Opening up the access to research
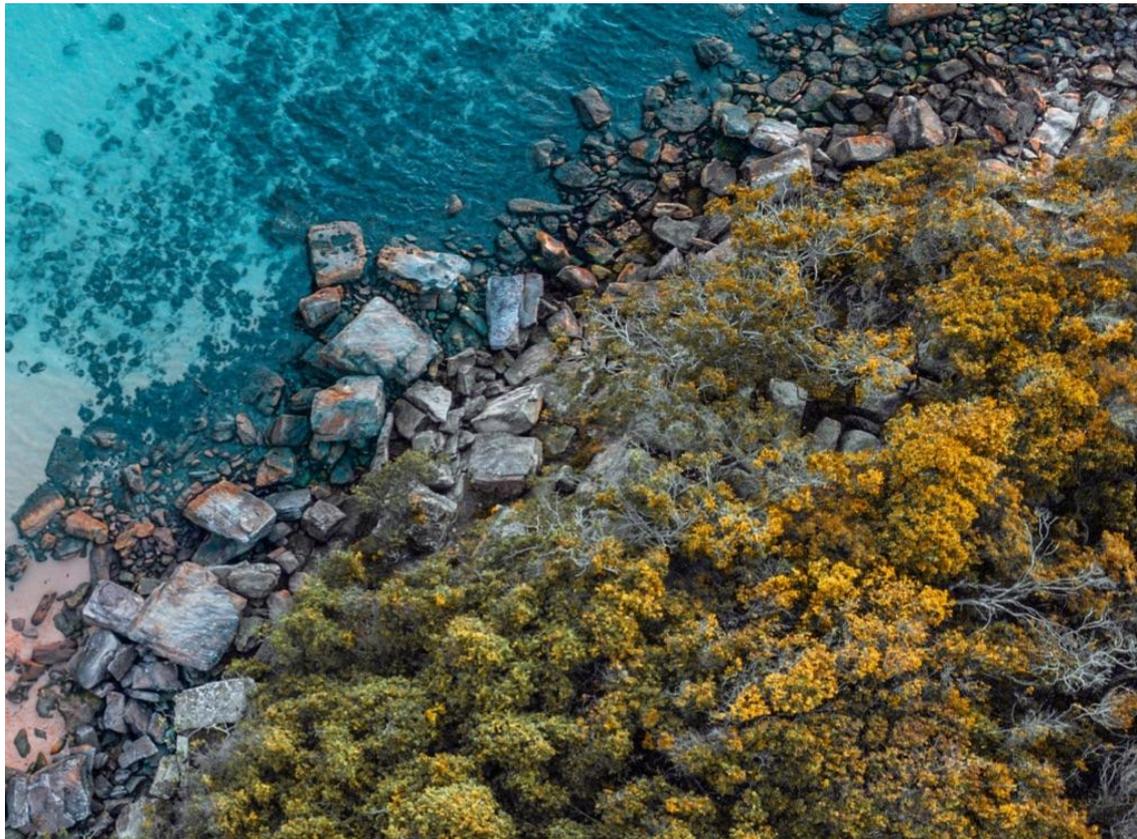
https://doi.org/10.5281/zenodo.7135808

26 October 2022

PRESENTED BY

Matthias Liffers, Research Data Specialist (Informatics)

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.

