



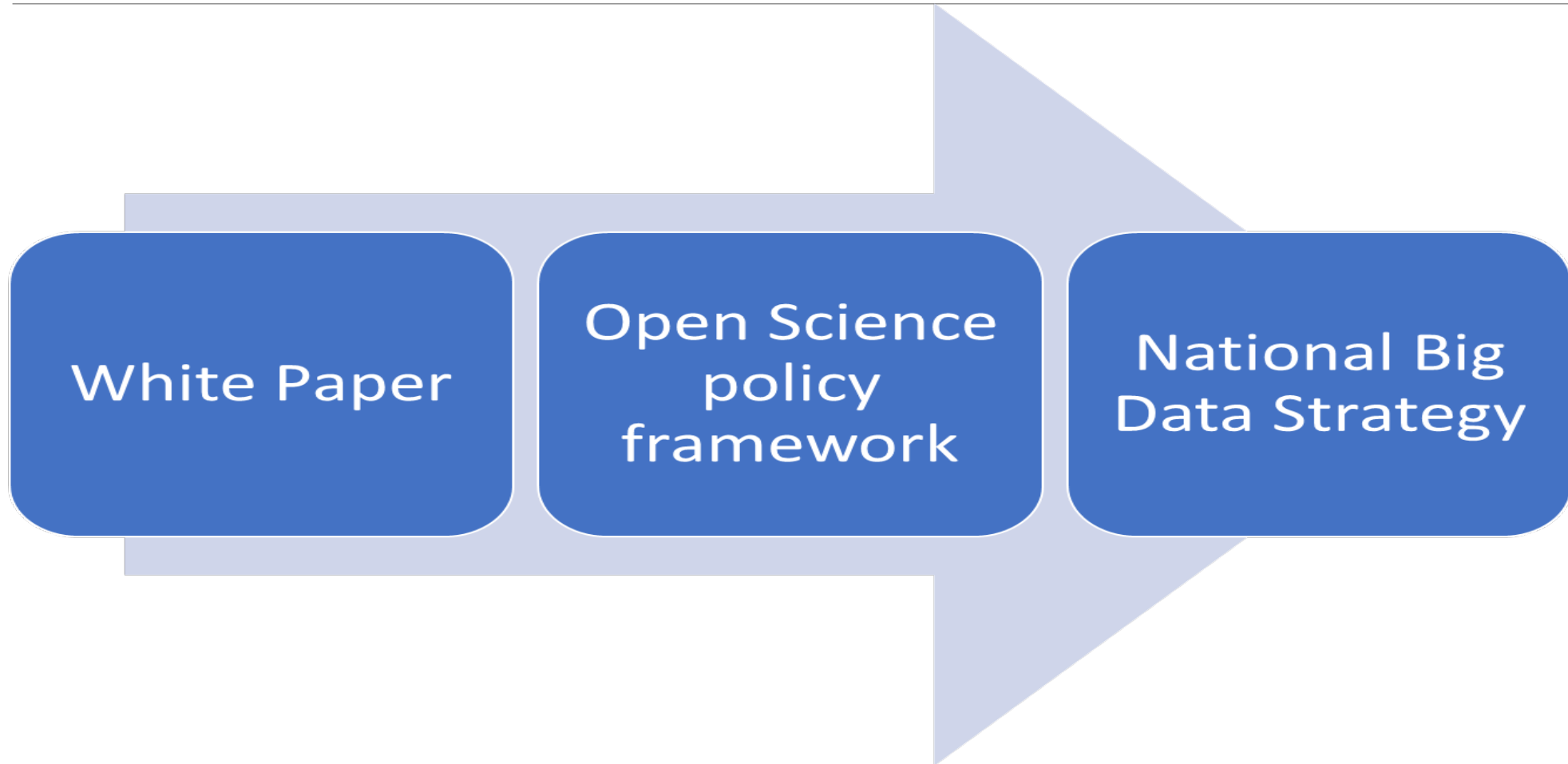
# Unisa Research Data Management and Curation Services

- Makaba Macanda: College Training: 31 May 2022

Define tomorrow.

# Strategic directions

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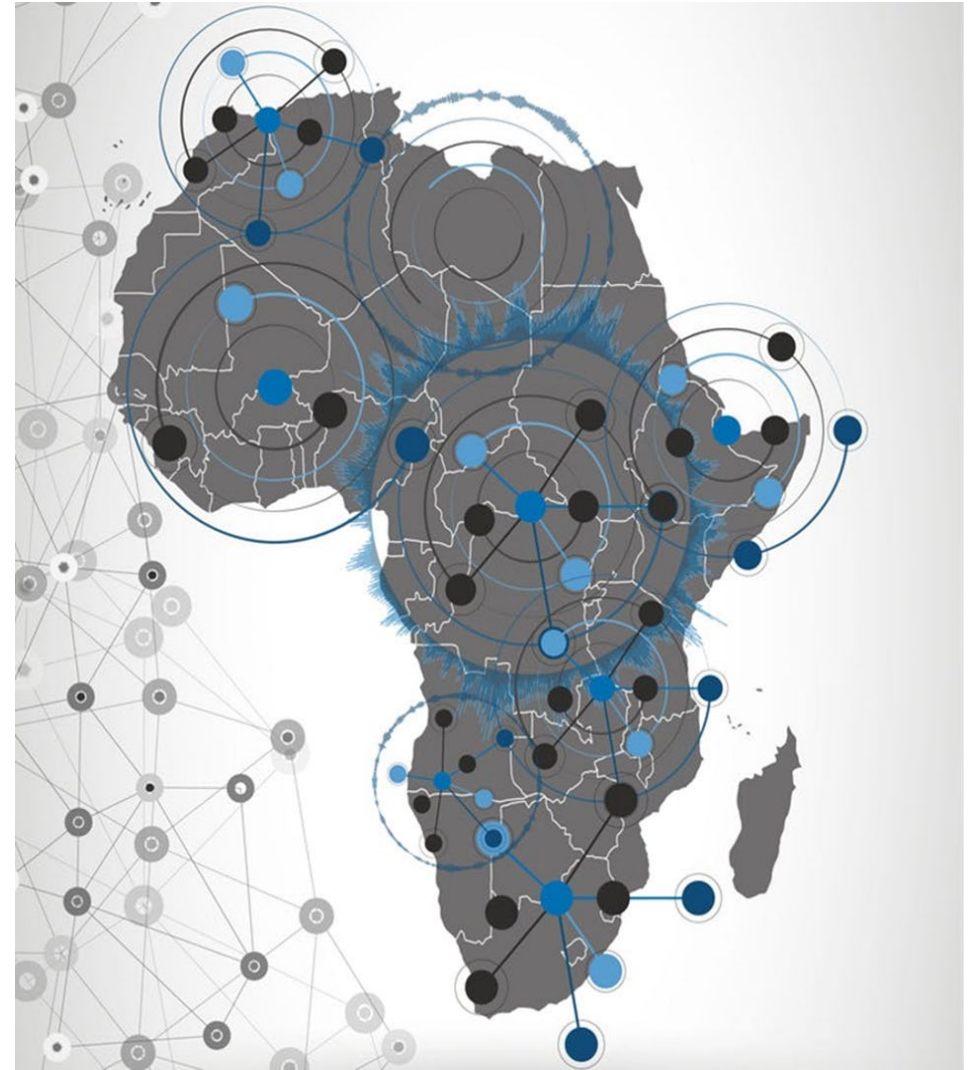
# Draft White Paper on Science, Technology & Innovation



