



Waipapa  
Taumata Rau  
University  
of Auckland



# Data Management Planning

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RDM Programme (DMP team)  
Centre for eResearch

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# Overview of this session

- What is a **data management plan (DMP)** and why should you create one?
- What are the common sections and content of a DMP? (Plus, a few **best practices** to consider)
- How can a DMP support your research practices across the **research data lifecycle**?

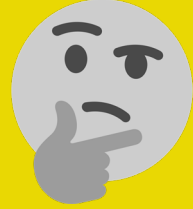


## Activities

Challenges

Introductions

## Introductions

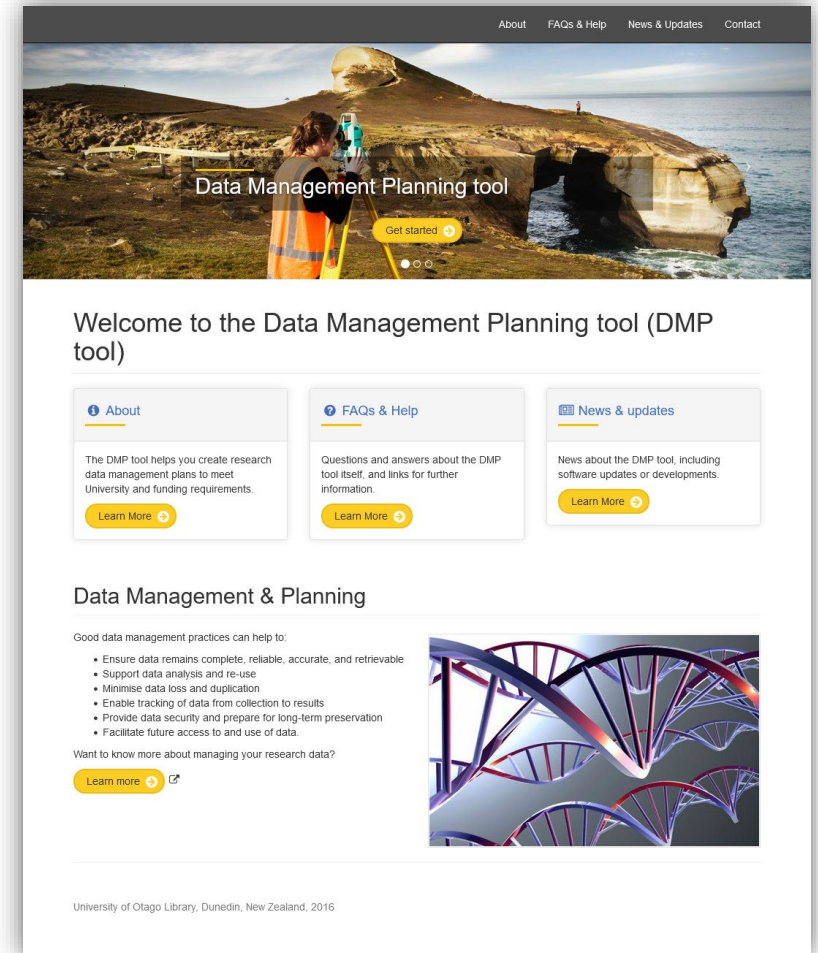


1. What is your **current role or career stage**?
2. What **research discipline** best describes your research area?

# What is a data management plan?

A Data Management Plan (DMP) helps researchers to consider and document important decisions about data created or collected for a research project.

- Project specific
- Required for projects involving **sensitive** or **restricted** research data, recommended for all
- Prompts conversations, captures decisions, clarifies roles and responsibilities and helps researchers to align with University policies and processes





# Benefits of data management planning

## Compliance & Good Research Practice

### Protect

Helps organise and store data securely to **reduce the risk of data loss** or unauthorised use of project data.

### Connect

Keeps project information in one place where it **can be shared & discussed** with project team members, reducing errors and uncertainty.



A top-down view of a workspace with a laptop, a cup of coffee, and a notebook, all in a dark blue color scheme. The laptop is open and a person's hands are typing on the keyboard. The coffee cup is on a saucer to the left. A spiral notebook is to the right. The background is a dark blue gradient with faint, circular, light blue patterns.

