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# Introduction to the proposed national approach to research data management

#### **Dr Dale Peters**

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## Welcome



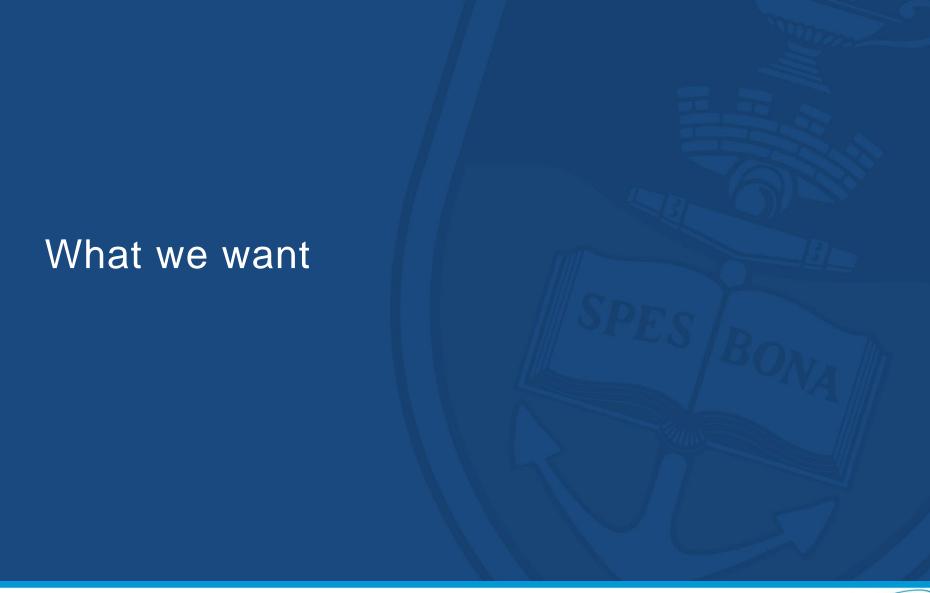




## **Update**

- Software evaluation
- Staffing support costs across partner institutions
- Figshare 3 yr license
- Interim solution -DIRISA national repository service
- TENET national consortium
- UP/UCT pilot for national roadshow

Topic	Responsibility	Time
Coffee on arrival	All	09h30 – 09h45
Introduction to the proposed national approach to research data management	Dale Peters,  UCT eResearch	09h45 – 10h30
Practical applications for a research data management system	Niklas Zimmer, University of Cape Town Libraries	10h30 – 11h15
Introduction to figshare	Mark Hahnel, CEO and Founder, Figshare	11h15 – 12h00
Discussions	All	12h00 – 12h30
Lunch		
Networking	All	12h30 – 14h00







- Compliance with funder mandates
- Enabling good practices in research data management
- Pooling resources to achieve financial and resource efficiencies
- Standard platform focus on a shared RDM service
- Operational by M8 (Dec 2017)
- Institutional DOI's
- Researcher control of data sharing
- Flexibility of the cloud with the confidence of national / node storage
- Ability to harvest repository data into a sustainable solution, possibly an Open Source platform.





## Research Data Management research project

#### Milestones:

- A work integrated learning programmes is developed for data managers with expected outcomes aligned to relevant academic courses. (2017)
- The data policy is publicly available to inform users of the requirements for data archiving, accessibility and the reuse of data created on the infrastructure. (2018)
- An advocacy programme on the benefits of data sharing and open science is hosted online by the Tier 2 node infrastructure. (2018)
- Deposit guidelines are developed and maintained online in response to feedback on user experience. (2019)









#### SA DMP TOOL

The South Africa Data Management
Planning (SA DMP) Tool is based on the
DCC Online implementation. This tool is
used to produce a formal document that
outlines how a researcher will handle
research data during the research process
and after the project is completed.



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#### **DATA DEPOSIT TOOL**

Research data is a critical part of the research process and while there are several cloud-based storage solutions to store data, DIRISA provides a reliable, persistent and easily accessible resource to safely share data. The development of a cloud-based data deposit tool is underway and will be available to subscribed users.



#### DIGITAL OBJECT IDENTIFIER

Data sets at DIRISA and trusted repositories are persistently and uniquely identifiable through a Digital Object Identifier (DOI). Apply for a DOI to be allocated to your data set through one of several such existing systems.





Blog

## DIRISA national data repository

- Developing online data and archival functions in OpenStack
  - DMP, PID, metadata annotated data upload/deposit, data discovery, subscripted access, data management workflows, federation with other repositories, Trusted Digital Repository; staging of data for analytical processing on high performance computing resources
- Phased development from March 2017 to be completed within the T2 funding period
- Should the DIRISA national data repository not be available after the project period, alternative funding for the cost of FigShare software licensing will be sought by the partners in years 4 and 5 of the project.













Directions for Research Data Management in UK Universities

- » Policy development and implementation
- » Skills and capacity development
- » Infrastructure and interoperability
- » Incentives for researchers and support stakeholders
- » Business case and sustainability







### Research data shared service

Advancing research data management through collaboration

- Research data repositories
- Shared data centres
- Research data preservation platforms
- Research data reporting platforms
- R&D and development services around repository plugins
- Interoperability with internal and external systems
- Development of research data preservation tools
- User experience enhancements for existing platforms

https://www.jisc.ac.uk/rd/projects/research-data-shared-service







- buy-in and support from countries and institutions through data policies
- 2) capacity building and developing skills
- 3) how sharing of data by researchers is rewarded (incentives)
- 4) current infrastructures that exist to support the sharing of data





## The challenge ahead

- NICIS T2 Node must fill an important gap 75% of researchers look first to their institution to meet funder compliance for data sharing and reuse but we know a lot of institutions can't fully meet this need at present.
- Access to institutional support for RDM remains low Less than 10% of researchers are currently accessing university RDM support services. This is a twofold challenge: institutions not only need to make appropriate support services available, but also make researchers aware that they exist.
- We are pushing at an open door More than 30% of researchers already share data on international infrastructures, as common practice within their domain. We just need to make data-sharing easier at home.
- We still have a long way to go Only 10% of researchers currently have a research data management plan, and even less follow established metadata standard or guidelines. Changing research practice will take time.





## Thank You





