





### Presentation outline

Vision and mission **Outcome goals** Key achievements per outcome goal Performance highlights **Overall performance** Overview of performance per Programme Financial performance Conclusion

### Vision and mission

#### Vision

Increased well-being and prosperity through science, technology and innovation

#### Mission

To provide leadership, an enabling environment and resources for science, technology and innovation in support of South Africa's development

### Outcome goals

- □ A transformed, inclusive, responsive, coordinated and efficient national system of innovation (NSI).
- Human capabilities and skills for the economy and for development.
- Increased knowledge generation and innovation outputs.
- Knowledge utilisation for economic development.
- ☐ Knowledge utilisation for inclusive development.
- Innovation in support of a capable and developmental state.



## Human resources and skills for economic development (1)

The National Development Plan sees human capital development as central in addressing South Africa's unemployment, poverty and inequality challenges.

Postgraduate bursaries and internships awarded through the National Research Foundation and other agencies (cumulative):

|                                     | Total<br>Beneficiaries | Black | Women | Black<br>Women | People with Disabilities | South<br>Africans |
|-------------------------------------|------------------------|-------|-------|----------------|--------------------------|-------------------|
| BTech/Honours and master's students | 4 754                  | 4 264 | 2 947 | 2 718          | 64                       | 4 670             |
| Doctoral students                   | 2 359                  | 1 759 | 1 224 | 1 007          | 41                       | 2 091             |
| Total no of students funded         | 7 113                  | 6 023 | 4 171 | 3 725          | 105                      | 6 761             |
| Interns                             | 1 057                  | 1 044 | 669   | 656            | 18                       | 1 057             |

**Current transformation interventions:** A DSI task team has been established to co-create a robust, evidence-based transformation agenda for the next 10 years, and to identify reforms and actions to be implemented by the DSI and its entities over the 2020-2025 cycle to enhance transformation outcomes.

## Human resources and skills for economic development (2)

Agriculture Bioeconomy Innovation Partnership Programme (ABIPP)
Funding the Pipeline of Skills for Agricultural Productivity and Transformation

- □ In 2022-23 FY, ABIPP supported:
  - 18 black Masters and PhD students (16 in the grains sector, 2 in the Cassava project).
  - 1 black Honours student (grains sector).
- □ In addition to supporting students, ABIPP also contributed to job creation within the agricultural sector.
  - Total of 16 jobs (14 black, 2 white) as interns, technicians, and post-doctoral fellows.

# Increased knowledge generation and innovation outputs (1)

#### **MeerKAT Telescope Team**

- Honored with the Royal Astronomical Society Award for spectacular observations and technological contributions.
- 180 papers published using the MeerKAT telescope.
- Government Technical Advisory Centre (GTAC) review study on institutional astronomy landscape approved.
  - Recommendations: Better coordination, transformation, socio-economic impacts, and commercialization.
  - Review and update National Multiwavelength Astronomy Strategy (NMAS).
  - Focus on short-term improvements and enhance coordination.
  - Stabilize SARAO before considering a merger.
  - Establish a Multi-wavelength Astronomy Coordination Structure.

# Increased knowledge generation and innovation outputs (2)

#### SA QuTI - South African Quantum Technology Initiative

- Funded by DSI, focusing on quantum sensing, quantum communications, and quantum computing.
  - Established quantum nodes at five South African universities.
  - 51 students and post-docs supported by 12 staff members.
  - Published 62 papers in 2022/23, including high-profile journals like Nature and Science.

#### SAPRIN - South African Population Research Infrastructure Network:

- Adolescent reproductive health: Examining the impact of Covid-19 lockdown on reproductive health rights in rural populations
- Covid-19 related mortality: Studying mortality rates and excess mortality due to the pandemic
- Multimorbidity: Collaborating on the MADIVA project to understand multimorbidity in low-resource settings

## Knowledge utilization for economic development (1)

### Astro-tourism Strategy and Implementation Plan:

- Joint project with the Department of Tourism.
  - Aim: Position South Africa as a world-class Astro-tourism destination.
  - Human Capacity Development and Transformation, Infrastructure
     Development, Inclusive Tourism Growth and Partnerships.
  - Preserve dark skies and radio silence for Astro-tourism.
  - Enhance visitor experience and sustainable benefit-sharing opportunities.

## Knowledge utilisation for economic development (2)

Agriculture Bioeconomy Innovation Partnership Programme (ABIPP) Enhancing Wheat Production and Stimulating Technological Innovation.

- The wheat sector in South Africa currently produces only approximately half of the wheat consumed.
- ☐ Wheat Breeding Platform, a flagship of ABIPP, aims to increase local wheat production and reduce wheat imports.

#### Objectives:

- Provide industry access to improved genetics and higher-yielding, locally adapted wheat germplasm.
- Support ongoing breeding efforts by collaborating programs: Syngenta,
   Corteva, and Agricultural Research Council (ARC)-Small Grains.
- 220 genotypes identified for distribution, enhancing the breeding pipeline.
- 4 new wheat varieties registered, 2 PBRs submitted under the Plant Breeder's Rights Act.

# Knowledge utilisation for economic development (3)

Agriculture Bioeconomy Innovation Partnership Programme (ABIPP) Enhancing Wheat Production and Stimulating Technological Innovation.

Technology Demonstration: Cotton Balers for smallholder farmers in Limpopo and Mpumalanga in partnership with CottonSA. Access to the baling equipment assists these farmers to save on input costs in harvesting and transporting cotton and maintain high quality of produce. 42 Cooperatives (Over 1000 farmers) benefit from the cotton baler machines of which 60% is

female.



## Knowledge utilisation for economic development (4)

#### **ABIPP**

- ☐ Three SMMEs benefited from 6 Cape Aloe Products
- Technology and Innovation Centre (TISC) Workshop:
  - February 2023 workshop with the theme "Patent,
     Trademark, and Design Search Tools in South Africa."
  - TISC facilitates access to technological information, strengthens IP management, and promotes technology transfer.
  - Supported by World Intellectual Property Organisation (WIPO).

#### Workshop and Distance Learning:

- 55 trainees attended the workshop.
- 76 trainees registered for IP distance learning courses.
- Total of 131 trainees upskilled in IP management and technology transfer in quarter 4.



Handover to the representatives of the three SMMEs in the Eastern Cape:
From left, Ms
Nomakhwezi Manzi - Nozulu Aloe
cooperative; Mr
Mzwabantu Gqomfa - Karibu contruction
and general; Ms
Ziyanda Makrayi - Ziyanda enterprise

## Knowledge utilisation for economic development (5)

Agriculture Bioeconomy Innovation Partnership Programme (ABIPP)
Revitalizing Agriculture and Supporting Agro-processing

□ABIPP plays a vital role in revitalizing agriculture and promoting sector growth.

- □Initiatives supported by ABIPP include:
  - Product and prototype development.
  - Value chain analysis and development.
  - Digital agriculture implementation.
  - Leveraging co-funding opportunities.
  - Fostering strong sector-wide partnerships.