# Structure and content

# DMP tools and templates

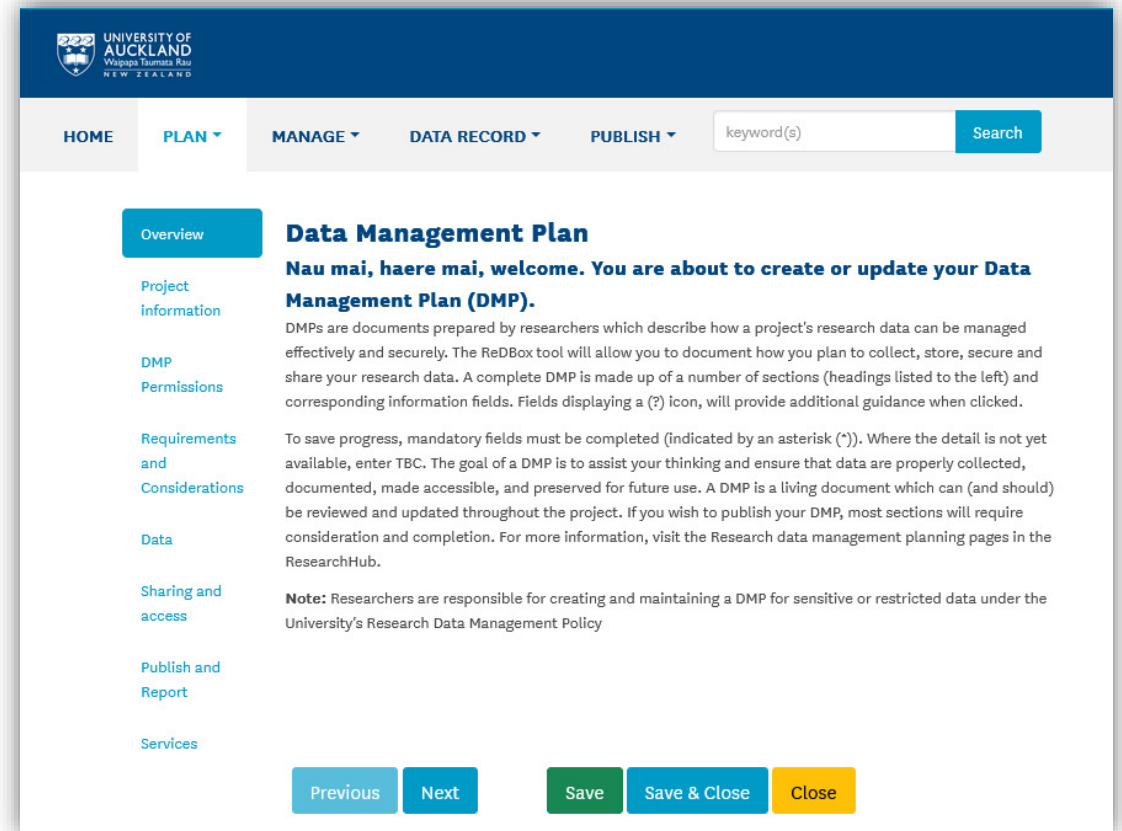
## Online DMP tools



## DMP templates



## Bespoke / configured DMP tools





## Conversations

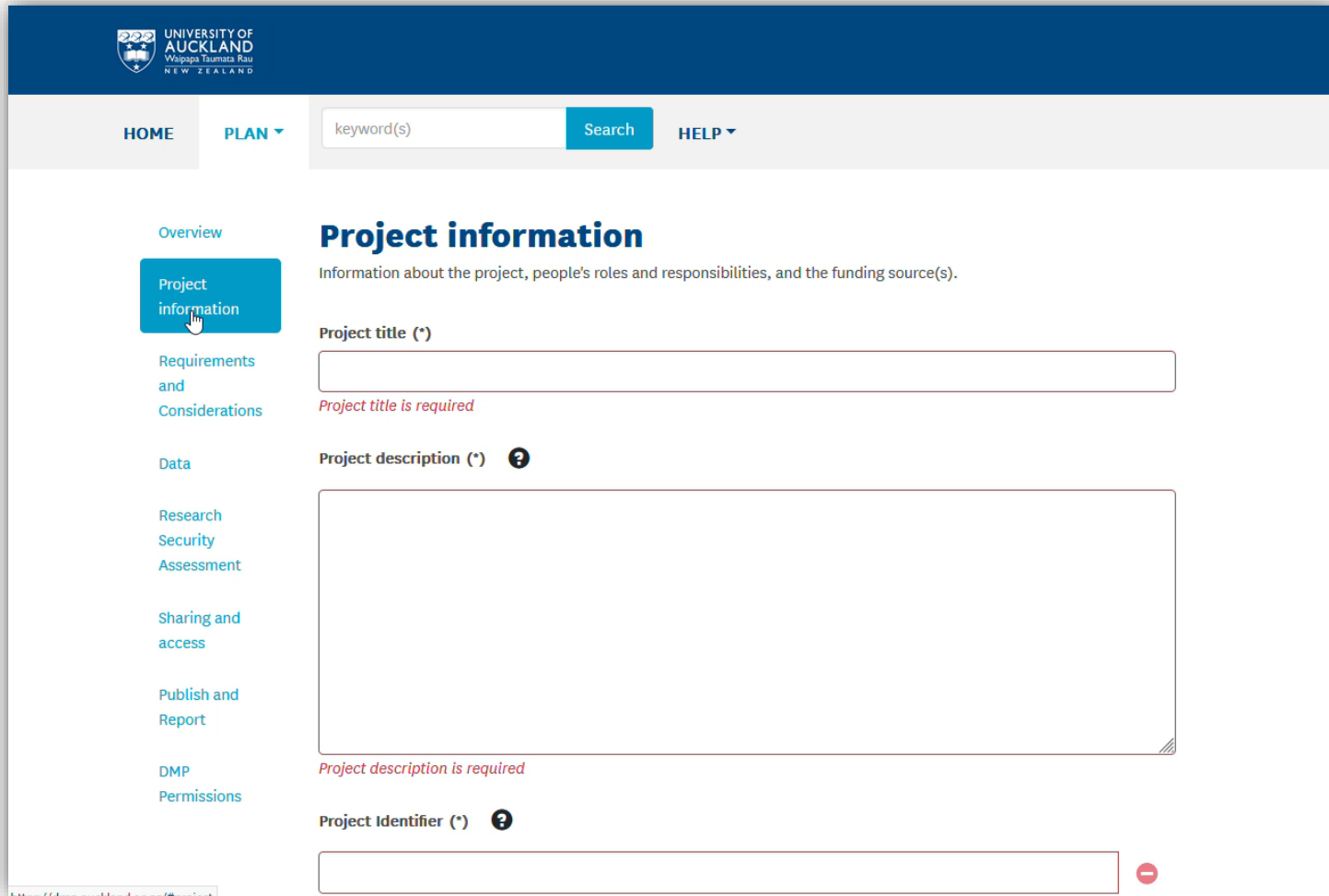


### **Zoom poll...**

What does your organisation recommend or support to create DMPs?



# Project information



The screenshot shows the 'Project information' section of the University of Auckland DMP form. The header includes the University of Auckland logo and navigation links: HOME, PLAN (with a dropdown arrow), a search bar with 'keyword(s)' and a 'Search' button, and a 'HELP' link with a dropdown arrow. The left sidebar contains a list of sections: Overview, Project information (highlighted with a blue button and a mouse cursor), Requirements and Considerations, Data, Research Security Assessment, Sharing and access, Publish and Report, DMP, and Permissions. The main content area is titled 'Project information' and includes a subtitle: 'Information about the project, people's roles and responsibilities, and the funding source(s)'. It contains three required fields: 'Project title (\*)' with a text input box and a red error message 'Project title is required'; 'Project description (\*)' with a large text area, a help icon, and a red error message 'Project description is required'; and 'Project Identifier (\*)' with a text input box, a help icon, and a red minus sign icon.

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HOME PLAN keyword(s) Search HELP

Overview  
Project information  
Requirements and Considerations  
Data  
Research Security Assessment  
Sharing and access  
Publish and Report  
DMP  
Permissions

## Project information

Information about the project, people's roles and responsibilities, and the funding source(s).

