

OPEN DATA & OPEN KNOWLEDGE Workshop

AfriGEO

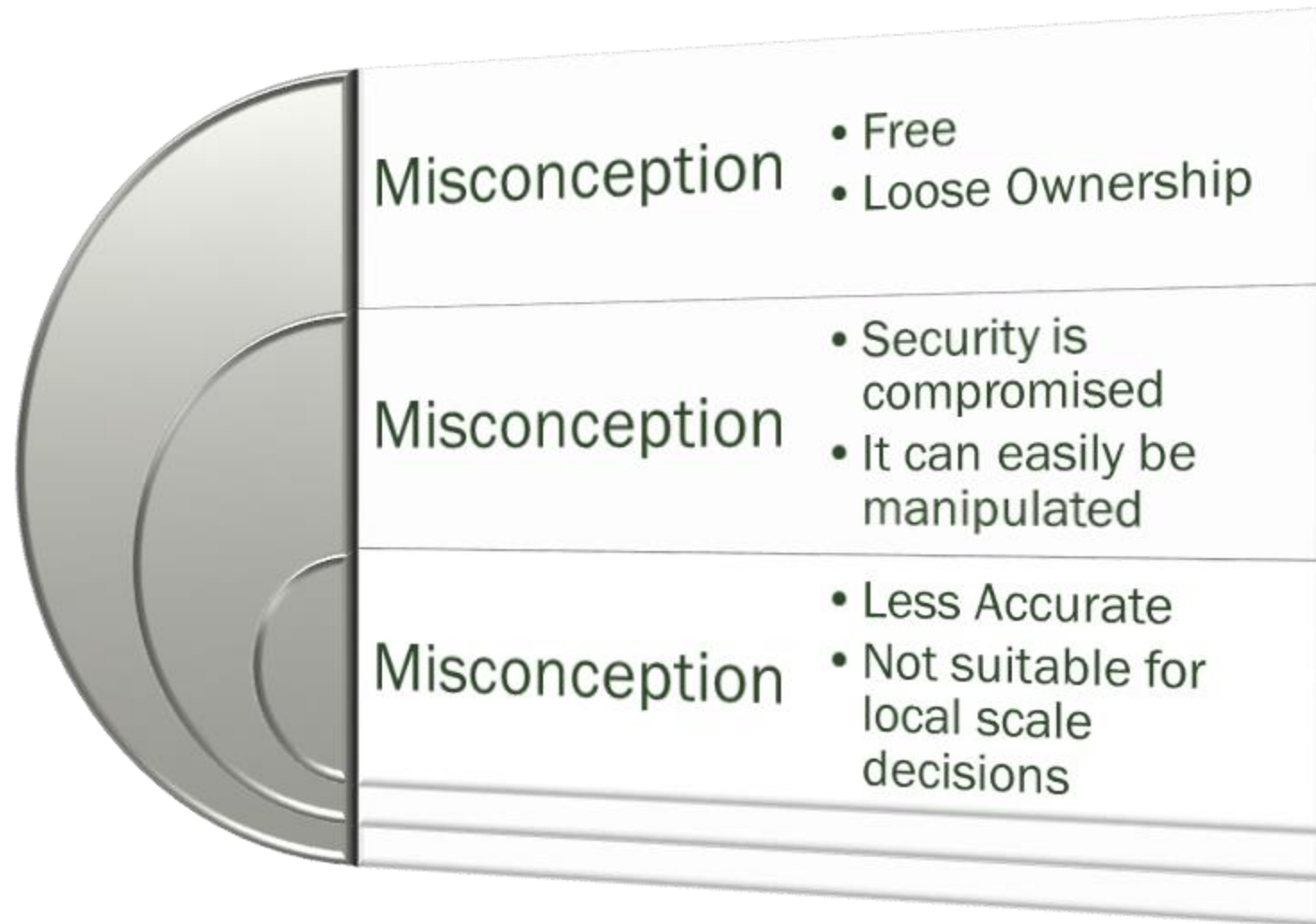
What does open data mean

Open science

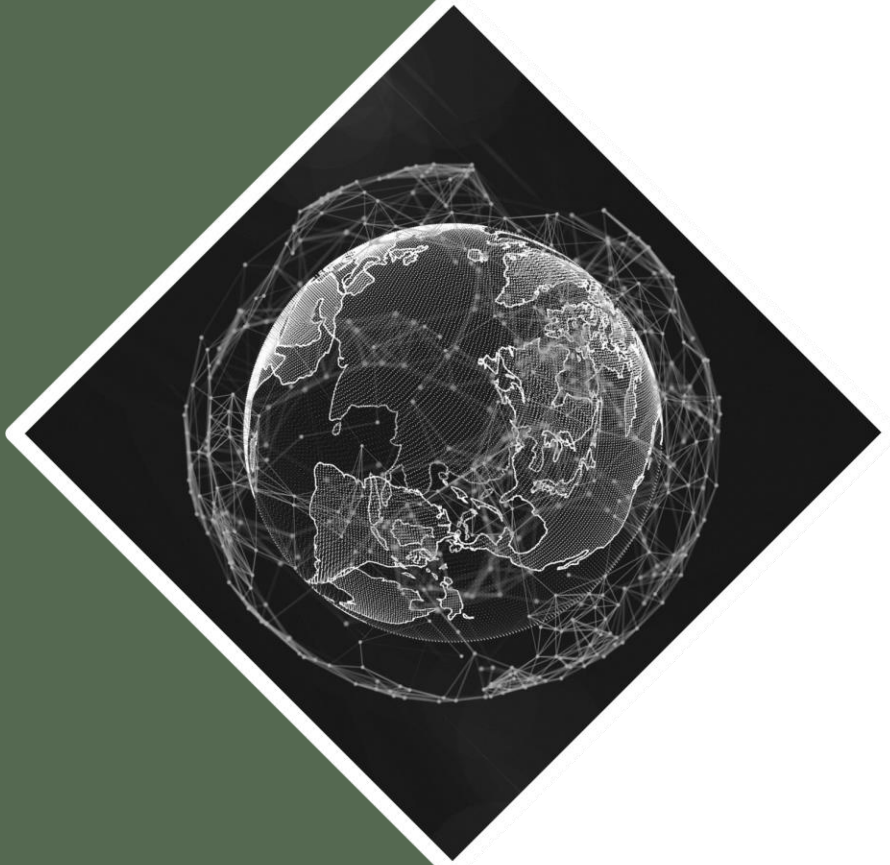
Accessible to all
(discoverable & findable)

Extractable
(visualize, download)

Data Misconceptions



Challenges/ Opportunities



Political Goodwill

- Policy Framework
- Resourcing

National/Institutional Sovereignty

- Costs Bearer
- Source of Income
- Fear of Redundancy

Standards

- Data Sharing Standards and Metadata
- Data Quality Standards
- Data Collection Procedures
- Adherence to data Sharing principles: FAIR (*Find, Access, Interoperate, and Reuse*), TRUST (*Transparency, Responsibility, User focus, Sustainability, and Technology*), CARE (*Collective Benefit, Authority to Control, Responsibility, Ethics*)
- Licensing

Infrastructure

- Access
- Storage
- Maintenance
- Security
- Internet

Frequency of Data Collection and Updating

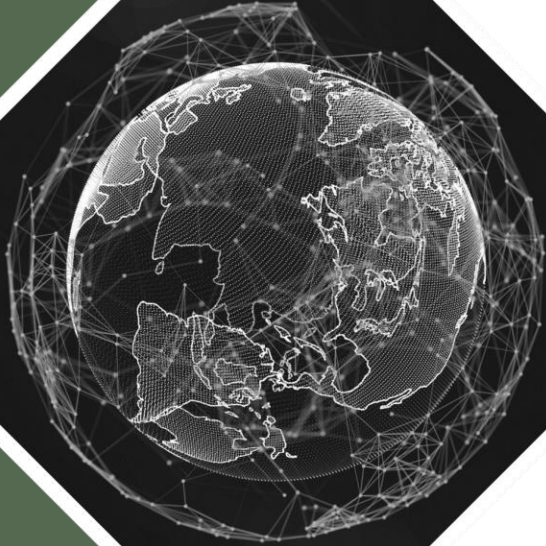
Human Capital

- Skills
- Sufficient Manpower

Limited Research and Development Investment

Use Case: SA-GEO

1. Policy and Legal Framework
2. Strategy Document
3. Infrastructure for Storage, Access: DE SA, OCIMS, SAEOSS (under development)
4. Maintenance procedures/ Data Custodianship
5. EO data once purchased by data becomes access to all institutions hence reduces on wastage of resources (Multiple-user license agreements)
6. Community of Practice that enhances open science and data sharing
7. Specific COP that guides on data governance and Infrastructure issues



Benefits of Open Data

1. Avoid data duplication
2. Share commercial data such as HR images
3. Apparent data gaps
4. Centralized storage systems- reduced institutional costs
5. Cloud access provides higher computing resources, less costs transferred to the institutions
6. Maintenance costs of data and system can be transferred
7. Research and innovation is activated
8. Data custodians and creators can be easily assigned
9. Opportunities for collaboration
10. GKH, Existing Infrastructure, enhanced infrastructure
11. Data Cubes
12. Technology



Role of Regional GEOs in advancing Open knowledge

AfriGEO

Through GEO, broker access to data eg. HR Images

Advocacy on benefits

Scalability of solutions

Awareness of data

Leverage data sharing mechanisms that exist through GEO

Guidance on data sharing standards and protocols

Catalyse policy influence and political buy-in

Create collaborations for data collections and updates

Leverage Citizen Science and the Youth

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