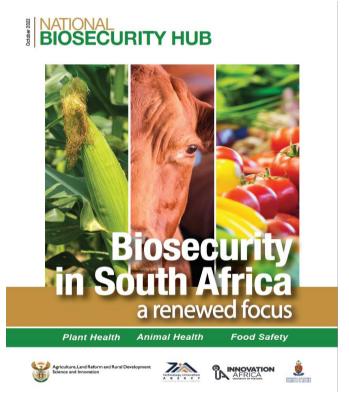
## Knowledge utilisation for economic development (6)

Agriculture Bioeconomy Innovation Partnership Programme (ABIPP)
Revitalizing Agriculture and Supporting Agro-processing

- □ 14 multi-stakeholder programmes/platforms funded in 2022-23, including 6 new partnerships with the private sector.
- Contributions to various agricultural commodities:
  - Wheat, Maize, Soybean, Cotton, Red meat, Orange flesh sweet potato,
     Canola, Indigenous vegetables, Bambara groundnut, Amadumbe,
     Cassava, and Potatoes, sorghum, tilapia, abalone, sheep, cattle.
- □ Development of the National Grains Research Programme (NGRP) through ABIPP's partnership with the Grains Industry, fostering collaborations across SA.
- Launch of a National Biosecurity Hub by Ministers, in Partnership with DALRRD, Innovation Africa@UP and the Technology Innovation Agency.
- Leveraged R68,754,127 co-funding from private sector partners.

## Knowledge utilisation for economic development (7)

Agriculture Bioeconomy Innovation Partnership Programme (ABIPP)
Revitalizing Agriculture and Supporting Agro-processing



Ministers of Higher Education, Science and Innovation and Agriculture Land Reform and Rural Development: jointly signed a commitment to a renewed focus on Biosecurity and the hub through an E-Journal.



Minister Thoko Didiza and DG-DSI, Dr Phil Mjwara at the National Biosecurity Hub Launch

### Knowledge utilisation for economic development (8)

#### Extension and Refinements of R&D Tax Incentive

- ☐ The Minister of Finance announced the extension of the R&D tax incentive until 31 December 2033.
- ☐ This government tax policy instrument supports early-phase research and development.
- □ Refinements to the incentive will be made, including a sixmonth grace period for project commencement before submitting the application.
- ☐ The definition of R&D will be simplified, aligning with the OECD Frascati Manual principles.
- □ The amendments aim to streamline the application process and improve monitoring and evaluation.

### Knowledge utilisation for inclusive development (1)

Monitoring Project: Unmanned Aircraft Technology for Inclusive Development

- □ The Spatial Monitoring Project, initiated by the Council of Scientific and Industrial Research, utilizes unmanned aircraft technology to foster inclusive development.
- Objectives: Demonstrate the potential of unmanned aircraft technology in achieving the government's broad development goals in the Fourth Industrial Revolution arena.
- □ Achievements: Acquisition of a commercial-grade unmanned aircraft system, recruitment of a small enterprise, preparation of a business case, and training and licensing of remote pilots, including unemployed graduates.

### Knowledge utilisation for inclusive development (2)

### Scaling Up the Spatial Monitoring Project

- Expansion: The program is being scaled up to support unemployed graduates in pursuing entrepreneurship opportunities in the drone market.
- □ Benefits: Empowering graduates with skills and resources to engage in the growing drone industry.
- Driving Innovation: Leveraging state-of-the-art unmanned aircraft technology to address societal challenges and promote inclusive development.
- Impact: Facilitating job creation, economic growth, and sustainable development through innovation and entrepreneurship.

### Knowledge utilisation for inclusive development (3)

- □ The Department of Science and Innovation (DSI) and MICT SETA signed a three-year agreement to develop ICT and 4IR skills.
- Collaboration aims to benefit unemployed youth, young entrepreneurs, and emerging innovators in South Africa.
- ✓ Successful workshops held for DSI living labs and mLabs in Q2 of 2022/23
- ✓ Workshops focused on preparing innovation labs for SETA accreditation and accessing funds for digital and 4IR skills training.
- ✓ Targeting young people, particularly the unemployed, in rural and township communities.

## Knowledge utilisation for inclusive development (4)

- □ **Small-holder Farmer Essential Oils program** was funded by the EU, totaling R48 million over three years.
- ✓ R11.1 million transferred to SEDA Essential Oil Business Incubator (SEOBI) to unlock additional funding.
- ✓ SEOBI supports innovators and entrepreneurs in developing marketready cosmetics and expanding rural production.
- ✓ Spatial Monitoring project by the Council of Scientific and Industrial Research showcases unmanned aircraft technology.
- Aims to achieve government's development objectives in the Fourth Industrial Revolution.
- Provides training and entrepreneurship opportunities for unemployed graduates in the drone market.

### Knowledge utilisation for inclusive development (5)

- Department of Tourism, in collaboration with DSI and the Technology Innovation Agency, launched 15 tourism technology products.
- ✓ Event held during Youth Month commemoration in June 2022.
- ✓ Innovation and commercialization of products address unemployment and promote entrepreneurship.
- Ministerial launch of 3D Construction Printing Technology by DSI and National Department of Human Settlements.
- ✓ Technology-based models accelerate the delivery of governmentsubsidized houses.
- Creates economic opportunities for SMMEs in the supplier valuechain, operations, maintenance, and local components/materials.

## Innovation in support of a capable and developmental state (1)

DSI-UKZN Phoenix Rocket Programme: Advancing South Africa's Space Capabilities

- □ DSI and UKZN successfully launched two Phoenix test rockets in March 2023.
- DSI funds the space programme at UKZN's Aerospace Research Institute (ASRI).
- ASRI's Phoenix Space Propulsion Programme (SPP) focuses on suborbital launch vehicles.

#### Phoenix Rocket Tests:

- Successful test campaign of Phoenix-1C and Phoenix-1D rockets.
- Launched from Denel Overberg Test Range in the Western Cape.
- Phoenix-1C: Low-altitude rocket carrying experimental payloads.
- Phoenix-1D: Higher-altitude rocket reaching 25km altitude over the Indian Ocean.

## Innovation in support of a capable and developmental state (2)

### DSI-UKZN Phoenix Rocket Programme: Advancing South Africa's Space Capabilities

#### Sounding Rockets:

- Carry experimental payloads for scientific research.
- Facilitate experiments in various disciplines (biotechnology, astronomy, materials science, etc.).
- March 2021: ASRI achieved a new African hybrid-rocket altitude record with the Phoenix-1B Mark IIr.

#### Unlocking Opportunities:

- South Africa's space industry promotes a knowledge-based economy and human capacity development.
- Supports the implementation of an African space policy and strategy.
- Dedicated investment needed for long-term progression and sustainability.
- UKZN leads in applied rocket propulsion programme and indigenous technology development.

### International cooperation and resources (1)

#### Advancing Science and Technology Partnerships: DSI's Engagements

- DSI's Participation in the United Nations Commission on the Status of Women:
  - Nka'Thuto EduPropeller, an NGO funded by DSI supported a grade 12 Mathematics and Science learner from Kwa-Zulu Natal, to share experiences at a side event on STI solutions for addressing gender-based violence.
- Partnership Engagements:
  - Dissemination of activities and promotion of South African participation in SA-EU funded programmes under ESASTAP;
  - Launch of Africa II initiative under Horizon Europe Framework Programme;
  - South African National Contact Point Network established for Horizon Europe opportunities;
  - Engagements with multinational companies like ABB South Africa, Schneider Electric, Bosch, and Pfizer; and
  - First SA/Finland Circular Economy consultation hosted to consider areas of cooperation.

### International cooperation and resources (2)

#### **DSI International Collaborations and Capacity Building**

- ☐ Key Collaborative Initiatives during the quarter:
  - Participation in the Africa-Europe Science Collaboration and Innovation Platform (AERAP);
  - Policy dialogues are creating an enabling environment with EU partners improving cooperation in priority areas of engagement aligned to the With Paper and the Decadal Plan;
  - Strengthening the Smallholder Essential Oils value chain through feasibility studies for industrial loan finance and postgraduate studies for eight students from historically disadvantaged institutions under the General Budget Support Programme;
  - SA-Iran nanotechnology workshop on possible cooperation and joint SA-German Research Chair on the Just Energy Transition; and
  - Appointment of emerging researchers from HDI representatives as Assistant NCPs for the Horizon Europe Framework Programme and resulted in 21 South African students participating in international training and capacity-building initiatives, seed funding and co-investment support for mobility programs and research projects with EU counterparts.

