Hope at the crossroads of HASS and GLAM

The HASS and Indigenous Research Data Commons

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PRESENTED BY

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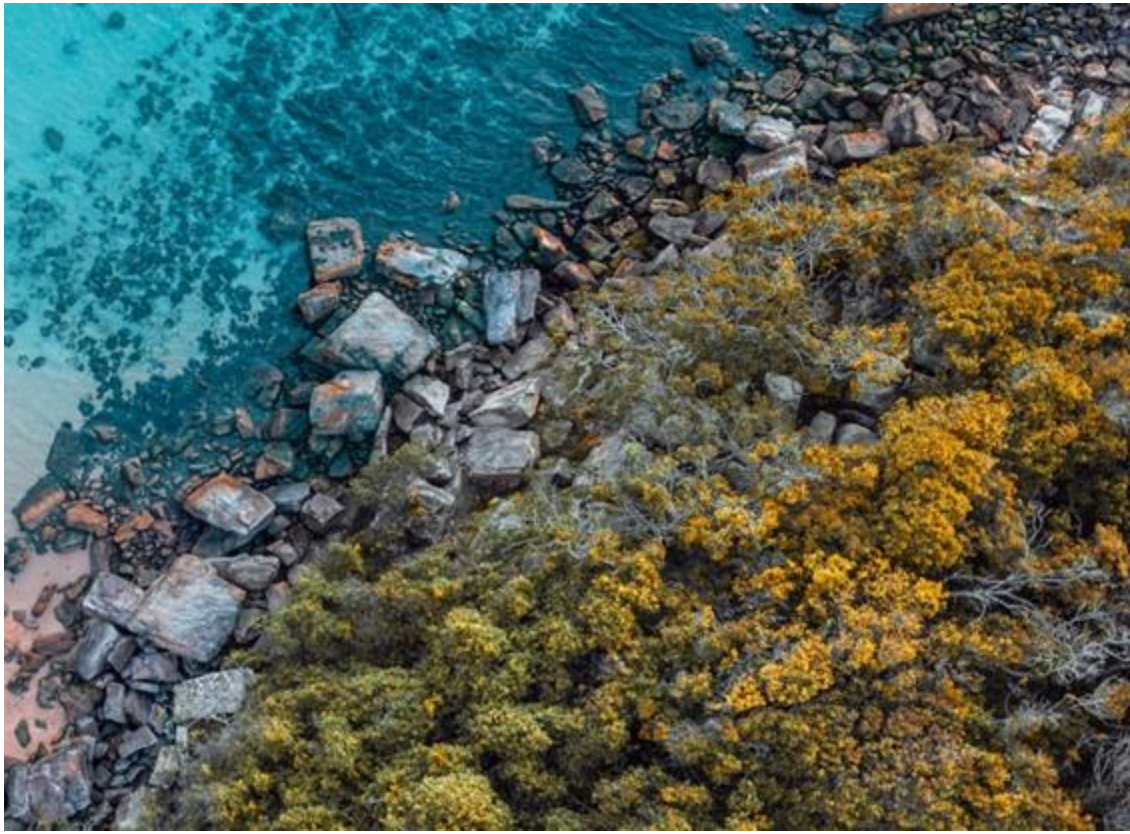
ACKNOWLEDGEMENT OF COUNTRY

We acknowledge and celebrate the First Australians on whose traditional lands we meet, and we pay our respect to their elders past, present and emerging.



Astronomy Australia Ltd.
Atlas of Living Australia ala.org.au
AuScope
Australian Access Federation
ACCESS Australian Earth System Simulator National Research Infrastructure
ANFF
APPF Australian Plant Phenomics Facility
ARDC Australian Research Data Commons
AURIN aurin.org.au
ANSTO
Bioplatforms Australia
CSIRO
HIA Heavy Ion Accelerators
IMOS Integrated Marine Observing System
CSIRO
Marine National Facility
Microscopy Australia
NCI Australia
National Imaging Facility
SEASIM National Sea Simulator
Pawsey
Phenomics Australia Enabling precision medicine
PHRN Population Health Research Network
tern Ecosystem Research Infrastructure
Therapeutic Innovation Australia

Supporting NCRIS Capability
aarnet

About the ARDC

WHAT IS A RESEARCH DATA COMMONS?

