



Presentation to the Portfolio Committee on Higher Education Science and Technology

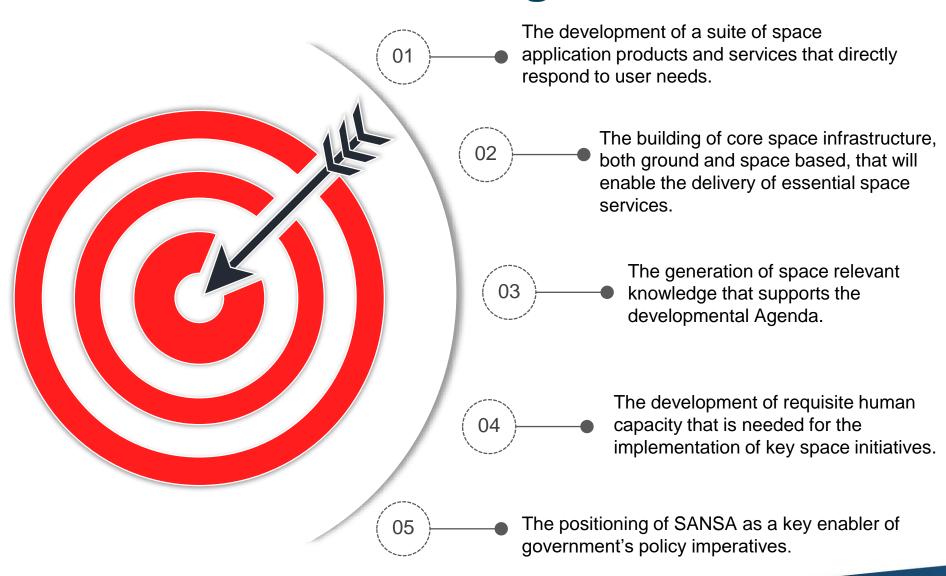
By SANSA Board and Management

**12 November 2021** 

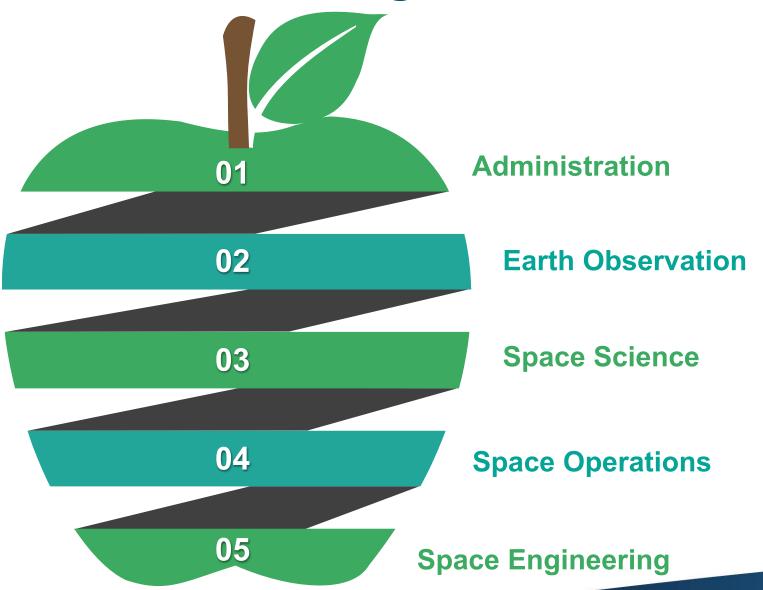
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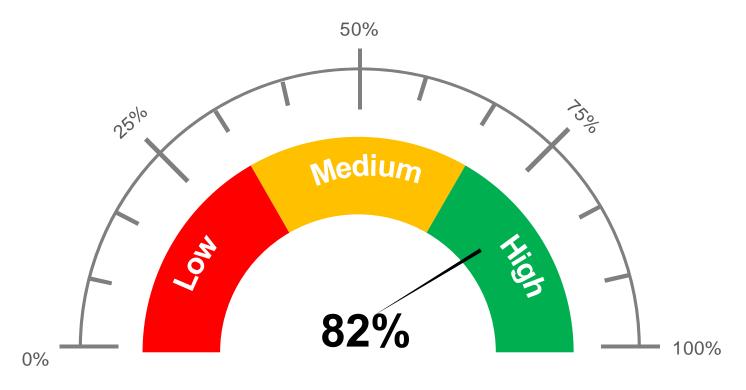
# **SANSA Strategic Goals**