### International cooperation and resources (3)

### **Industrial Cooperation and Support**

- MoU signed between Uganda Industrial Research Institute (UIRI) and Council for Scientific and Industrial Research (CSIR);
- MoU between South African Industrial Development Cooperation and Uganda Industrial Development Cooperation to provide support for industrial development projects funded through cooperation agreements; and
- □ DSI supported the launching of the Globalstars call with Kenya, which supports SA/Kenya relations and cooperation in the Eureka Network and focus on fostering international research and innovation partnerships.

### International cooperation and resources (4)

#### Research Collaboration and Innovation

- MoU signed between Institut Malgache de Recherches Appliquees (IMRA) and CSIR to focus on joint research and the development of indigenous species for medicine and food products; and
- ☐ The capital equipment funded by Japan under the SATREPS programme for the "Development of new ammonia synthesis system using renewable energy and hydrogen" project arrived at NWU-HYSA.

### **Knowledge Utilization for Inclusive Development**

DSI being a partner in the Water and Energy for Food (WE4F) Southern Hub, hosted a joint innovator community platform with the Central Africa Regional Innovation Hub to foster knowledge exchange with an emphasis on empowering women innovators and historically disadvantaged institutions



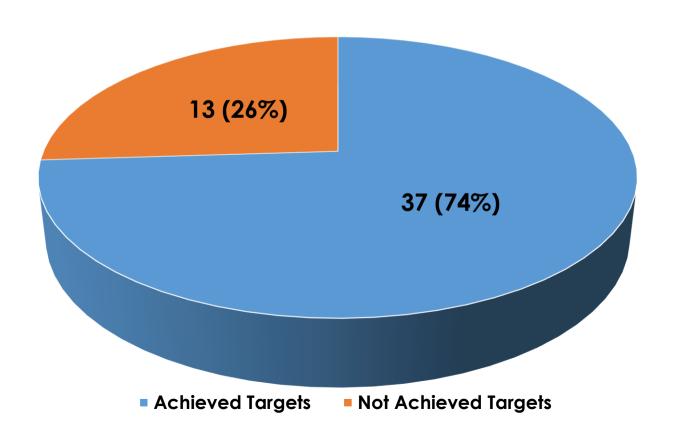
### Performance of the DSI in Quarter 4

#### **DSI Overall Performance**

#### **Annual 2022/23**

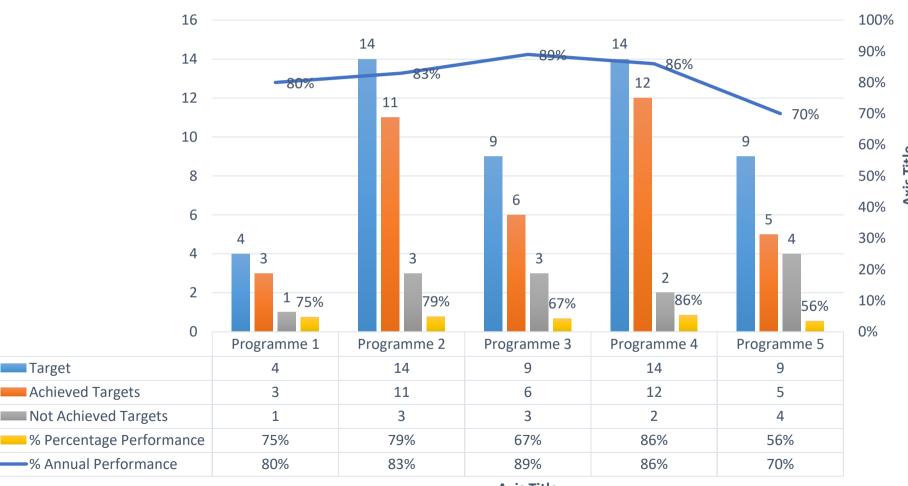
Achieved 82%

Unachieved 18%



### **Quarter 4 Programme Performance**

#### **DSI Performance Per Programme**



**Axis Title** 

Target Achieved Targets Not Achieved Targets Percentage Performance —% Annual Performagge

### **Programme 1: Administration**

The purpose of the Programme is to conduct the overall management and administration of the Department.







### Programme 1 performance achievements -

| Q4                                                                                                                                                                              |                                                                                                                                                                |                                                                                                                                   |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------|
| Annual target                                                                                                                                                                   | Quarter 4 target                                                                                                                                               | Quarter 4 progress                                                                                                                | Status   |
| DSI public entities' 2023/24 annual performance plans (or, in the case of the CSIR, shareholder compact) signed by the Minister and chairpersons of the boards by 31 March 2023 | Second and final draft<br>of public entities' APPs<br>(or, in the case of the<br>CSIR, shareholder<br>compact) approved<br>by the Minister by February<br>2023 | The DSI public entities' 2023/24 APPs and CSIR's 2023/24 Shareholder's Compact were approved by the Minister by end February 2023 | Achieved |

2023

**Achieved** 

Six platforms (print, Six platforms broadcast, online, media (print, broadcast, liaison, stakeholder online, media engagement and social liaison, stakeholder media) to profile the DSI engagement and social media) to profile the DSI and its entities Roll-out branding initiative

(thematic outdoor and

digital collateral) across

municipalities

provinces and metropolitan

Six platforms were utilised (print, broadcast, online, media liaison, stakeholder engagement and social media) to profile the DSI and its entities

**Achieved** 

and its entities by 31 March 2023 Roll-out branding initiative (thematic and coordinated messaging on billboards, broadcast platforms and branding collateral) across provinces and metropolitan municipalities

by 31 March 2023

Branding initiative (thematic outdoor and digital collateral) was rolled out across provinces and metropolitan municipalities

### Programme 2: Technology Innovation

The purpose of the Programme is to enable research and development in strategic and emerging focus areas to promote the realisation of commercial products, processes and services from R&D outputs through the implementation of enabling policy instruments.





| Q4 Programme 2 performance achievements — Q4                                                                                          |                                                                                                                                          |                                                                                                                                       |          |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|
| Annual target                                                                                                                         | Quarter 4 target                                                                                                                         | Quarter 4 progress                                                                                                                    | Status   |  |  |
| 2 decision-support tools<br>developed and/or<br>maintained by 31 March<br>2023                                                        | 2 decision-support<br>tools funded and/or<br>maintained by 31                                                                            | 2 decision-support<br>Tools were funded<br>and/or<br>maintained by 31                                                                 | Achieved |  |  |
| 8 strategic and technical<br>engagements with<br>SANSA and TIA to ensure<br>alignment with national<br>priorities by 31 March<br>2023 | 2 strategic and<br>technical<br>engagements with<br>SANSA and TIA to ensure<br>alignment with national<br>priorities by 31 March<br>2023 | 2 strategic and<br>technical engagements<br>with SANSA and TIA to<br>ensure alignment with<br>national priorities by 31<br>March 2023 | Achieved |  |  |
| Space weather centre                                                                                                                  | Space weather centre                                                                                                                     | Space weather centre                                                                                                                  |          |  |  |

issuing bulletins and Issuing bulletins and warnings for aviation Warnings for aviation industry in South Africa industry in South Africa and the African and the African

continent

continent by 31 March

2023

Issued bulletins and Warnings for aviation industry in South Africa and the African continent