- Drivers of global change
- National system of innovation
- Increased human capital
- Financing science, technology and innovation

# Open Science Agenda

- Mandate Open Science policies
- Balance Open Science and IP
- Curate confidential information
- Evaluation metrics and career pathways for data scientists
- Training in Research Infrastructure management
- Long term funding



# National Big Data Strategy

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- Human Capital Development – the next generation
- Cyberinfrastructure - sustainability
- R&D ecosystem – government, academia, private sector
- Data governance - sharing, reuse, and ethical use of big data
- Coordination of investments and initiatives



# FAIR data

- Describe your data in a data repository
- Receive a persistent identifiers (e.g. uct doi provided by Figshare)

## • Findable

- Consider what can be published
- Obtain participant consent
- Perform de-identification / anonymisation

## Accessible

## • Interoperable

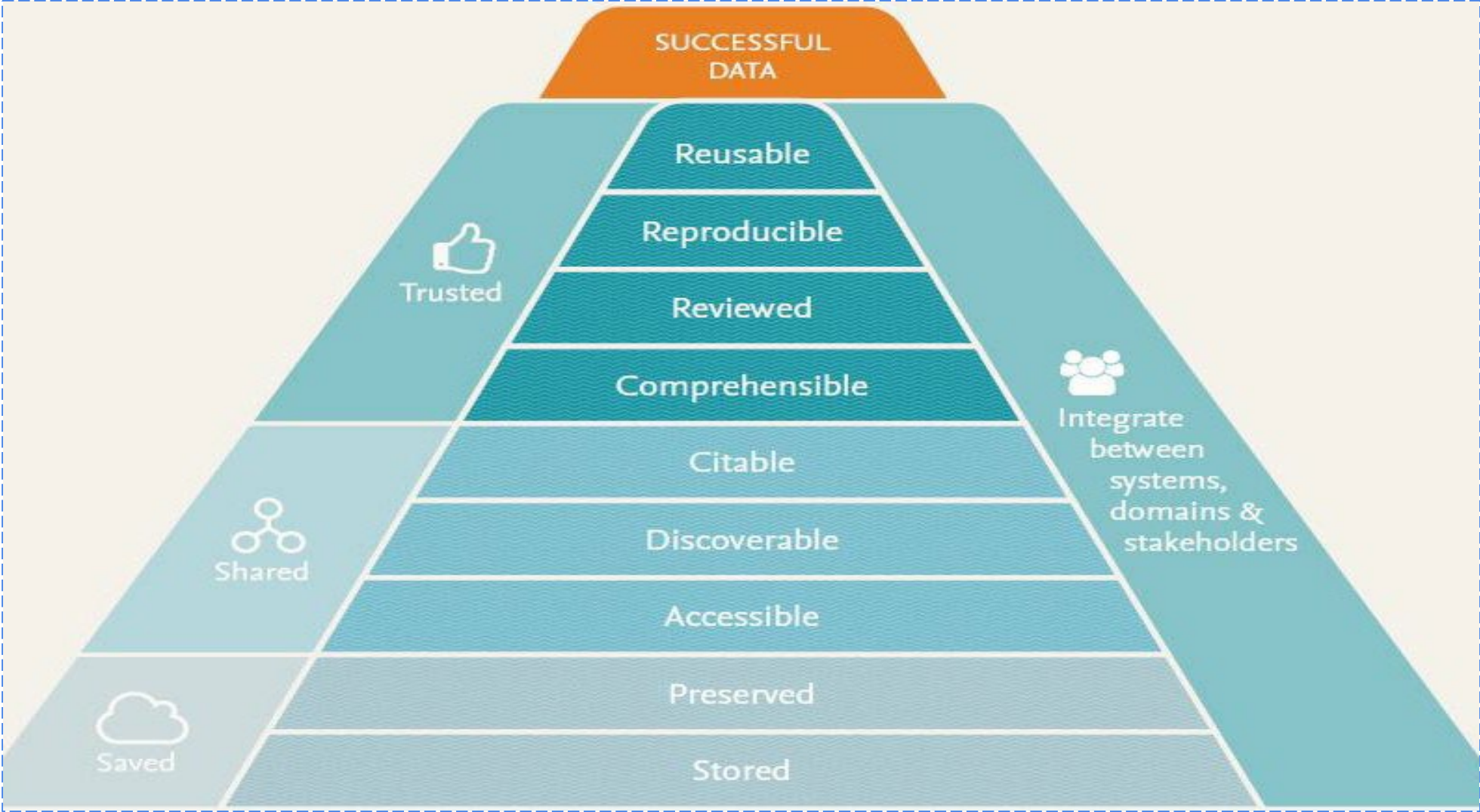
- Use open formats
- Apply consistent vocabulary
- Use common/disciplinary metadata standards

## Reusable

- Consider permitted use
- Apply machine-readable open licenses (e.g. CC-BY etc.)



