

The Analytics of Global Impact of Wits Research Datasets



DIRISA 2025 Annual National
Research Data Workshop



Overview

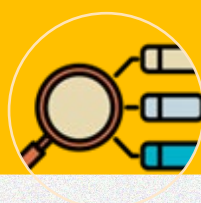
- Aimed at transforming our world
- Addressing global challenges and
- The well-being of humanity
- Leaving no one behind
- Addressing inequalities

Sustainable development Goals



- Originally defined by the subject matter experts
- Used by researchers & funders

Research Categories



- Global partnerships
- Creativity
- Knowhow
- Technology
- Financial resources

National & International Collaborations



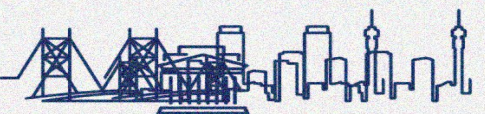
- Role of the research data management policy
- Datasets archiving and sharing
- Influence of datasets on policies

Policies



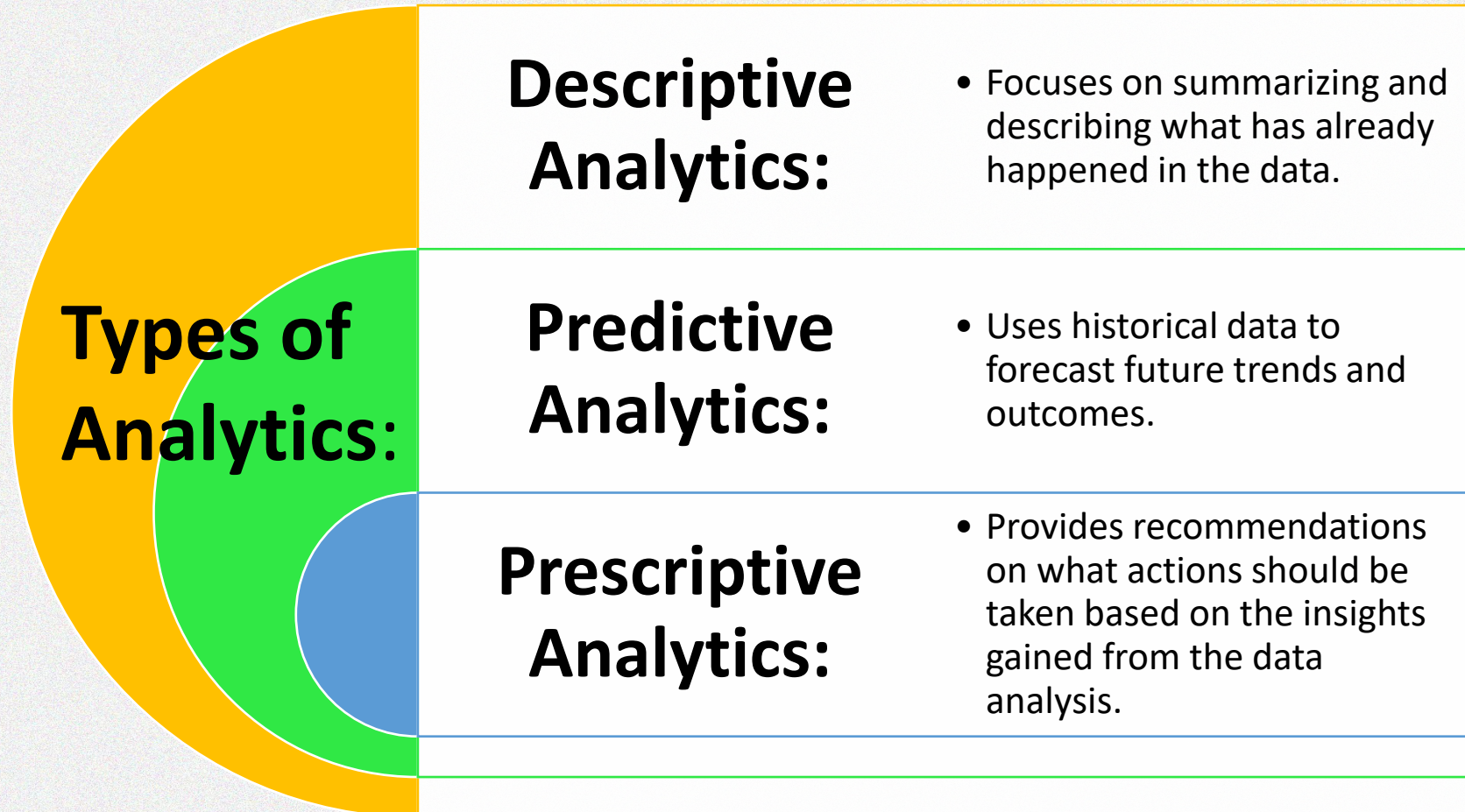
What is Impactful Research Outputs

Wits defines "impactful research" as research that is both high-quality and contributes to the advancement of academic disciplines, influences policy and practice, and stimulates social impact or economic development globally.