**Achieved** 

### Programme 2 performance achievements – Q4

| Annual target                                                                                                                                                         | Quarter 4 target                                                                                                                              | Quarter 4 progress                                                                                                                                                      | Status   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 180 postgraduate students (master's and doctoral) supported in designated energy, space, Innovation Priorities and Instruments, and bioeconomy areas by 31 March 2023 | 180 postgraduate students (master's and doctoral) supported in designated energy, space, Innovation Priorities and Instruments and bioeconomy | 213 postgraduate<br>students (master's and<br>doctoral) were<br>supported in designated<br>energy, space,<br>Innovation Priorities and<br>Instruments and<br>bioeconomy | Achieved |
| 50 artisans and/or technicians trained in the space, energy and bioeconomy sectors of the economy by 31                                                               | 50 artisans and/or technicians trained in the space, energy and bioeconomy sectors of                                                         | 53 artisans and/or technicians trained in the space, energy and bioeconomy sectors of The economy by 31                                                                 | Achieved |

THE ECONOMY BY ST The economy by 31 the economy by 31

March 2023 March 2023 March 2023 40 unemployed youth 40 unemployed youth 41 Unemployed youth **Achieved** 

Were supported under

the TT100 Learnership/

Internship Programme

Supported under the

Internship Programme

TT100 Learnership/

supported under the

Learnership/Internship

Programme by 31 March

TT100

2023

### Programme 2 performance achievements —

| Q4                                                                                                                |                                                                                         |                                                                                                                                    |          |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------|
| Annual target                                                                                                     | Quarter 4 target                                                                        | Quarter 4 progress                                                                                                                 | Status   |
| 4 intellectual property rights filed based on RDI conducted in designated areas by 31 March 2023                  | 4 intellectual property Rights filed based on RDI Conducted in designated areas         | 39 intellectual property rights were filed based on RDI conducted In designated areas                                              | Achieved |
| 15 technology demonstrations, prototypes, products and services developed in designated energy, space, Innovation | 15 technology demonstrations, prototypes, products and services developed In designated | 76 technology<br>demonstrations, prototypes,<br>products and services Were<br>developed in designated<br>energy, space, Innovation | Achieved |

**Priorities** energy, space, Innovation Priorities and Instrument and Instruments, and Priorities and Instrument s, and bioeconomy areas by 31 March 2023 bioeconomy areas by 31 s, and bioeconomy areas March 2023 by 31 March 2023 2 stationary fuel cell 2 stationary fuel cell 2 stationary fuel cell systems/clean energy systems/clean energy systems/clean energy

technologies deployed in

partnership with local and

31 March 2023

technologies deployed in

partnership with local and

district municipalities in rural

and informal settlements by

31 March 2023

technologies deployed in partnership with local and district municipalities in rural district municipalities in rural and informal settlements by and informal settlements by 31 March 2023

**Achieved** 

#### Programme 2 performance achievements – Q4

| Annual target                                                                                                                                                                                   | Quarter 4 target                                                                                                                                                            | Quarter 4 progress                                                                                                                                                          | Status   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 2 stationary fuel cell<br>systems/clean energy<br>technologies deployed<br>in partnership with local<br>and district<br>municipalities in rural<br>and informal settlements<br>by 31 March 2023 | 2 stationary fuel cell<br>systems/clean energy<br>technologies deployed<br>in partnership with local<br>and district<br>municipalities in rural<br>and informal settlements | 2 stationary fuel cell<br>systems/clean energy<br>technologies deployed in<br>partnership with local<br>and district municipalities<br>in rural and informal<br>settlements | Achieved |
| 6 commercial outputs in designated areas by 31 March 2023                                                                                                                                       | 6 commercial outputs in designated areas by 31 March 2023                                                                                                                   | 12 commercial outputs in designated areas by 31 March 2023                                                                                                                  | Achieved |
| 500 black emerging<br>farmers benefiting from<br>technology/innovation<br>support programmes by<br>31 March 2023                                                                                | 500 black emerging farmers benefiting from technology/innovation support programmes                                                                                         | 507 black emerging<br>Farmers benefiting<br>From technology/<br>Innovation support<br>programmes                                                                            | Achieved |

### Programme 3: International Cooperation and Resources

The purpose of the Programme is to strategically develop, promote and manage international relationships, opportunities and S&T agreements that strengthen the NSI and enable an exchange of knowledge, capacity and resources between South Africa and its regional and international partners.



Minister Nzimande at the 7th Tokyo International Conference on African Development Science and Technology in Society Forum

| Q4                                                                                                                                                       | performance                                                                                                                       | e denieveme                                                                                                                                       | ents —   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Annual target                                                                                                                                            | Quarter 4 target                                                                                                                  | Quarter 4 progress                                                                                                                                | Status   |
| 326 new South African students participating in international training programmes as part of cooperation initiatives facilitated by DSI by 31 March 2023 | 44 South African Students Participating in international training programmesas part of cooperation initiatives facilitated by DSI | 187 South African<br>students participated<br>in international training<br>programmes as part of<br>cooperation initiatives<br>facilitated by DSI | Achieved |
| 34 international policy<br>dialogues and technical<br>exchanges the policy intents<br>of the White Paper on STI by<br>31 March 2023                      | 11 international policy dialogues and technical exchanges to support the policy intents of the White Paper on STI                 | 25 international policy dialogues and technical exchanges to support the policy intents of the White Paper on STI                                 | Achieved |
| 17 new STI initiatives supported targeting the objectives of the SADC RISPD by 31 March 2023                                                             | 6 STI initiatives supporting the SADC RISDP                                                                                       | 7 STI initiatives supporting the SADC RISDP                                                                                                       | Achieved |
| 6 STI plans of action implemented with bilateral African partners by 31                                                                                  | 3 STI plan of action implemented with bilateral                                                                                   | 6 STI plans of action implemented with bilateral                                                                                                  | Achieved |

African partners

African partners

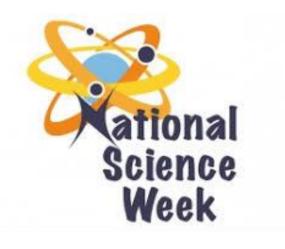
March 2023

#### Programme 3 performance achievements –

| Annual target                                                                                                     | Quarter 4 target                                                          | Quarter 4 progress                                                        | Status   |  |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|----------|--|
| 12 engagements with global science leaders to advance national priorities in multilateral forums by 31 March 2023 | 5 engagements with a global science leader                                | 9 engagements with a global science leader                                | Achieved |  |
| 8 new international STI initiatives focused on SDGs supported by South Africa by 31 March 2023                    | 6 international STI initiatives focused on SDGs supported by South Africa | 6 international STI initiatives focused on SDGs supported by South Africa | Achieved |  |

# Programme 4: Research Development and Support

The purpose of the Programme is to provide an enabling environment for research and knowledge production that promotes the strategic development of basic sciences and priority science areas, through science promotion, human capital development, the provision of research infrastructure and relevant research support in pursuit of South Africa's transition to a knowledge economy.





