



Australian Research Data Commons

## eResearch NZ workshop

# Skilling up in Research Data Management: a crash course for librarians and data stewards

PRESENTED BY

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19 February 2019



MENU



SEARCH



<https://ardc.edu.au/>

# Today's workshop

Program at:

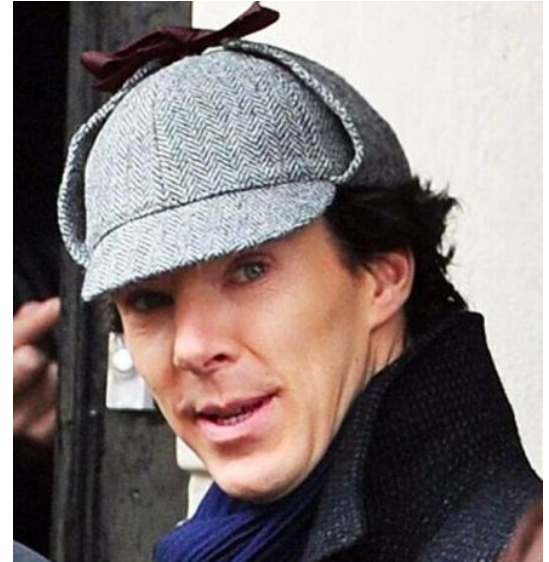
**<https://tinyurl.com/y2f49qre>**



**What are research data?  
How do you find data?**

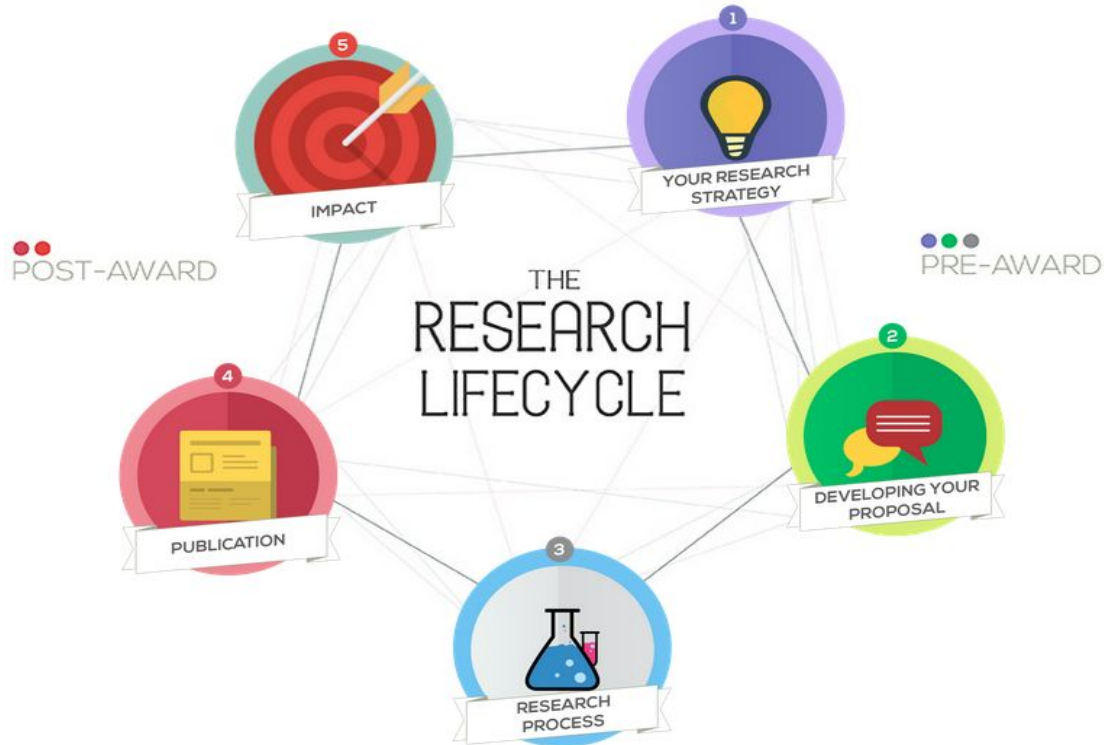
**Grab you deer stalker for  
data detectives!**