Project title (\*)

Project title is required

Project description (\*) ?

Project description is required

Project Identifier (\*) ?

- **Purpose** of the research
- **People involved** and their **roles and responsibilities**
- **Funding**

### *A good DMP...*

- Contains the minimal information required to identify the project.
- Allows for information to be pulled through, where possible, to prevent double entry.



# Requirements

- **Data policies** applying to the project (include institutional, funder, government, publisher and other policies)
- Identifies **classification** and **sensitivity** of research data

## Make sure you know about...

### ***Institutional policies (examples)***

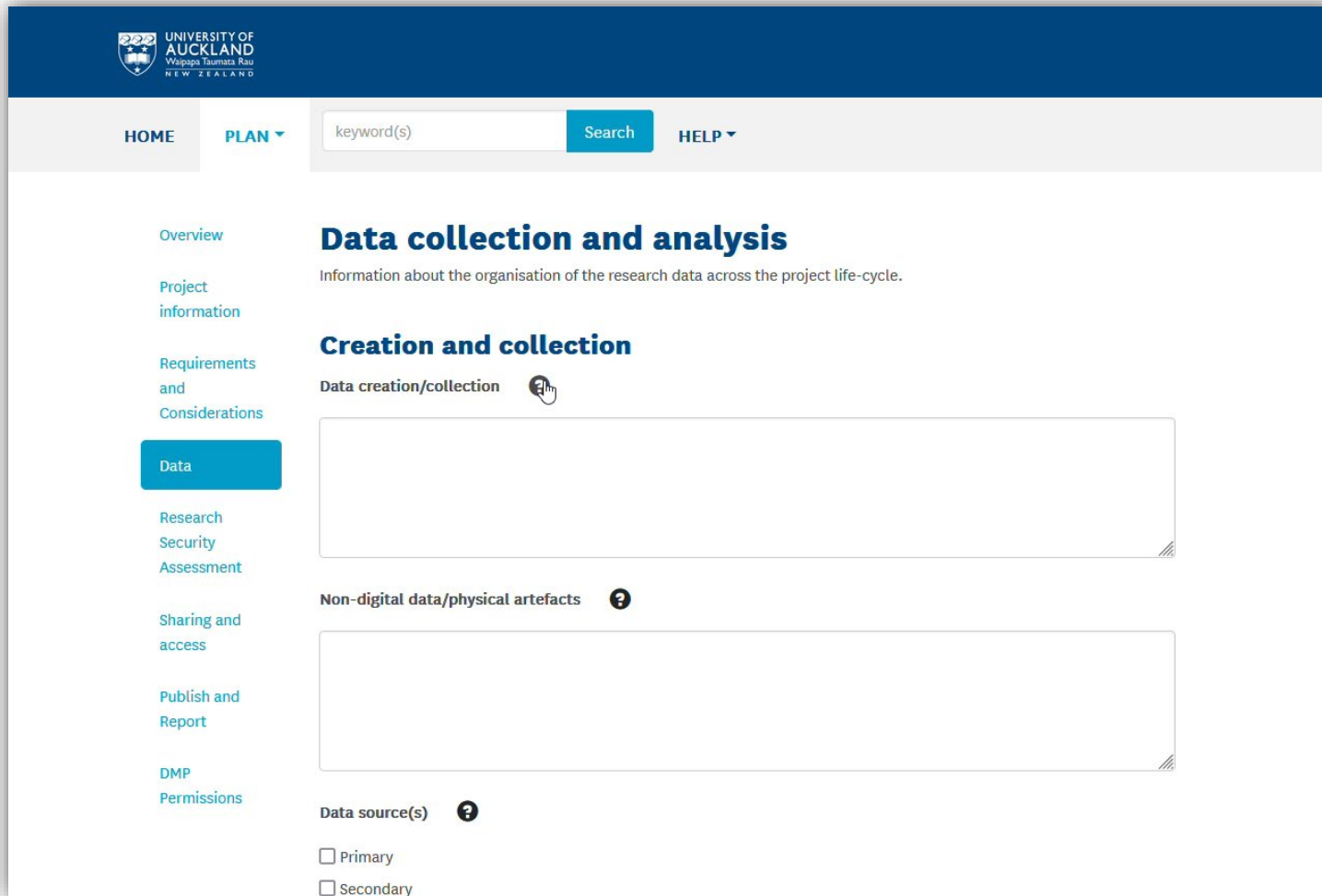
- Research data management policy
- Research integrity policy
- Intellectual property policy
- Privacy policy
- IT security & generative AI guidance

### ***Other policies***

- [MBIE Open Research policy](#)
- [Trusted Research – Protective Security Requirements](#)
- [Research Charter for Aotearoa New Zealand](#)



# Data



The screenshot shows the 'Data collection and analysis' form on the University of Auckland website. The form is divided into several sections: 'Data creation/collection', 'Non-digital data/physical artefacts', and 'Data source(s)'. The 'Data creation/collection' section has a large text area for input. The 'Non-digital data/physical artefacts' section also has a large text area. The 'Data source(s)' section includes checkboxes for 'Primary' and 'Secondary' data sources. The form is titled 'Data collection and analysis' and includes a subtitle 'Information about the organisation of the research data across the project life-cycle.' The form is part of a larger system with a navigation menu on the left and a search bar at the top.

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HOME PLAN keyword(s) Search HELP

Overview  
Project information  
Requirements and Considerations  
**Data**  
Research Security Assessment  
Sharing and access  
Publish and Report  
DMP Permissions

## Data collection and analysis

Information about the organisation of the research data across the project life-cycle.

### Creation and collection

Data creation/collection

Non-digital data/physical artefacts

Data source(s)

☐ Primary  
☐ Secondary

- **Describes the data** that will be created or collected and in **what format**.
- Where the data will be **stored** and how it will be **curated** (organisation, formatting and documentation)
- Sections for **data source** considerations, **metadata and documentation, storage, software and equipment**.



# Considerations for data collection

- What data\* will be created or collected?  
(e.g., type, format, volume, whether pre-existing or new)?  
  
\*Raw physical data (inputs) + raw digital data (outputs) + derived digital data + final datasets
- How will the data be collected/created?
- What standards or methodologies will be used for data collection?
- What quality assurance processes will be adopted?
- Do the chosen formats and software enable sharing and long-term access to the data?



