

Setting the Scene

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Long History of Geodesy in South Africa

- South Africa has a proud history of geodetic activities dating back over a few centuries.
- Early terrestrial triangulation networks laid the foundation for surveying, mapping, and national development.

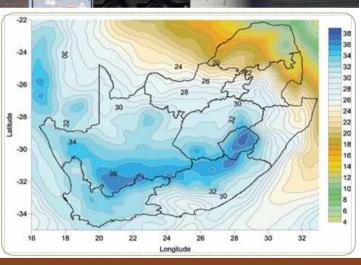


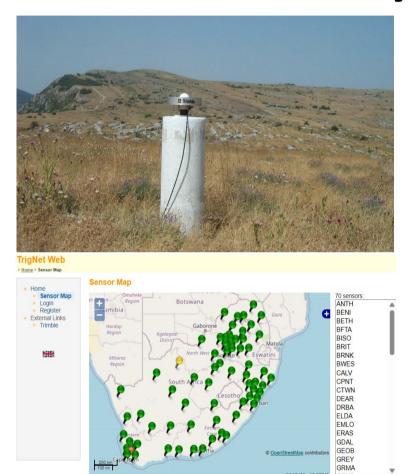


Fast Forward- SA and Global Geodesy







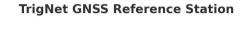


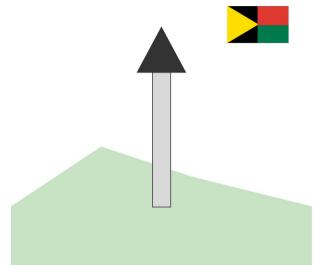


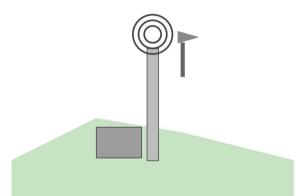


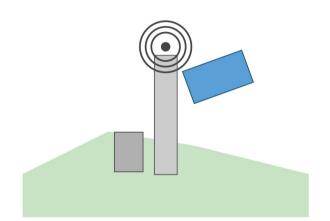
Terrestrial & Space Geodesy: South African Context

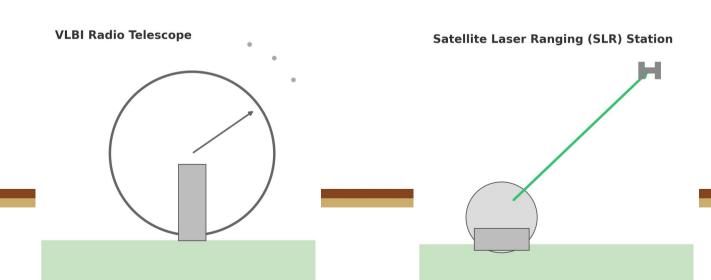
















Importance of Geodesy

- In 2015, the United Nations General Assembly adopted Resolution A/RES/69/266 on the Global Geodetic Reference Frame (GGRF) for Sustainable Development, which set the global agenda.
- The resolution recognizes geodesy as a global public good and calls for improved international cooperation, coordination, capacity building, and sustainability of geodetic infrastructure.
- South Africa, as a UN member state, has a responsibility to align its national efforts with this global agenda.

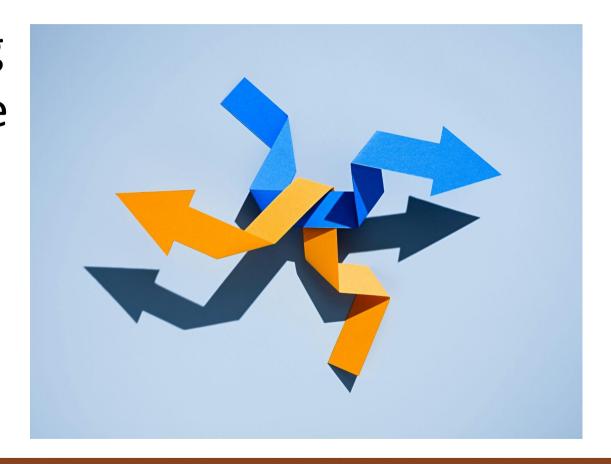
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Geodesy is currently uncoordinated

 Despite South Africa's long geodetic history and active participation in global initiatives, national efforts on geodesy remain fragmented.







Purpose of Workshop

Strengthen national coordination of geodetic infrastructure, data, skills, and services.



- Raise awareness of the UN-GGRF resolution and align South Africa's strategies with global best practice.
- Identify national priorities and gaps in geodetic capacity, governance, and investment.
- Establish a National Working Group on Geodesy as a formal mechanism for coordination and collaboration.
- The South African Geodesy Working Group (SAGWG)





Importance of the SAGWG

- Strengthens South Africa's leadership in continental and
 - global geodesy
- Ensures sustainable geodetic infrastructure
- Supports land administration, climate monitoring, and disaster management, earth observation, location-based services, etc.
- Integrates terrestrial surveying with satellite geodesy
- Enhances South Africa's voice in UN-GGIM and Subcommittee on Geodesy
- Provides national coordination, capacity building, and innovation





Towards a National Strategy for Geodesy in South Africa, through a development plan