**'Good RDM makes data reusable'**



Source: 10 aspects of highly effective research data - Good research data management makes data reusable. By Anita de Waard, Helena Cousijn, PhD, and IJsbrand Jan Aalbersberg, PhD

# Why share your data

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Funder requirements

Reproducibility

Sharing

Re-use

Long term preservation

Safe storage

Good science

Results verification





# Types of Research Data

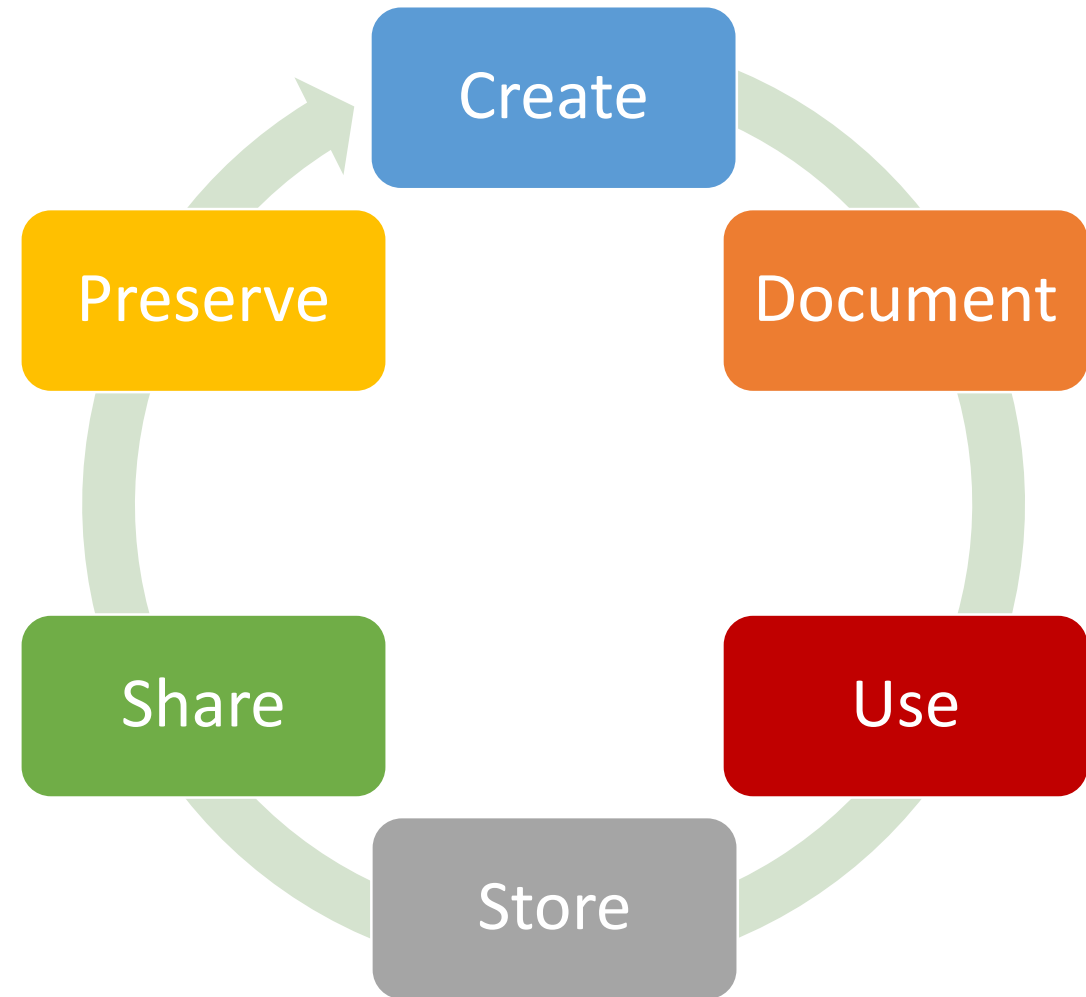
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Can take many forms:

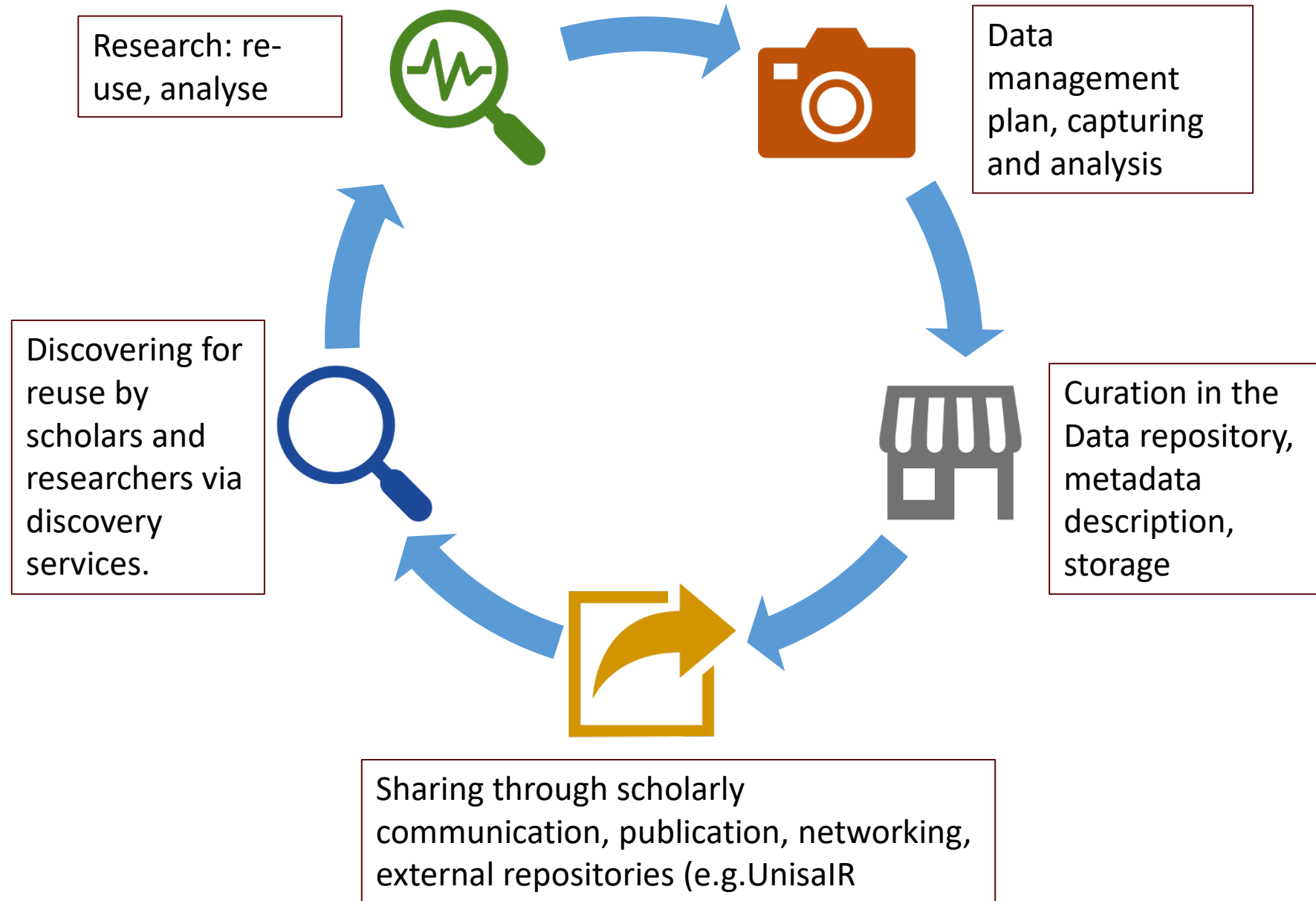
- documents, spreadsheets
- laboratory notebooks, field notebooks, diaries
- questionnaires, transcripts, codebooks
- audiotapes, videotapes
- photographs, films
- test responses
- slides, artefacts, specimens, samples
- collections of digital outputs
- data files
- database contents (video, audio, text, images)

# What is involved in RDM?

- Data Management Planning
- Creating data
- Documenting data
- Accessing / using data
- Storage and backup
- Sharing data
- Preserving data



# Research Data Life Cycle



# UNISA RDM Policy

- Approved by Council 2021
- Communicated via: Institutional communication channels
- Response to funding requirements:

Make provision for data re-use, To enable actionable and socially-beneficial science from publicly funded research

- Open science
- Open access
- Open research
- International best practices
- FAIR data principles

# Data supporting publication

- NRF ***Funder expectations:***
- Research Data that underlies the findings reported in a journal article/ conference paper/thesis as set out in the NRF Open Access Statement (2015)
- Deposit in a repository and ensure it is possible for third parties to access, mine, exploit, reproduce and disseminate for any user.

RDM principles and advice  
to share with researchers

# Data creation

- Decide what data will be created and how - this should be communicated to the whole research team
- Develop procedures for consistency and data quality
  - Choose appropriate software and formats - some are better for long-term preservation and reuse
  - Ensure consent forms, licences and partnership agreements don't limit options to share data if desired

# Documentation

- Collect together all the information users would need to understand and reuse the data
- Create metadata at the time - it's hard to do later
- Use standards where possible
- Name, structure and version files clearly



# Access and use

- Restrict access to those who need to read/edit data
- Consider the data security implications or where you store data and from which devices you access files
- Choose appropriate methods to transfer / share data
  - filestores & encrypted media rather than email & Dropbox

# Storage and backup

- Use managed services where possible e.g. University filestores rather than local or external hard drives
- Ask the local IT team for advice
- 3... 2... 1... backup!
  - at least 3 copies of a file
  - on at least 2 different media
  - with at least 1 offsite

# Data selection

- It's not possible to keep everything. Select based on:
  - What has to be kept e.g. data underlying publications
  - What legally must be destroyed
  - What can't be recreated e.g. environmental recordings
  - What is potentially useful to others
  - The scientific or historical value
  - ...

How to select and appraise research data:

[www.dcc.ac.uk/resources/how-guides/appraise-select-research-data](http://www.dcc.ac.uk/resources/how-guides/appraise-select-research-data)

# Data preservation

- Be aware of requirements to preserve data
- Consult and work with experts in this field
- Use available subject repositories, data centres and structured databases
  - <http://databib.org>

# Data Management Planning (DMP)

DMPs are written at the start of a project to define:

- What data will be collected or created?
- How the data will be documented and described?
- Where the data will be stored?
- Who will be responsible for data security and backup?
- Which data will be shared and/or preserved?
- How the data will be shared and with whom?

# Why develop a DMP?

DMPs are often submitted with grant applications, but are useful whenever researchers are creating data.