Data Analytics

Data analytics is the process of examining data to uncover trends, patterns, and insights that can inform decision-making



Types of Analytics:

Descriptive Analytics:

- Focuses on summarizing and describing what has already happened in the data.

Predictive Analytics:

- Uses historical data to forecast future trends and outcomes.

Prescriptive Analytics:

- Provides recommendations on what actions should be taken based on the insights gained from the data analysis.

Diagnostic Analytics:

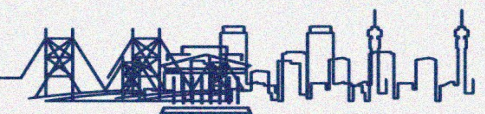
Aims to understand why something happened by analyzing the data to identify the root causes of certain events.

Source: 2025/06/25

<https://www.coursera.org/articles/data-analytics>

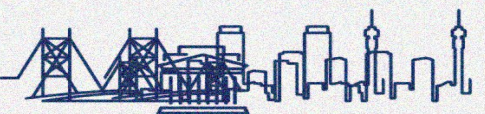
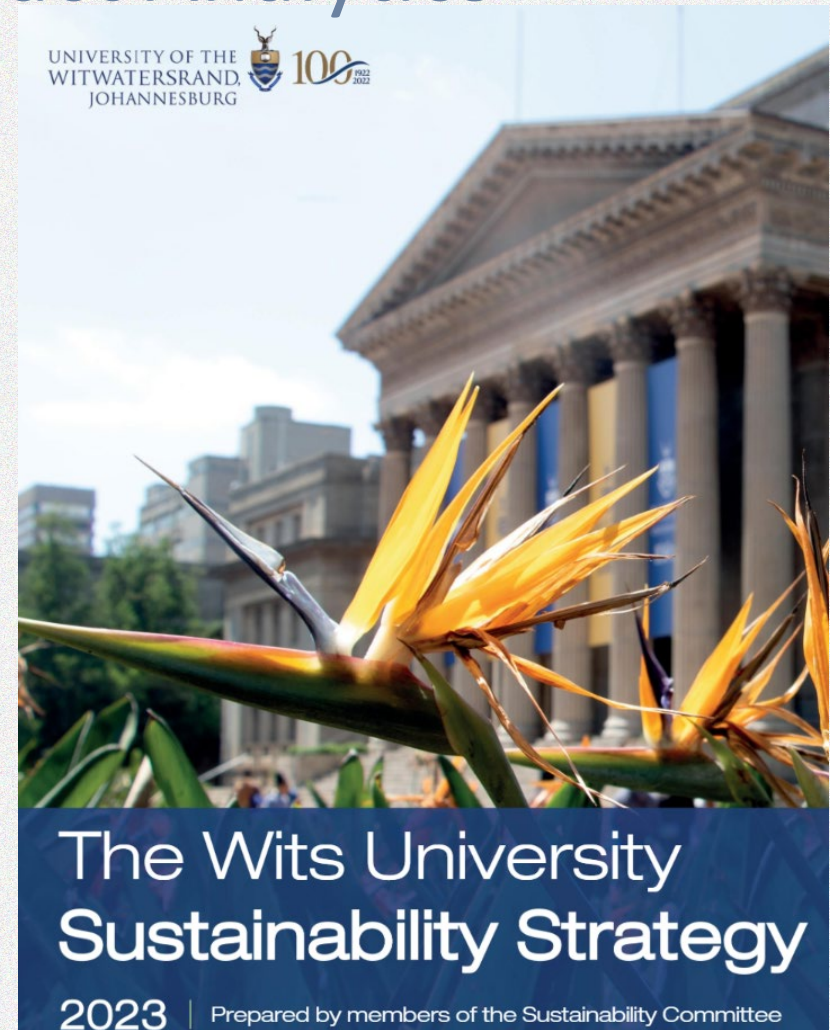
<https://www.sap.com/resources/what-is-data-analytics>