# **SANSA Programmes**



## 2020/21 Performance Overview



- Planned 2020/21 targets for the year: 17
  - Annual targets achieved: 14
  - Annual targets not achieved:3

#### 2020/21 Performance Overview ...continued

Achieved 60 of the targeted 50 Achieved 7 of the targeted 6 Achieved 1904.44 of the targeted 1300

Achieved 99.35% of the targeted 98%

M1.2.1 Number of students and interns supported for formalised training

M2.1.1 Number of products and applications

M2.2.1 The national research productivity score for space supported R&D

M3.1.1 Successful satellite pass monitoring rate for Earth Observation

Achieved R75.65 million of the targeted R68 million

**Achieved 51%** of the targeted 20%

Achieved R13.68 million of the targeted R10 million

M3.1.2 Total income generated from space operations activities

M3.2.1 The total contract expenditure to SMEs for core space projects

M3.2.2 The total contract expenditure to the broad space related industry for space projects

#### 2020/21 Performance Overview ...continued

Achieved 42.8% of the targeted 20% progress

Achieved 13 of the targeted 9

Achieved 15 of the targeted 9

Achieved 20 of the targeted 12

M4.2.1 A new operational space weather centre, as per Business Case

M5.1.1 Number of active formal overseas partnerships

M5.1.2 Number of active formal African partnerships

M5.1.3 Number of active formal national partnerships

Targeted 30% achieved

Achieved:
9 of the targeted 7

Targeted 4 initiatives achieved

M5.2.1 Percentage of government departments and public entities that use space products and services

M5.2.2 Number of awareness and training interventions to key users of space products and services

M5.2.3 Number of initiatives to transform SANSA into a high performing Agency

#### 2020/21 Performance Overview ...continued



M1.1.1 Number of youths directly engaged



Target impacted by the delayed re-opening of schools and reductions in available learner contact time



M4.2.2 Development of Digital Earth South Africa



Target was not met due to delays related to data license and software contracts and ARD processing



M4.2.3 An upgraded AIT Facility



No progress made due to unresolved Houwteq facility ownership challenges

## **Key 2020/21 Highlights**



The Agency celebrated a decade of significant space successes towards promoting the development of the space industry



SANSA was afforded an opportunity to host a virtual edition of the 16th International Space Operations conference (Spaceops2020)



SANSA will host a Program Management Office for Digital Earth Africa - which will include a digital data cube platform to provide essential space products and services to the African continent



During 2020/21 SANSA researchers produced 44 peer reviewed publications in high impact journals

### **Key 2020/21 Highlights**



SANSA supported 45 postgraduate students in key space science disciplines (76% Africans and 47% females)



Dr Blade Nzimande, turned the soil for the new 24/7 Regional Space Weather Centre at a groundbreaking ceremony on 9 March 2021



SANSA finalised the appointment of Dr Martin Snow, the SARChi Research Chair in Space Weather