<https://tinyurl.com/yyzyn4yh>

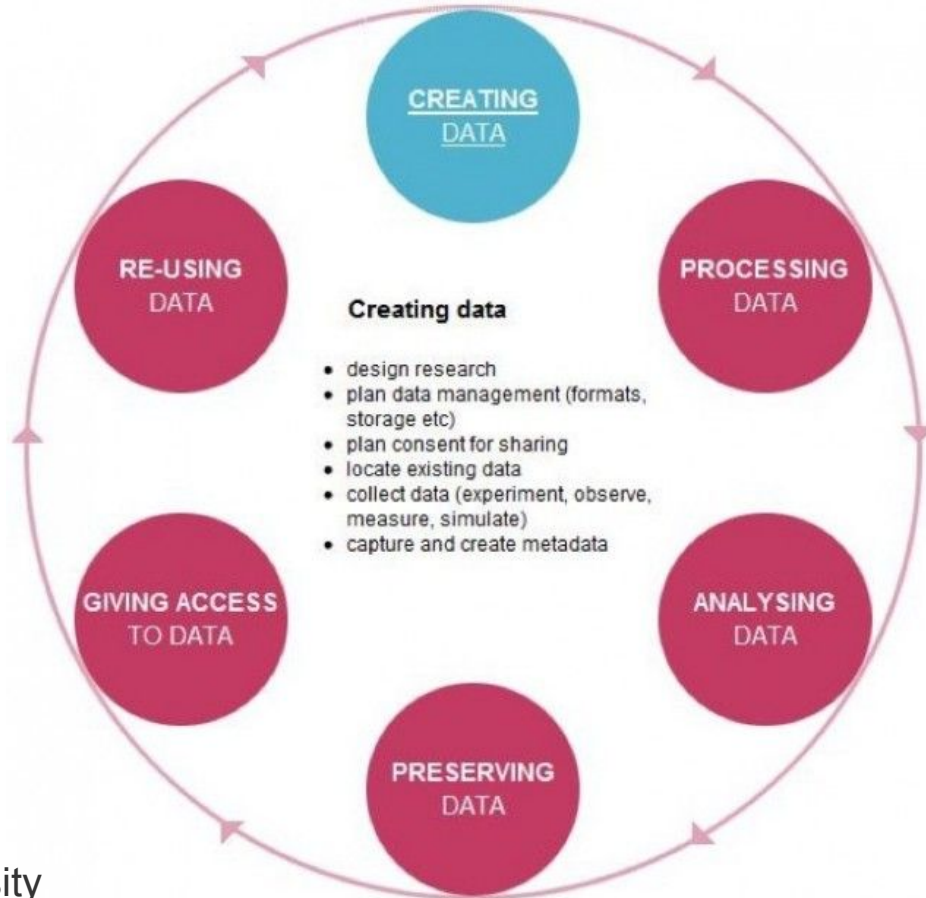




# Research lifecycle

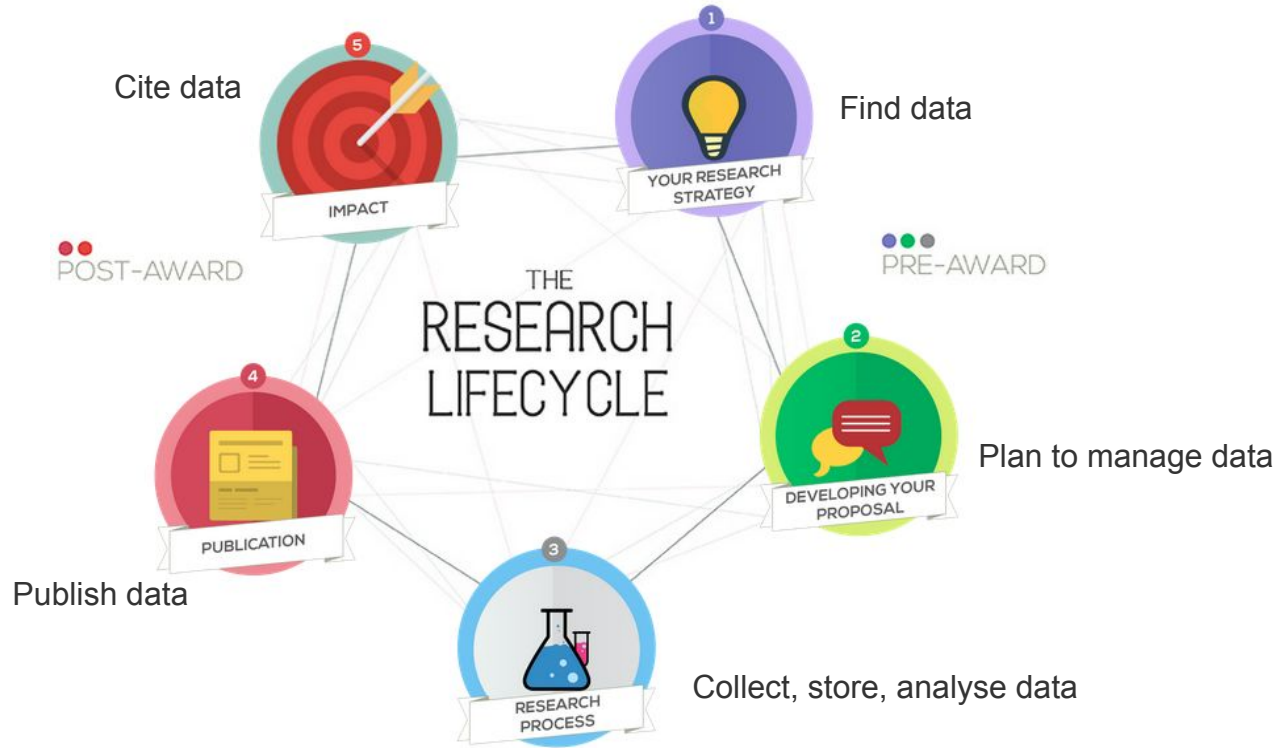


# Data lifecycle



Source: Boston University

# Research lifecycle – data infused





# To ponder later...

Are you meeting researchers at their point of need?

Looking at the research (& data) lifecycles as an institution:

- Who at the institution provides point of need services and/or infrastructure to researchers?
- Where in the lifecycle do we have infrastructure and no services?
- Where in the lifecycle do we have services and no infrastructure?
- Who else provides infrastructure that our researchers (can) use and at what points in the lifecycle?

# To do later...

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## Thing 3: Data in the research lifecycle

Data and its management change over time. Here we look at data and research lifecycles and make connections between them.

- **Getting started:** follow the pink circles around the data lifecycle
- **Learn more:** how would you modify a Lifecycle model for your institution?