# Considerations for data reuse

If you plan to use existing (secondary) data you will need to understand and comply with any terms of use under which the data may be used or shared.

## **Considerations:**

1. Is it identifiable or re-identifiable data? If yes, ethics approval is required.
2. Confirm that participant consent included use for secondary analyses. If no, ethics approval and potential re-consent are required.
3. Check the quality of the data.
4. Check licenses and understand how the data can be used
5. If you reuse data, cite it.



# Data creation

 **DMP** **Data** / Creation and collection / Data creation/collection

## Data creation/collection

Identifiable data:

- Name and contact details of participants (entered into REDCap for duration of project)
- Interview audio files, containing potentially identifiable information (.mp3, WAV) ~30-90 mins per session; ~10-100 MB per file depending on quality = 1-5 GB for 20-30 sessions.

De-identified data:

- Online survey data (raw + processed + final dataset)  
Raw data will be collected using REDCap. At the end of data collection, a complete file from REDCap will be downloaded and saved as an 'original' and unchanged version of the data as a .csv file. A copy of the data will be saved and used for statistical analyses.
- Interview transcripts x40 (docx, txt, pdf) ~5000-10,000 words per transcript = ~ 2-5 MB
- Coding and thematic analysis files (NVivo - .nvp or Excel - .xlsx) <100MB total
- App usage data obtained from external app vendor (raw + processed; .csv)
- Participant metadata, including demographic info, interview date (excel; .csv) = <1MB



# Digital research data storage

**When selecting appropriate research data storage, you will need to take into account:**

- Are you collecting personal (identifiable) data?
- Who needs access?
- How much storage space do you need?
- How will the data be protected against loss?
- How will you ensure the data is secure?
- What does your funder and/or organisation require?

**Be aware of the 3-2-1 rule for backups**



At least  
**3** copies



Using at least **2**  
different storage media



At least  
**1** copy offsite

## Project specific

People/access

Legal, ethics etc. conditions

Files, incl. README & DMP

Security classification

Governance

Retention period

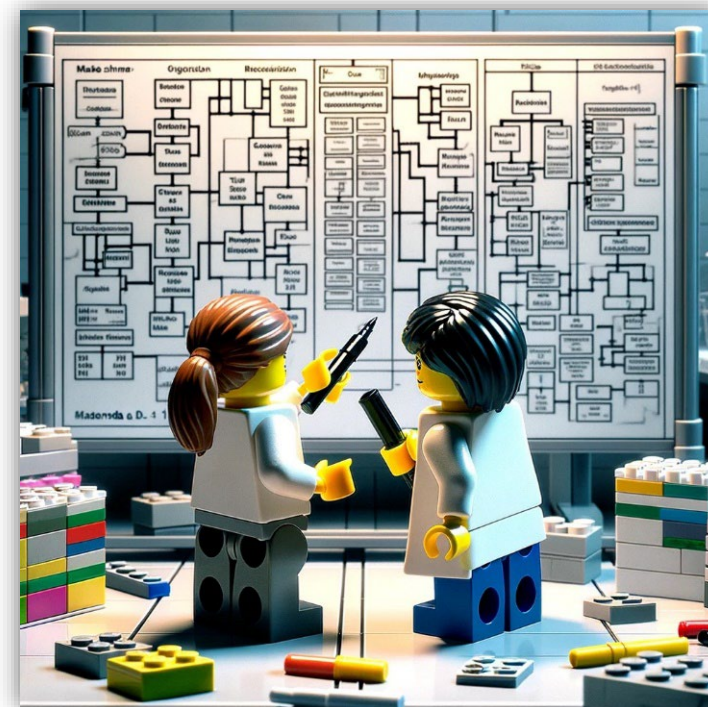
# What metadata do you need?

Metadata is a list of information you expect will be needed for the data to be read and interpreted in the future.

- Ensures data can be shared, discovered and reused
- Facilitates reproducibility and scientific integrity

## Metadata across the research data lifecycle:

- **Who** created the data?
- **What** does the data file contain?
- **When** were the data created?
- **Where** were the data created?
- **Why** were the data created?
- **How** were the data created?





# Considerations



DMP

Requirements and Considerations / Considerations / ...

## Considerations

Considerations that apply to this project

- ☐ Ecologically sensitive (e.g., endangered species)
- ☐ Ethics approval required
- ☐ Health or medical
- ☐ Indigenous/Cultural
- ☐ Industry partners
- ☐ Intellectual property (e.g. commercialisation, patent)
- ☐ Personally Identifiable Information
- ☐ Political
- ☐ Protective security (e.g., International collaboration/export controls)
- ☐ Other

Data considerations

## Ethics

Ethics approval number

Ethics type

Please select

- Identifies **legal, ethical, data sovereignty, IP** and other considerations for the research data.
- **Ethics**
  - Consent, protection of privacy, access controls
- **Data sovereignty**
  - Plans to consult and enable rights of stakeholders and indigenous peoples involved in the research
- **Contracts and copyright.**



# Ethical considerations

 **DMP** **Requirements and Considerations** / **Ethics** / **Ethical considerations and management of data**

What are the **ethical considerations** surrounding the research data?

## Informed consent

- Has consent been obtained for data preservation, sharing and possible reuse?

## Privacy considerations

- Are personally identifiable information being collected? What processes will you use to de-identify data to ensure confidentiality? What is the risk of re-identification?

## Access controls, including storage and transfer of data

- Where and for how long will data be kept (including when collected)? With whom, how and for what purpose can it be shared? How will access be restricted, and on whose authority will this be controlled? What are the conditions of data sharing, including applying for an appropriate license?

# Sharing and Access



The screenshot shows the 'Sharing and access' section of the University of Auckland's DMP tool. The header includes the University of Auckland logo and navigation links: HOME, PLAN (with a dropdown arrow), a search bar with 'keyword(s)' and a 'Search' button, and a HELP link with a dropdown arrow. The left sidebar contains a list of sections: Overview, Project information, Requirements and Considerations, Data, Research Security Assessment, Sharing and access (highlighted in blue), Publish and Report, and DMP Permissions. The main content area is titled 'Sharing and access' with a subtitle 'Information about management of and access to the data, now and in the future.' Below this, there are two input fields: 'The primary Data Owner is:' with the text 'Sarah Hopkins' and 'The primary Data Custodian is:' which is currently empty. Further down, the section 'During the project' is visible, with a subtitle 'Data access and sharing during the project' and a question mark icon. A large empty box is provided for details, and a red minus icon is visible on the right side of this box.

