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# UP Research Data Management Roadmap:

NRF/CODATA Meeting, 30/09/2022

Lazarus Matzirofa

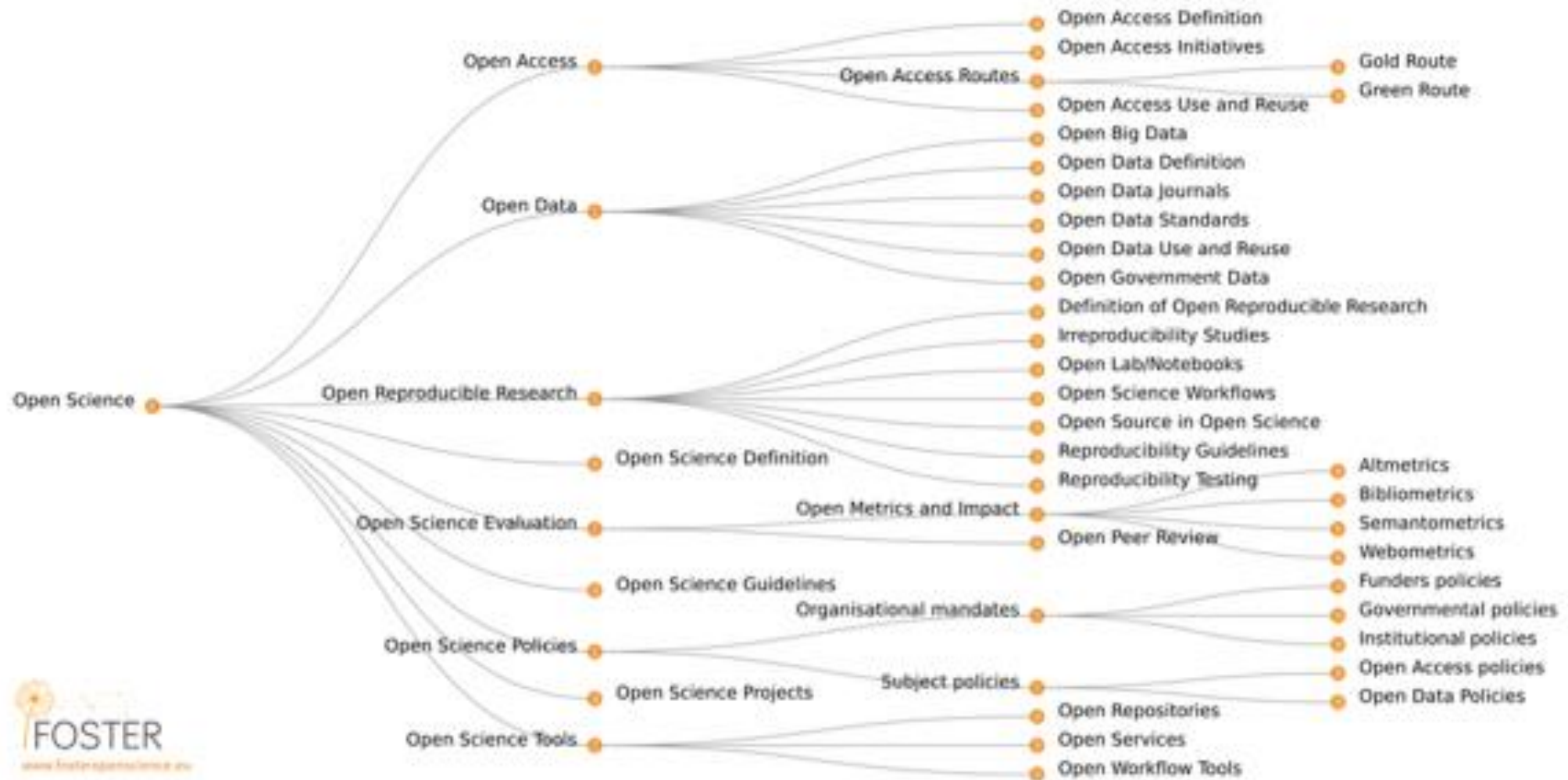
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# Research Data Management Roadmap (2014 - Current)

