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Science, Technology and Innovation
REPUBLIC OF SOUTH AFRICA



NEOSS COMMUNITIES OF PRACTICE (CoP)
WORKSHOP

Building Momentum, Driving National Uptake in EO and Space

23 JUNE 2025

CSIR International Convention Centre, Pretoria, South Africa

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Building Momentum, Driving National Uptake in EO and Space

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SA-GEO Knowledge Hub Platform



**INTEGRATED
WORKSHOP**



Launch of the Earth Observations Infrastructure CoPs (2022)

The Earth Observations Infrastructure Community of Practice was launched to lead national coherence on EO systems and standards.

- Promotes integration, harmonisation, interoperability, and dissemination of EO data and tools.
- Supports SAEOS, NSST, SDGs, etc
- Addresses fragmentation in national EO infrastructure.

This CoP exists to bring alignment and **community-driven coherence** to our EO ecosystem.



EO Infrastructure CoP Objectives

Our CoP objectives were clear from the outset : align efforts, increase accessibility, and support real-world impact.

- Promote data integration and harmonisation across institutions.
- Build interoperable platforms and improve discoverability of EO data.
- Facilitate alignment with international best practices and standards.
- Enable operational use of EO through shared infrastructure.

Each of these objectives directly shaped the design and purpose of the Knowledge Hub.

Defining the Problem – Fragmentation

Before solutions come problems — and fragmentation has long been one of our biggest challenges.

- EO systems in South Africa remain siloed and disconnected.
- Multiple institutions host independent platforms.
- No common framework for discovery, metadata standards, or reuse.
- Fragmentation led to inefficiencies, missed opportunities, and duplication of investment.

The SA-GEO Knowledge Hub aims to be the unifying solution that addresses this fragmentation head-on.

The SA-GEO Knowledge Hub

that challenge in mind, the SA-GEO Knowledge Hub was born.

- It's a digital platform that enables discovery, access, and contribution of EO resources.
- Built to support Knowledge Packages – structured sets of data, methods, and applications.
- Serves as a dynamic tool for learning, collaboration, and co-development.

This Hub is not just a website – it's a space for shared insight, purpose, and progress.

South Africa as a Pioneer

South Africa is not just participating in the global EO movement — we're leading in innovative implementation.

- SA is one of the first to develop a GEO-aligned national Knowledge Hub.
- Our platform links to **GEO GLAM**, **Digital Earth Africa**, and other global EO infrastructures.
- It bridges local needs with international platforms, making global tools more usable for local applications.

This positions us as pioneers — creating a national model others in Africa and globally can learn from.

Why the Knowledge Hub Matters

But why does this platform matter for you — and for the broader EO community?

- It enables centralised access to trustworthy EO resources.
- Link to local Priorities i.e agriculture, water, climate, and planning.
- Reduces duplication and enhances national resilience through shared access.
- Contributes to global efforts like SDG monitoring, GEO frameworks, and disaster risk reduction.
- Its fully open
- Its Has a **Market Place** for providers to provide solutions that might be valuable for the Country (SMEs, etc)

The Hub is critical infrastructure for informed decision-making, collaboration, and innovation.

Co-Ownership and Sustainability

To thrive, the platform needs more than users — it needs co-owners.

- This is not a top-down repository, but a shared community asset.
- You shape it by contributing, reviewing, and evolving its content.
- Co-ownership is essential to ensure the Hub remains relevant, representative, and sustainable.
- The SA-GEO Knowledge Hub will only succeed if we build and maintain it together.

How You Can Get Involved

Every part of the community has something to offer.

We are inviting:

- **Government departments** to contribute official data and tools.
- **Researchers and academia** to share methods, scripts, models.
- **Private sector** to showcase use cases and services.
- **NGOs and civil society** to add real-world applications.
- **Youth and innovators** to bring fresh thinking and build simple guides.

The more diverse the contributors, the richer the knowledge ecosystem we create.

Types of Contributions & Final Call

There are many ways to contribute — and each one makes a difference.

- Upload Knowledge Packages (data, workflows, apps).
- Share case studies, use cases, publications or lessons learned.
- Provide scripts, open-source tools, and AI models.
- Offer training resources or co-create guidance material.
- Develop region- or sector-specific solutions.

Let's take collective responsibility for making South Africa's EO infrastructure stronger. Together, we co-create, contribute, and elevate what's possible.



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Thank You



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