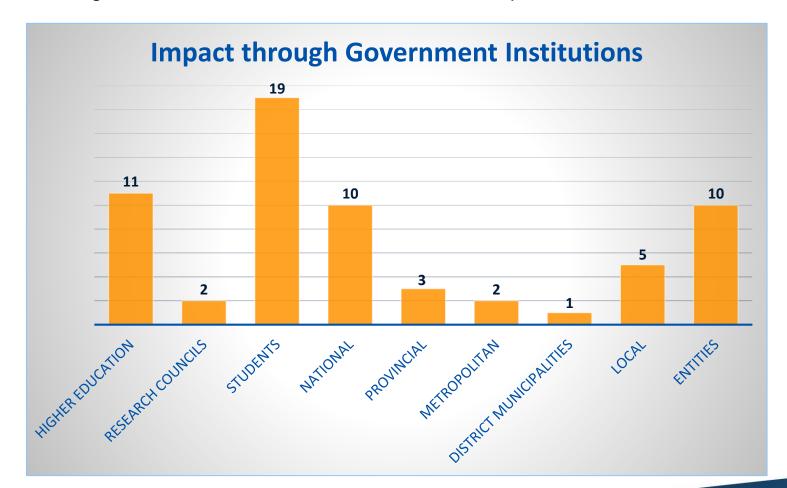




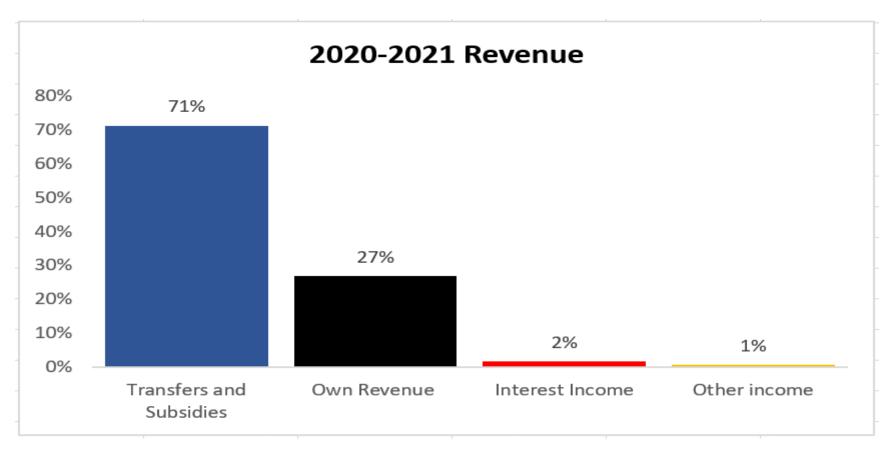
Kept active key partnerships locally, in Africa and internationally, and strengthening of the BRICS relationship

#### **Earth Observation Data Centre**

Several beneficiaries were serviced through the Earth Observation Data Centre (EODC) capabilities to enable research and development and towards a capable state. This was done through the use and distribution of satellite data and products as summarised below:



#### **Financial Overview**



Total Revenue: R282.5m

**Revenue from Non-Exchange Transactions:** 

• Transfers and Subsidies Received: R200.7m

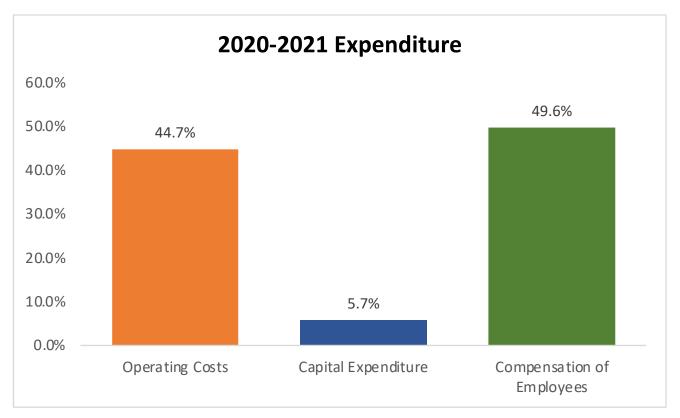
#### **Revenue from Exchange Transactions:**