## Looking back, looking forward

- 2014 - Proposed new University policy on RDM sent through to University Executive for review
- 2015 - Task team to investigate infrastructure needed for RDM across the university
- 2017 - RDM policy was adopted and approved by Senate
- 2016 - 2018 Investigation of Data Repository Systems
- 2019 - Implementation of Research Data Management Readiness Training Toolkit
- 2020 - Launch of the UP Research Data Repository (Figshare)
- 2021 - Dimensions: the State of Open Data 2021 survey
- 2021/2022 - NSTF Awards Finalists
- **2022 – Love Data Publishing at UP2022 seminar series**
- **2022 – Alignment of Research Related Policies – iGAPP Research Management Committee**



## Open Science taxonomy described by FOSTER Plus. 23

# RDM Strategy

- UP Research Data Management (RDM) covers the entire research data lifecycle – essentially everything that a researcher might do with their data. This includes collection, storage, curation, publication, archiving and re-use
- Good data management is fundamental to the research process. It is a dynamic process that must be carefully considered throughout the course of a research project, from the planning stage through to final publication of results

## RDM Policy

- Research Data Management Policy (S4417/17)
- Research Data Management Procedure

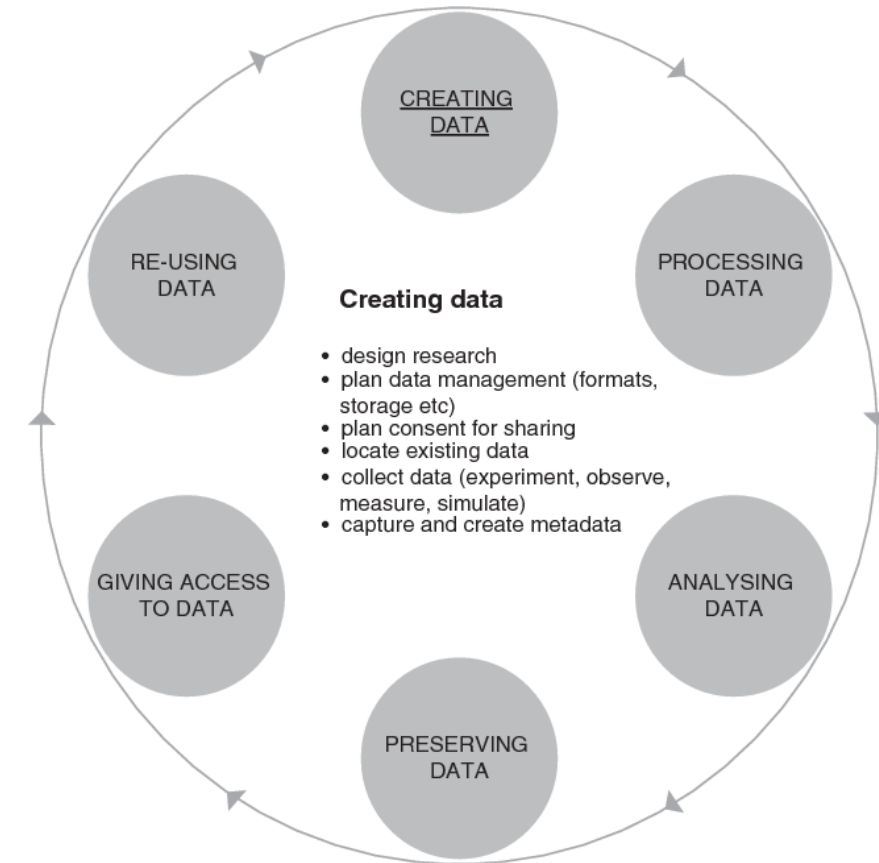
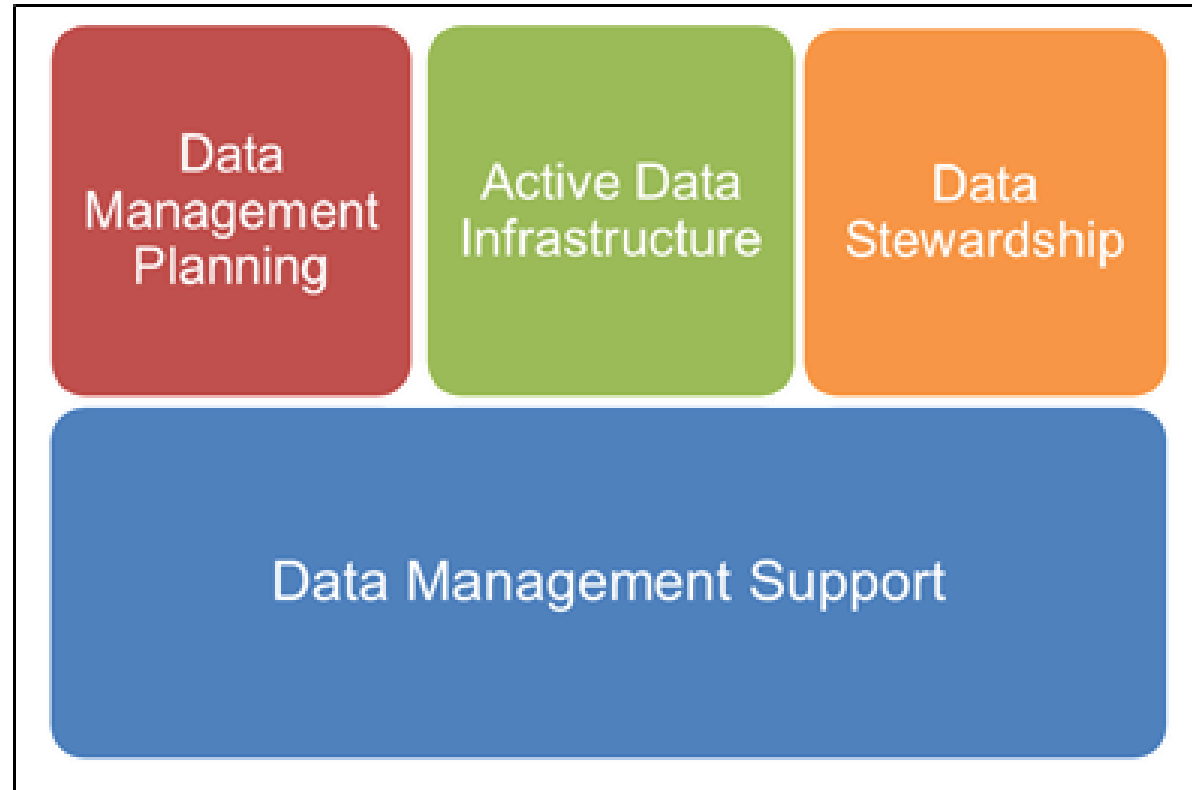


