



**Barwon
Health**

Developing Research Data Management at a University Hospital Library – an International Collaborative Project

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The Project

1. Background (official version and the backstory)
2. Objectives
3. Methods
4. Results
5. Conclusion and lessons learned



Presentation on about RDM
at Helsinki University Medical
Campus Library Terkko

An opportunity for an
international collaboration –
but how to make it work?



Quick facts about Helsinki University

In Helsinki Finland

8000 employees

35 000 students

4700 graduate students

Helsinki University Medical
Campus Library Terkko

- Offers research data services
- Gives RDM training for graduate students
- Leads a national data management planning tool – project

<https://www.dmptuuli.fi>



Quick facts about Barwon Health

Geelong Hospital & 21 facilities in south/west regional Victoria

Catchment population 350-500,000

Largest employer in the region

- 6,600 staff , ~5,000 clinicians
- >400 beds, all acute services (except neurosurgery), + rehabilitation, aged care, community health, health promotion
- Teaching & Research
 - Joint hospital/university positions => clinician researchers
 - 450 junior doctors have a 'research imperative'
 - 2014 special fund to develop BH's academic & research profile -> The Project



Health libraries' involvement in RDM depends on:

1. The organisation has a research mission
2. Economic drivers, government funding, regulations & codes
3. Capitalising on libraries' existing research services & infrastructure
4. Developing new skills
5. Resources to enable flexibility
6. Experimentation



Research Data Project

July-Sept 2015



Purpose:

to provide the information for developing good research data management (RDM) practices, guides and services to assist researchers to manage their data well, in the context of the research lifecycle.



Objectives

1. To develop library and research services at Barwon Health
2. To draft a research data policy
3. To create a data management planning (DMP) checklist
4. To mentor Barwon Health librarians in the skills associated with managing research data.



- Exploratory and consultative
- Interviews with key informants – discussion points
- Desktop research
- Mentoring, role modelling and informal teaching