• Interest Income : R4.4m

• ■ Own Revenue: R75.6m

• Other Income: R1.7m

### Financial Overview....continued



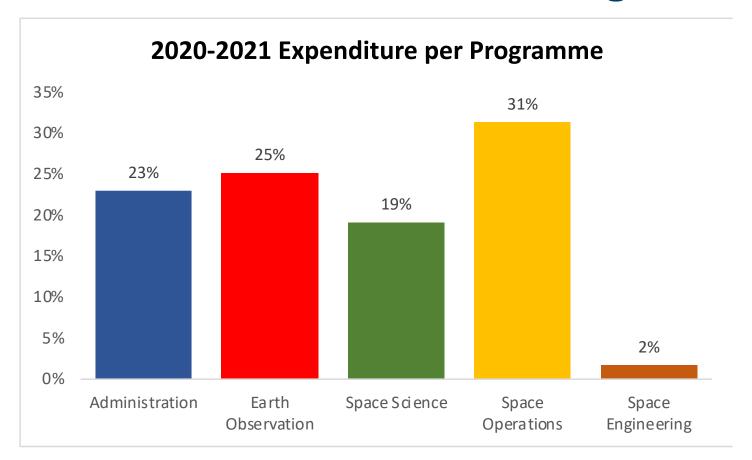
**Total Expenditure:** R263.1m **Operating Costs:** R117.5m

Capital Expenditure: R15.1m

Compensation of Employees: R130.5m

During the midterm budget adjustment an additional R123,8 million was brought forward from surplus commitments. Capital expenditure was, however, negatively affected by restrictions and backlogs related to the COVID-19 pandemic.

# Financial Performance Per Programme



Total Expenditure: R263.1m

Programme 1 Administration Expenditure: R60.3m (23%)

Programme 2 Earth Observation Expenditure: R66.1m (25%)

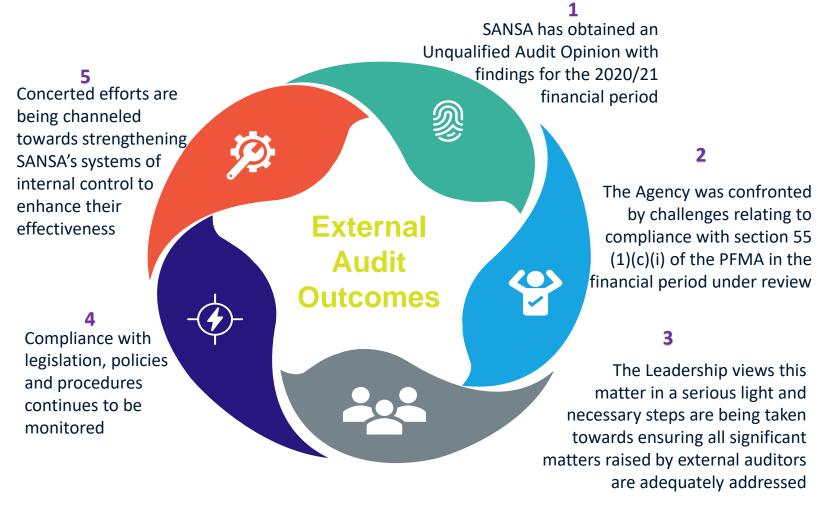
**Programme 3 Space Science** Expenditure: R50.2m (19%)

**Programme 4 Space Operations** Expenditure: R82.1m (31%)

Programme 5 Space Engineering Expenditure: R4.25m (2%)

Key contributor to the 2020/21 expenditure patterns: unspent ring-fenced grants. Spending to accelerate in 2021/22.

# **External Audit Outcome**



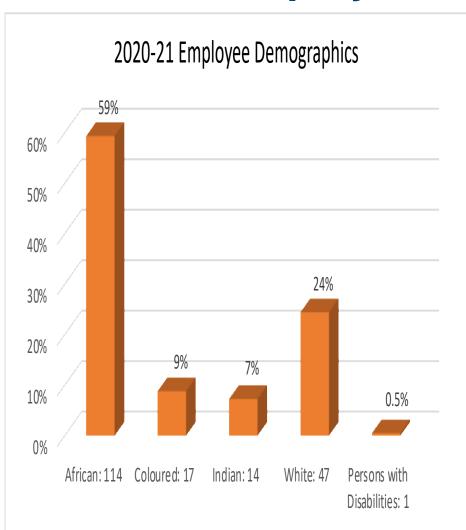
The Agency is well-aware of the issues that impacted on the 2020/21 external audit opinion, and these are being tackled head-on to ensure an improved audit outcome for the 2021/22 FY!!!

