 has contributed to changes in the allocation of administrative boundaries across Australia. Subsequent to completing her PhD, Serryn researched and lectured in spatial analysis at Curtin University in Western Australia and returned to Melbourne to work as Associate Director for the Centre for Spatial Data Infrastructures at the University of Melbourne and lead numerous research projects for the City of Melbourne.

Dr Lyle Winton is Deputy Director (Research Platforms) of Nectar. Lyle oversees the NeCTAR program of research cloud operations and improvements. His role involves working across the national research cloud partners to aid in the governance, coordination and management of a program of works to increase operations and improve the Nectar Research Cloud. An important aspect of this role is engaging with Australia's technical leadership across the 8 Nectar cloud partners and within the wider eResearch and research communities. Lyle was most recently eResearch director at Victoria University, facilitating researcher use of national and state based infrastructure, as well as developing institutional capability. Lyle's career in the research sector has spanned research management, e-research analyst with the Victorian eResearch Strategic Initiative and the eScholarship Research Centre, and with a research background in experimental high energy physics and distributed computing, involving large-scale international collaborations. Lyle's professional background is in the IT areas of software design, implementation and infrastructure development.