- **Challenge me:** share the current emerging opportunities for institutions to integrate management systems for your research data assets

<https://www.andis.org.au/working-with-data/skills/23-research-data-things/all23/thing-3>

# Video intermission...



<https://vimeo.com/125783029>

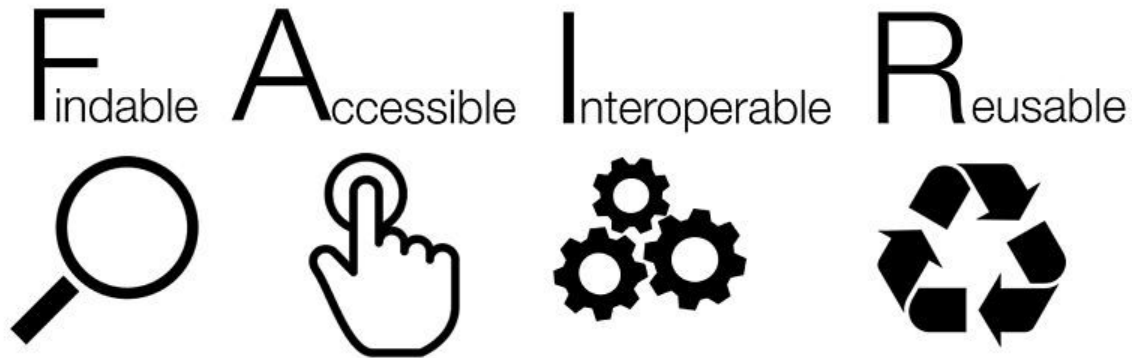
**To share or not to share data?  
That is the question!**

**Brainstorm & debating  
activity:**

**<https://tinyurl.com/y5w49w87>**



# What is FAIR data?



“As open as possible, as closed as necessary”



Wilkinson, M., Dumontier, M., Aalbersberg, I., Appleton, G., Axton, M., & Baak, A. et al. (2018). *The FAIR Guiding Principles for scientific data management and stewardship*. *Scientific Data*. Retrieved 27 March 2018, from <https://www.nature.com/articles/sdata201618>  
Commons.wikimedia.org. (2016). File:FAIR data principles.jpg - Wikimedia Commons. [online] Available at: [https://commons.wikimedia.org/wiki/File:FAIR\\_data\\_principles.jpg](https://commons.wikimedia.org/wiki/File:FAIR_data_principles.jpg) [Accessed 10 Apr. 2018].

