







Policy Instruments



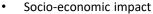
New White paper on Science Technology and Innovation 2019 & Decadal Plan

• The white paper on Science and Technology and Innovation (March, 2019) emphasises the "core themes of inclusivity, transformation, and partnerships" and "to foster an NSI wherein creativity, learning and entrepreneurship can flourish."



sustainable development.





- New innovations and technologies
- Value chain approach
- · Targeting the marginalized
- Partnering or "working together"
- DeSTs, Products and Services
- Training (Space Engineers, Software Developers, RS specialists etc)
- Start-ups



2000

STI Decadal Plan overview

- Aligns with National Development Plan (NDP) 2030
- Aims for inclusive, coherent, and coordinated National System of Innovation (NSI)
- Five system goals:
 - Inclusive NSI
 - 2. Expanded research system
 - 3. Increased human capabilities
 - 4. Enabling innovation environment
 - 5. Increased funding for STI



Space and Earth Observation in the Decadal Plan

- Vital role of Space and Earth Observation in STI priorities:
 - Monitoring environmental sustainability
 - Advance manufacturing
 - Climate change assessment and mitigation
 - Supporting education and skills development
 - Enhancing research and innovation through data insights
- Contributes to achieving STI system goals:
 - Environmental sustainability (Goal 3)
 - Expanded and transformed research system (Goal 2)
 - Enabling innovation environment (Goal 4)





SST Strategic purpose







SACSA versus SANSA

Policy and Regulation

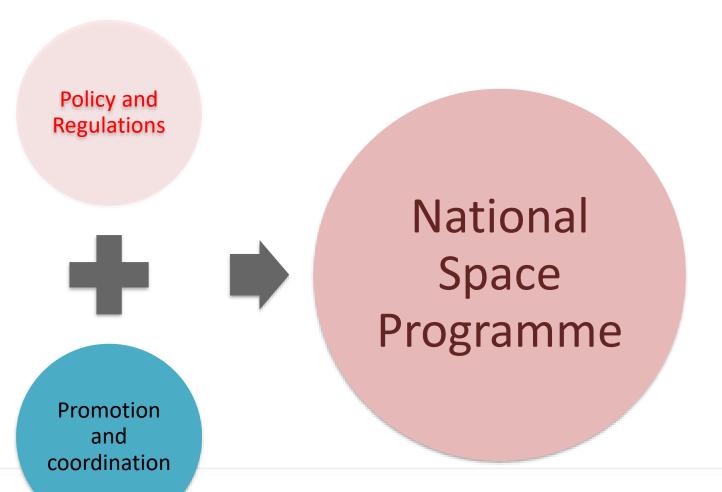
South African Council for Space Affairs

> National Space Policy





Linking Policy and Strategy







Snapshot of the South African Space Industry 2017/18

Development Factors



8 Universities Space related degrees Space projects



96 Graduates DTech, MTech, MSc. PhD



R1.21 billion DST, the dti. DTPS



R315 million Income # 183 Employees



R308 million Turnover

R114 million Export revenue



181 Employees

> 26 Companies



Upstream Segment



GAUTENG



3 Facilities





16 SMMEs

8 Facilities

Downstream Segment



Telecommunications





Earth Observation^

R204 billion Turnover



R1.598 billion Turnover



R34 million Turnover



51 993 Employees

1 142 Employees

26 Employees

End Users





R2.3 billion OCIMS potential savings



R80.2 million p.a Sumbandila Sat savings





R35 million p.a Investment



R33-44 million p.a Investment



R63 million p.a Investment





2016 2017



^{*} Only ATNS data available.

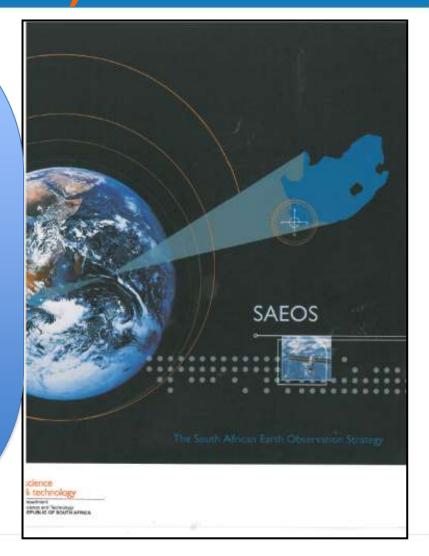
A Only remote sensing companies responded to survey.

[#] Contract revenue, parliamentary grant, research grants, ring-fenced transfers and interest & other income



South African Earth Observation Strategy (SAEOS)

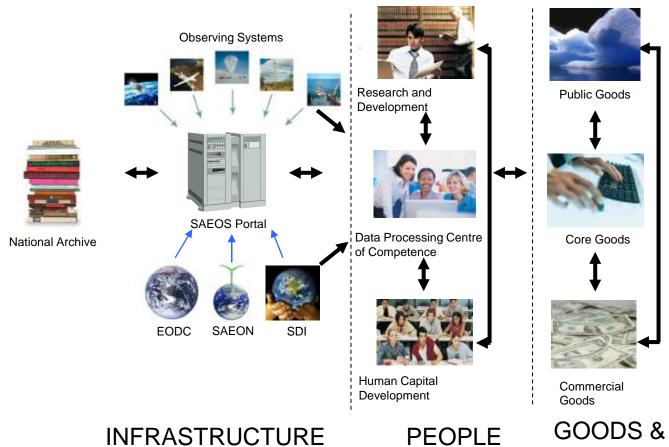
- Co-ordinate the collection, assimilation, storage and dissemination of EO data
- Used for Policy, Decisionmaking, Economic growth and Sustainable Development.
- Development of DeSTs,
 Products and services
- SA-GEO & NEOSS are part of implementation







SPACE APPLICATIONS VALUE CHAIN



GOODS & SERVICES





National Instruments



SANSA



SANSA was officially launched on 09 December 2010



Vision: An integrated National Space Capability that responds to socio-economic challenges in Africa by 2030

Mission: To provide leadership in unlocking the potential of Space for the advancement and benefit of humanity.



