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SA Open Data Frameworks and Practices Adv. Lulu Makapela, NEOSS, SA-GEO

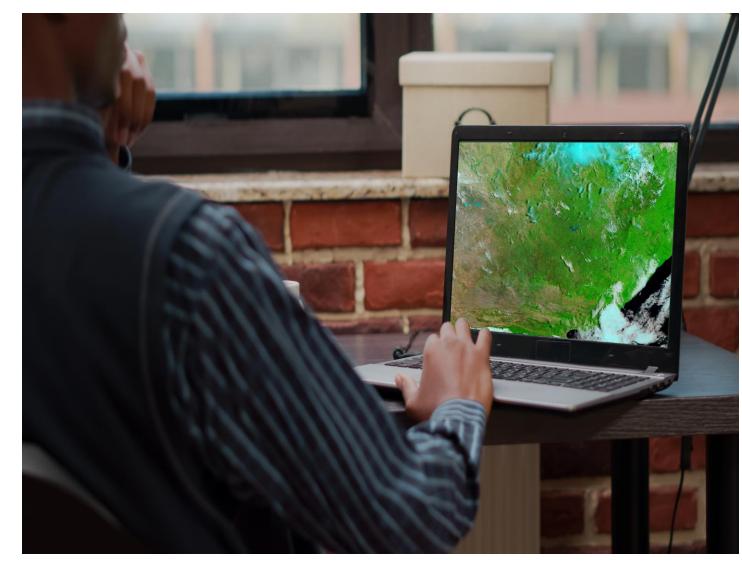
SOUTH AFRICAN GROUP ON EARTH OBSERVATIONS

04/07/2023

OUTLINE



- Significance of open data
- SA data overarching frameworks
- International data sharing principles
- Facilitation of Open data
- SA Open data practices and models
- Common Insights



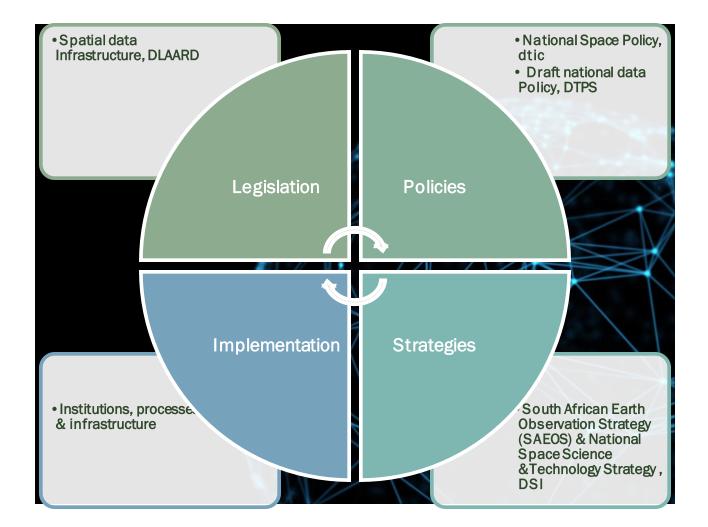


Significance of Open data



- Increased access to data
- Adherence to data sharing principles
- Transparency and accountability
- Reduced duplication
- Interoperability and discoverability
- Improved decision making





International Data Sharing and GEOSS principles

Accessible

(Metaldata are retrievable by their identifier

Metadata are accessible, even when the data

Reusable

(Meta)data are richly described with a

plurality of accurate and relevant attributes

Metaldata are released with a clear and

(Metaldata are associated with a detailed

accessible data usage licence

iMetaldata meet domain-relevant

provenance

The protocol is open, free and universal
The protocol allows for authentication and

using a standardized protocol

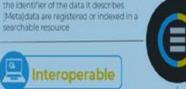
authorization, as needed

are no longer available





- Full and open exchange of data, metadata and products shared within GEOSS
- All shared data, metadata and products will be made available with minimum time delay and at minimum cost;
- All shared data, metadata and products being free of charge or no more than cost of reproduction will be encouraged for research and education