They can help researchers to:

- Make informed decisions to anticipate & avoid problems
- Avoid duplication, data loss and security breaches
- Develop procedures early on for consistency
- Ensure data are accurate, complete, reliable and secure

# UNISA Data Management Plan & SADMP

- <https://secure.dirisa.ac.za/SADMPTool/>
- DIRISA platform
- Unisa DMP in development

# Current status@UNISA

- RDM Policy approved 05 August 2021
- Unisa Data Repository:

<https://unisa.figshare.com/browse>

- [RDM Website](#)
- [RDM Libguide](#)
- Data deposit form
- Data Champions
- SADMP:DIRISA/UNISA DMP

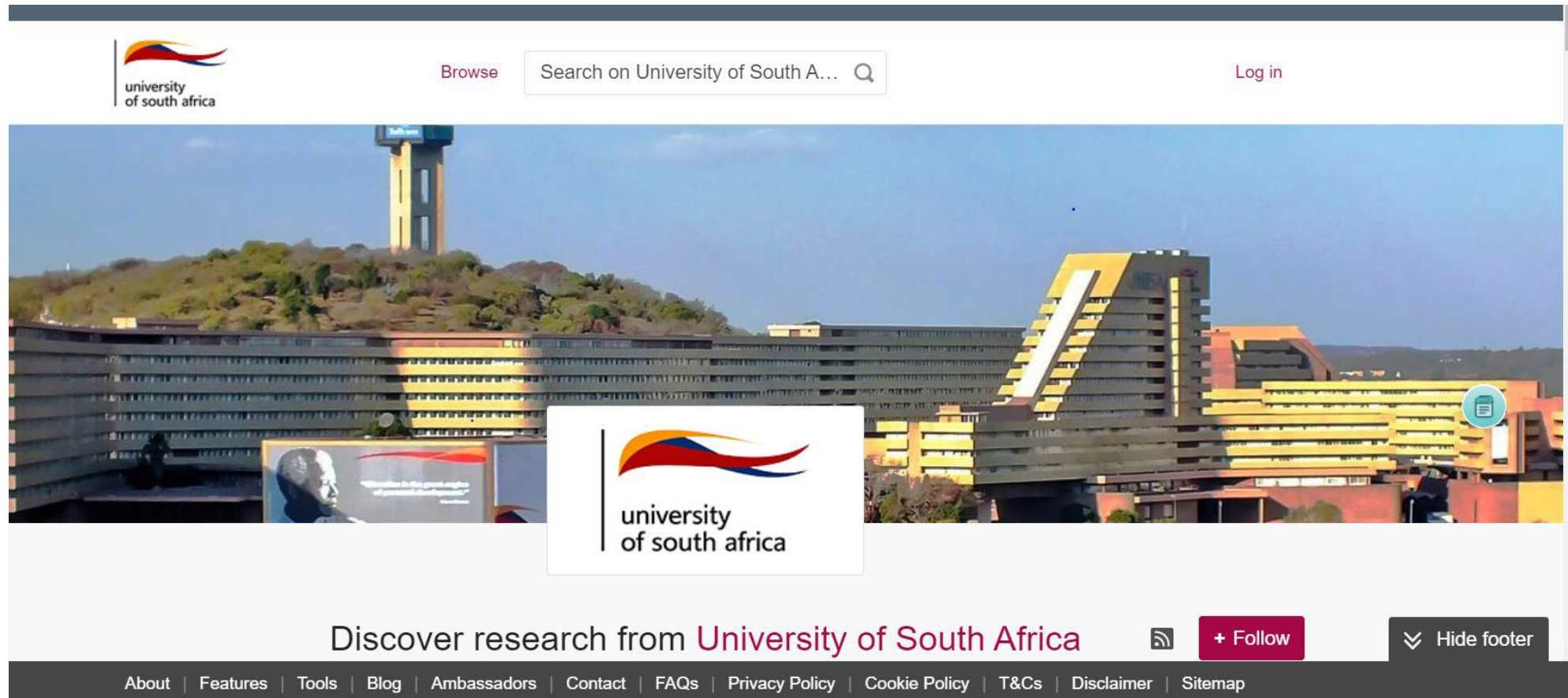
<https://secure.dirisa.ac.za/SADMPTool/>



# Future

- Supporting documents
- RDM strategy
- Data stewardships
- Repository certification: SEALS core trust

# Unisa Data Repository (Figshare)



The screenshot shows the homepage of the University of South Africa research repository. At the top left is the university logo. To its right is a 'Browse' button and a search bar containing the text 'Search on University of South A...'. Further right is a 'Log in' button. The main visual is a large photograph of a university building with a prominent yellow and white architectural feature. In the foreground, there is a white box containing the university logo and the text 'university of south africa'. Below the photograph, the text 'Discover research from University of South Africa' is displayed, followed by an RSS icon, a '+ Follow' button, and a 'Hide footer' button. At the bottom, a dark navigation bar contains links for 'About', 'Features', 'Tools', 'Blog', 'Ambassadors', 'Contact', 'FAQs', 'Privacy Policy', 'Cookie Policy', 'T&Cs', 'Disclaimer', and 'Sitemap'.

[University of South Africa research repository - Browse  
\(figshare.com\)](https://figshare.com/unisa)

# Unisa Data Repository



Explore more content ▾

Dataset posted on 03.03.2021, 12:49 by Adelle Van Zyl, Leora Farbo

S(h)elves (2017) (fig 4) is an exhibition of three large installations the collections of everyday objects. It is presented as partial fulfillment of a degree in Visual Art and is accompanied by the thesis titled Kabakov:loss, n in collections. The three installations are based on myself, my husband and my father (Jan-Carel Herselman). My autobiographical work takes the form of a column of densely stacked objects, while the works that relate to my husband and my father consist of two rooms which the viewer is invited to enter into. The entire exhibition is made up of found objects, since it is the nature of the objects that make up collections that are of interest to me.