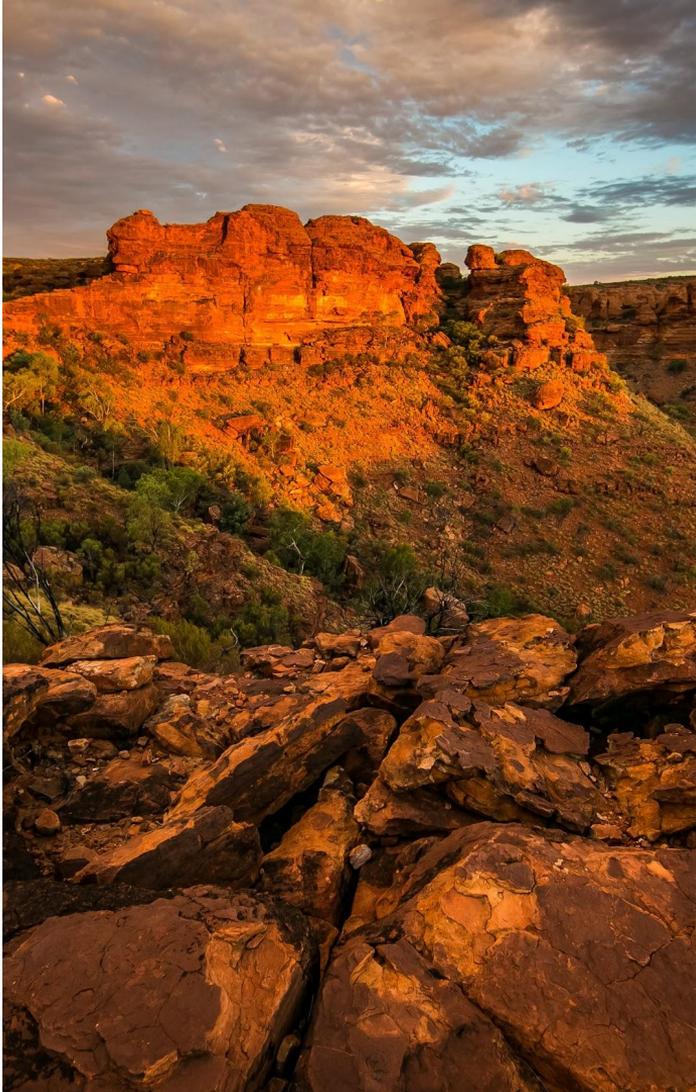**ARDC**

Australian Research Data Commons

Purpose

To provide Australian researchers with competitive advantage through data.
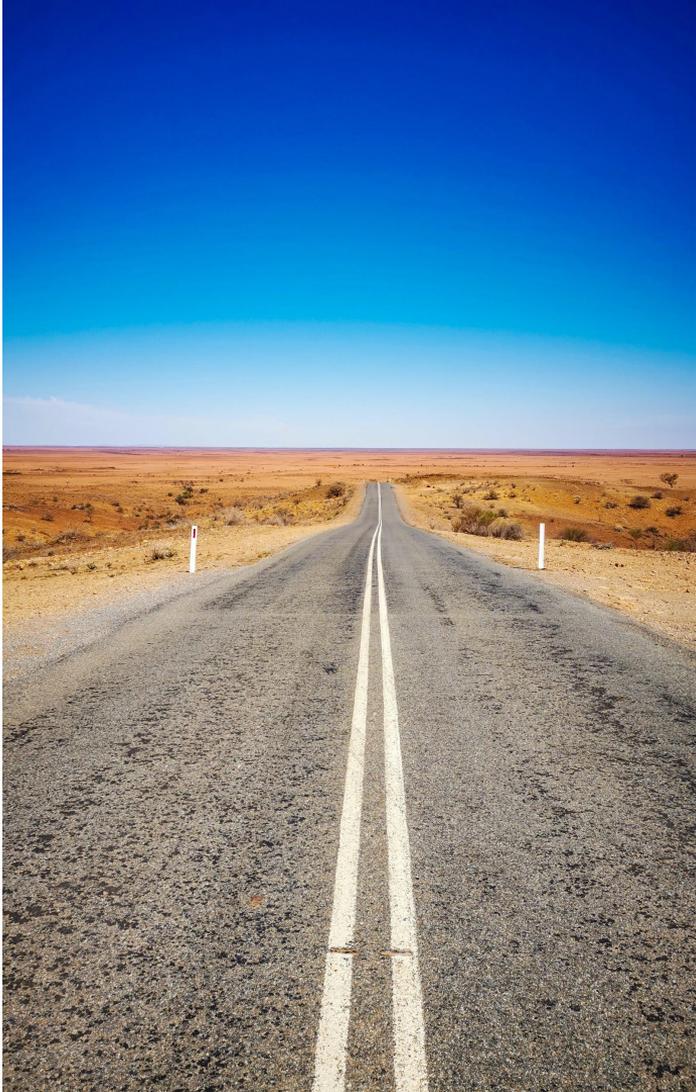
Mission

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

Opening access to research…

- … software

- … computing infrastructure

- … data from clinical trials

- … activities metadata

Everything we do is underpinned by the FAIR principles

FAIR Policy for ARDC and ARDC Co-Investment Project Materials

The ARDC recognises that open and accessible outputs of research drive research innovation, impact, and quality. Researchers and the broader community benefit from the knowledge produced by publicly-funded activities.