<https://onlinedegrees.scu.edu/media/blog/data-analytics-driving-better-business-decisions>



Where does Wits want to be in 2050

Wits responding to climate emergency commits to play a pivotal role in a just and equitable transition to a net zero-carbon economy for the city, region, country, continent and the world, by 2050



Publications & Citations on SDGs

Publications

SA = 189 783

Wits = 29 319

13% of SA

Citations

SA = 4 780 043

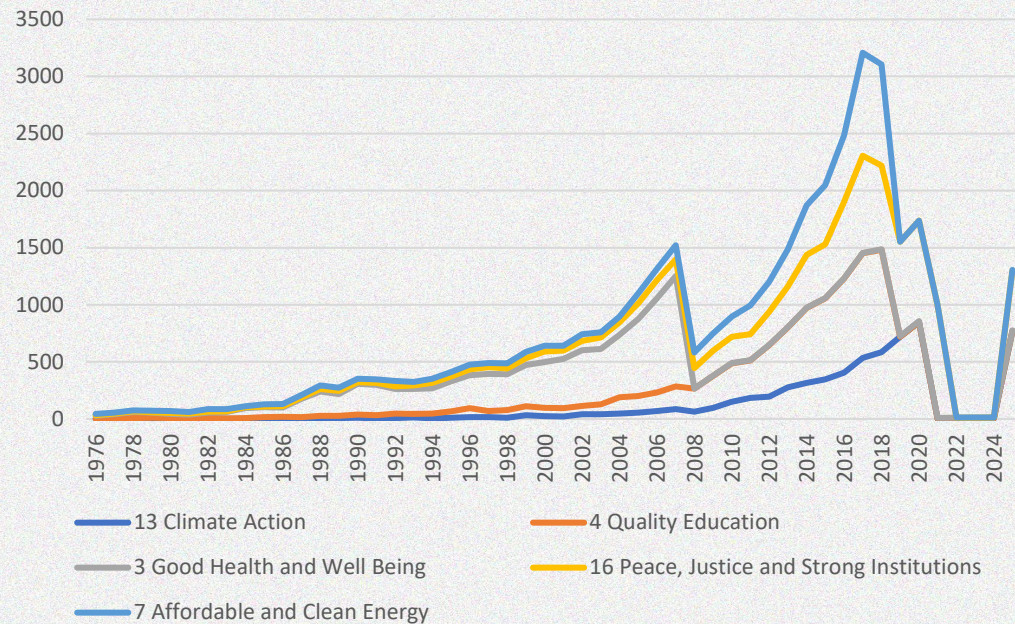
Wits = 331 659

7% of SA

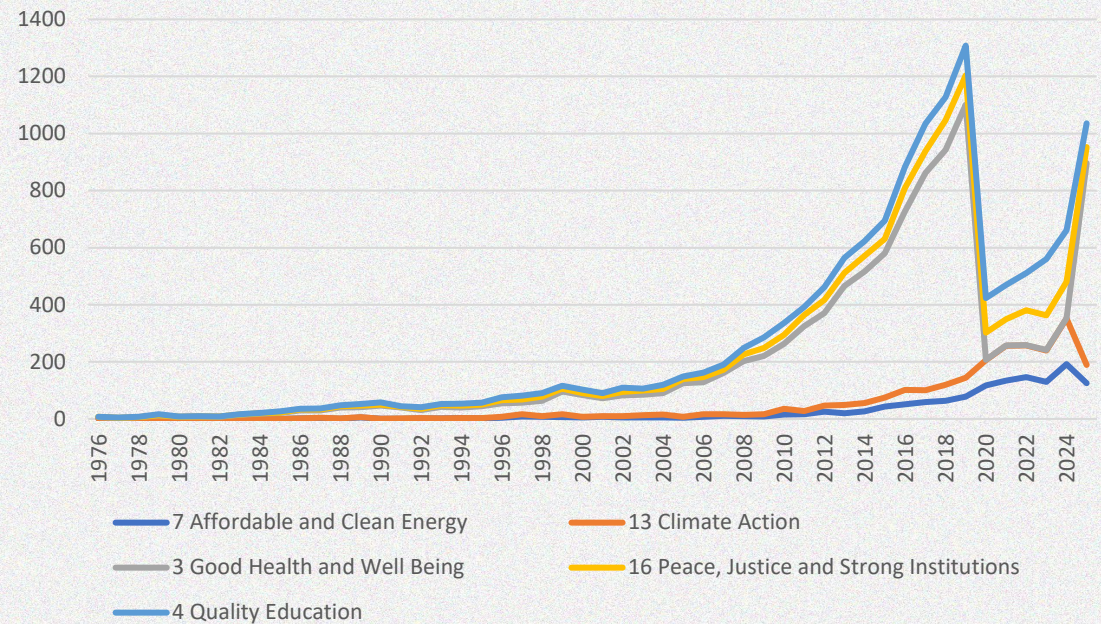
Based on the overall number of SA papers and datasets,
each SA university might contribute 3% if everything else is equal

Publications Period on Top 5 SDGs

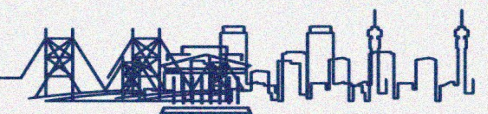
South Africa



Wits



The earliest Wits publications to have impact on the SDGs date back to 1976.