- Who will own and have **access to the data**.
- How will the data will **preserved and shared** for reproducibility and/or reuse.
- **Retention and disposal** procedures and provisions.



# Archive and retention

**When you have finished working with your research data, you should...**

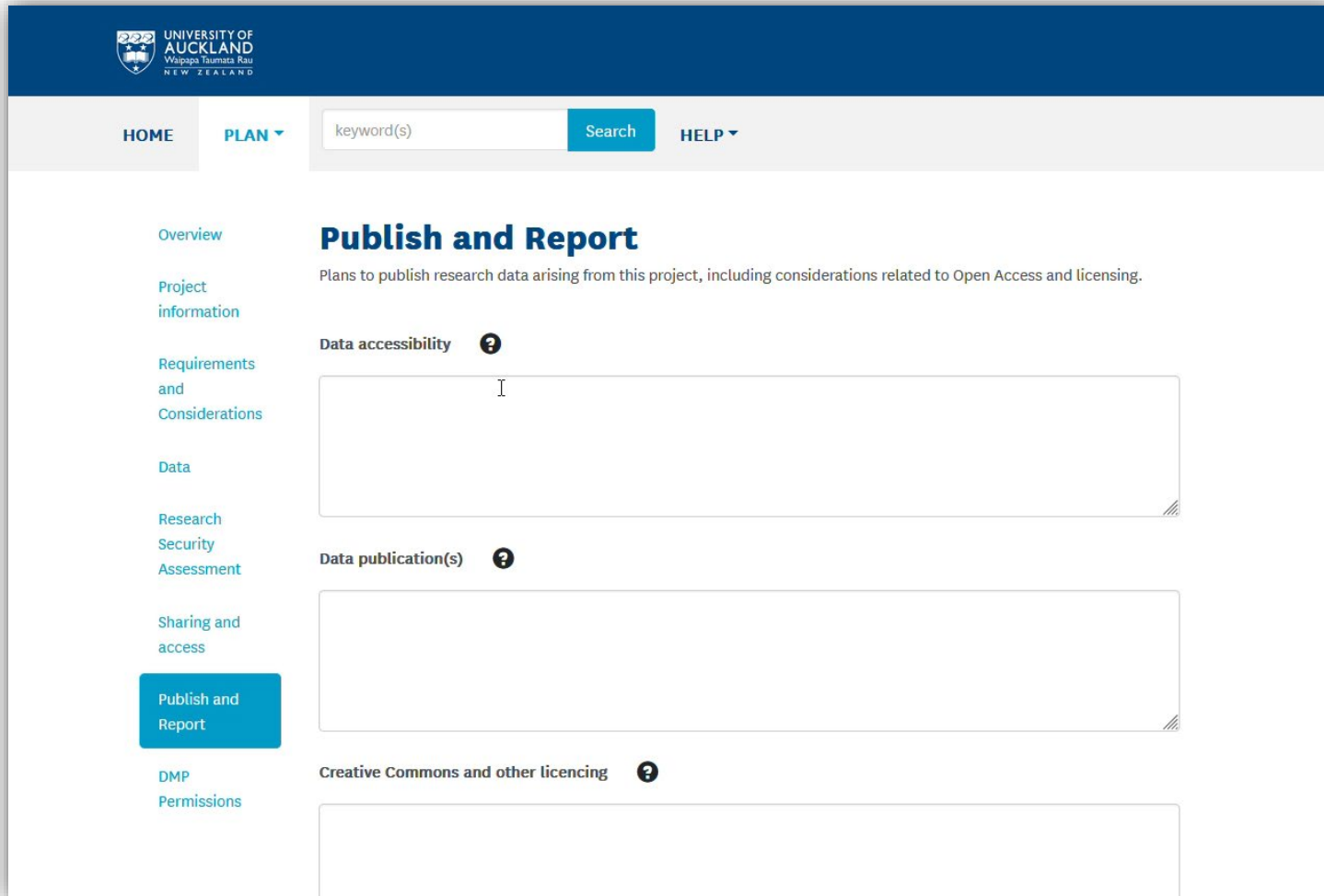
- Evaluate your digital research files to identify data  from debris 
- Ensure that data is stored safely, in a suitable file format, and accompanied by adequate and self-explanatory documentation (e.g., README)
- Digitise **non-digital research data** whenever possible  
(Guidance <https://www.openaire.eu/non-digital-data-guide>)

## **Research data retention**

- What is the minimum retention period? (for transparency and reproducibility, compliance with regulations and ethical requirements, verification of research findings)
- During this period, the data should be **archived** on secure organizational storage and non-digital data held locally.



# Publish and Report



The screenshot shows the 'Publish and Report' form on the University of Auckland website. The header includes the University of Auckland logo and navigation links: HOME, PLAN (with a dropdown arrow), a search bar with the placeholder 'keyword(s)' and a 'Search' button, and a HELP link with a dropdown arrow. The left sidebar contains a list of navigation items: Overview, Project information, Requirements and Considerations, Data, Research Security Assessment, Sharing and access, Publish and Report (highlighted in a blue box), DMP, and Permissions. The main content area is titled 'Publish and Report' and includes a subtitle: 'Plans to publish research data arising from this project, including considerations related to Open Access and licensing.' Below this, there are four sections, each with a title, a help icon, and a text input field: 'Data accessibility', 'Data publication(s)', 'Creative Commons and other licencing', and 'DMP'. The 'Data accessibility' field contains a cursor. The 'Data publication(s)' field is empty. The 'Creative Commons and other licencing' field is empty. The 'DMP' field is empty.

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HOME PLAN keyword(s) Search HELP

Overview  
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Data  
Research Security Assessment  
Sharing and access  
Publish and Report  
DMP Permissions

## Publish and Report

Plans to publish research data arising from this project, including considerations related to Open Access and licensing.