The ARDC is committed to maximising the impact of outputs of the ARDC and ARDC co-investment project activities by ensuring they are disseminated as widely as possible and in a manner which enables maximum reuse by humans and machines.

The ARDC has developed a FAIR policy for outputs both from ARDC projects and from co-investment projects we are a partner in.

The ARDC requires the FAIR principles to be applied to its own materials and to outputs from co-investment projects unless there is a valid case why the principles cannot be applied, and this is accepted by the ARDC.

Download the FAIR Policy below.

Application of the Policy

Last updated

18 May 2022

Type

Page

Categories
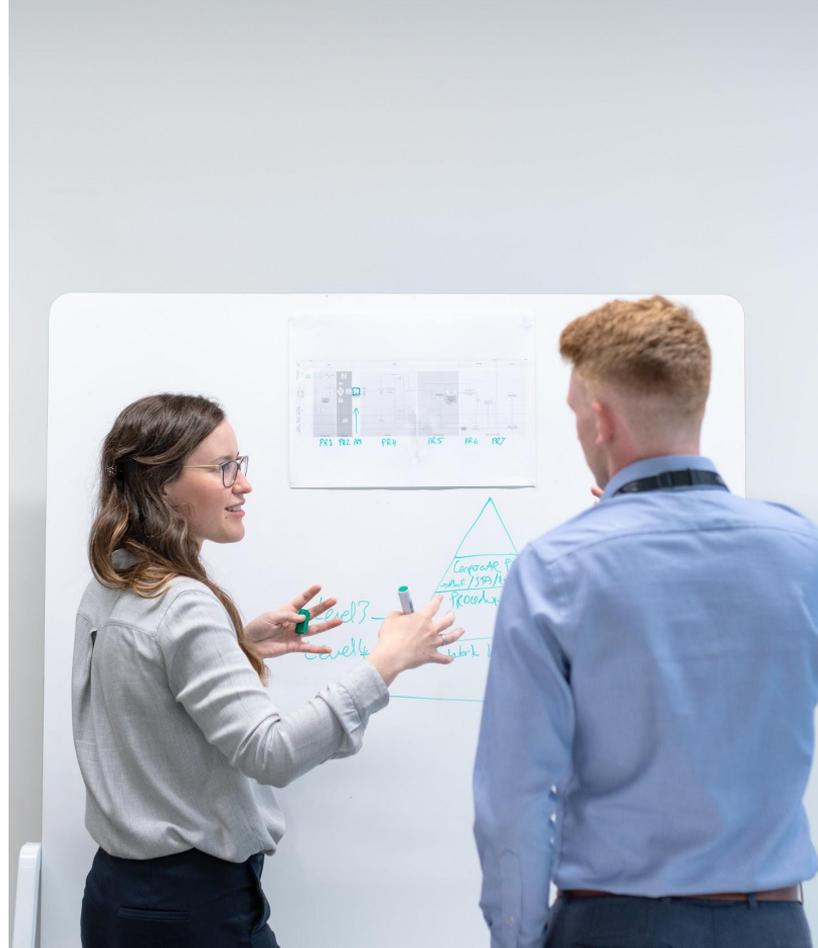
[About ARDC](#)

Research Topic

[All](#)

Related Resources

Page

Research software

Visible, recognised, and valued

Opening research software

- Digital skills uplift - the Carpentries
  - https://carpentries.org/
- Guide to making code citable
  - https://doi.org/10.5281/zenodo.5003989
- Adding software type to Scholix
  - http://www.scholix.org/
- Making our own code open
  - https://github.com/au-research/

- Would you like to know more?
  - https://ardc.edu.au/resource-hub/working-with-research-software/

