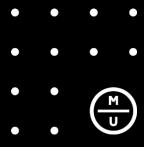


Data Initiative and GRDC Data Catalogue

GRDC Data Management Workshop
Penghao Wang
Murdoch University





GRDC Data Partnership Initiative

A New Initiative for Data Management





GRDC Data Initiative - background

- GRDC is the biggest investor in grain research
 - Over 20M over 3 years
- Previously GRDC funded project data are managed by researchers
- GRDC is pushing a new FAIR data management strategy for future projects and some valuable past projects
- MU is one of 12 key GRDC partners and participates in numerous projects





GRDC Data Initiative Project

- The new management strategy is implemented in 2 phases.
- Phase one: collection of valuable past and/or current projects through 12 key partner institutions
 - Data identification, data collection, data storage, and data catalogue
 - Establish a strategy for each institution
 - Resources and training to help MU researchers for future compliance
- Phase two: GRDC Data Catalogue online, all future projects follow the new data management strategy



Data management requirements from GRDC

- Future projects will conform with a new data management requirement
 - Data and results need to be stored at institutional repository MU Research Portal
 - Detailed data annotation metadata
- Link to project milestones
- Many benefits
 - Better data identifiability and searchability
 - Data aggregation new resources/repositories
 - Data re-use new discovery





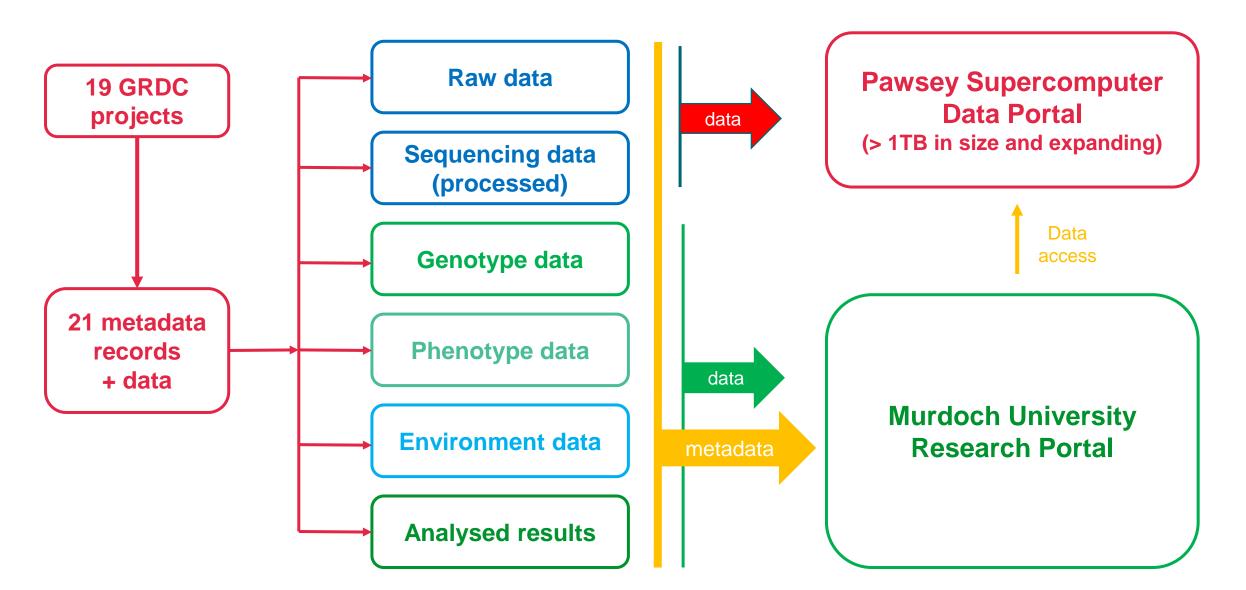
GRDC Data Initiative Project

- GRDC funded/co-funded projects need to store data at Institution level
 - Metadata
 - Data and/or results
 - Harvestable by GRDC Catalogue

20 projects identified as the Initiative (excluding 5 duplicated/included)



Collected data/metadata





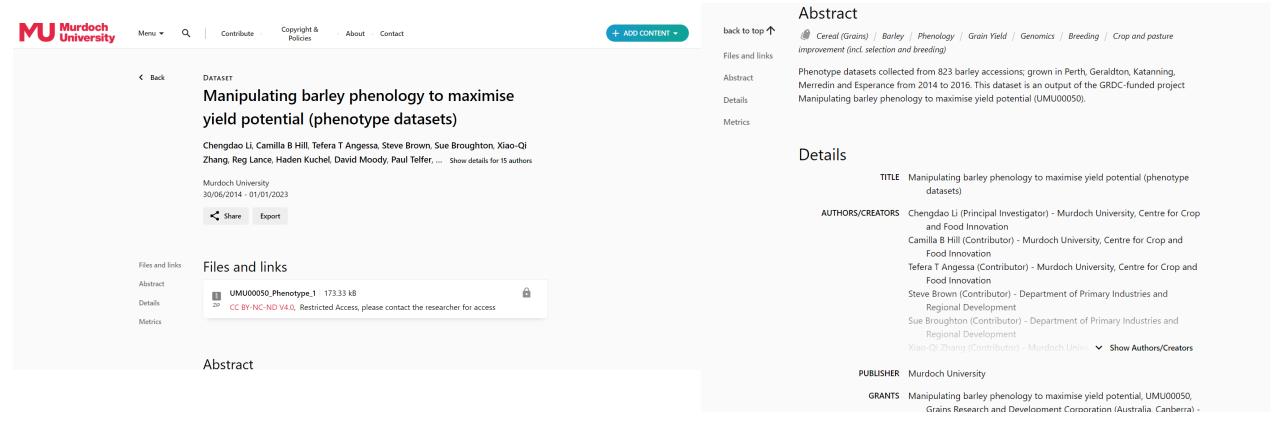
GRDC Data Initiative - alignment activities