FIG. 1. Research Data Lifecycle [51]

# Operational Strategy & Shared Responsibilities

Department of Library  
Services  
(Data Supporting  
Publications, DMPs)

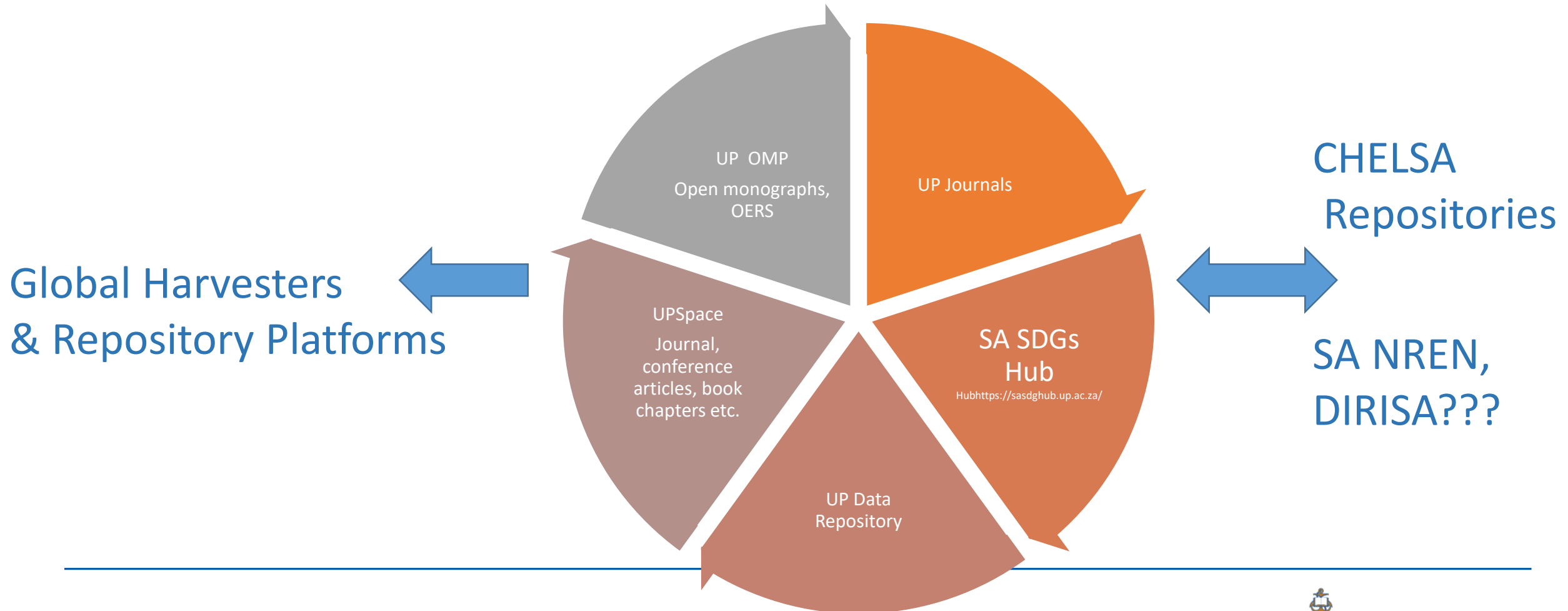


Directorate of ITS  
(Big Data)

Department of Research  
& Innovation  
(DMPs for Grants)

Faculties: Deputy Deans - Research & Postgraduate Studies

# UP Repositories Alignment: National & Global





# Communication Plan

- Promote Figshare through campus publications
- Development of a Marketing Video in collaboration with Dept of University Relations
- Personalised e-mail from Vice Principal for Research and Innovation's office to UP researchers and postgraduate students
- Market the system via roadshows to all 9 faculties – done by Library Services, ITS together & Vice Principal: Research and Innovation
- This included explanation of the whole research ecosystem that support the research process including Figshare, UPSpace, etc... how this align with the UP RDM Policy

# Implementation of Figshare

- Training of admin users
- Determine quota (size) of uploading data per user (ITS)
- Determine the name of the Repository (RDM Steering Committee)
- Planning of a Roadshow to Faculties (completed)
- Planning of training of researchers & support staff (RDM Readiness Training Toolkit) (continuous)
- Compile training material for researchers & library staff (in process)
- Smaller customisations such as specifying Terms, Licenses, Helpdesk Links/email, and Libguides (completed)
- Inhouse training for Faculty Research Coordinators (in process)



