

The 7th AfriGEO Symposium

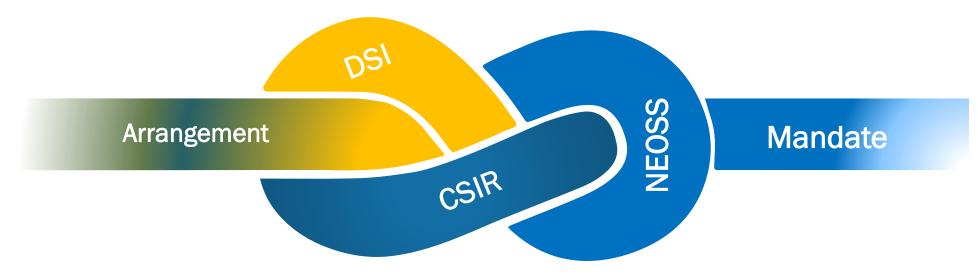
18th – 23rd September, 2023, Swakopmund, Namibia

SA-GEO , a National Coordination Mechanism

Adv Lulu Makapela
National Earth Observations
and Space Secretariat

Earth Observation for Africa's Prosperity

About NEOSS and SAGEO

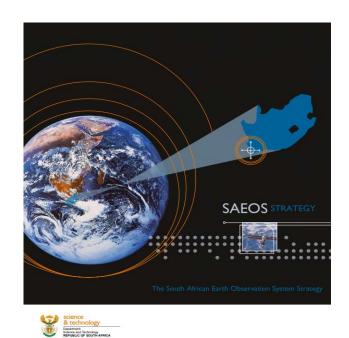


Established in 2009, by the DSI and hosted by the CSIR

A programme and Not a legal Entity

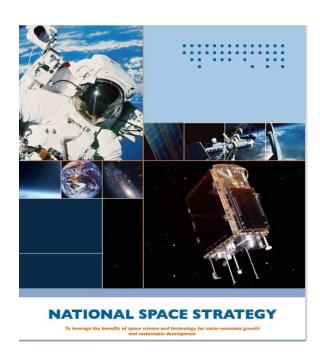
A national coordination and engagement framework for EO and Space activities in South Africa.

Policy Frameworks



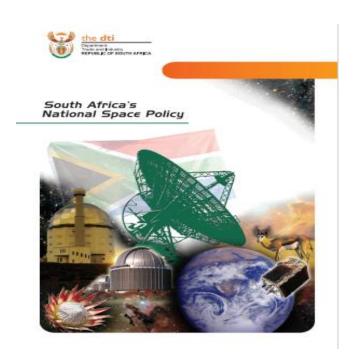
SA Earth Observation Strategy (2007):

"To coordinate the **collection, assimilation and dissemination** of earth observations to support policy, decision-making, economic growth and sustainable development.



National Space Science and Technology Strategy (2008):

"Use of S&T to provide essential data and services to support a wide range of applications, for decision making and socioeconomic **benefit**.



National Space Policy (2008): "Peaceful Use of outer space for the benefit of All"

International Frameworks



SAGEO a founding Member of GEO and AfriGEO



SAGEO Participation in GEO and AfriGEO structures, also lead Co-Chair



SAGEO participation in the GEO work programme



SAGEO Participation in the GEO Post 2025 Strategy

Mandate

- ☐ To serve as a national framework to
 - support the co-ordination of the DSI National GROUP ON EARTH-OBSERVATIONS
 Strategies (EO, Satellite Communications and Navigations)
 - provide the platform or networks for the EO Community to engage and collaborate
 - promote integrated use of Earth Observations
 - Promote data sharing
 - Contribute to or Identify user needs, gaps in data, meta data and products, and advocating for them to be addressed.
 - ☐ Support SA Contribution, involvement and benefit in GEO and GEOSS







Locally relevant, globally connected



SA main role players

- Data collection and supply, (SANSA, SAWS, ARC, NGI)
- Data analysis, integration & Value add, (Res Councils, Univ, private sector)
- Users (Beneficiaries and Decision makers-All tiers of Govt, Industry, NGO's, Society etc)
- Co-ordination structures (NEOSS / SA-GEO /GEO/AfriGEO etc.)