(Meta)data use a formal, accessible, shared and broadly applicable language (Meta)data use vocabularies that follow FAIR principles

Findable

(Meta)data are assigned a globally unique

Data are described with rich metadata

Metadata clearly and explicitly include in

and persistent identifier

(Meta)data include qualified references to other (meta)data



SAGEO Open Data Facilitation Mechanisms

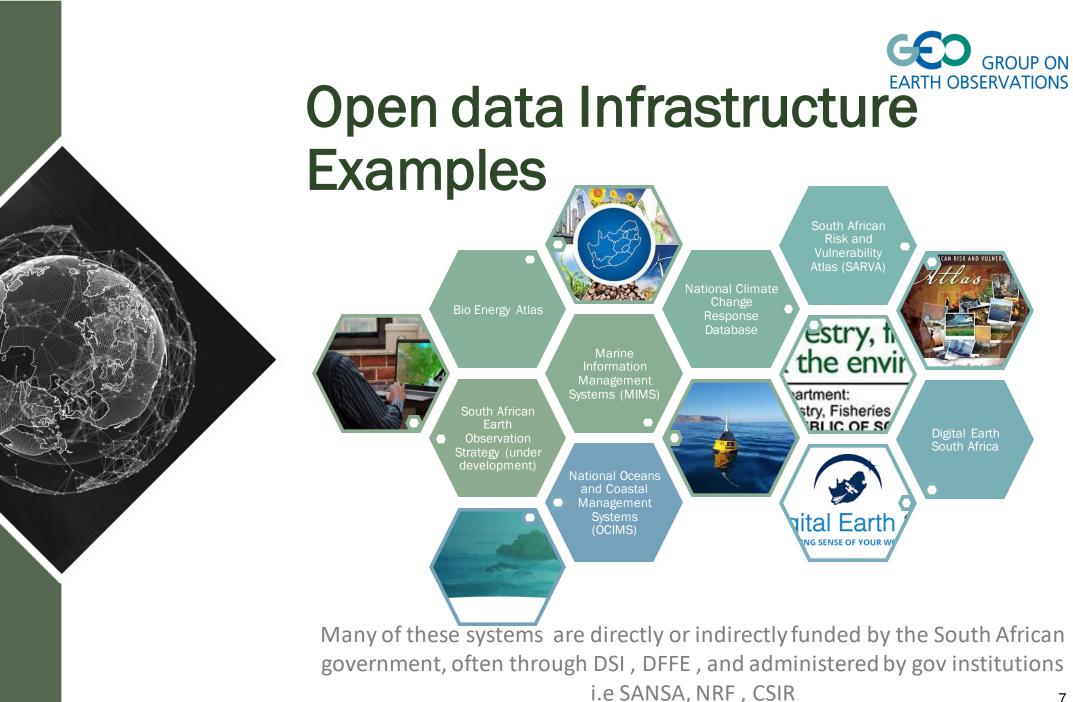
SA-GEO Communities of Practice (CoP) Engagements

- Data Governance CoP
- Earth Observations Infrastructure CoP
- Best practise guidelines (under development)
- Open data policy recommendations





CoP Integrated Workshop, 30 May 2023, CSIR, Pretoria South Africa



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MARCOSIO Portal

- Built according to the international and national standards and guidelines
- Information is powered by insitu and EO
- Different decision support tools with diff stakeholders
- Philosophy of openness technology –accessibility of knowledge
- Open source –cost , scalable









Common Insights

- Adherence to international standards ,principles and rules to facilitate data discovery and exchange.
- Maintain openness , security and reliability.
- Support of a variety of data formats and data sources (Diff decision support tools).
- Wide variety of and different levels of data use, ranging from basic data provision and preservation to value addition and decision support.
- Engagements with and support to data owners and users in order to facilitate data sharing.
- Public data is openly available, whilst commercial data has some restrictions.
- Some are linked and discoverable to the GEOSS Portal.
- Some need to enhance capability to allow cross-link of metadata as part of the global network.





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