# Maintenance: Figshare Research Data Repository at UP

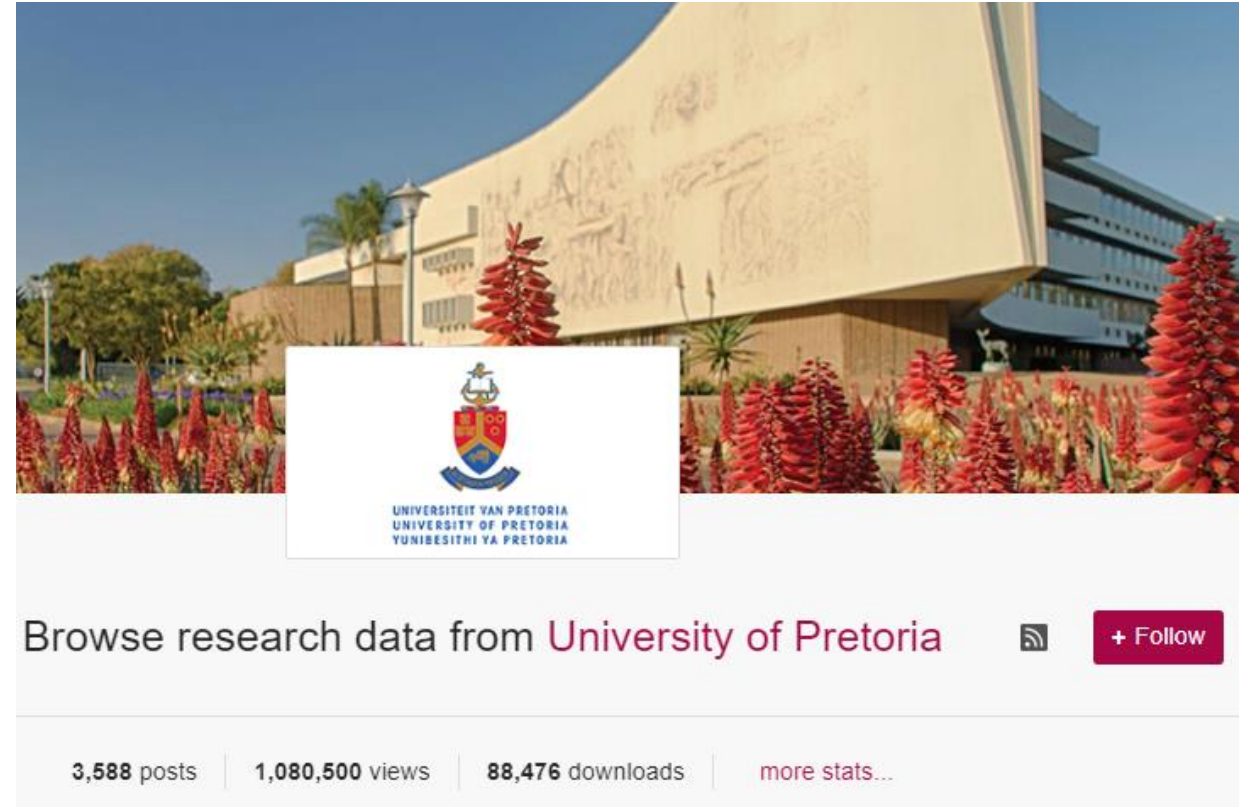
- Technical kick-off meeting between the UP RDM Task Team with Kay Lino (Figshare) on 21 September 2018
- Setup and Configuration of Figshare Solution in the testing environment (completed)
- Teething problems: Figshare, Library IT, UP ITS
- Sustainability & Staff Development Capacity - CoPs, i.e. Digital Preservation Consortium

# DMP Tool: Implementation in Progress

- UP libraries has developed a DMPTool for postgraduate students and researchers
  - ✓ assist students and researchers to create Data Management Plans
  - ✓ The DMP requirement is expressed in the ETD policy, Research papers policy, APC policy and will be in the iGAPP Research Data Management policy
- **UP Customised DMP Tool (to be implemented by Dec 2022)**
  - ✓ Provides a web-based interface for completing DMPs, and include funder templates for most research funders and accompanying guidance relating to each funder's data policies and requirements