National Earth Observation and Space Secretariat

- NEOSS Provides secretariat services for SA-GEO and its CoPs, and provides the conduit between the SA-GEO community, the DSI and GEO/GEOSS.
- Continue to Support the industry through projects,
 CoPs engagements
- Strengthen SA GSC and SA GSN
- National Space Conference

Communities of Practice

















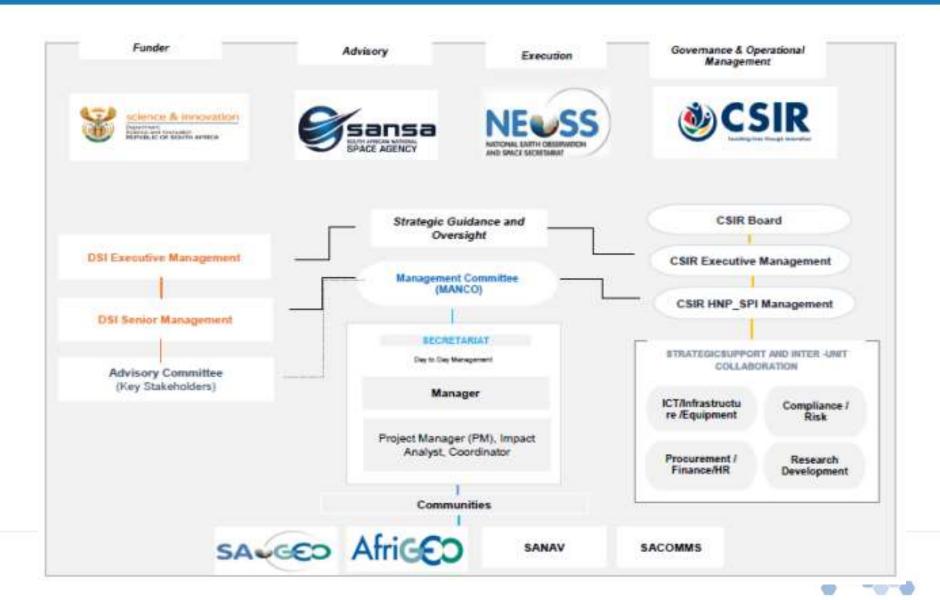








NEOSS Programme overview



The South African Group on Earth Observations

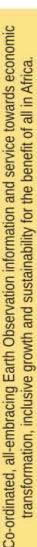
❖ WHAT IS SA-GEO?

SA-GEO is an initiative of the South African community in GEO aimed at providing a coordination framework and platform for South Africa's participation in the AfriGEO and GEO. In addition, it is:



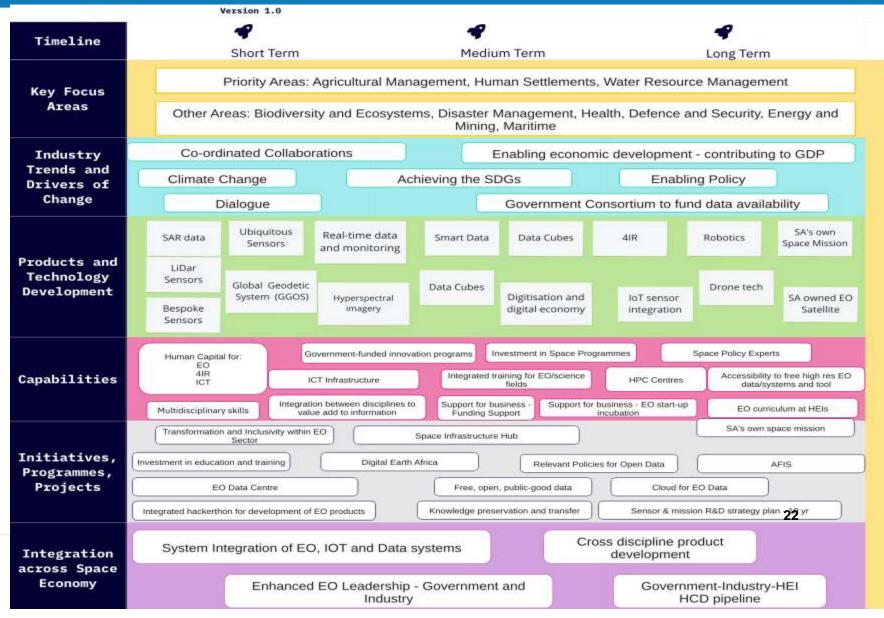
- A support mechanism for the implementing of the GEO objectives and programmes in South Africa through the mandate of the SAEOS.
- SAEOS responds to the implementation of GEOSS
- Managed by NEOSS
- Framework for strengthening partnerships and collaborations within south Africa







National Space Programme Phase 2 Roadmap





Dankie

Enkosi

Ha khensa

Re a leboga

Ro livhuwa

Siyabonga

Siyathokoza

Thank you