#### Programme 4 performance achievements –

| Annual target                                                                                                                                           | Quarter 4 target                                                                                                                                                       | Quarter 4 progress                                                                                                                                                       | Status   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 2 200 PhD students<br>awarded bursaries<br>annually as reflected in<br>the reports from the NRF<br>and other relevant<br>entities by 31 March 2023      | 2 200 PhD students<br>awarded an annual<br>bursary as reflected in<br>the reports from the NRF<br>and other relevant<br>entities by 31 March 2023                      | 2 359 PhD students were<br>awarded an annual bursary<br>as reflected in the reports<br>from the NRF and other<br>relevant entities by 31 March<br>2023                   | Achieved |
| 4 200 pipeline postgraduate students awarded bursaries annually as reflected in the reports from the NRF and other relevant entities by 31 March 2023   | 4 200 pipeline<br>postgraduate students<br>awarded an annual<br>bursary as reflected in<br>the reports from the NRF<br>and other relevant<br>entities by 31 March 2023 | 4 754 pipeline postgraduate<br>students were awarded an<br>annual bursary as reflected<br>in the reports from the NRF<br>and other relevant entities<br>by 31 March 2023 | Achieved |
| 300 emerging researchers<br>awarded research grants<br>through NRF-managed<br>programmes as reflected<br>in the NRF project reports<br>by 31 March 2023 | 300 emerging researcher s supported in priority science areas                                                                                                          | 1 652 emerging researchers were supported in priority science areas                                                                                                      | Achieved |

# Programme 4 performance achievements – Q4 (cont.)

| Annual target                                                                                                                                    | Quarter 4 target                                                                                                                  | Quarter 4 progress                                                                                                                                    | Status   |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 200 black and female<br>emerging researchers<br>awarded research grants as<br>reflected in the NRF project<br>reports by 31 March 2023           | 200 black and female<br>emerging researcher s<br>awarded research grants as<br>reflected in the NRF project<br>reports            | 614 black and female<br>emerging researchers<br>awarded research grants<br>as reflected in the NRF<br>project reports                                 | Achieved |
| 750 graduates and students<br>placed in DSI funded work<br>preparation programmes in<br>SETI institutions by 31 March<br>2023                    | 750 graduates and students<br>placed in DSI-funded work<br>preparation programmes in<br>SETI institutions by 31 March<br>2023     | 1 057 graduates and<br>students placed in DSI-<br>funded work preparation<br>programmes in SETI<br>institutions by 31 March<br>2023                   | Achieved |
| 6 200 Gbps total available<br>broadband capacity<br>provided by SANReN by 31<br>March 2023                                                       | 6 200 Gbps total available<br>broadband capacity<br>provided by SANReN by 31<br>March 2023                                        | 8122.35 Gbps total<br>available broadband<br>capacity provided by<br>SANReN by 31 March 2023                                                          | Achieved |
| 3 000 researchers<br>awarded research grants<br>through NRF-managed<br>programmes as reflected by<br>the NRF project reports by 31<br>March 2023 | 3 000 researchers awarded research grants through NRF-managed programmes as reflected by the NRF project reports by 31 March 2023 | 3 321 researchers were<br>awarded research grants<br>through NRF-managed<br>programmes as reflected<br>by the NRF project reports<br>by 31 March 2023 | Achieved |

## Programme 4 performance achievements — (cont.)

|                                                                                                              | <b>7</b> \ # //                                                                                               |                                                                                                              | <u>~</u> □ |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------|
| Annual target                                                                                                | Quarter 4 target                                                                                              | Quarter 4 progress                                                                                           | Status     |
| 7 200 Internationally accredited research articles from researchers awarded research grants by 31 March 2023 | 7 200 Internationally accredited research articles from researcher s awarded research grants by 31 March 2023 | 7 273 Internationally accredited research articles from researchers awarded research grants by 31 March 2023 | Achieved   |
| 20 L-band science mode receivers produced for the additional MeerKAT Extension telescope by 31 March 2023    | Delivery of all 20 L-band receivers                                                                           | All 20 L-band science<br>mode receivers were<br>manufactured and<br>delivered to SARAO by<br>31 March 2023   | Achieved   |

## Programme 4 performance achievements – Q4 (cont.)

| Annual target                                                                                        | Quarter 4 target                                                                                                                                                                                                                                                                             | Quarter 4 progress                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Status   |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| and engagement with science conducted, as reflected in the reports of the NRF and other implementing | conducted by at least 20 science centres supported by the DSI throughout the year (8) At least 1 training session for educators conducted in provinces that have signed collaboration agreements with the DSI by 31 March 2023 (9) Two mainstream media-based (radio and television) science | participate d in science engagement. (8) Four training coding workshops accommodating 86 educators were conducted. (9) Between July and August 2022, media coverage amounted to AVE of R1 593 074 comprising 19% print, 6% television, 34% radio and 41% online. (10) 25 learners were selected and trained as citizen scientist in Cofimvaba (Post-Construction Monitoring & Evaluation) (11) Four digital media projects were completed, viz., two on role modelling, virtual science centre and complementary LTSM. (12) Complementary Learning and | Achieved |

### Programme 4 performance achievements – Q4 (cont.)

Status

| Annual larger                                                                                                                 | Qualier 4 larger                                                                             | Qualier 4 progress                                                                            | 310105   |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------|
| South African public<br>relationship with science<br>survey conducted by 31<br>March 2023                                     | South African public<br>relationship with<br>science survey<br>conducted by 31<br>March 2023 | South African public<br>relationship with science<br>survey was conducted by<br>31 March 2023 | Achieved |
| 12 strategic and technical engagements with the NRF, SACNASP and ASSAf to alignment with national priorities by 31 March 2023 | 3 bilateral engagement reports                                                               | 4 bilateral engagement reports                                                                | Achieved |

# Programme 5: Socio-economic Innovation Partnerships

The purpose of the Programme is to enhance the growth and development priorities of the government through targeted S&T-based innovation interventions and the development of strategic partnerships with other government departments, industry, research institutions and communities.





#### Programme 5 performance achievements – Q4

| Annual target                                                                                                                   | Quarter 4 target Quarter 4 progress                                                                                            |                                                                                                                                         | Status   |  |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| 4 knowledge products<br>on innovation for<br>inclusive development<br>published by between 1<br>April 2022 and 31 March<br>2023 | 4 knowledge products<br>on innovation for<br>inclusive development<br>published on<br>Department's website by<br>31 March 2023 | 4 knowledge products<br>on innovation for<br>inclusive development<br>were published on the<br>Department's website<br>by 31 March 2023 | Achieved |  |
| Annual target: 6<br>decision-support<br>systems introduced,<br>maintained and<br>improved by 31 March<br>2023                   | 6 decisions support<br>systems introduced,<br>maintained and<br>improved between 1 April<br>2022 and 31 March 2023             | 6 decisions support<br>systems were<br>introduced,<br>maintained and<br>improved between 1<br>April 2022 and 31<br>March 2023           | Achieved |  |

**Knowledge products** refer to case studies, policy briefs, technology briefs and research reports.

**Decision-support interventions** help people think about the choices they face; they describe where and why choice exists; and they provide information about options, including, where reasonable the option of taking no action.

48

| Programme<br>Q 4                                                                                                             | 5 performanc                                                                                                                                                                           | e achieveme                                                                                                                                                                            | nts -    |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Annual target                                                                                                                | Quarter 4 target                                                                                                                                                                       | Quarter 4 progress                                                                                                                                                                     | Status   |
| 3 instruments funded in support of increased localisation, competitiveness and R&D-led industry development by 31 March 2023 | Annual workplans or contract approved for 3 instruments in support of increased localisation, competitiveness and R&D-led industry development between 1 April 2022 and 31 March 2023. | Annual workplans or contract approved for 3 instruments in support of increased localisation, competitiveness and R&D-led industry development between 1 April 2022 and 31 March 2023. | Achieved |
| 6 statistical reports approved by Exco for                                                                                   | 6 statistical reports were approved by Exco for publication and/or                                                                                                                     | 6 statistical reports were approved by Exco for publication and/or                                                                                                                     | Achieved |

and 31 March 2023

8 strategic and/or

March 2023

technical engagements

ensure alignment with

national priorities by 31

with CSIR and/or HSRC to

2023

8 strategic and/or

31 March 2023

technical engagements

between 1 April 2022 and

with CSIR and/or HSRC

submitted to Cabinet submitted to Cabinet submitted to Cabinet and/or disseminated to and/or disseminated to and/or disseminated to policy audience between policy audience policy audience between between 1 April 2022 1 April 2022 and 31 March 1 April 2022 and 31 March

2023

8 strategic and/or

31 March 2023

technical engagements

between 1 April 2022 and

with CSIR and/or HSRC

**Achieved** 



### Classification of reasons for variance due to non or underachievement

**Process delays** refer to under/non-achievement due to factors outside the Department's control. Therefore, the achievement of such targets depends mainly on outside stakeholders.

