





# 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.































































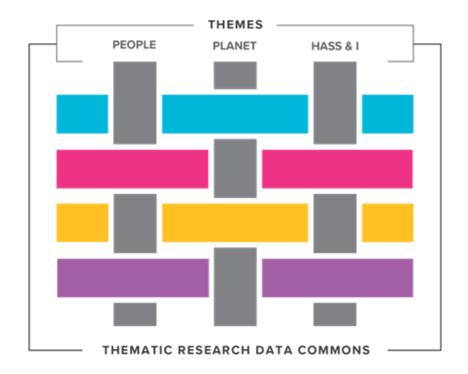
#### THE ARDC STRATEGY

#### **OUR PURPOSE**

To provide Australian researchers with competitive advantage through data.

#### **OUR MISSION**

To accelerate research and innovation by driving excellence in the creation, analysis and retention of high-quality data assets.







#### **MEMBERS**











































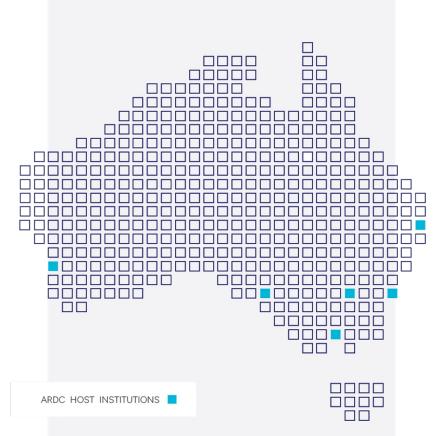












#### **About the ARDC**



# 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.





#### **OUR AUDIENCES**



#### Researchers

Researchers from any discipline

(academic, but also government and industry)



# People who work with researchers

Infrastructure providers
Universities / Research Institutions
Data Managers
Trainers
Librarians
eResearch / Research

**Support Offices** 



#### **Key stakeholders**

Australian Government
Department of Education (funders)
/ NCRIS

Government / Policy
International Data Organisations
National Data Organisations
ARDC Members

#### WHAT WE DO

The ARDC runs programs and facilitates partnerships that ensure Australian researchers are internationally competitive through having access to high-quality data assets, platforms, infrastructure, policies, people and training to transform our lives.

# About the ARDC

 $\mathbf{A} \mathbf{C} \mathbf{D} \mathbf{C}$ 









Findable

Accessible

Interoperable

Reusable













#### **ARDC PROGRAMS**



Thematic Research
Data Commons



Translational Research
Data Challenges



National Data Assets



**Platforms** 



Research Software



Digital Research Skills



**Data Retention** 







#### NATIONAL DATA ASSETS PROGRAM

The National Data Assets initiative was a multi-year, \$20 million+ investment by ARDC to provide Australian researchers with access to a portfolio of national-scale data assets that support leading-edge research.







# **HeSANDA - Health Studies Australian National Data Asset**

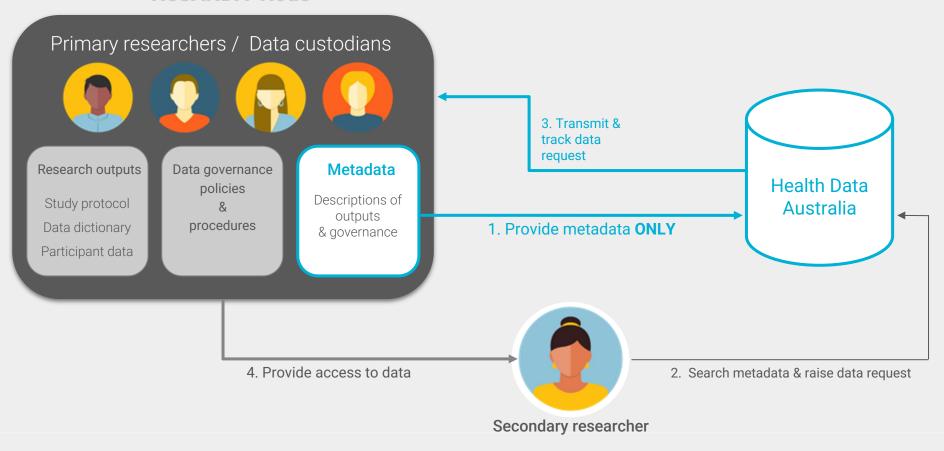
A strategic partnership with the Australian health research community to build a distributed national data asset from the outputs of health studies such as clinical trials to support health data sharing & secondary use.