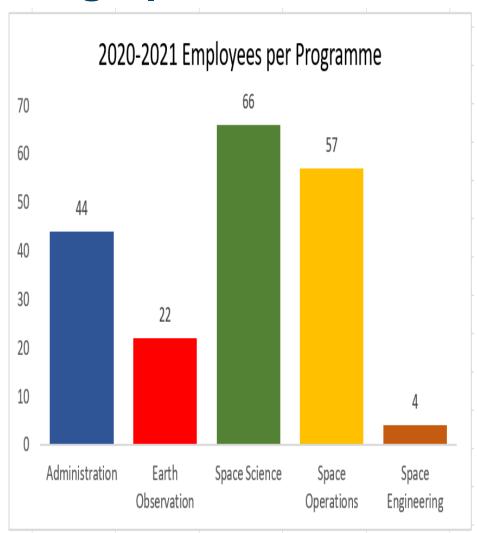
# **Employment by Programme**

Programme	2019/ 20 No. of Employees	2020/21 Approved Posts	2020/21 No. of Employees	2020/21 Vacancies	% of vacancies
Programme 1: Administration	36	52	43	14	27%
Programme 2: Earth Observation	22	46	22	24	52%
Programme 3: Space Science	58	78	66	12	15%
Programme 4: Space Operations	58	58	57	1	2%
Programme 3: Space Engineering	5	41	5	36	88%
Total	179	275	193	87	32%

Growth in the number of approved posts is mainly attributable to structural changes in preparation for the SIH and related projects. There were 30 appointments made during the financial year while the Agency had 17 terminations from different occupational levels (including retirement, resignation, and end of contracts).

# **Employee Demographics**

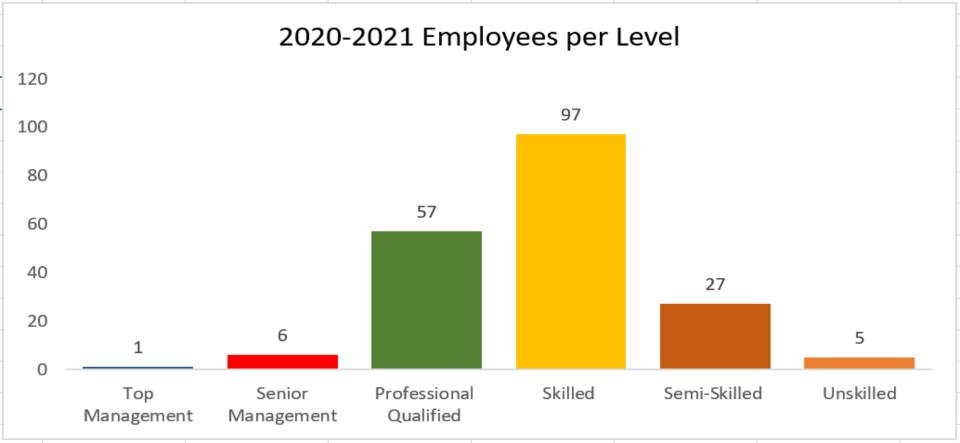




Total Employees: 193 100% Males: 109 **56.5%** 

Females: 84 43.5% 17

# **Employee Demographics...continued**



		'			
Level	Male	Percentage vs Total	Female	Percentage vs Total	Total
Top Management	1	100%	-	-	1
Senior Management	3	50%	3	50%	6
Professional Qualified	35	61%	22	39%	57
Skilled	54	56%	43	44%	97
Semi-Skilled	13	48%	14	52%	27
Unskilled	2	40%	3	60%	5