A research data commons brings together people, skills, data, and related resources such as storage, compute, software, and models to enable researchers to conduct world class data-intensive research.

HUMANITIES, ARTS, SOCIAL SCIENCES (HASS) AND INDIGENOUS RESEARCH DATA COMMONS

Improving Indigenous Research Capabilities

Connections

Language Data Commons of Australia

Social Sciences

Australian Creative Histories and Futures

Australian Internet Observatory

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CHALLENGES

- Differing funding streams
- Differing organisational priorities
- Cultural and Institutional differences
- Varied infrastructure requirements and approaches to data management
- Disparities in technical approaches and expertise
- Legal and ethical challenges

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OPPORTUNITIES

- Enhanced access to resources
- Interdisciplinary research opportunities
- Innovative technologies and tools
- Shared expertise and resources
- Cross-institutional partnerships
- Cultural heritage preservation
- Educational opportunities

Vision

User-centric design must lie at the heart of Australia's NDRI system.

Australian researchers, from all disciplines, should have access to cutting-edge, sovereign NDRI capabilities to continue delivering world-class research and innovation.

Outcome 1

UNDERPINNED BY TRAINING FRAMEWORKS FOR RESEARCHERS AND NRI WORKFORCE

Opportunity:

Supporting Australia's NDRI workforce will enhance the quality of the nation's research.

Challenge:

Without a highly skilled NDRI workforce, Australia will not reach its full potential.

Approach:

Governments should work with NDRI providers to address staff shortages and expand workforce training opportunities.

Outcome 2

RESPONSIVE TO TECHNOLOGICAL AND SOCIETAL SHIFTS

Opportunity:

NDRI technological advancements support Australian researchers to perform unprecedented research.

Challenge:

Rapid advances and societal shifts can lead to obsolete and ineffective digital resources.

Approach:

Coordinated, expert-informed strategic planning should underscore Australia's future NDRI system.

Outcome 3

CONSISTENT IN ITS STANDARDS FOR DATA COLLECTION, CURATION AND ACCESS

Opportunity:

Ensuring Australia's growing volume of research data is as FAIR as possible will offer benefits to researchers.

Challenge:

Increasing volumes of research data are being generated that are not FAIR/CARE compliant.

Approach:

A sector-wide data management framework that supports FAIR/CARE compliance nationally.

Outcome 4

INTEGRATED ACROSS LEVELS OF COMPUTING AND DATA INFRASTRUCTURE

Opportunity:

A seamlessly integrated NDRI ecosystem will support Australia's researchers.

Challenge:

Researchers have rapidly expanding NDRI demands but may lack expertise to use data efficiently and effectively.

Approach:

Pursue integrated access to different tiers of compute and shared data.

Outcome 5

CYBERSECURE, PARTICULALRLY FOR NATIONAL-SCALE DATA AND COMPUTING

Opportunity:

Enforcing Australia's NDRI cybersecurity protects nationally valuable and sensitive digital resources.

Challenge:

Cybersecurity threats are growing as research data sensitivities increase.

Approach:

NDRI providers should support assessment and mitigation of cybersecurity risks, underpinned by system-wide trust and identity solutions.

Outcome 6

MAXIMISED BY OPENLY AVAILABLE RESEARCH SOFTWARE TOOLS

Opportunity:

Supporting research software tools as critical NDRI capabilities ensures efficient and effective research conduct.

Challenge:

Software is critically important, yet its place in NDRI is not well defined.

Approach:

Research software tools should be recognised with equal importance to NDRI computing, data and networking capabilities.

Implementation

An independent NDRI Working Group will develop an NDRI Investment Plan to implement the NDRI Strategy. The NDRI Investment Plan will be underpinned by stakeholder engagement and guided by the NRI Advisory Group. The Investment Plan will be funded, implemented, and monitored through NCRIS.

In collaboration with the Literature Production Centre team at Yirrkala School in North East Arnhem Land, the Indigenous Data Network digitised and archived early learning readers, books, and language learning materials that were at critical risk from black mould and environmental disasters. This preservation effort is part of the Improving Indigenous Research Capabilities project, using digital infrastructure developed through the HASS and Indigenous Research Data Commons. These vital resources will now be safeguarded and utilised for teaching, learning, and research within these communities well into the future.
Image: Levi Murray.

HOPE

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