# UP Research Data Repository (Figshare)

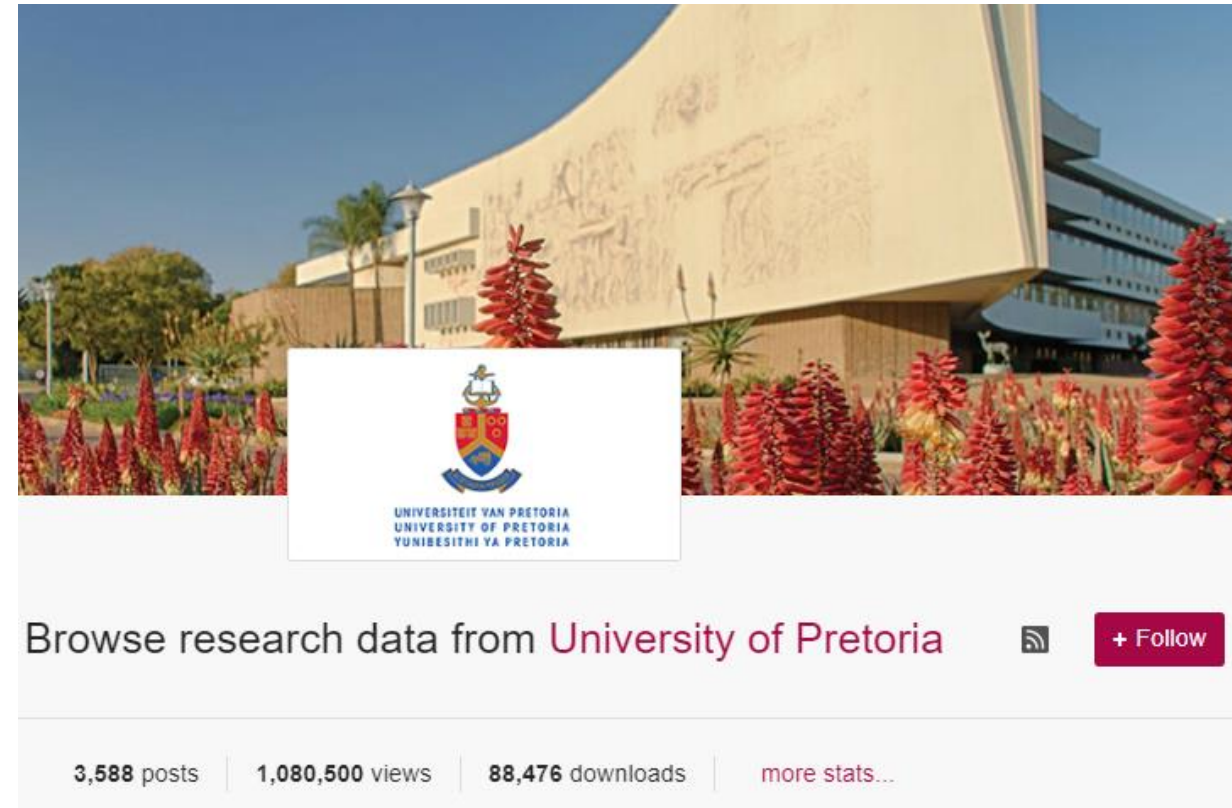
- All research data (normally processed data) and its accompanying metadata must be published in the UP open data repository (database), or an accredited discipline-specific repository, where available
- In some instances access to data should be embargoed or restricted due to ethical and legal reasons
- Researcher should send link of a dataset deposited in an external repository to the [rdm@up.ac.za](mailto:rdm@up.ac.za)
- Metadata training for depositors to align UP Data Repository & the SA SDGs hub




<https://researchdata.up.ac.za/>

# Research Data Management – NSTF-South32 Awards

- The call for nominations - 05 November 2021 for NSTF-South32 Awards 2021/2022
- Recognizes the value of open data (datasets) for public good, dataset that is of national interest
- The DLS Open Scholarship unit, nominated two leading researchers
- Two researchers have successfully and continued to archive their research data in the UP-Research Data Repository
- Metrics for research data pulled from Figshare and Dimensions



Browse research data from [University of Pretoria](#)  [+ Follow](#)

3,588 posts | 1,080,500 views | 88,476 downloads | [more stats...](#)

# Marketing Strategy for RDM at UP: Onboarding of Staff



<https://www1.up.ac.za/webcenter/portal/RDM>



# Benefits of RDM

The image shows a YouTube video player interface. At the top left, there is a circular logo with 'LCP' inside. The video title is '2. UP RDM - The benefits of Research ...'. To the right of the title are icons for 'Watch later' (a clock) and 'Share' (a cloud with an arrow). Below the title is a large play button icon. The main content area features a collage of images: a woman talking on a mobile phone, a woman working on a laptop, and a bowl of fruit. To the right of the images, the word 'BENEFITS' is written in large blue letters. Below that, 'UP RESEARCH DATA MANAGEMENT' is written in black, with 'UP' in blue. At the bottom left of the video frame, there is a black bar with the text 'Watch on YouTube' and the YouTube logo. At the bottom right of the video frame, the text 'RESEARCH THAT MATTERS TODAY, TOMORROW & YEARS TO COME' is visible.