• \$3.5M co-investment over 3 years





#### **HeSANDA 'Node'**



#### RESEARCH PLATFORMS

















































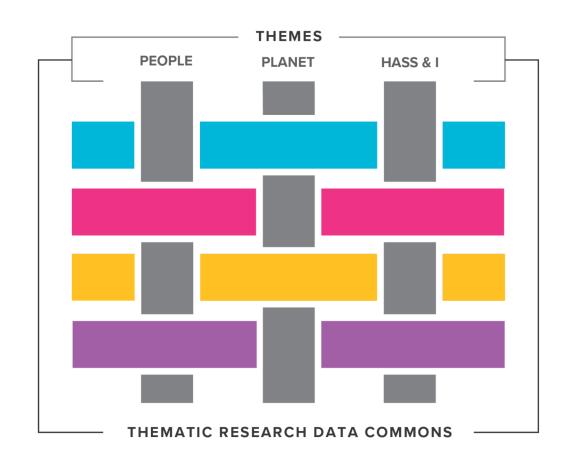


Domain-oriented online environments that draw together research data, models, analysis tools and workflows to support collaborative research across institutional and discipline boundaries.





# THEMATIC RESEARCH DATA COMMONS



**About the ARDC** 















National-scale data infrastructure for HASS and Indigenous research and decision making



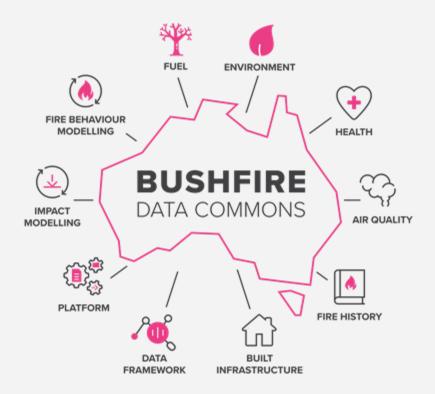












Research resilience, response and recovery

# TRANSLATIONAL RESEARCH DATA CHALLENGES: BUSHFIRES

#### **Understanding bushfire**

- Behaviour
- Impact





#### **ARDC SERVICES**



ARDC Nectar Research Cloud



ARDC Research Vocabularies Australia



ARDC Research Data Australia



**Persistent Identifiers** 



**Communities of Practice** 



Engagement, Expertise and Support







Platforms for information exchange, problem solving, peer support and development of best practice

#### **COMMUNITIES OF PRACTICE**

- Sensitive Data Community
- Machine Learning Community of Practice for Australia (ML4AU)
- Identifiers for Instruments in Australia
- Australian Research Data Management Community
- Data Management Plans Interest Group
- Australian Research Containers Orchestration Service (ARCOS)







193,945 research data collections are catalogued on ARDC's Research Data Australia.



Research Data Australia is Australia's portal to find research data and associated projects, researchers, and data services.





#### HUB OF EXPERTISE: HELP TACKLING YOUR DATA CHALLENGES



# POLICY & PROCEDURES

Data Governance
Sensitive Data
Data Retention
Data Management
Maturity



### ARCHITECTURE & SYSTEMS

Systems
Architecture
Data Architecture
Data Management
Planning tools
(Trusted) Data
Repositories



## COMPUTE & ANALYSIS

Research software
Al/Machine
Learning & Data
Cloud Compute
Containerising Data
& Code



# FAIR DATA PRINCIPLES

Findable Data
Persistent IDs
Metadata
Interoperable Data
Vocabularies
Data Licensing
Data Quality



#### SKILLS DEVELOPMENT

Skills Frameworks
Learning Design &
Evaluation
Training Materials
Development
Community Building







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