Publications & Datasets

Publications

SA = 560 985

Wits = 75 220

13% of SA

Datasets

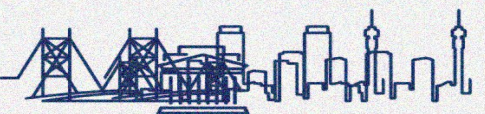
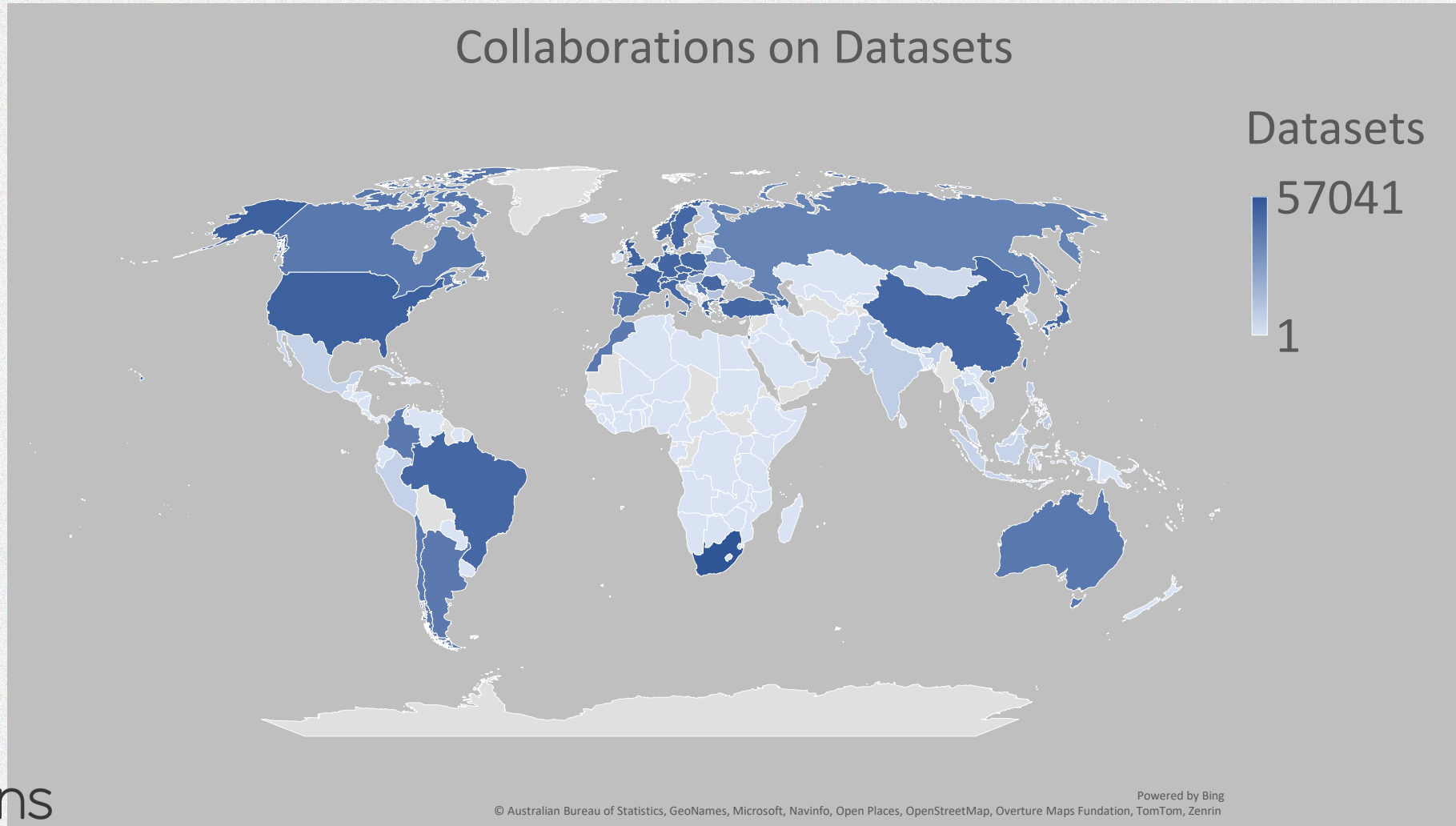
SA = 95 970

Wits = 57 041

59% of SA

Based on the overall number of SA papers and datasets,
each SA university might contribute 3% if everything else is equal