**Ineffectiveness of implementers** refers to non-achievement due to deficiencies during the implementation phase.

**Target formulation deficiencies** refer to under/non-achievement due to variables not foreseen during the target formulation phase.

The lessons learnt from these reasons for variance can help to address gaps during the strategic planning processes for subsequent financial years.

#### Programme 1: Overview of underperformance – Q4 (1)

|                                                                          |                                                                                                                                                                                                                                                                                                       |                                                                                                | // / /       |                                 |                                                                |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------|---------------------------------|----------------------------------------------------------------|
| Quarter 4 target                                                         | Quarter 4 progress                                                                                                                                                                                                                                                                                    | Reasons for non-<br>achievement                                                                | Status       | Variance<br>classification      | Likelihood for<br>the Target to<br>be achieved<br>by end of FY |
| 94% of all approved funded prioritised positions filled by 31 March 2023 | Funded prioritised positions were filled by 31 March 2023. A total of 85 positions were on the priority list as at 1 April 2022. 43 were filled translating to a vacancy rate of 8.98% which is within the required norm set by DPSA. 42 prioritised positions are at different stages of recruitment | Delayed recruitment and selection processes due unavailability of selection committee members. | Not achieved | Ineffectiveness of implementers | The annual target will not be achieved                         |

# Programme 2: Overview of underperformance – Q4 (2)

sector by 31 March 2023

| Quarter 4 target                                                                                                              | Quarter 4 progress                                                                                            | Reasons for non-achievement                                                                                    | Status          | Variance<br>classification | Likelihood for<br>the Target to<br>be achieved<br>by end of FY |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|----------------------------------------------------------------|
| Manufacturing of 3<br>or more CubeSats<br>for MDASat<br>constellation<br>initiated by<br>31 March 2023                        | No<br>manufacturing<br>of CubeSats<br>for MDASat<br>constellation<br>was initiated<br>by 31 March<br>2023     | Delays were caused by several reasons, such as sudden resignation of staff, and a need for additional funding. | Not<br>achieved | Process delays             | The annual target will not be achieved                         |
| 15 UoT and TVET<br>graduates offered<br>Experiential<br>learning<br>opportunities in the<br>energy sector by<br>31 March 2023 | 12 UoT and<br>TVET<br>graduates<br>were offered<br>experiential<br>learning<br>opportunities in<br>the Energy | This is a brand new indicator, and thus, there was no baseline to measure a target.                            | Not<br>achieved | Process delays             | The annual target will not be achieved                         |

### Programme 2: Overview of underperformance – Q4 (3)

| Quarter 4 target                                                                     | Quarter 4 progress                                                                       | Reasons for non-achievement                                                                                                             | Status          | Variance<br>classification | Likelihood<br>for the<br>Target to<br>be<br>achieved<br>by end of<br>FY |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|-------------------------------------------------------------------------|
| 13 SMMEs contracted and/ or assisted with business development and commercialisation | 4 SMMEs were contracted and/ or assisted with Business development and commercialisation | The information on the SMMEs that the Innovation Fund supported, could not be added as the report is only due at the end of April 2023. | Not<br>achieved | Process delays             | Target will be achieved for the FY                                      |

| Programme 3: Overview of underperformance – Q4 (4)             |                                                                            |                                                                                                                                                                            |                 |                                |                                                                                                         |
|----------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|---------------------------------------------------------------------------------------------------------|
| Quarter 4 target                                               | Quarter 4<br>progress                                                      | Reasons for non-<br>achievement                                                                                                                                            | Status          | Variance<br>classificati<br>on | Likelihood for<br>the Target to be<br>achieved by<br>end of FY                                          |
| 16 international Resource- leveraging engagements              | international<br>Resource-<br>leveraging<br>engagemen<br>ts                | Due to delay in responses from some international partners on planned engagements, some activities could not be achieved during the quarter.                               | Not<br>achieved | Process<br>delays              | Target likely to<br>be achieved as<br>most information<br>will be available<br>in the fourth<br>quarter |
| 16 Capacity building initiatives for international cooperation | 10 capacity<br>building<br>Initiatives for<br>international<br>cooperation | Limited global movement affected efforts in supporting HDIs, due to insufficient IT infrastructure to support such institutions and individuals during virtual engagements | Not<br>achieved | Process<br>delays              | The target will not be achieved                                                                         |
| 12 STI<br>initiatives                                          | 6 STI<br>initiatives                                                       | International partners' reporting time frames differ                                                                                                                       | Not<br>achieved | Process<br>delays              | Target likely to be achieved                                                                            |

supporting supporting Due to delay in responses from some international the Agenda the Agenda partners on planned 2063 2063 engagements, thus some activities could not be achieved during the quarter.

### Programme 4: Overview of underperformance - Q4 (5)

| riogiani                                                                                      | IIII <del>C 4</del> . O                                                                           | verview of one                                                                                                                                                              | Jeipen          | to A #                     |                                                                |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|----------------------------------------------------------------|
|                                                                                               |                                                                                                   | //                                                                                                                                                                          | - 3 1 + 6       |                            | ر در -00000000                                                 |
| Quarter 4<br>target                                                                           | Quarter 4<br>progress                                                                             | Reasons for non-<br>achievement                                                                                                                                             | Status          | Variance<br>classification | Likelihood for the<br>Target to be<br>achieved by end<br>of FY |
| 25 annual research infrastructure grants awarded by 31 March 2023                             | 21 annual<br>research<br>Infrastructure<br>grants<br>Were<br>awarded by<br>31 March<br>2023       | Funding for two RDI projects were forfeited due to non-expenditure by the project and six of the projects funding from the High-end were deferred to 2023/24 financial year | Not<br>achieved | Process<br>delays          | The annual target will not be achieved                         |
| 4 MeerKAT<br>Extension<br>antennas<br>installed<br>and<br>commissioned<br>by 31 March<br>2023 | 0 MeerKAT<br>Extension<br>antennas<br>installed<br>and<br>commissio<br>ned by 31<br>March<br>2023 | The production of the MeerKAT extension dishes is the responsibility of the Max Plank Institute. The institute reported major delays in the dish production                 | Not<br>achieved | Process<br>delays          | The annual target will not be achieved                         |

process due to financial and

challenges that they experienced

logistical

### Programme 5: Overview of underperformance – Q4 (6)

|                                                                                                                                                                             |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | · (o)               |                            | ر فر –سسس                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|----------------------------------------------------------------|
| Quarter 4<br>target                                                                                                                                                         | Quarter 4 progress                                                                                                                                                        | Reasons for non-<br>achievement                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Status              | Variance<br>classification | Likelihood for the<br>Target to be<br>achieved by end<br>of FY |
| Additional 280 high-level research students (of which 30 at PhD level) funded or co- funded in designated niche areas by 31 March 2023 taking the total for the year to 332 | Additional 78 high-level research students (of which 30 at PhD level) funded or co-funded in designated niche areas by 31 March 2023 taking the total for the year to 332 | Green economy: A total of 86 students were declared but only 78 met the requirements of the TIDs. Industrial: Entities' contracted reporting date is on 15 April and evidence is outstanding Industrial: entities will submit their Q4 reports by 15th April and the annual reporting will contain all the funded students. Due to the high target, and necessity to redirect funding towards technology diffusion (instead of technology development) the annual target will not be achieved. | Not<br>achiev<br>ed | Process delays             | The annual target will not be achieved                         |