<http://hdl.handle.net/10500/24781>

**UNISA**  **Institutional Repository**

[UnisaIR Home](#) → [Electronic Theses and Dissertations](#) → [Unisa ETD](#) → [View Item](#)

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**Loss. meaning and absence in personal collections**  
**Van Zyl, Adelle**

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URI: <http://hdl.handle.net/10500/24781>  
<https://doi.org/10.25399/UnisaData.14152289.v1>  
Date: 2018-08  
Type: Dissertation

Access the dataset in the Research Data Repository via the DOI link under URI at the top of this record

## Yolandi Botha's public data

1 post



## Extending polyphonic strategic communication to ...

Journal contribution posted on 12.07.2021 in University of South Africa

Yolandi Botha

<https://doi.org/10.25399/UnisaData.14937753.v1>

Full text of the article:

<https://hdl.handle.net/10520/ejc-mandyn-v30-n2-a1>

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## Extending polyphonic strategic communication to stakeholder engagement: Exploring deliberate-emergent and radical-emergent approaches

Yolandi Botha<sup>0</sup>

Affiliations

Published Online: 1 Jun 2021 • <https://hdl.handle.net/10520/ejc-mandyn-v30-n2-a1>

[PDF](#)

[Tools](#)

[Share](#)

# Usage metrics

Dataset posted on 03.03.2021, 12:49 by Adelle Van Zyl, Leora Farber (Prof)

S(h)elves (2017) (fig 4) is an exhibition of three large installations that centers on people's collections of everyday objects. It is presented as partial fulfillment of my Master's Degree in Visual Art and is accompanied by the thesis titled Kabakov:loss, meaning and absence in collections. The three installations are based on myself, my husband (Danie van Zyl) and my father (Jan-Carel Herselman). My autobiographical work takes the form of a column of densely stacked objects, while the works that relate to my husband and my father consist of two rooms which the viewer is invited to enter into. The entire exhibition is made up of found objects, since it is the nature of the objects that make up collections that are of interest to me.

## HISTORY

- **03.03.2021** - First online date, Submission date, Posted date

## REFERENCES

- <http://hdl.handle.net/10500/24781>

## USAGE METRICS

**82**  
views

**35**  
downloads

**0**  
citations



## CATEGORIES

- Art

## KEYWORDS

Visual arts

Furniture collection

Hoarding

## LICENCE



CC BY 4.0



# Usage metrics with citations

pone.0230478.g001.tif (340.95 kB) ⓘ ↓



## Flowchart depicting selection process of cases and control from the study population.

Cite

Download (340.95 kB)

Share

Embed

+ Collect



Figure posted on 02.04.2020, 19:37 by Alemayehu Gebremariam Agena, Lebitsi M. Modiba

### USAGE METRICS

79  
views

6  
downloads

1  
citations

Schematic presentation of sample selection process from the study population.

### HISTORY

● 02.04.2020 - First online date, Publication date, Posted date

### Read the peer-reviewed publication

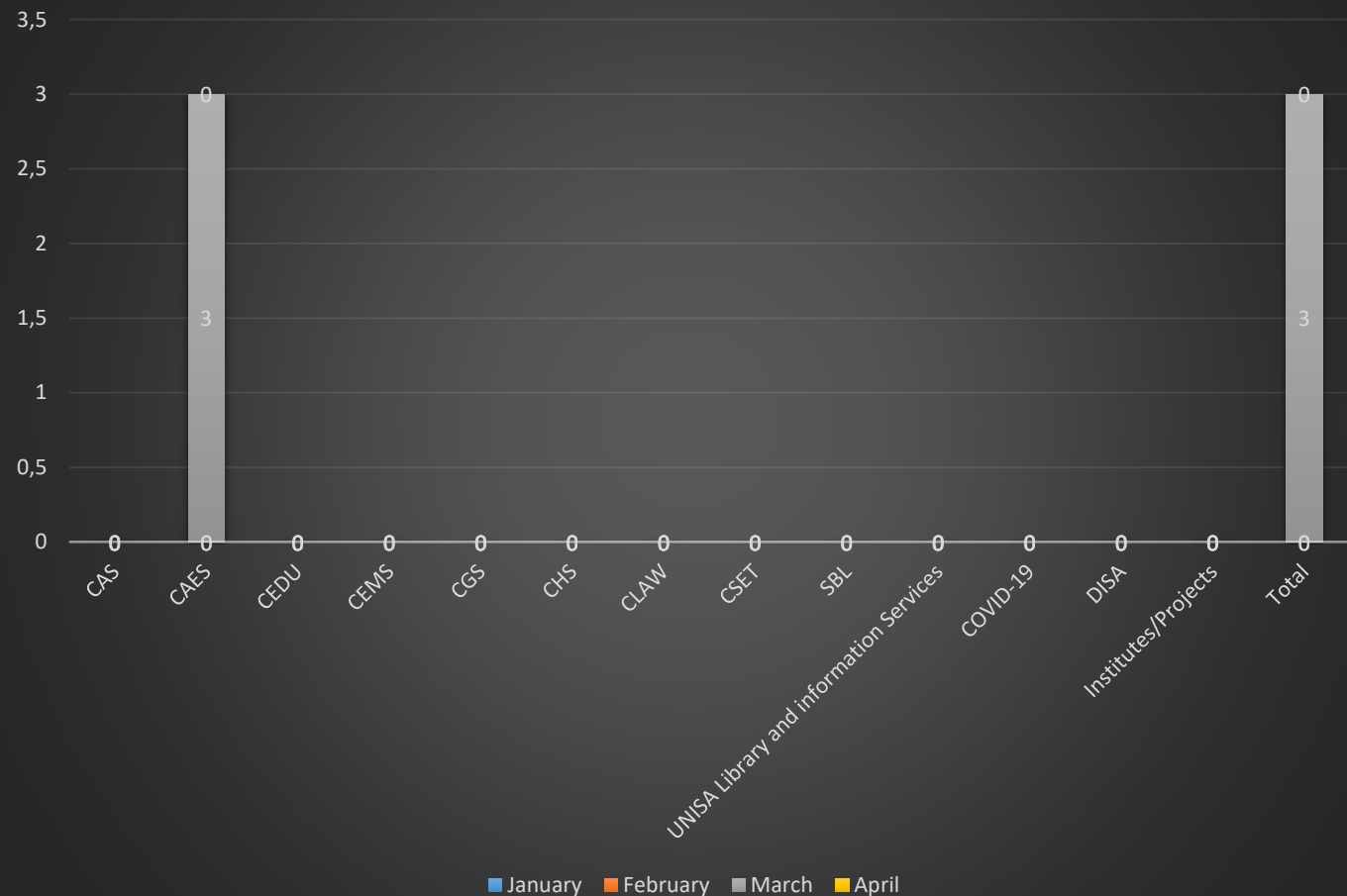
Labour admission assessment results of index pregnancy as predictors of intrapartum stillbirth in public health facilities of Addis Ababa: A case-control study