Coordination and Governance

GEO Principal/Funder

- GEO Lead Co-Chair 2023, Executive Committee
- GEO Africa Caucus Chair
- ☐ GEO Programme Board 2022-2024
- GEO Work Programme-2023-2025
- ☐ GEO Budget Committee
- ☐ GEO Ministerial Summit Committee

Secretariat/s

- □ NEOSS
 - SA-GEO-Earth Observations
 - SA-GSC- Satellite Communications and
 - ☐ SA-GSN –Satellite Navigations
 - AfriGEO Initiative

Committee/s

MANCO

Management oversight of the Implementation of the NEOSS Agreement

SACOM

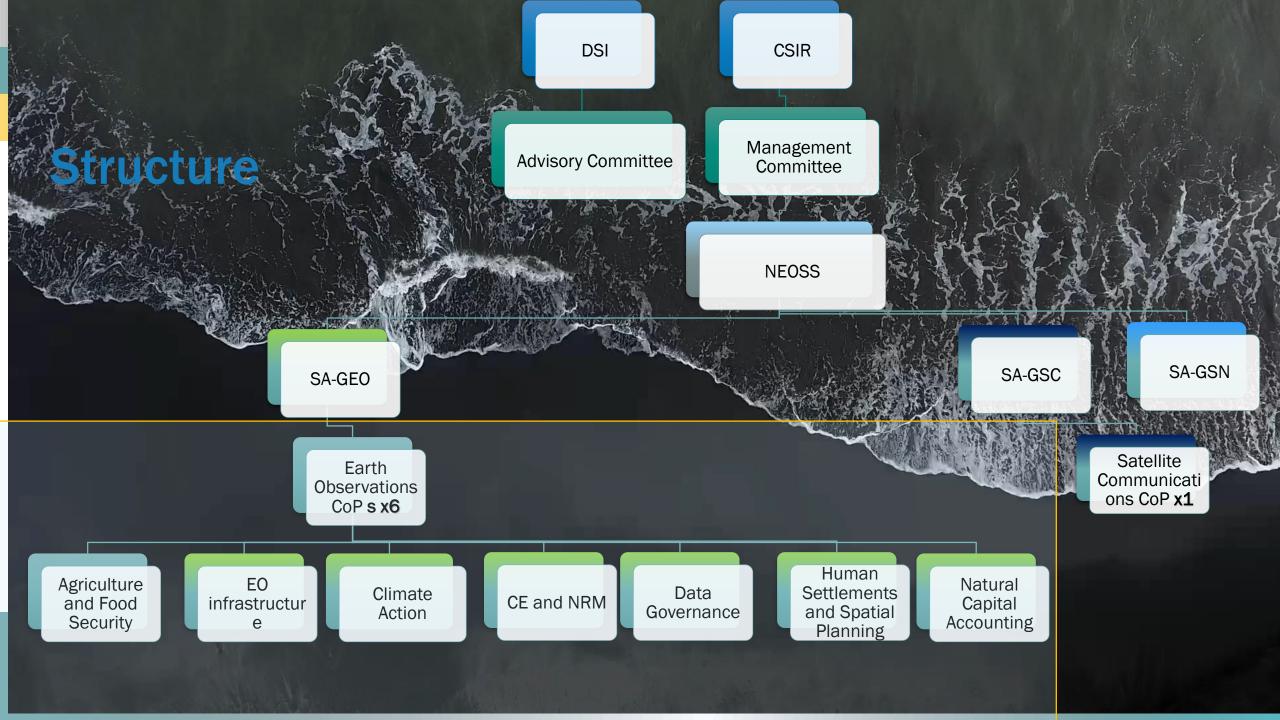
Oversees the development of strategies and policies that promote best practices for the communities

Communities of Practice (CoPs)/Stakeholders

- Agriculture and Food Security
- ☐ Circular Economy &Natural Resources Management
- ☐ Climate Action
- □ Data Governance
- ☐ Earth Observations Infrastructure
- ☐ Satellite Communications and Navigations
- Human Settlements and Spatial Planning
- Natural Capital Accounting
- Appointed Co Chairs

internal

External



Characteristics of a Community of Practice (CoP)

voluntary

self-organizing

many kinds of members

based on trust

sharing of best practices in reusable knowledge base

require more than just discussions -Deliverables.