ARDC Nectar Research Cloud

Democratising access
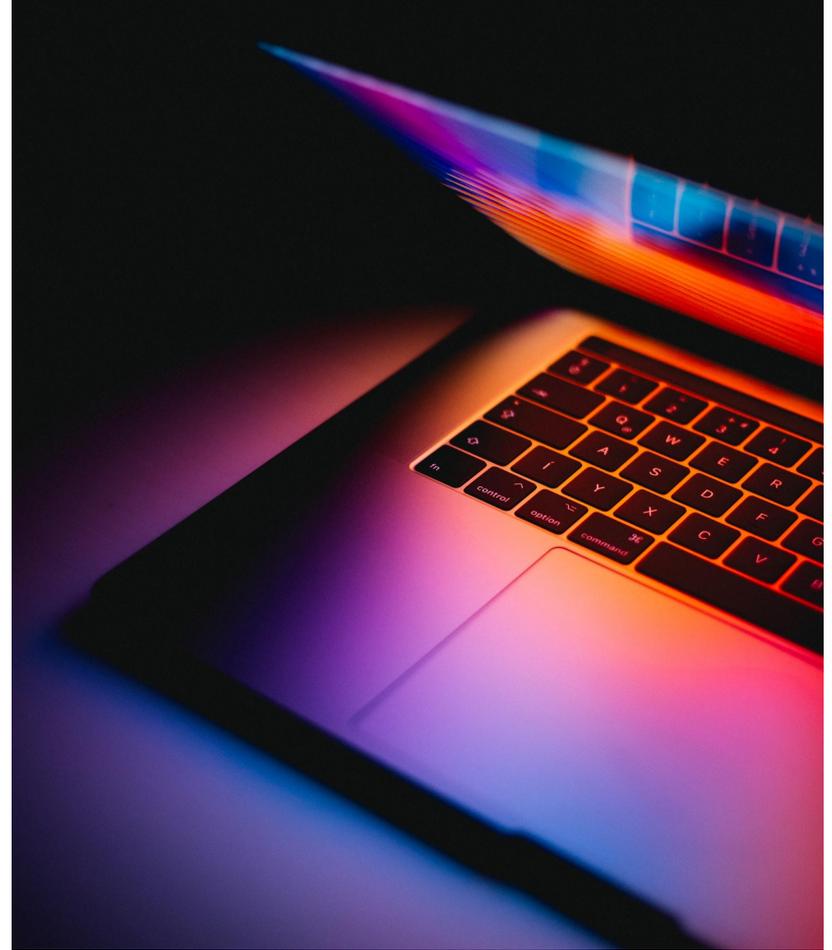
Most cloud computing is aimed at IT specialists, not researchers

Democratising access to the cloud

- Nectar virtual desktop service
  - https://desktop.rc.nectar.org.au/about/

- Upcoming JupyterHub service

- Where to next..?

- Would you like to know more?

https://ardc.edu.au/services/ardc-nectar-research-cloud/

OPERATING SYSTEM

CentOS 7

VIEW DETAILS →

OPERATING SYSTEM

Fedora Scientific

VIEW DETAILS →

OPERATING SYSTEM

GeoDesktop

VIEW DETAILS →

OPERATING SYSTEM

Neurodesktop

VIEW DETAILS →

OPERATING SYSTEM

Ubuntu 20.04 (Focal)

VIEW DETAILS →

The Virtual Desktop Service is a service of the Australian Research Data Commons (ARDC) and utilises the Nectar Research Cloud. The Australian Research Data Commons (ARDC) is enabled by the National Collaborative Research Infrastructure Strategy Program (NCRIS). Read more about the ARDC...

ARDC
Australian Research Data Commons

NCRIS
National Research Infrastructure for Australia
An Australian Government Initiative