# Hands on with FAIR data

Find a dataset that relates to your work using one of the following resources, and assess it against the principles using the ARDC FAIR data assessment tool:  
<https://www.ands-nectar-rds.org.au/fair-tool>

Choose a dataset from:

Re3data.org

Research Data Australia - <https://researchdata.ands.org.au/>

CSIRO Data Access Portal - <https://data.csiro.au/>

DataCite - <https://search.datacite.org/>

Discipline-specific repositories <https://www.re3data.org/browse/by-subject/>

A repository of your choosing.

Your own dataset.





# Data Management Plans

Let's “do” the Thing...

## Thing 15: Data management plans

Some research institutions and research funders now require researchers to submit a Data Management Plan (DMP) for new projects. What should a DMP cover? Could you help with one?

- **Getting started:** What's a DMP?
- **Learn more:** Why machine-actionable DMPs?
- **Challenge me:** Exploring DMP Tools

Find out about the work of the Australasian DMP Interest Group

<https://www.andis.org.au/working-with-data/skills/23-research-data-things/all23/thing-15>

# What is metadata?

**Bring out your  
inner Indiana  
Jones for  
metadata  
archaeologists!**



# Metadata archaeologists

Your task:

1. Divide into pairs
2. Each pair take one of the CSV datasets at <https://tinyurl.com/y8ttg2cj>
3. Describe the dataset by creating a metadata record. Think about: title, creators, date, short description and so on.
4. Bring your record to whole class discussion

# Metadata archaeologists

How did you go? What did you learn?

What do think makes a 'good' metadata record?

Here are the original metadata descriptions for your csv datasets:

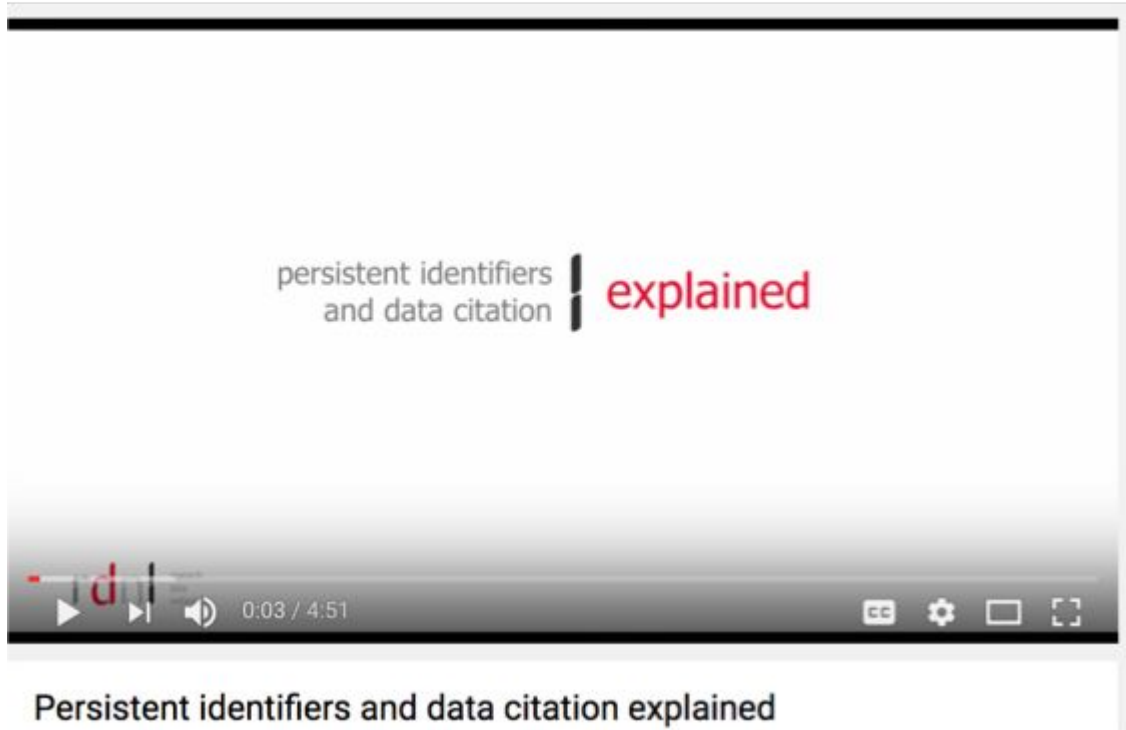
CSV dataset #1 -

<https://data.qld.gov.au/dataset/crocodile-sightings-in-queensland> - subset  
<https://data.qld.gov.au/dataset/crocodile-sightings-in-queensland/resource/6b0e71dd-4148-4934-b919-d50935d14417>