Data accessibility ?

Data publication(s) ?

Creative Commons and other licencing ?

DMP

- Describes how the data and/or metadata will be made **discoverable and shared**.
- Provides name of **data repository**, data catalogue or registry where data and/or metadata will or could be shared.
- States the **license** under which data may be publicly shared.



# Am I enabling FAIR data principles?

F

**Findable**

Metadata (descriptive information), DOI and process for access are external facing, human and machine readable E.g., internet search results, bibliographic databases.

A

**Accessible**

(others know how to access)

I

**Interoperable**

Metadata is with data and disciplinarily specific. Combining and using data are enabled by format and file type(s). E.g., Data Management Plan, Protocol, README.txt

R

**Reusable**

# Australian Antarctic Data Centre

Data management and spatial data services

[Menu](#)[Login](#)[Support](#)[Australian Antarctic Data Centre](#) / [Discover and Manage Data](#) / [Records](#) / chlorophyll\_65-02

## Metadata details

[Request DOI](#)[Edit record](#)

### chlorophyll\_65-02

[View the full metadata record](#)

#### Citation

Hirawake, T. (2005) Long-term variation of surface phytoplankton chlorophyll a in the Southern Ocean during 1965-2002, Ver. 1, *Australian Antarctic Data Centre* - doi:10.4225/15/5a384270f2b61, Accessed: 2025-04-07

#### Title

Long-term variation of surface phytoplankton chlorophyll a in the Southern Ocean during 1965-2002

#### Data Centre

Australian Antarctic Data Centre, Australia

#### DOI

doi:10.4225/15/5a384270f2b61

#### Created Date

2005-08-22

#### Revision Date

2017-12-18

#### Parent record

None

Unique persistent  
identifier (DOI)  
= **F**indable

## Datasets and documents

### chlorophyll\_65-02

Long-term variation of surface phytoplankton chlorophyll a in the Southern Ocean during 1965-2002

[Download dataset](#) [View dataset contents](#)

Public

Submitted 22 Aug 2005

### chlorophyll\_65-02

Long-term variation of surface phytoplankton chlorophyll a in the Southern Ocean during 1965-2002

[Download dataset](#)

Released - AAD Only

Submitted 22 Aug 2005

## Related links

[Download point for the data - Excel spreadsheet](#)

[Download point for the data - papers - AAD Staff Only](#)

[Citation reference for this metadata record and dataset](#)

## Access

These data are publicly available for download from the provided URL. A copy of some of the referenced publications is available for download by AAD staff only.

## Temporal Coverages

• **Start date:** 1965-11-23 - **Stop date:** 2002-12-08

## Spatial Coverages



Latitude	Longitude
<b>Northernmost:</b> 24.567	<b>Westernmost:</b> 100.147
<b>Southernmost:</b> -54.985	<b>Easternmost:</b> 137.95

Describe access conditions  
= **Accessible**

## Science Keywords

- EARTH SCIENCE > CLIMATE INDICATORS > ATMOSPHERIC/OCEAN INDICATORS > TELECONNECTIONS > ANTARCTIC OSCILLATION
- EARTH SCIENCE > CLIMATE INDICATORS > ATMOSPHERIC/OCEAN INDICATORS > TELECONNECTIONS > EL NINO SOUTHERN OSCILLATION (ENSO)
- EARTH SCIENCE > BIOSPHERE > ECOSYSTEMS > AQUATIC ECOSYSTEMS > PLANKTON
- EARTH SCIENCE > OCEANS > OCEAN CHEMISTRY > PIGMENTS > CHLOROPHYLL
- EARTH SCIENCE > BIOSPHERE > ECOLOGICAL DYNAMICS > ECOSYSTEM FUNCTIONS > BIOMASS DYNAMICS

## Additional Keywords

- CHLOROPHYLL A
- JARE
- PHYTOPLANKTON
- SOUTHERN OCEAN

## Locations

- OCEAN > INDIAN OCEAN
- OCEAN > SOUTHERN OCEAN
- OCEAN > PACIFIC OCEAN
- GEOGRAPHIC REGION > POLAR

## Use Constraints

This data set conforms to the CC BY Attribution License (<http://creativecommons.org/licenses/by/4.0/>).

Please follow instructions listed in the citation reference provided at [http://data.aad.gov.au/aadc/metadata/citation.cfm?entry\\_id=chlorophyll\\_65-02](http://data.aad.gov.au/aadc/metadata/citation.cfm?entry_id=chlorophyll_65-02) when using these data.