<https://www1.up.ac.za/webcenter/portal/RDM>



# RDM is Quick and Easy to implement



<https://www1.up.ac.za/webcenter/portal/RDM>

# Dataset Upload in Minutes at UP Repository



<https://www1.up.ac.za/webcenter/portal/RDM>

# UP RDM Achievements to date

- **Roll-out of RDM across all 9 Faculties**

- ✓ Roadshows are currently being conducted to Faculties where the RDM process, RDM Intranet Toolkit FAIR principles are presented to staff

- **RDM team assembled by UP Libraries, since 2019**

- ✓ An RDM coordinating team (working with Scholarly Communications, Digital scholarship & UP Libraries IT units). Currently we have 3 full-time staff members that support researchers (Senior Open Scholarship Coordinator, RDM Curator, Metadata Specialist)

- **Continuous upskilling of Library Information Specialists:**

- ✓ Information specialists (subject specialist librarians) attended a two-day workshop on RDM on 3-4 March 2020, which was facilitated by an RDM expert from University of Edinburgh, a follow-up 3 day workshop in 2023

- **Workflow on the UP Figshare Repository:**

- ✓ 3,588 datasets.....1,081,353 views .....88,555 downloads



# The State of Open Data

- Background on data management and engagement practices at the University of Pretoria



## Tips for engaging your researchers in open data sharing practices

– practical guidance from –  
the University of Pretoria



# UP Love Data Publishing Conversation Series

## Invitation

LOVE DATA  
PUBLISHING AT UP

29 September 2022



Department of  
Library Services

Departement Biblioteekdienste  
Kgoro ya Ditirelo tša Bokgabapuku

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www.up.ac.za

Theme: "Data is the new Gold"

15:00 – 15:05	Welcoming	<b>Mr Lazarus Matzirofa</b> Deputy Director: Scholarly Communication, Digital Services and Systems, DLS, University of Pretoria
15:05 - 15:10	Moderator	<b>Dr Liezl Ball</b> Senior Lecturer: Department of Information Science, University of Pretoria
15:10 – 15:30	Telling our stories: Data in Data Science and Artificial Intelligence on the African Continent	<b>Prof Vukosi Marivate</b> ABSA UP Chair of Data Science at the University of Pretoria
15:30 – 15:50	Managing and sharing research data	<b>Prof Michael S. Pepper</b> Research Professor: Dept. Immunology, Faculty of Health Sciences, University of Pretoria
15:50 – 16:10	The State of Open Data 2022	<b>Mark Hannel</b> CEO and founder of Figshare, Imperial College, London, England, United States
16:10 – 16:30	From Income to Outcome: Tracing Research Funding through to publications, online impact, and tech transfer	<b>Ben McLeish</b> Product Sales Team Lead: EMEA Team Lead Altmetric / Dimensions, Yorkshire, UK
16:30 – 16:50	The development of the urban digital twin laboratory at UP	<b>Dr Calayde Davey</b> Coordinator: Professional Practice, Convener: Urban Strategy & Hatfield Digital Twin City Initiative, Department of Architecture, University of Pretoria
16:50 – 17:20	Panel Discussion	Moderator
17:20 – 17:25	Closing remarks	<b>Mr Lazarus Matzirofa</b> Deputy Director: Scholarly Communication, Digital Services and Systems, DLS, University of Pretoria

# iGapp Research Data Management Series

**CONFIRMATION**  
**iGaPP Research  
Data Management**

03/10/22 | 8.30am

  
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**iGaPP**  
Information Governance Programme  
RESEARCH DATA MANAGEMENT