Datasets & Collaborations



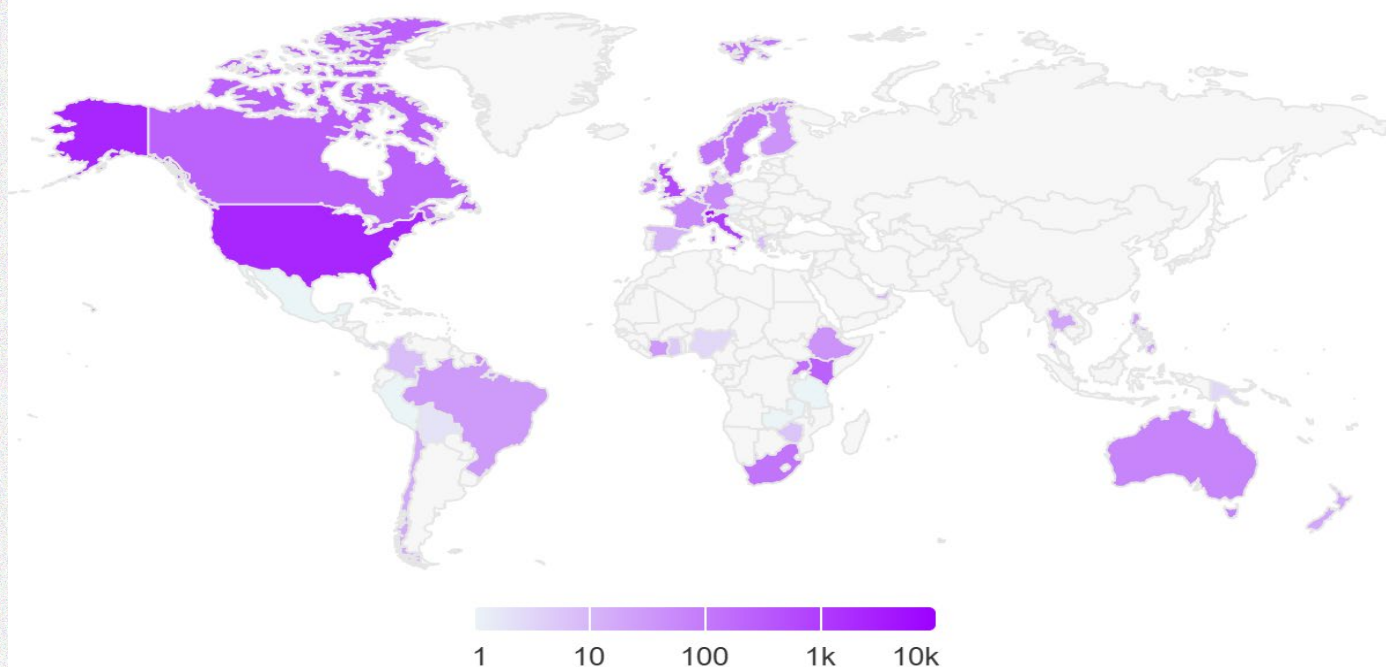
Analytics – Impact of Datasets - Policies

Wits Research Outputs Influence on Policies

- There have been 11,665 policy mentions by 5,832 unique policy sources in 44 specified countries.

Policy Demographics from Altmetric Explorer

Data for all research outputs from the full Altmetric database affiliated with University of the Witwatersrand



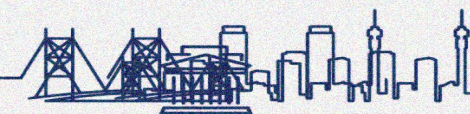
There have been **11,665 policy mentions** about this content by **5,832 unique policy sources** in **44 specified countries**.