#### Programme 5: Overview of underperformance – Q4 (7)

|                                                                                                                                                                      |                                                                                                                                                                           | ///                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                            |                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|----------------------------------------------------------------|
| Quarter 4 target                                                                                                                                                     | Quarter 4<br>progress                                                                                                                                                     | Reasons for non-<br>achievement                                                                                                                                                                                                                                                                                                                                                                                                       | Status       | Variance<br>classification | Likelihood for the<br>Target to be<br>achieved by end<br>of FY |
| An annual total of 50 industrially relevant knowledge or innovation products added to the industrial development IP Portfolio between 1 April 2022 and 31 March 2023 | An annual total of 19 industrially relevant knowledge or innovation products were added to the industrial development IP portfolio between 1 April 2022 and 31 March 2023 | With National Treasury not releasing funds since 2021 for the GBS: Green Economy for Development project with no reasons provided, despite letters sent from the DG to the DG National Treasury, to which no response was received. This funding drives the knowledge product development of green economy. The SBS funding that are due to industry associations under the SIF programme had a similar issue with National Treasury, | Not achieved | Process delays             | The annual target will be achieved                             |

#### Programme 5: Overview of underperformance – Q4 (8)

|                                                                                                                                                                      |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                            | 00000000                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|----------------------------------------------------------------|
| Quarter 4 target                                                                                                                                                     | Quarter 4 progress                                                                                                                                                        | Reasons for non-<br>achievement                                                                                                                                                                                                                                                                                                                                                                                                                            | Status          | Variance<br>classification | Likelihood for the<br>Target to be<br>achieved by end<br>of FY |
| An annual total of 50 industrially relevant knowledge or innovation products added to the industrial development IP Portfolio between 1 April 2022 and 31 March 2023 | An annual total of 19 industrially relevant knowledge or innovation products were added to the industrial development IP portfolio between 1 April 2022 and 31 March 2023 | The SBS funding that are due to industry associations under the SIF programme had a similar issue with National Treasury, which meant that implementors were not paid and therefore could not declare any outputs. Industrial: late submission of entity reports and insufficient time to validate the listed items resulted in the Q4 target not being met. This will be rectified in the annual reporting and the annual target will be achieved. (Cont) | Not<br>achieved | Process delays             | The annual target will be achieved                             |

### Programme 5: Overview of underperformance – Q4 (9)

| Quarter 4 target                                                                                                                                       | Quarter 4 progress                                                                                                                                     | Reasons for non-<br>achievement                                                                                                                                                                                                                                                                                                                                                   | Status       | Variance<br>classification | Likelihood for the<br>Target to be<br>achieved by<br>end of FY                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Annual workplans for 27 innovation support interventions that strengthen provincial or rural innovation systems between 1 April 2022 and 31 March 2023 | Annual workplans for 25 innovation support interventions that strengthen provincial or rural innovation systems between 1 April 2022 and 31 March 2023 | The Sector and Local Innovation Directorate did not meet the annual target. As a result of due diligence investigations of non-performing interventions, support for RISP interventions in the Northwest and Gauteng provinces were terminated. The RISP programme is run through a call for proposals process and there were no calls after the 2 interventions were terminated. | Not achieved | Process delays             | Not possible to meet the annual target as it is unlikely that the Regional Innovation Support Programme will be supporting any additional interventions in this financial year |

### Programme 5: Overview of underperformance – Q4 (10)

| Quarter 4 target                                                                                                      | Quarter 4<br>progress                                                                                                                  | Reasons for non-achievement                                                                                                                                                                                                                               | Status          | Variance<br>classification | Likelihood for the<br>Target to be<br>achieved by end<br>of FY                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Preapproval decisions provided within 90 Days on 80% of projects received between 26 August 2022 and 22 November 2022 | Preapproval decisions provided within 90 Days on 0% (0 out of the 14) of projects received between 26 August 2022 and 22 November 2022 | Delays were experienced due to the December holiday and quorum issues in January, resulting in almost two months with no committee meetings. Some delays due to first applications being processed with online system. Some delays with final processing. | Not<br>achieved | Process delays             | It is not possible to meet the annual target (As this is a non-cumulative target, if a target for one quarter is not met, it has already negatively affected the annual target achievement) |



#### 2022/23 Final Budget per Economic Classification

| Economic classification       | Final<br>Budget<br>R'000 |
|-------------------------------|--------------------------|
| Compensation of employees     | 357,650                  |
| Goods and services            | 221,517                  |
| Transfers and subsidies       | 8,554,812                |
| Payments for capital assets   | 11,279                   |
| Payments for financial assets | 4                        |
| Total                         | 9,145,262                |

#### 2022/23 Final Budget per Programme

| Programme                               | Final<br>Budget<br>R'000 |
|-----------------------------------------|--------------------------|
| Administration                          | 343,174                  |
| Technology Innovation                   | 1,897,725                |
| International Cooperation and Resources | 165,687                  |
| Research Development and Support        | 4,983,052                |
| Socio-economic Innovation Partnerships  | 1,755,624                |
| Total                                   | 9,145,262                |

#### **OVERALL FINANCIAL PERFORMANCE**

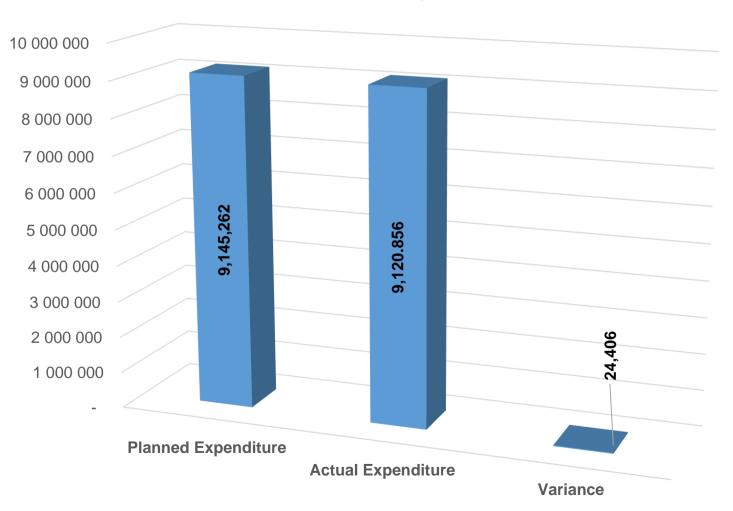
 The department planned to spend R9,145 billion by end of quarter 4.

• The actual spending for the period amounted to R9,121 billion (99.7% of the total final budget of R9,145 billion).

• This translates to a variance of R24 million or 0.3% of planned expenditure.