"A group of people who share a concern or a passion for something they do and learn how to do it better as they interact regularly."

Communities of Practice



Agriculture and Food Security

sharing best practice to support decision making processes in Agriculture and identify current or propose new initiatives for uptake by the community.

Climate Action

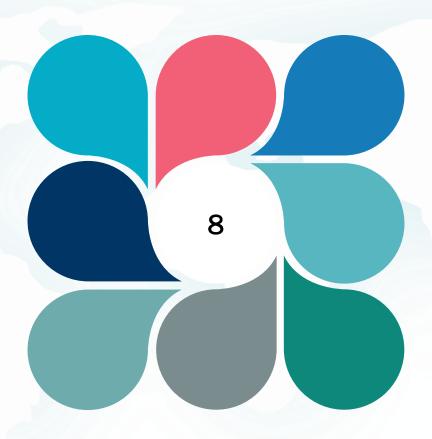
Sharing of ideas and information to encourage mainstreaming of adaptation into decision making frameworks

CE &NaturaL Resources Managementg

creating knowledge and understanding of circular economy models/research and use of Earth Observations and satellite data or technologies to support efficient management and monitoring of natural resources

Data Gavernance

promoting open data and developing general principles for facilitating and enhancing access to and the uptake of earth observation data and formation by a wide range of user communities,



EO Infrastructure

promoting the current efforts and activities leading towards the integration, harmonization, interoperability and dissemination of data, derived products and services and decision support systems activities, through utilization of relevant data infrastructures.

Satellite Communications and Navigations

To facilitate identification, discussion, and prioritization of a framework for addressing satellite communications requirements including independent access requirements for the benefit of South Africa

Human Settlements and Spacial Planning

Advocate the value of Earth observations, engage communities and deliver data and information in support of **Sustainable Urban Development**

Natural Capital Accounting

to obtain a better understanding of the state of the art of applying earth observation to the measurement of ecosystem accounting to monitor the extent and condition of their ecosystems





NEOSS Strategic Advisory Committee





NEOSS Strategic Advisory Committee (SACOM)













Elhadi Adam Earth Observation Infrastructure



Kershani Chetty Circular Economy and Natural Resources



Nditiza Didiza Agriculture and Food Security



Martin Jacobs Agriculture and Food Security



Athina Kenned Climate Change



Tshisikhawe Mphaphuli Egrin Observations Inflastructure



Jessie Ndaba Satellite Communications and Navigation



Patrick Ndlovu Satellite Communications and Navigation



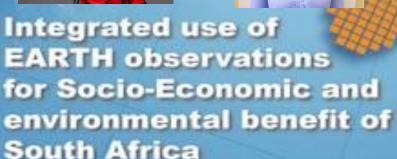
Phetole Sekhula Data Governance



Phila Sibandze Circular Economy and Natural Resources Management









Communities of Practise (CoP) Co- Chairs

Implementation activities

Coordination

EO community through development of action plans, support platforms (Information and Data) and COP structures to support response to national and continental priorities and challenges (i.e food security, access to water and sanitation, water resource management, disaster management, natural resource degradation, coastal and marine management, energy and resource management)

Collaboration

with key government departments at all levels and agencies, private industry, research and nongovernment organisations to participate in the COPs and make data available and support the development of initiatives to support and benefit the community.

Engagement

with the diverse community of EO users, to understand the landscape, user needs and the relevant available products and services.

Resource Mobilisation

through collaborative efforts, provide support for targeted priority innovative solutions and community-led initiatives, to respond to national and continental challenges

Highlight Achievements

- Establishment of CoPs in various SBAs and linking them to AfriGEO, GEO Work Programme
- Establishment of Platforms and Tools (Networks, data, Information and knowledge resources i.e., NEOSS integrated Information and networking Platform, social media, videos, CoP Meetings, NEOSS M&E System,)
- Collaboration with SANSA on the National Space Conference Event and National EO capability development through NEO Frontiers
- ☐ Developing CoP Strategy and workplan , with focused areas of engagements for the next 3 years
- ☐ Capacity building opportunities, sharing knowledge and expertise including youth, women and SME participation.