## Project

## ISO Topic

## Dataset Language

- BIOTA
- CLIMATOLOGY/METEOROLOGY /ATMOSPHERE
- OCEANS

- ENGLISH

## Originating Centre

## Dataset Progress

## IDN Node

- JARE

- COMPLETE

- AMD/AU
- CEOS
- AMD

## Publications

- Fukuchi, M. (1980) Phytoplankton chlorophyll stocks in the Antarctic Ocean, J. Oceanogr. Soc. Jpn., 36, 73-84
- Fukuchi, M., and S. Tamura (1982) Chlorophyll a distribution in the Indian sector of the Antarctic Ocean in 1978-1979, Antarct. Rec., 74, 143-162
- Fukuda, Y., M. Ohno, K. Iwanami, and H. Touju (1986) Chlorophyll a content in the surface and subsurface waters along the course of the Shirase to Antarctica in 1984-1985, Antarct. Rec., 30, 103-112
- Hamada, E., A. Taniguchi, M. Okazaki, and Y. Naito (1985) Report on the phytoplankton pigments measured during the JARE-25 Cruise to Syowa Station, Antarctica, November 1983 to April 1984, ARE Data Rep., 89, Natl. Inst. Polar Res., Tokyo, 103
- Hattori, H., and M. Fukuchi (1988) Report on the phytoplankton pigments concentrations, zooplankton and benthos sampling during the JARE-27 cruise, November 1985 - April 1986, JARE Data Rep., 28, Natl. Inst. Polar Res., Tokyo, 135
- Hirawake, T., and M. Fukuchi (2004) Chlorophyll a concentration of phytoplankton during the cruises of 40-44th Japanese Antarctic Research Expedition in 1998-2003, JARE Data Rep., 31, Natl. Inst. Polar Res., Tokyo, 279
- Ino, Y., and M. Fukuchi (1984) Report on chlorophyll a distribution along the course of the Fuji in 1981-1982, Antarct. Rec., 81, 38-44
- Kanda, H., and M. Fukuchi (1979) Surface chlorophyll a concentration along the course of the Fuji to and from Antarctica in 1977-1978, Antarct. Rec., 66, 37-49
- Midorikawa, T., K. Nomura, Y. Miyamoto, T. Odate, A. Ishikawa, N. Washiyama, T. Hirawake, M. Namiki (2000) Report on phytoplankton pigments measured during the JARE-36~39 cruises to Syowa Station, Antarctica in 1994-1998, JARE Data Rep., 249, 36, Natl. Inst. Polar Res., Tokyo
- Sasaki, H. (1984) Distribution of nano- and microplankton in the Indian sector of the Southern Ocean, Mem. Natl. Inst. Polar Res. Spec. Issue, 32, 38-50
- Suzuki, T., and M. Fukuchi (1997) Chlorophyll a concentration measured with a continuous water monitoring system during the cruise to Syowa Station, Antarctica, JARE-27 (1985/86) to JARE-35 (1993/94), 60, Natl. Inst. Polar Res., Tokyo
- Tanimura, A. (1981) Distribution of the surface chlorophyll a along the course of the Fuji to and from Antarctica in 1979-1980, Antarct. Rec., 72, 35-48
- Watanabe, K., and Y. Nakajima (1983) Surface distribution of chlorophyll a along the course of the Fuji (1980/81) in the Southern Ocean, Antarct. Rec., 77, 33-43





## chlorophyll\_65-02

Metadata Entry ID: chlorophyll\_65-02

Long-term variation of surface phytoplankton chlorophyll a in the Southern Ocean during 1965-2002

View Metadata Record

Download Dataset

## Contents

## Resource

LICENSE

README

chlorophyll\_65-02.csv

chlorophyll\_65-02.xml

Apply a license  
= **Reusable**Metadata is with data  
= **Interoperable**Use open file formats,  
= **Interoperable**

4 records

## Citation

Hirawake, T. (2005) Long-term variation of surface phytoplankton chlorophyll a in the Southern Ocean during 1965-2002, Ver. 1, *Australian Antarctic Data Centre* - [doi:10.4225/15/5a384270f2b61](https://doi.org/10.4225/15/5a384270f2b61), Accessed: 2025-04-08

## Use Constraints

This data set conforms to the CCBY Attribution License (<http://creativecommons.org/licenses/by/4.0/>). Please follow instructions listed in the citation reference provided at [http://data.aad.gov.au/aadc/metadata/citation.cfm?entry\\_id=chlorophyll\\_65-02](http://data.aad.gov.au/aadc/metadata/citation.cfm?entry_id=chlorophyll_65-02) when using these data.

# Balancing FAIR and CARE (or other constraint to publishing data)



Practical steps:

1. Publish a **descriptive or metadata-only record**
2. Create a **mediated access process**
3. Use a **data sharing agreement**
4. Produce a **data availability statement** linking data DOI to research outputs



Carroll, S.R., Herczog, E., Hudson, M. *et al.* Operationalizing the CARE and FAIR Principles for Indigenous data futures. *Sci Data* **8**, 108 (2021). <https://doi.org/10.1038/s41597-021-00892-0>



# DMP across the research data lifecycle

“DMPing” is an ongoing active process across the RDM lifecycle.

Here are four times having a good quality DMP can save you time and energy.