#### **Transformation Initiatives**

- SANSA is currently finalising a Skills Development Strategy and is seeking to engage with DHET
- SANSA is also working on an Industry Development Framework and an African Engagement Strategy
- SANSA will be constructing a new student accommodation wing to accommodate and supervise more students on site
- Our Research Chair and experts will be directly involved in the supervision of postgraduate students, in partnership with UWC
- SANSA has an EE Plan and a BBBEE Strategy to inform its transformation initiatives
- SANSA is actively involved in the DSI STI Transformation Committee
- We are partnering with the UK National Space Centre to implement school outreach programs
- We would like to pilot broadband access to a few schools

#### **Key Challenges**

- The Space Infrastructure Hub was declared as SIP 22 project during the 2020/21 financial year thus confirming its recognition as a national priority, and we are currently concluding on the Bankable Feasibility Study. However, our ability to borrow is still a requirement and will require approval from the Minister of Finance.
- EO-Sat1 completion is still unresolved and the non-cooperation by Denel is proving a challenge.
- Support to the broader space industry is constrained by the limited resource pool and underfunding remains a concern for SANSA when considered against the Agency's mandate.
- AIT facility upgrades were delayed due to unresolved Houwteq ownership issue (core space project spending affected in 2020/21 FY). This is also becoming a cause for concern given developments around the facility.

#### The Road Ahead

Business Model implementation and related structural realignment (change management initiatives have commenced to ensure readiness by Team SANSA)

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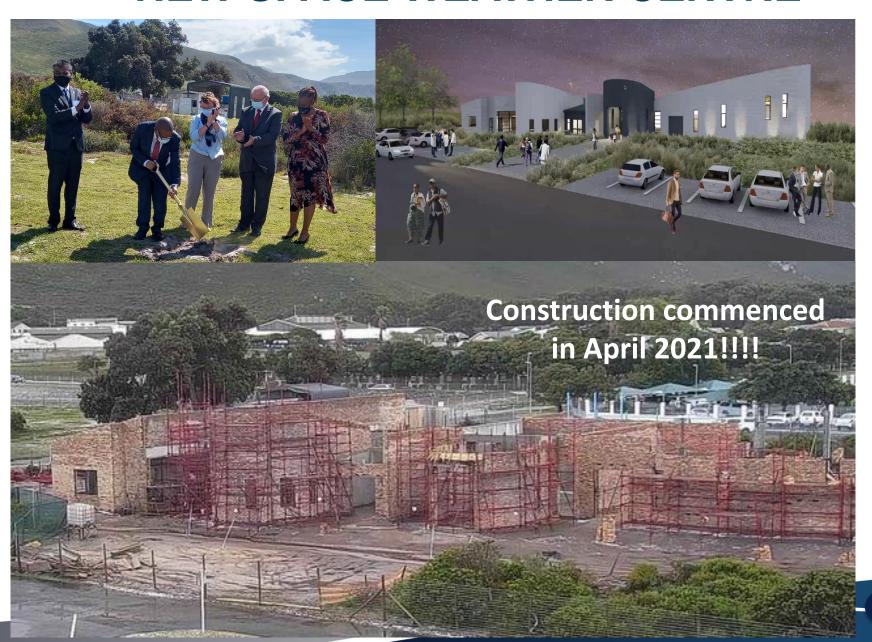
Strategic positioning of SANSA's programmes and increased Africa-centred focus in accordance with the Agency's vision for the 2020/25 strategic term

to be completed in the 2021/22 FY: an external panel of experts will determine the relevance, efficiency and effectiveness of SANSA in relation to its mandate / national policy / strategic context.

Continuation of construction project: 24/7 Regional Space Weather Centre in Hermanus

Continued focus on capacity building and R&D initiatives aimed a developing the national space industry

### **NEW SPACE WEATHER CENTRE**



### Thank You!!!