Figshare usage stats: Jan-April 2022

# Submissions

Submissions Jan-April 2022

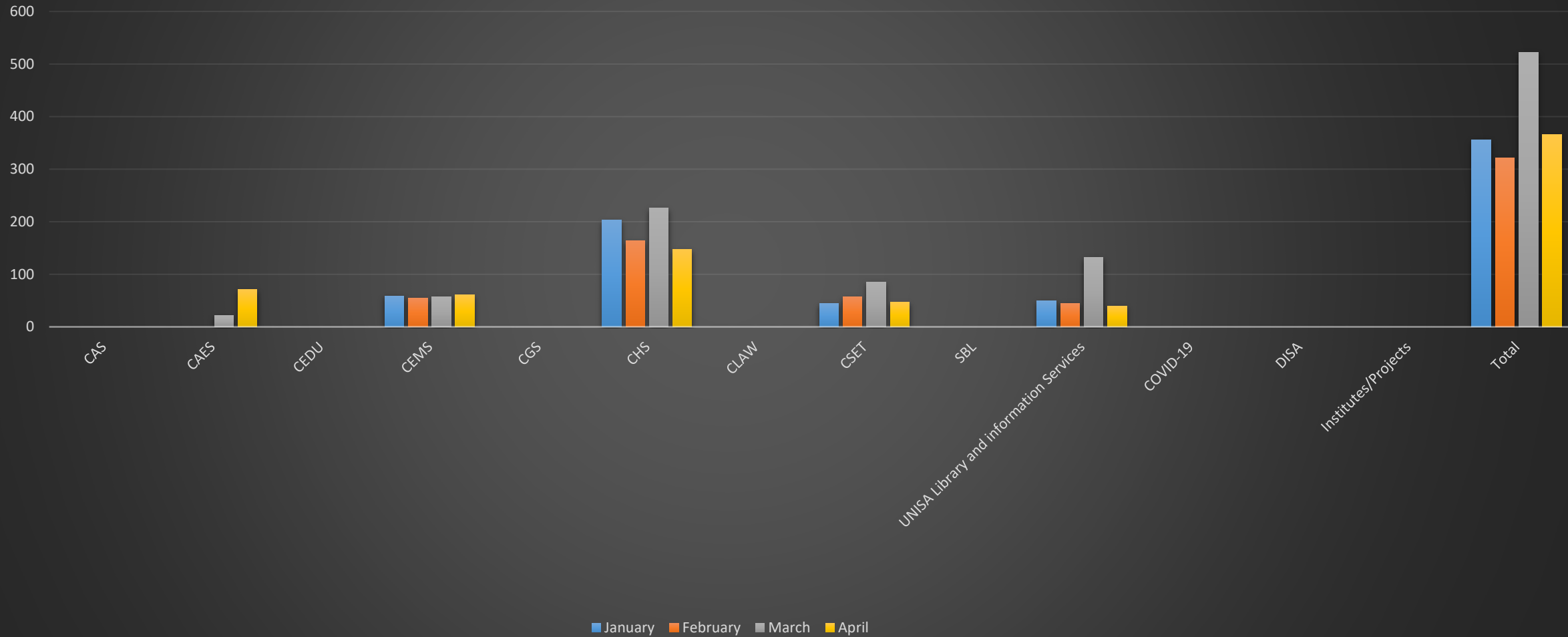


- 16 Data sets to date (July 2019-April 2022)
- 3 Data sets for the reporting period