CSV dataset #2 –

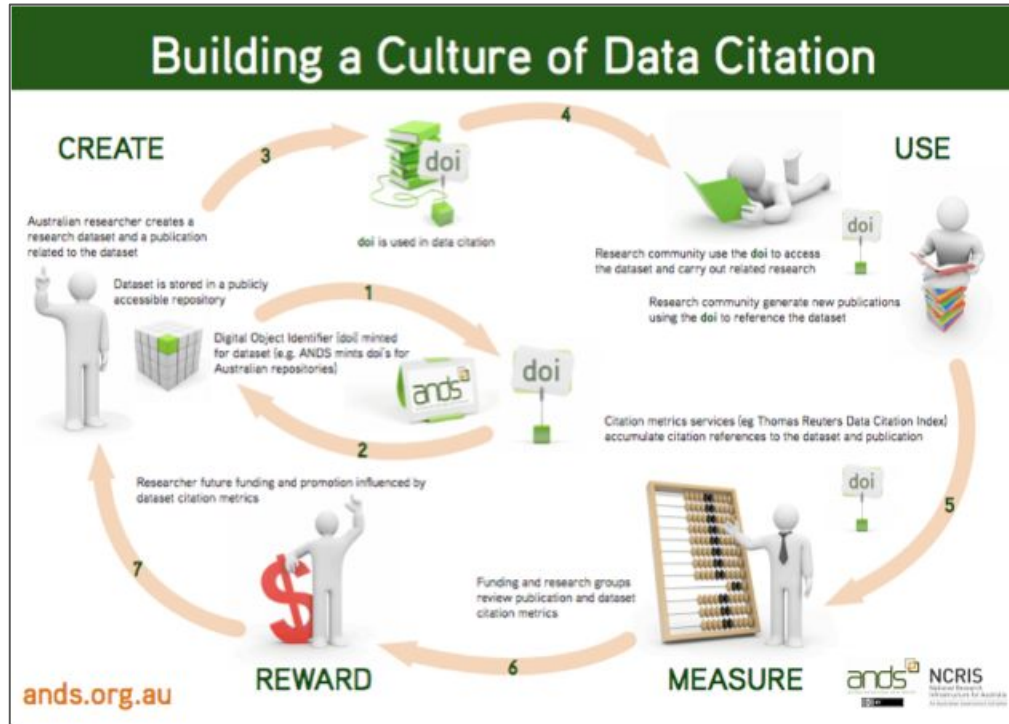
<https://data.qld.gov.au/dataset/koala-hospital-data>

# What is data citation?



<https://www.youtube.com/watch?v=PggtiY7oZ6k>

# Why cite data?



***There is no change in the high number of researchers valuing a data citation the same as an article - from 78% in 2016 to 77% in 2017***

Digital Science Report:  
The State of Open Data  
2017, p.8



# Use data citation tools

- Data Citation Formatter: <https://citation.crosscite.org/>
- DataCite search: <https://search.datacite.org/>
- DataCite statistics: <https://stats.datacite.org/>

# To do later...

Your task:

1. Go to the Data Citation Formatter tool:  
<https://citation.crosscite.org/>
2. Enter this DOI: 10.7910/DVN/22893
3. Try a few citation styles including the Data Science Journal and notice the differences
4. Now go to DataCite search:
5. Enter the same DOI
6. Click “cite” and browse the different styles

# Mapping your (data) skills journey

Brainstorm activity from Brisbane ARDC-Library  
Carpentry workshop:

What courses, workshops, conferences and more are out there on data, tools and infrastructure?

Discuss at your tables. Use the Etherpad to list these.

Etherpad: <https://pad.carpentries.org/brisbane-data-savvy>

# Activity: mapping your skills journey

Brainstorm activity from Brisbane ARDC-Library Carpentry workshop:

Open the activity spreadsheet here:

<https://tinyurl.com/y625xms2>

Copy it into a new tab and name it after yourself

Read it all then choose 2-3 skills and fill the lines out - you can add extra skills you think you need - refer to the brainstorm in the Etherpad where needed

Group sharing at the end of the activity

# Developing your skills profile

Brainstorm activity from Brisbane ARDC-Library Carpentry workshop:

Learner profiles in The Carpentries are used to get a better understanding of the audience you are going to teach in a workshop. They can also be helpful in understanding the context around transitioning to be data savvy. Learner profiles have three parts: the person's general background, the problem they face, and how the course will help them.

Let's build a profile, visit the Etherpad for more:

<https://pad.carpentries.org/brisbane-data-savvy>

# Summary and close

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