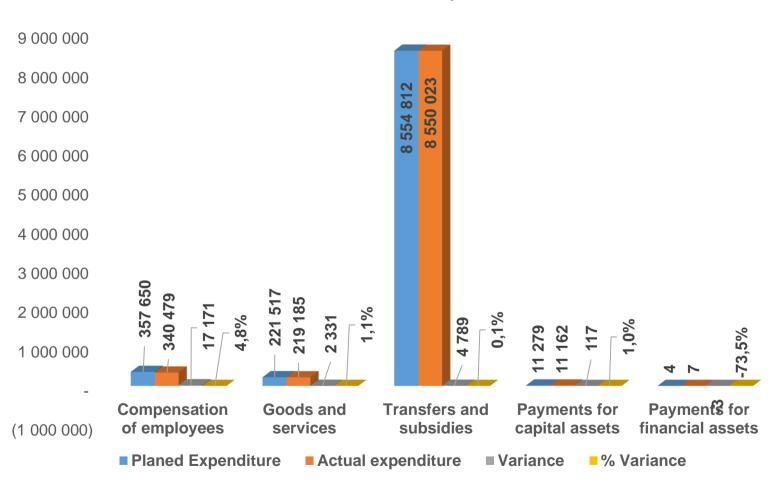
### **OVERALL FINANCIAL PERFORMANCE**

#### **Planned vs Actual Expenditure**



#### FINANCIAL PERFORMANCE PER CLASSIFICATION

#### Planned vs actual expenditure

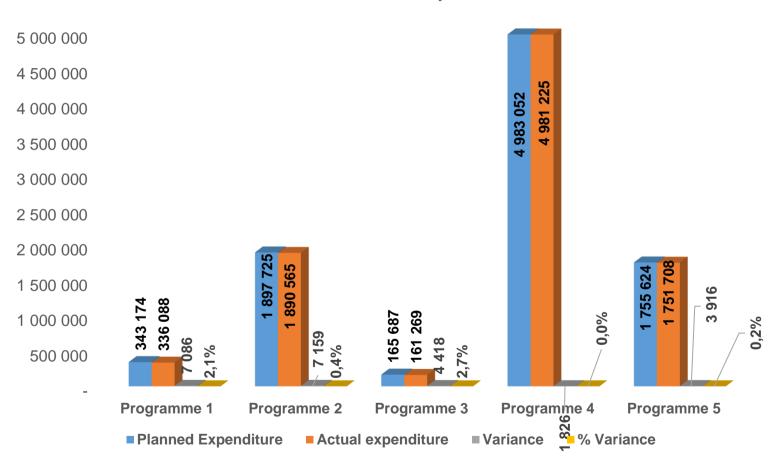


#### **REASONS FOR UNDERSPENDING**

| <b>Expenditure Category</b> | Reasons for underspending                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compensation of employees   | Delays in filling prioritised projects. In, addition, the DSI was allocated an additional R11.962 million during the AENE which contributed to the underspending.                                                                                                                                                                                                                                                |
| Goods and services          | The underspending is to cover accruals and payables.                                                                                                                                                                                                                                                                                                                                                             |
| Transfers and subsidies     | The underspending is mainly under Institutional & Programme Support and Health Innovation. The Institutional and Programme Support's expenditure depends on request for financial support from the department. There were not many requests received hence the underspending under the item. The underspending under Health Innovation was as a result of slow spending by the one of the implementing agencies. |
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### FINANCIAL PERFORMANCE PER PROGRAMME

#### Planned vs actual expenditure



#### Spending on Procurement (Q4)

The Total procurement expenditure on goods and services from 1 January 2023 to 31 March 2023 amounted to R22 231 491.

The procurement expenditure on SMMEs, Black, Women and Youth Owned Companies is depicted below as follows:

| TOTAL<br>PROCUREMENT<br>EXPENDITURE | TOTAL EXPENDITURE ON SMME COMPANIES   | EXPEI<br>E ON | TAL<br>NDITUR<br>BLACK<br>PANIES | TOTAL EXPENDIT E ON WON OWNED COMPANI | UR<br>IAN | TOTAL EXPENDITURE ON YOUTH OWNED COMPANIES |
|-------------------------------------|---------------------------------------|---------------|----------------------------------|---------------------------------------|-----------|--------------------------------------------|
| R22 231 491                         | R9 923 026                            | R16 3         | 89 086                           | R6 251 43                             | 38        | R7 356 165                                 |
| % EXPENDITURE ON SMME COMPANIES     | % EXPENDITUR<br>BLACK OWN<br>COMPANIE | <b>IED</b>    | ON V<br>OV                       | NDITURE<br>WOMEN<br>WNED<br>IPANIES   |           | EXPENDITURE ON YOUTH OWNED COMPANIES       |
| 44,6%                               | 73,7%                                 |               | 2                                | 8,1%                                  |           | 33,1%                                      |

#### Yearly Spend on Procurement to date

The Total procurement expenditure on goods and services from 1 April 2022 to 31 March 2023 amounted to R79 935 025.

The procurement expenditure on SMMEs, Black, Women and Youth Owned Companies is depicted below as follows:

| TOTAL PROCUREMENT EXPENDITURE   | TOTAL EXPENDITURE ON SMME COMPANIES   | EXPEI<br>E ON | TAL<br>NDITUR<br>BLACK<br>PANIES | TOTAL EXPENDIT E ON WON OWNED COMPANI | UR<br>IAN | TOTAL EXPENDITURE ON YOUTH OWNED COMPANIES |
|---------------------------------|---------------------------------------|---------------|----------------------------------|---------------------------------------|-----------|--------------------------------------------|
| R79 935 025                     | R39 516 884                           | R62 2         | 37 839                           | R29 351 7                             | 33        | R15 555 995                                |
| % EXPENDITURE ON SMME COMPANIES | % EXPENDITUR<br>BLACK OWN<br>COMPANIE | <b>IED</b>    | ON V<br>OV                       | NDITURE<br>VOMEN<br>VNED<br>IPANIES   |           | EXPENDITURE ON YOUTH OWNED COMPANIES       |
| 49,4%                           | 77,9%                                 |               | 3                                | 6,7%                                  |           | 19,5%                                      |

### Average Payment Days of Invoices Per Month For 2021/22 and 2022/23 Financial Years

| Month                        | Average payment days |         |  |  |
|------------------------------|----------------------|---------|--|--|
|                              | 2022/23 2021/22      | 2021/22 |  |  |
| April                        | 8                    | 7       |  |  |
| May                          | 7                    | 7       |  |  |
| June                         | 7                    | 6       |  |  |
| July                         | 6                    | 6       |  |  |
| August                       | 7                    | 7       |  |  |
| September                    | 7                    | 7       |  |  |
| October                      | 6                    | 6       |  |  |
| November                     | 10                   | 6       |  |  |
| December                     | 7                    | 8       |  |  |
| January                      | 6                    | 6       |  |  |
| February                     | 7                    | 11      |  |  |
| March                        | 6                    | 7       |  |  |
| Total average number of days | 7                    | 7       |  |  |

### Percentage of Invoices Paid Within 30 Days Per Month For 2021/22 and 2022/23 Financial Years

|                    | Average payment days |         | Comments |
|--------------------|----------------------|---------|----------|
| Month              | 2022/23              | 2021/22 |          |
| April              | 100%                 | 100%    |          |
| May                | 100%                 | 100%    |          |
| June               | 100%                 | 100%    |          |
| July               | 100%                 | 100%    |          |
| August             | 100%                 | 100%    |          |
| September          | 100%                 | 100%    |          |
| October            | 100%                 | 99,99%  |          |
| November           | 100%                 | 100%    |          |
| December           | 100%                 | 100%    |          |
| January            | 100%                 | 100%    |          |
| February           | 100%                 | 100%    |          |
| March              | 100%                 | 100%    |          |
| Average percentage | 100%                 | 99.99%  |          |
|                    |                      |         |          |

