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Introduction to the proposed national approach to research data management

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Welcome



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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

What we want



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UCT
eResearch
ACCELERATING RESEARCH

- 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.



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.

DIRISA national data repository

- Developing online data and archival functions in OpenStack
 - DMP, PID, metadata annotated data upload/deposit, data discovery, subscribed 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.

What researchers want



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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>

A stylized map of the African continent is shown in the top right corner. It is overlaid with a series of colored dots (red, orange, green) and lines, suggesting data points or research trajectories across the continent.

African Open Science Platform

*A forum for conversations on data: policy,
capacity building, sharing incentives and infrastructure*

- 1) 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



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