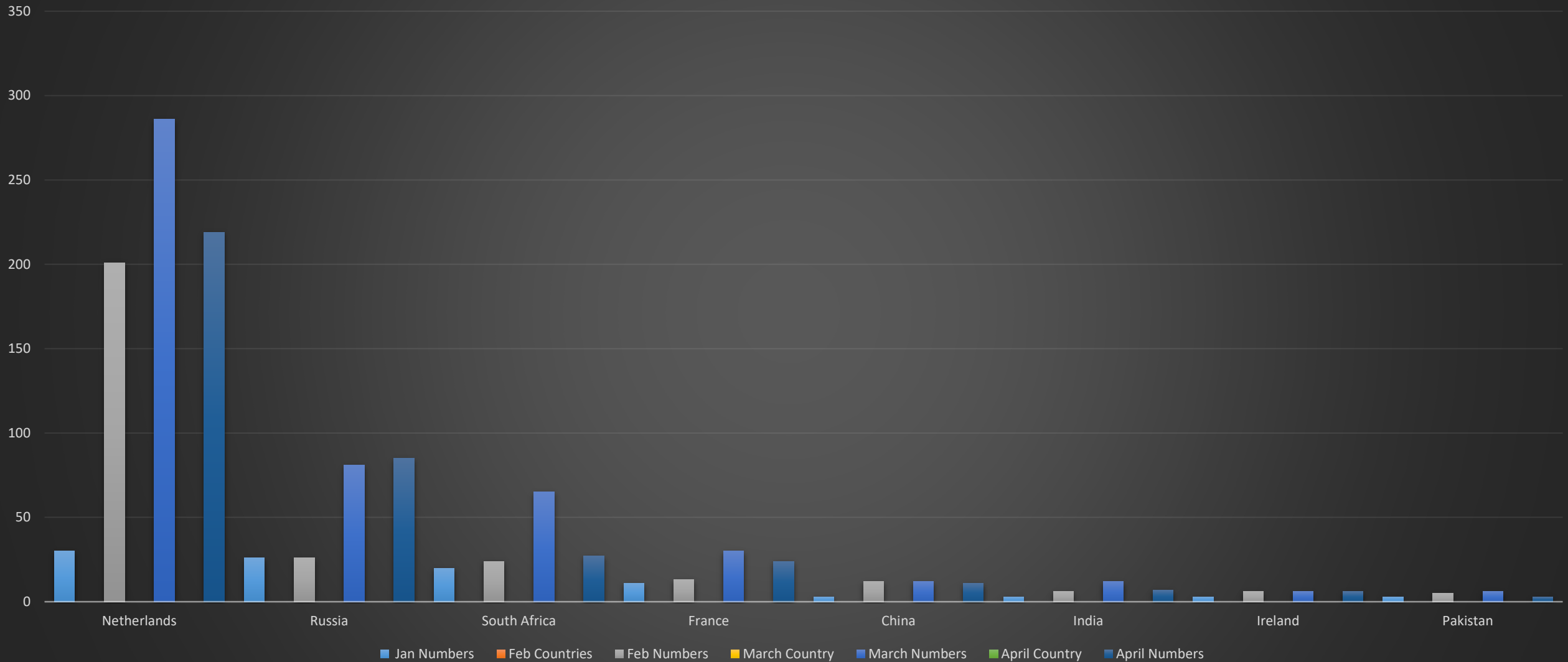
# Views

Views Jan-April 2022



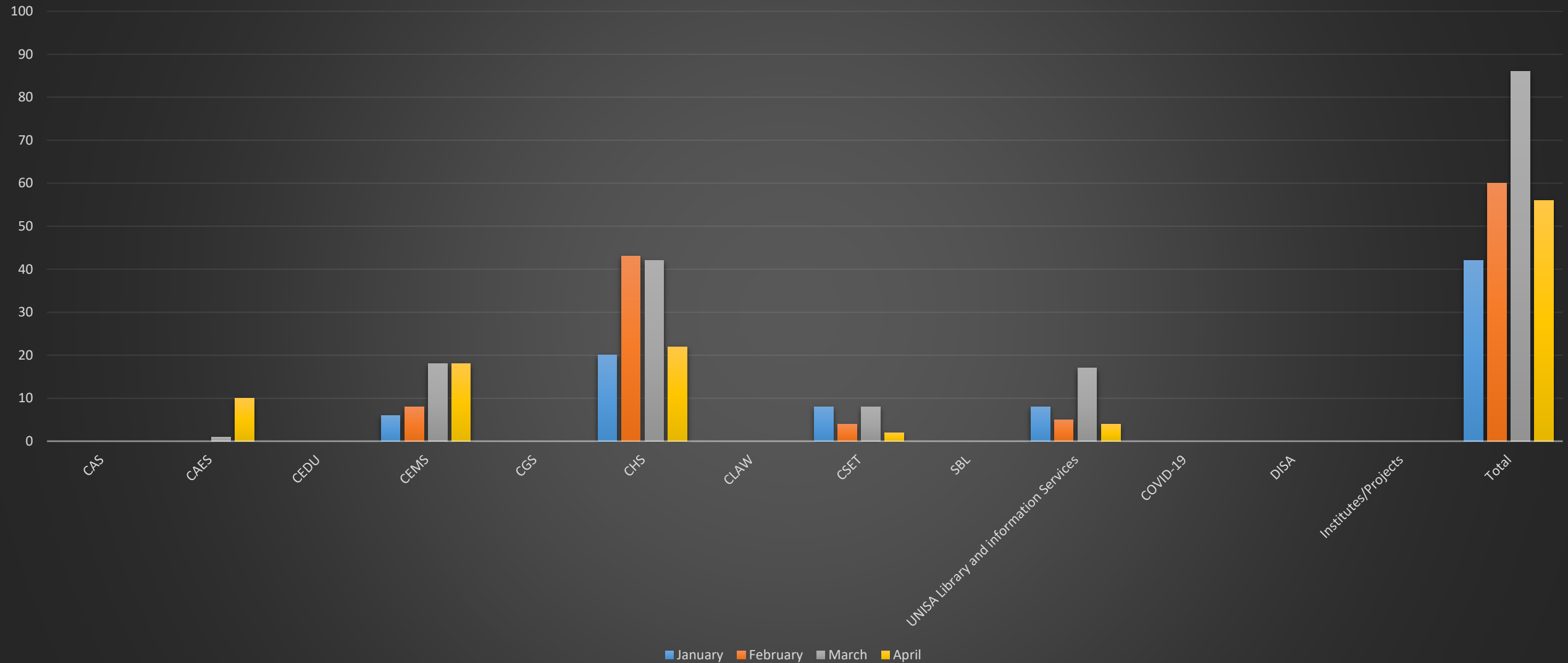
# Country views

Top viewing countries Jan-April 2022



# Downloads

Downloads Jan-April 2022



# For more

On Research Data Management/Curation

Contact: [rdm@unisa.ac.za/](mailto:rdm@unisa.ac.za)

Research Data Curator: Makaba Macanda

[macanmb@unisa.ac.za](mailto:macanmb@unisa.ac.za)

Or visit the link below on Unisa Data Repository:

<https://unisa.figshare.com/browse>

**Thank you**

**Define tomorrow.**

**UNISA** |   
university  
of south africa