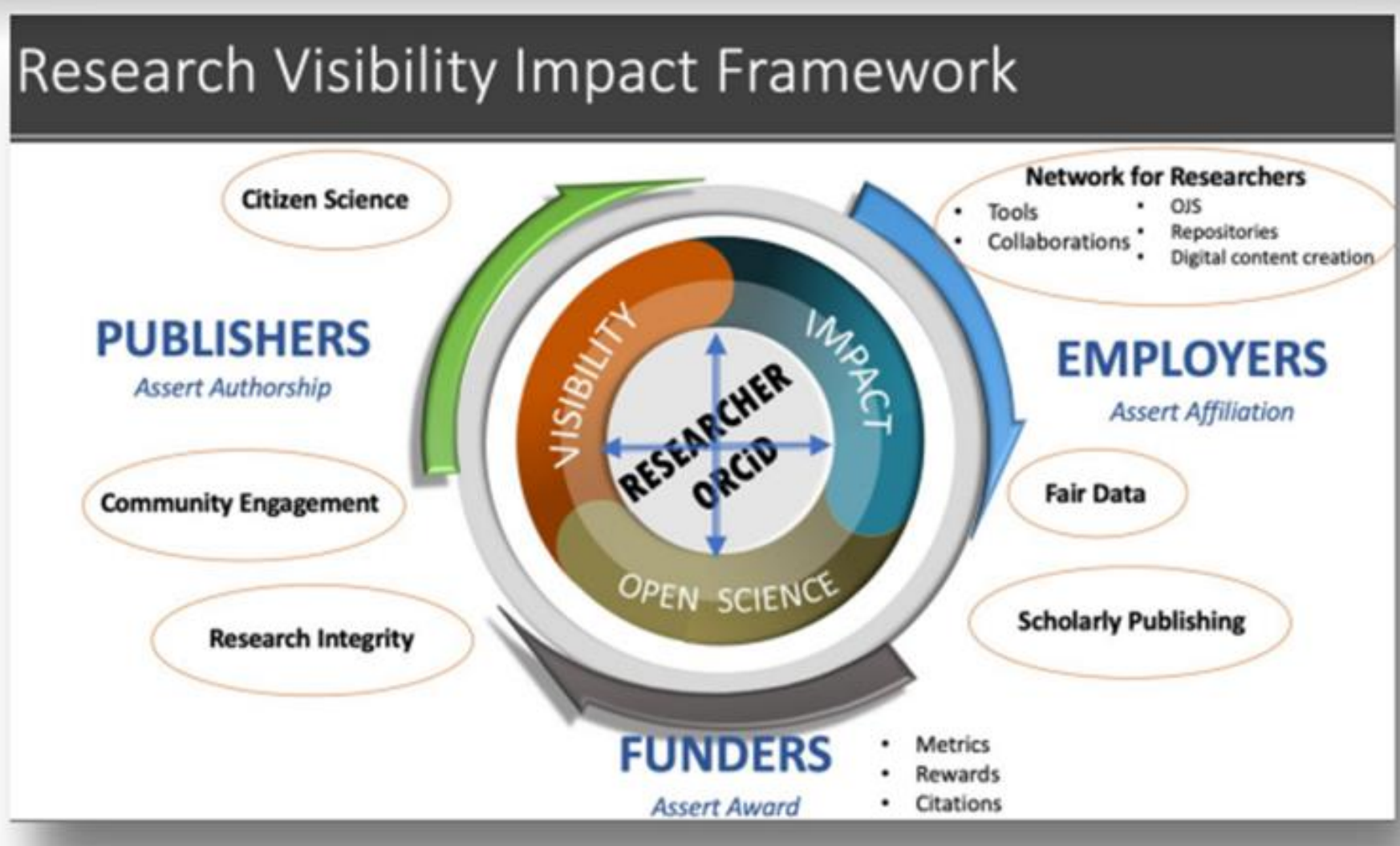
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# UP RDM Publications

- Matizirofa, L. 2022. UP researchers gain recognition at the National Science and Technology Forum Awards. [Department of Library Services News](#)
- Science, D., Simons, N., Goodey, G., Hardeman, M., Clare, C., Gonzales, S., Strange, D., Smith, G., Kipnis, D., Iida, K., Miyairi, N., Tshetsha, V., Ramokgola, M., Makhera, P. & Barbour, G. 2021. The State of Open Data 2021.  
[https://digitalscience.figshare.com/articles/report/The\\_State\\_of\\_Open\\_Data\\_2021/17061347/1](https://digitalscience.figshare.com/articles/report/The_State_of_Open_Data_2021/17061347/1) 29 September 2022

# Looking to the Future of UP's Research Ecosystem



# UP's RDM Partnerships



Digital Preservation Coalition



Confederation of  
Open Access Repositories



NDLTD



THE UNIVERSITY  
of EDINBURGH



Network of Data &  
Information Curation Communities



## Lazarus G. Matzirofa

Deputy Director: UP Libraries

- Head of Scholarly Communication, Digital Systems and Services
- Board Member of Networked Digital Library of Theses and Dissertations (Global Consortium)
- CHELSA: Team Leader - Repository Skills & Capacity Development

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