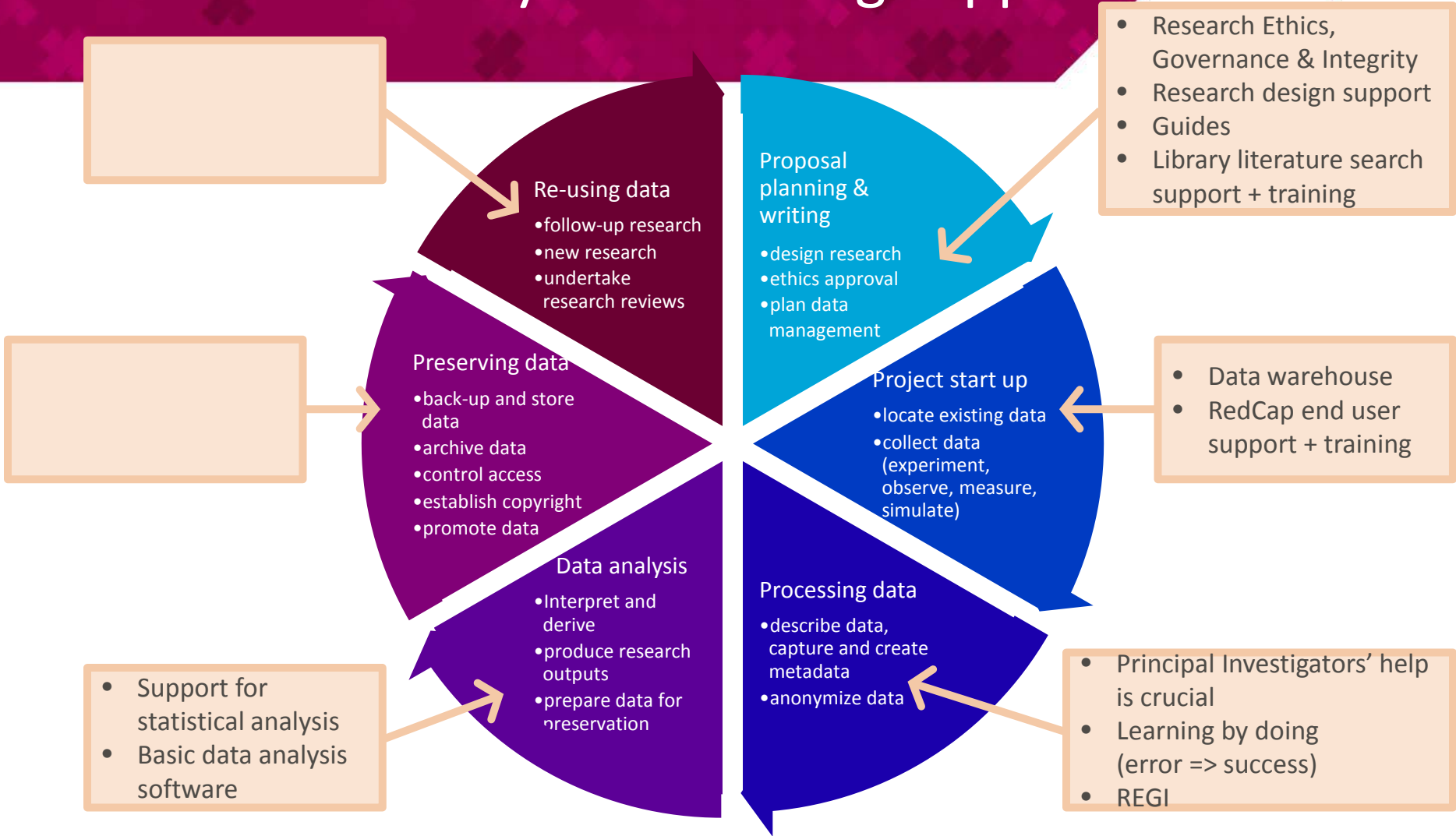


Results

- Mapped current RDM practices in the research lifecycle and identified gaps
- Policy and checklist drafted, consulted widely, endorsed by executive governance
- Skills development



Research data lifecycle – existing support



Gaps & problems



Hard to reuse data

- Ownership unclear
- Lack of documentation
- Concerns of security and confidentiality

Re-using data

- follow-up research
- new research
- undertake research reviews

Missing infrastructure and policy

- Missing data archive
- Who is responsible for preserving data?
- Paper copies of old data lie around

Preserving data

- back-up and store data
- archive data
- control access
- establish copyright
- promote data

- IT infrastructure doesn't support tools needed for analysis
- Lack of reference management software
- Lack of systematic review support

Data analysis

- Interpret and derive
- produce research outputs
- prepare data for preservation

Proposal planning & writing

- design research
- ethics approval
- plan data management

Hard to find information needed

- Lack of data management policy (policy and checklist now drafted)
- Support needs are greater than resources

Project start up

- locate existing data
- collect data (experiment, observe, measure, simulate)

- Security concerns
- Lack of skills, training and access to training

Processing data

- describe data, capture and create metadata
- anonymize data

Data governance is not an easy task

- Security concerns
- Theory/practice gap
- Learning by doing (error => success)



Conclusions and lessons learned

- Australia & Finland: hospitals and university libraries at various stages of maturity of RDM practices; being a research organisation is a driver
- Strength in Australia = national guidelines, ANDS
- Strength in Finland = national technical infrastructure development
- Critical need for librarians' skill development, plus resources enabling flexibility and willingness to experiment
- An international project is a good learning opportunity, comparisons and single focus give time to explore and develop creative solutions



Implement recommendations of final report, including:

- Pilot RDM in a research unit, implementing policy provisions, creating a registry (catalogue) of research data sets with a metadata standard
- Research literacy training workshops in the Library (following training needs analysis with ethics approval to model good research practice)

More international collaborations!