QUICKLINKS

Home
Terms of Service

EXPLORE

Cloud Basics
Cloud Services

HELP

Request Support
Tutorials

EXTERNAL RESOURCES

ARDC Home
Nectar Dashboard
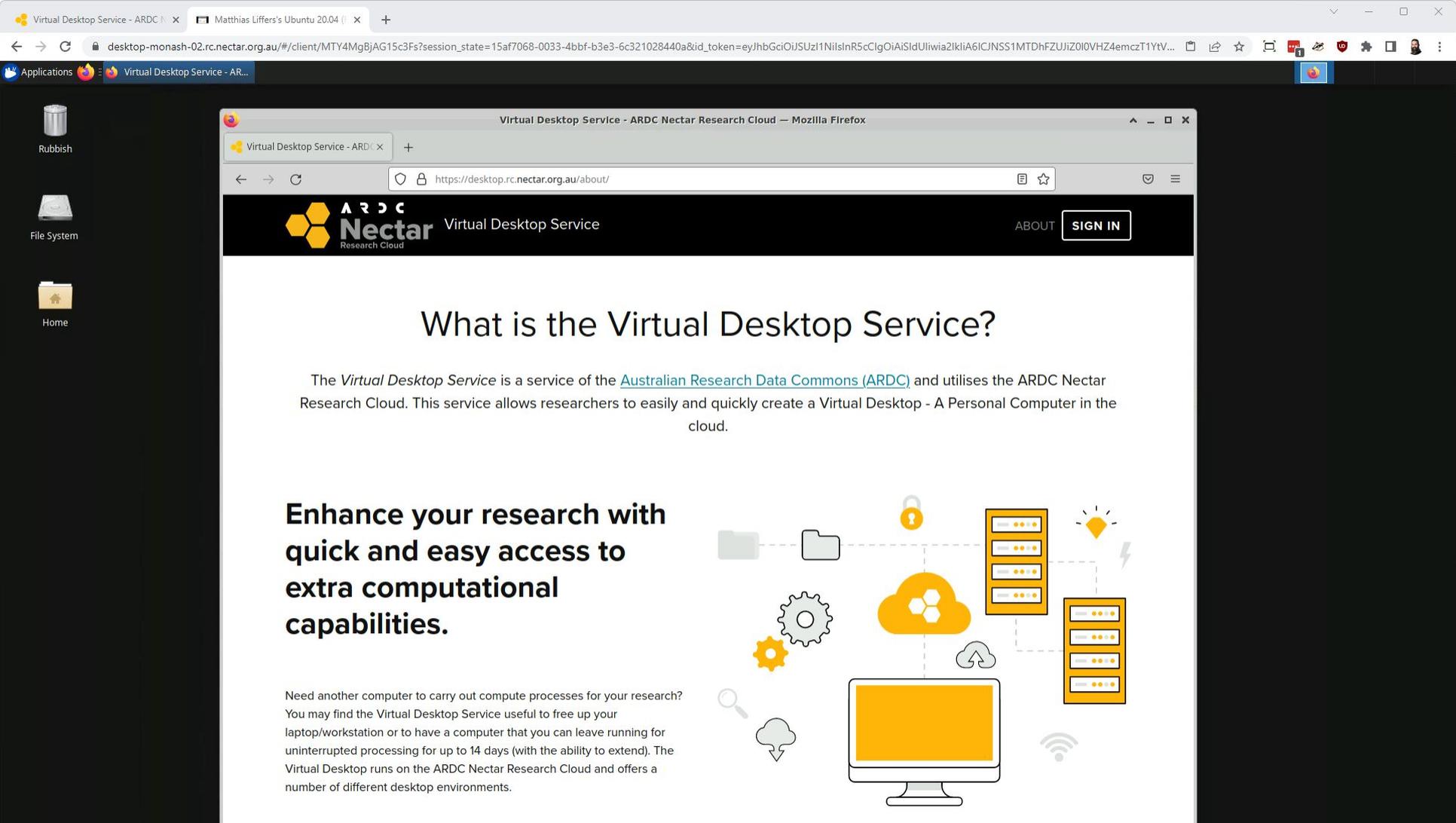
What is the Virtual Desktop Service?

The *Virtual Desktop Service* is a service of the [Australian Research Data Commons (ARDC)](#) and utilises the ARDC Nectar Research Cloud. This service allows researchers to easily and quickly create a Virtual Desktop - A Personal Computer in the cloud.

Enhance your research with quick and easy access to extra computational capabilities.

Need another computer to carry out compute processes for your research? You may find the Virtual Desktop Service useful to free up your laptop/workstation or to have a computer that you can leave running for uninterrupted processing for up to 14 days (with the ability to extend). The Virtual Desktop runs on the ARDC Nectar Research Cloud and offers a number of different desktop environments.