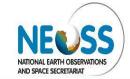


CoP Integrated Workshop, 30 May 2023









Earth observations to address social and environmental challenges

COMMUNITIES OF PRACTICE (COPINTEGRATED WORKSHOP

30 May 2023 | 08h30 - 18h00















HIGHLIGHTS

SPACE FOR INCLUSIVE

GROWTH

www.spaceconference.co.za



30 August to 01 September 2023



CSIR ICC, Tshwane, Pretoria, South Africa











Registrations (EDI)

NEOSS High Level MANCO Overview | CSIR NEOSS

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NEOSS High Level MANCO Overview



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



Engagement Participants

441



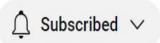




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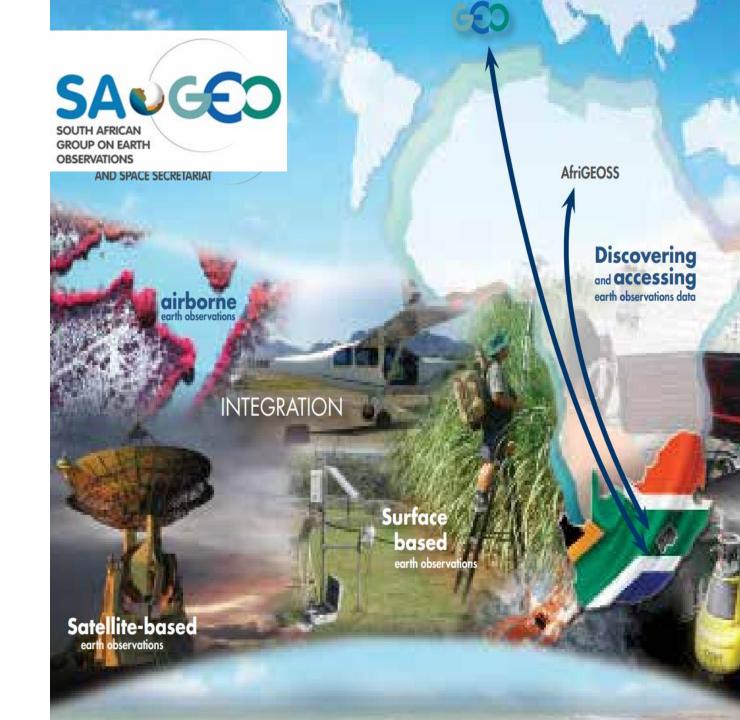
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What we aim to achieve

- Enhanced capacity to access, use and manage EO data and Information (organisational and individual level)
- EO data that is described properly, preserved properly, discoverable and accessible, automatically, through national platforms
- □ Reduced duplication of efforts among organisations, programmes, initiatives, and activities
- ☐ Diverse participation of women, youth and SMEs
- ☐ Progress towards Sustainable development goals