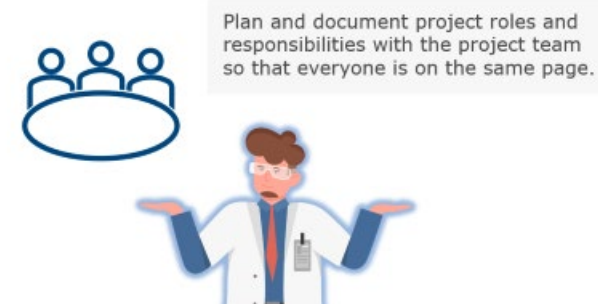
## Research data lifecycle



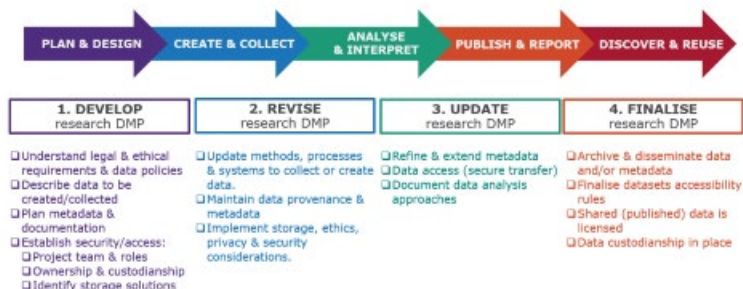
## Good DMPs support funding success



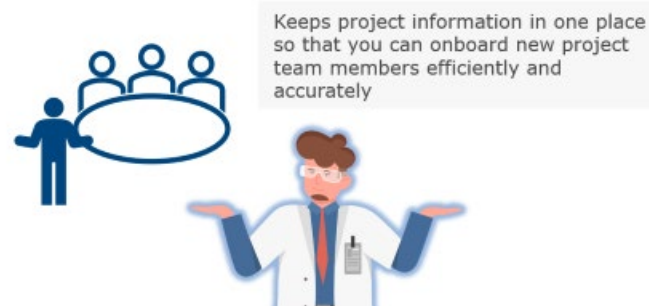
## DMPs connect project team members



## Review and update the DMP



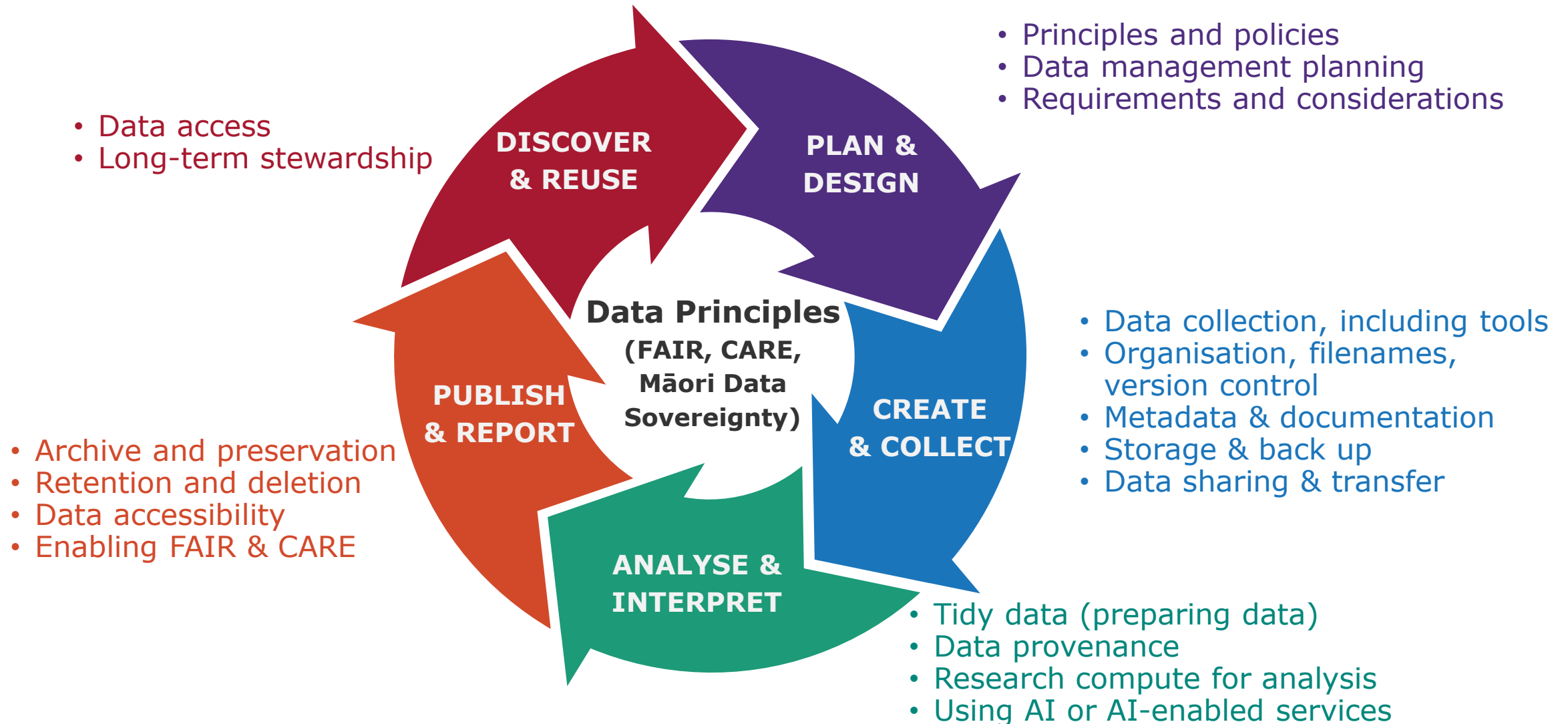
## DMPs connect project team members



## DMPs support discovery and reuse



# Research data lifecycle



# Review and update the DMP



## 1. DEVELOP research DMP

- ☐ Understand legal & ethical requirements & data policies
- ☐ Describe data to be created/collected
- ☐ Plan metadata & documentation
- ☐ Establish security/access:
  - ☐ Project team & roles
  - ☐ Ownership & custodianship
  - ☐ Identify storage solutions

## 2. REVISE research DMP

- ☐ Update methods, processes & systems to collect or create data.
- ☐ Maintain data provenance & metadata
- ☐ Implement storage, ethics, privacy & security considerations.

## 3. UPDATE research DMP

- ☐ Refine & extend metadata
- ☐ Data access (secure transfer)
- ☐ Document data analysis approaches

## 4. FINALISE research DMP

- ☐ Archive & disseminate data and/or metadata
- ☐ Finalise datasets accessibility rules
- ☐ Shared (published) data is licensed
- ☐ Data custodianship in place

# Good DMPs support funding success



**Increases competitive advantage** for research funding.



Document RDM practices to help you through **ethics approval**.

**Demonstrate your awareness and understanding of RDM best practices to funders and to obtain ethics approval**



# DMPs connect project team members



Plan and document project roles and responsibilities with the project team so that everyone is on the same page.





# DMPs connect project team members



Keeps project information in one place so that you can onboard new project team members efficiently and accurately





# DMPs support discovery and reuse



**Return** research data to participants, where appropriate and agreed



Enable **secondary reuse** of data (**FAIR** data principles, increase impact & visibility)



Comply with institutional and other **data retention requirements**

**Finalise your DMP so that research data can be retained, returned, shared and/or undergo secure disposal**





# Pātai / kōrero about DMPs

Some questions to consider and discuss



## Conversations



### Zoom poll...

1. Have you completed a **data management plan (DMP)** before?
2. In what situations did you find a research DMP **most helpful**?
  - At the start of the project to plan research data management
  - To obtain ethics approval
  - To discuss plans and responsibilities with the project team
  - During the study when I needed to refer to decisions made, metadata or data organisation or other details
  - At the end of the study to plan for post-study retention requirements and/or sharing for reuse



## Conversations



**The best strategy to support me to create and maintain a research DMP is to:**

- Have lots of training available
- Train and support local data stewards (or advisors) to individually support researchers
- Provide lots of self-directed resources
- Make it easy – integrate systems and workflows better so that they share information (e.g., title, abstract, project team members, funding)



**Zoom poll...**

Rank the strategies from most important > least important



**In the Zoom chat...**

Share any comments/thoughts or raise your hand to speak



## Conversations



**DMPs should be mandated (compulsory)  
for all research projects...**



**Zoom poll...**

Choose whether you agree or disagree with this statement



**In the Zoom chat...**

Share any comments/thoughts or raise your hand to speak



## Conversations



**DMPs should be a compulsory provisional/first year goal for all doctoral students...**



**Zoom poll...**

Choose whether you agree or disagree with this statement



**In the Zoom chat...**

Share any comments/thoughts or raise your hand to speak





Waipapa  
Taumata Rau  
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## Questions? Get in touch...



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**Thank you**