Democratising access to the cloud

- ● Nectar virtual desktop service
    - ○ https://desktop.rc.nectar.org.au/about/

- ● Upcoming JupyterHub service

- ● Where to next..?

- ● Would you like to know more?

https://ardc.edu.au/services/ardc-nectar-research-cloud/
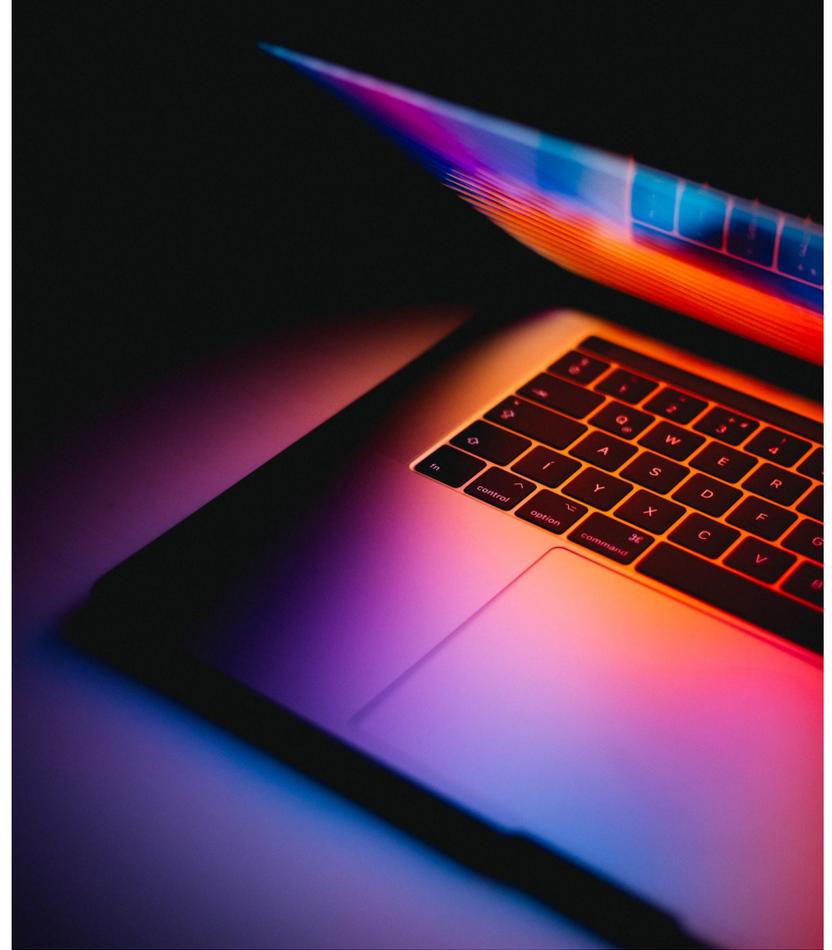
Nectar is underpinned by, and supports, free and open-source software