Data Infrastructure and access



NEOSS in numbers



PROVINCES-9



MEMBERS -219



ORGANISATIONS-14



PRIVATE SECTOR -19



GOVERNMENT
DEPARTMENTS - NATIONAL
AND PROVINCIAL -16

Programmes

Community Building Support Networks

• 8 x Communities of Practice

Community Integrated Support Platforms

• 2x Platforms , NB SAEOS with SANSA

IEOS Collaboration

- Capacity Building Support
- Collaborative Projects
- Community Initiatives

GEO and AfriGEO Involvement

 Participation in GEO Flagships, Initiatives and Working Groups

CoP work-plans

AND EDICE CECUTADIAT								
CoPs	Research and Surveys	Information Knowledge Resources	Guidelines /standards /policy	Capacity building /training /Advocacy	User requirements	Collaboration		
		(Tools/platforms	recommendations			СоР	Organisations	GEO/International
		/tech)						
Agriculture and Food	Identification of existing	Decision support tools in		Tools to support agriculture	Gap Analysis	CA, CE and NRM, DG and EO	SANSA, DFFE, ARC,	GEO Glam, JECAM,
Security	capability ,capacity	agriculture and Food		applications i.e training on		infrastructure	DALLRD, Research and	GEOBon, Crop-watch
	/initiatives	Security		Crop monitoring /GEO			academic institutions,	SDG's
Climate Action	Identification of existing	Decision support Tools	Guidelines on use of	GLAM Climate Action Advocacy		AFS, CE and NRM, DG, HS	private Sector	GEO Glam, IPCC,
Climate Action	capability ,capacity	for Climate Action	EO for Climate	Climate Action Advocacy		&SP and EO infrastructure	SAWS, NDMC, DEA, Research and academic	AIMIS
	/initiatives	mitigation and response	Change			&SP and EO infrastructure	institutions, private	AINIS
	midadves	militigation and response	Change				Sector	
Circular Economy and	Best Practices on CE	Decision support tools		Training on CE		AFS, CA, DG and EO	DFFE, DALLRD, SANBI,	GEOBON
NRM	approaches	for Natural Resources		Training on SE		infrastructure, SC&N	CGS, CSIR, NDMC,	SESSON I
	арр. сасс	Management				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Research and academic	SDG's
							institutions, private	
							Sector	
Data Governance	Best Practices on data		Open data policy	Training on open data i.e		AFS, CA, CE and NRM,	CSI and all data	GEO data WG, CEOSS
	sharing		recommendations	GEO open data workshop		HS&SP and EO infrastructure	custodians	data WG
EO Infrastructure	Identification of available	Decision Support		Training on EO		AFS, CA, CE and NRM,	CSI and all data	GEOSS, ESA, DEA
	infrastructure	System /Contribution to		infrastructure i.e GEO		HS&SP DG and SC&N	infrastructure owners	
		SAEOS /SANSA		Knowledge Hub			(SDI, SANSA, SABS	
							etc.) Research and	
							academic institutions,	
							private Sector	
Satellite		Precision navigation	Satellite	Training on Comms and		AFS,CE&NRM,DG	Dtps, ICASA, DSI,	ITU
Communications and			Communications	Nav i.e DUT CNS			Research and academic	
Navigations			policy	Workshop			institutions, private	
			recommendations				Sector	
Human Settlements		Decision support tools				AFS, CA, CE and NRM, DG,	SANSA, municipalities	GEO
and Spatial Planning		for spatial planning				HS &SP and EO infrastructure	Research and academic	
							institutions, private	
							Sector	
Natural Capital	NCA Practices		NCA Guidelines	Training on NCA		AFS, CA, CE and NRM, DG,	Research and academic	GEO

Events



30 May 2023 : CoP Integrated Workshop (in person)

13 - 14 Jun 2023: GEO Symposium in Geneva

15-16 June 2023: Open Data & Open Knowledge workshop in Geneva

30 August- 01 September 2022: National Space Conference at CSIR ICC Pretoria (Collaboration)

18-22 September 2023 : AfriGEO Symposium

27 OctOber, 2023: EO Stakeholder Engagement Workshop (Collaboration with SANSA)

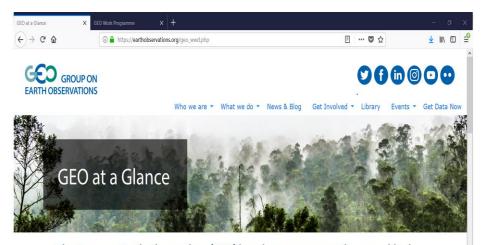
06-10 November 2023: GEO Week, Plenary and Ministerial in Cape Town: December 2023, side event at the Science Forum

February 2024 , CoP Training sessions CoP engagement sessions, as and when required





GEO, AfriGEO, SAGEO



The Group on Earth Observations (GEO) is an intergovernmental partnership that improves the availability, access and use of Earth observations for a sustainable planet.

GEO promotes open, coordinated and sustained data sharing and infrastructure for better research, policy making, decisions and action across many disciplines. The GEO community focuses on three global priority engagement areas: the United Nations 2030 Agenda for Sustainable Development, the Paris Agreement,





https://earthobservations.org/documents/gwp 20_22/gwp2020_summary_document.pdf

https://www.earthobservations.org/afrigeo.php







Thank you Questions?





