- Educational documents and guidelines for data storage and management.
 - Data ID, metadata creation, FAQ.
- 2 workshops for MU staff.
 - Practical tutorial sessions
 - 2 repeats (September, November)
- Development of a local data management server with analytical tools



GRDC Data Initiative – What means for MU

- Future projects will conform with a new data management requirement
 - Data and results need to be stored at institutional repository MU Research Portal
 - Detailed data annotation metadata





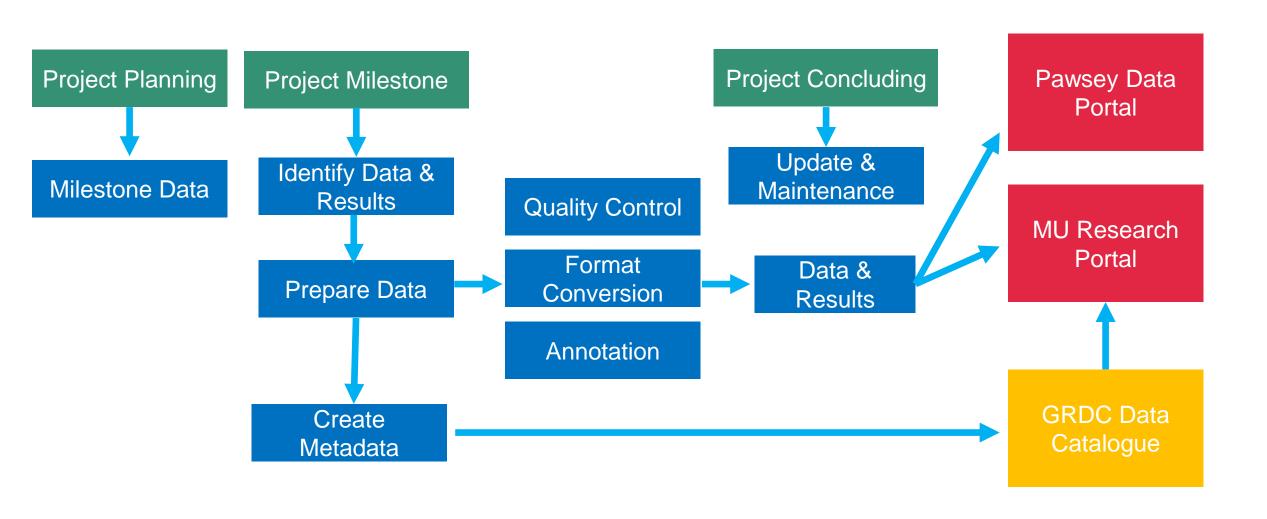
Alternative Data Storage Platforms

- Pawsey SuperComputing Data Portal (MU is a member)
- Currently houses > 40 Petabytes of data
- Automatic backup
- Seamless link to super computing servers for data analysis





The Overview of the Data Management





What Resources will be Available

- Detailed documents, guides and FAQs
- Educational materials (workshop, tutorial)
- Templates and examples
- Software tools and scripts
- Continue support and maintenance



Thank you

Any questions, please feel free to contact Penghao or Chengdao p.wang@murdoch.edu.au

c.li@murdoch.edu.au











FAIR practical workshop – 26th Sep 2023

Venue: Room 360.4.023 - Boola Katitjin Building - Murdoch University Perth Campus

WORKSHOP PROGRAM

TIME	TOPIC	PRESENTER
08:45 - 09:00	Welcome and Introduction	Chengdao Li
09:00 - 09:20	Murdoch University Research Portal Introduction	Helen Bronleigh
09:25 – 09:45	GRDC Data Catalogue Introduction & Data Aggregation	Penghao Wang & Brett
		Chapman
09:50 - 10:10	FAIR Principles and How to?	Viet Dang
10:10 - 10:30	Tea Break	
10:30 - 10:50	Murdoch University Data Management Policies and Plans	Zoe Martin
10:55 – 11:15	Data Management Plans for GRDC projects	Viet Dang
11:20 – 12:20	Practical workshop: FAIR and Repository submission	Viet Dang and Penghao Wang
12:20 – 12:30	Questions and Discussion	-
12:20	Lunch	