Health studies national data asset
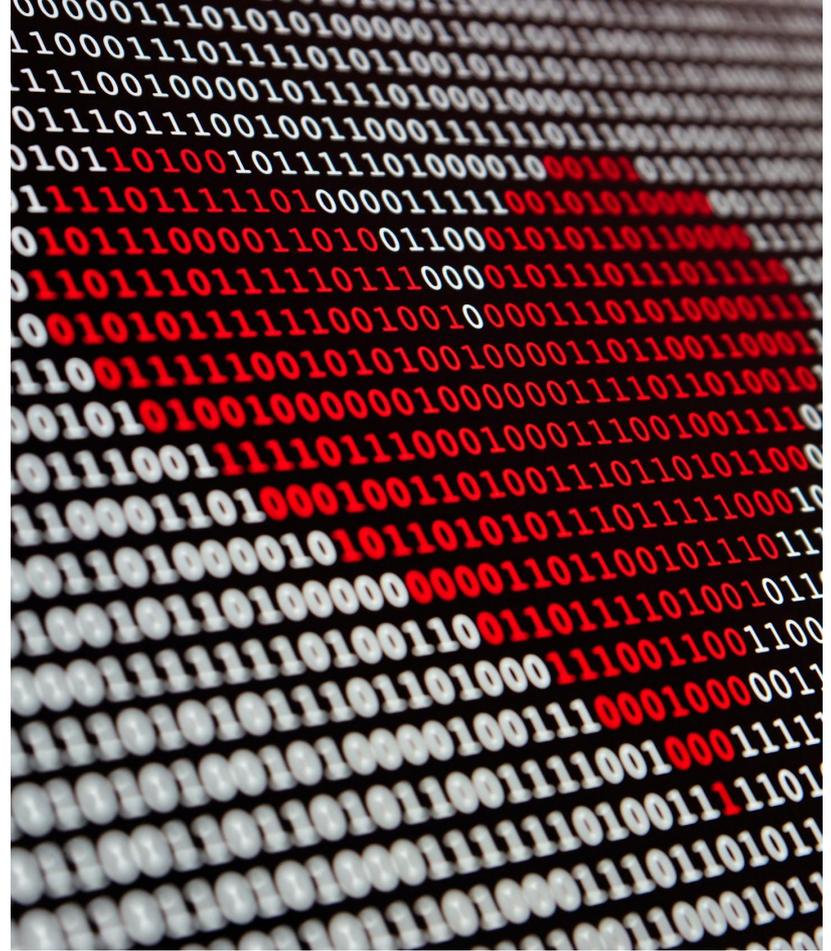FAIR but *deliberately* not open

Not all data can be open

Making sensitive data FAIR

- Establishing community consensus

- 9 nodes representing 72 organisations

- Would you like to know more?

https://ardc.edu.au/project/hesanda-infrastructure-development/

RAiD

The Research Activity iDentifier

Why RAiD?

The research *project* is what ties other research entities together

- Grants
- Contributors
- Publications
- Data
- Software
- Instruments

hdl.handle.net/13.1010/463UQDMR

Principle investigator orcid.org/0000-0002-3843-0000
Data manager orcid.org/0000-0002-3639-2080

Lead ror.org/00rqy9422
Partner ror.org/03b94tp07

Grant doi.org/10.8948/908234D93EAF
Dataset doi.org/10.1594/PANGAEA.726855
Article doi.org/10.1038/nphys1170
Instrument doi.org/10.1337/jdlc-tima

Sample XXAB000IH

Local storage uq.edu.au/114/32
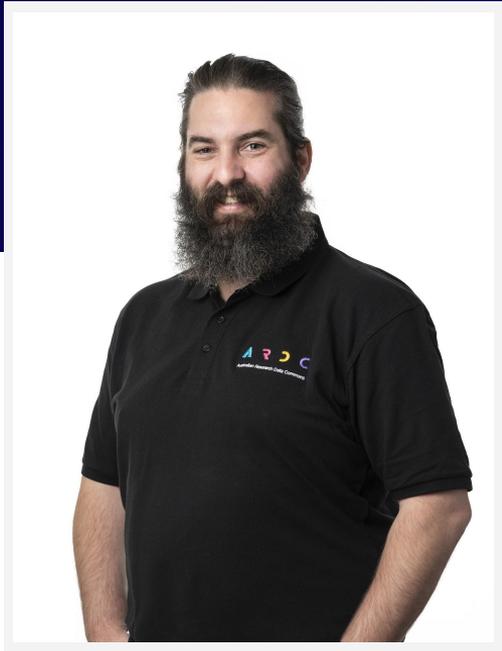**Cloud storage** 79.152.127.243

Subproject hdl.handle.net/12.4372/487

RAiD

- ISO standard in final stages

- Consultation on metadata schema

- Contributing RAiD to global projects

- Would you like to know more?
  - https://www.raid.org.au/
  - contact@raid.org

ARDC
Australian Research Data Commons

NCRIS
National Research
Infrastructure for Australia
An Australian Government Initiative

ARDC is
enabled
by NCRIS

PRESENTED BY

Matthias Liffers
Research Data Specialist (Informatics)

🌐 ardc.edu.au

✉ matthias.liffers@ardc.edu.au

🐦 @mpfl

in https://www.linkedin.com/in/matthias-liffers/

iD https://orcid.org/0000-0002-3639-2080

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THANK YOU

🌐 ardc.edu.au

✉ contact@ardc.edu.au

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