Downloaded from Altmetric Explorer at Altmetric.com on the 25/06/2025

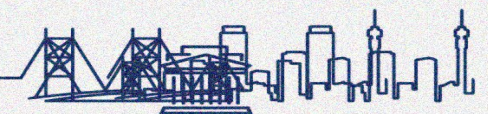
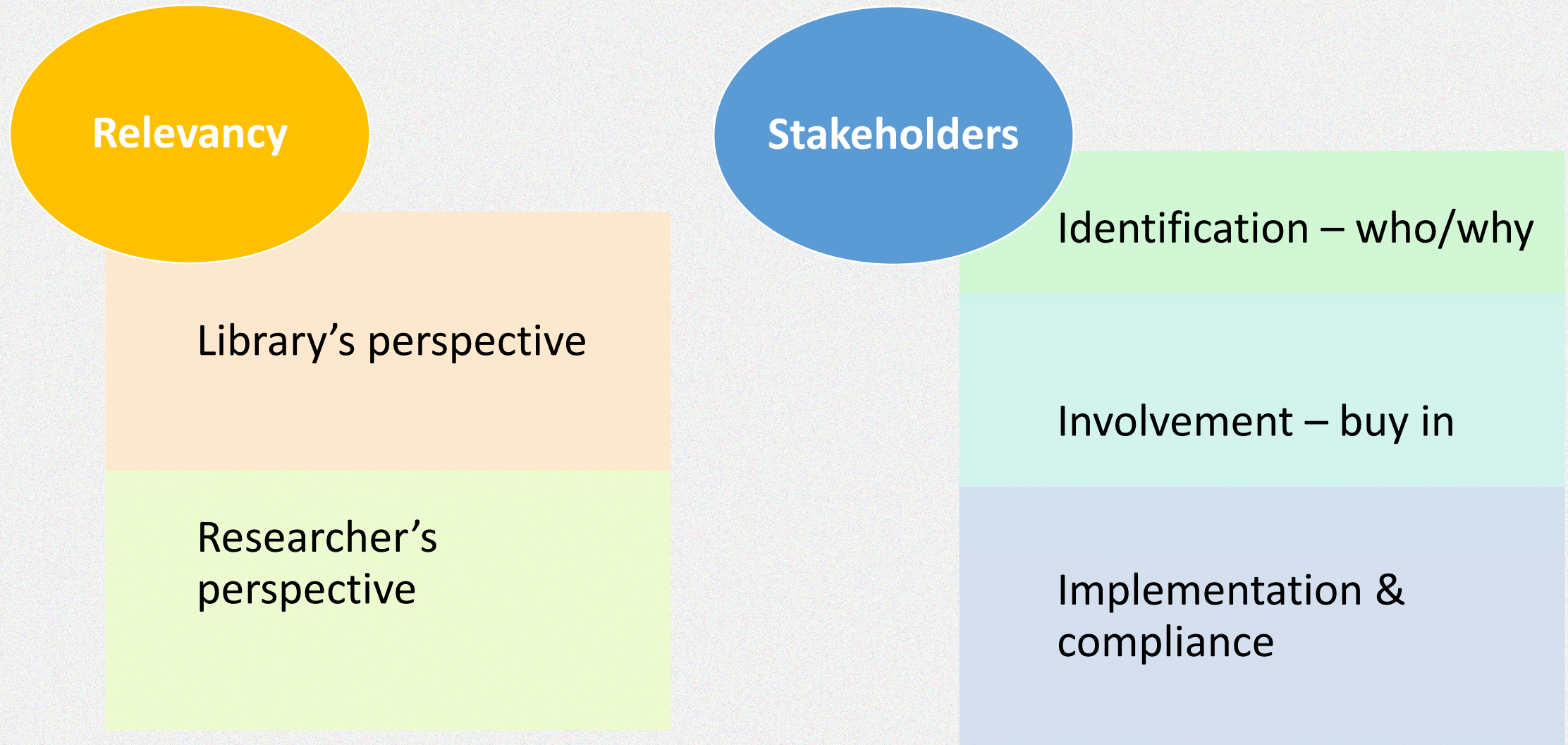
Source: 2025/06/25



Altmetric
EXPLORER



Impact of Datasets – Wits RDM Policy Review



Recommendations

Sharing & collaborations



Up-to-date e-profiles

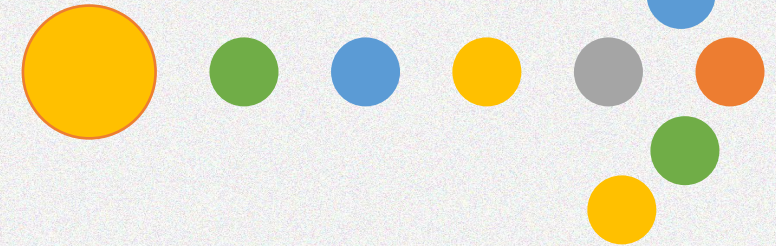


SDGs Actions

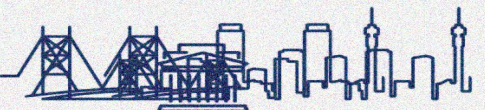


Datasets

“Leave no one behind & address inequalities”



Training, Engagements, Reporting



Thank you

Bongi Mphuti

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