# Working Title:

**Data Management: Make sense of the complexity around data storage, description, re-use and archiving.**

The research data landscape is evolving.  International publishers and funders are now mandating for best practice in data planning, description, storage, and sharing. However commercial sensitivities still need to be understood and managed.  This presentation will cover general best-practice principles of management, storage and sharing of research data. It will include practical tips for improving data management practices that can implement immediately regardless of the type of data. By attending students should feel better prepared to respond to university, employer, funder and/or publisher data requirements.

# Learning Objectives:

Students will be able to:

1. Think critically about best practice in the management, storage and sharing of research data, relating it to their discipline and research practices.
2. Share and discuss personal data management experiences.
3. Examine their current practices within conversations around F.A.I.R. data principles.
4. Use the University of Otago DMP tool.

# Resources Required:

PowerPoint Presentation

Whiteboard markers

Internet and projector connected Laptop (if a tutor machine is not available)

Summary handout

Evaluation handout

# Lesson Outline:

Below is an order of activities assuming the presentation is structured. However, be prepared to deviate to address specific interests or concerns that arise – especially during first activity. If timing is tight, F.A.I.R. section is optional.

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| Activity | Time Guideline |
| Introduction:  Greet students and introduce presenter | 2m |
| First Activity:   1. What is your research data?   **Peer-share: students will discuss with the person beside them what they consider their research data before sharing with the class. Presenter to note down on whiteboard answers and consider how similar or diverse the data are.**   1. What does Research Data Management mean (or look like) to you?   **Student will then discuss the question of what they think Research Data Management means. Their answers will also be noted on the whiteboard and this will provide a touching stone for further conversations during the presentation – relating general ideas and principles back to specific things they have identified.** | 15m |
| Second Activity: What we will cover  Quick overview of objectives. | 2m |
| Third Activity:  **Data Management level 1:**  Talk to concepts on PPT slide : organising data and back-up  **Data Management level 2:**  Talk to concepts on PPT slide : Data Management Planning and University systems  **Show and tell of DMPt**  **-Did the DMP help you think more holistically about your data? How?**  **-What questions are the hardest to answer? Why?**  **Data Management level 3**:  Talk to concepts on PPT slide : Metadata and planning for long term storage  Watch video  **Data Management level 4**:  Talk to concepts on PPT slide : Data in Supplements, Data Repositories, Journals, licences, and open data  **Quick look at:**  **Figshare** | 30m |
| Fifth Activity: Go FAIR (if time allows)  Talk to concepts on PPT slides. Introduce the concept of FAIR data. | 5m |
| Conclusion:  Hand out and evaluation form | 1m |

# Evaluation:

Paper based evaluation form at the end.

# Key Readings:

Managing and sharing research data: A guide to good practice by Corti, Van den Eynden, Bishop, and Woollard – BOOK <https://otago.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=OTAGO_ALMA21174009620001891&context=L&vid=DUNEDIN&search_scope=All&tab=default_tab&lang=en_US>