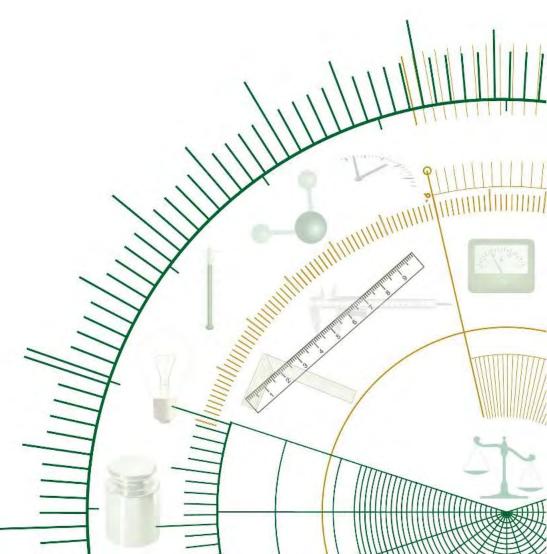




Performance against the APP Q4 Financial and Non-Financial

Virtual meeting
20 May 2025
Jessie Pillay (ACEO) and Mogau Sehlapelo (CFO)

Your measure of excellence



Presentation Overview



Stakeholder Awareness

Enhancing public understanding and support



Performance against Targets for year ending 2024/25

Employee Engagement

Recruitment and retention strategy to combat the staff turnover rate

Leadership & Continuity

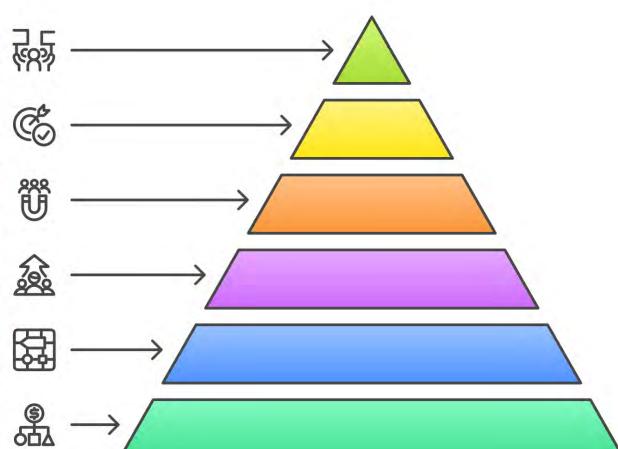
Ensuring stable leadership transition and continuity framework

Action Plan Overview

Outlining steps for strategic implementation

Budget & Financial Management

Ensuring fiscal responsibility and sustainability



ACT

To provide for the use of measurement units of the International System of Units and certain other measurement units; to provide for the designation of national measurement units and standards; to provide for the keeping and maintenance of national measurement standards and units; to provide for the establishment and functions of the National Metrology Institute; to provide for the repeal of certain laws; and to provide for matters connected therewith.

PREAMBLE

RECOGNISING-

- the need for an internationally recognised national metrology system as the foundation for the South African measurement system;
- the need to strengthen the metrology system as a key component of the technical infrastructure that is aligned with international best practice;
- the importance of ensuring that South Africa maintains national measurement standards and demonstrates its comparability to international standards and measurements;
- the need for support of our enterprises competing in a fast-paced global economy and for public policy objectives with regard to compliance issues in terms of health, safety and the environment; and
- that government is committed to providing a supportive legal environment for a national metrology system; and

IN ORDER TO-

- recognise the National Metrology Institute as the body in South Africa responsible to provide for the use of measurement units of the International System of Units and certain other measurement units;
- designate national measurement standards and provide for keeping and maintaining national measurement standards and units; and
- disseminate traceability in the South African industry,



What is a National Measurement Standard?

It is the most accurate and reliable reference for a specific measurement in a country, like a "master ruler" or "gold standard.

Why do factories need a trusted reference for measurements?

To ensure their scales are correct, like how NMISA provides the most precise weight standard for weighing gold.

How does NMISA help thermometer manufacturers?

NMISA maintains the official temperature reference to verify the accuracy of their devices.

Why are these standards linked to the International System of Units (SI)?

To ensure South Africa's measurements match those used globally, which is critical for fair trade, scientific research, healthcare, and industry.



Ensuring Precision and Compliance Through National Measurement Standards



7

National Measurement Standards

Develop, maintain, and disseminate NMS aligned with the SI to support economic and regulatory frameworks.



Economic Support

By ensuring reliable and standardised measurements, NMISA facilitates fair trade, industrial development, and compliance with international market requirements.



Accurate Measurements

NMISA provides internationally recognised measurement standards to ensure accurate and traceable measurements across all industries in South Africa.



Scientific Development

Develop primary scientific standards for physical and chemical measurements to support research and innovation.

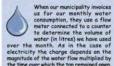


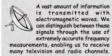
Regulatory Compliance

NMISA supports regulatory enforcement by providing accurate measurement standards, with its results legally recognised in South African courts.











Our household electricity bill depends on two measurements - the amount measurements - the amount of electrical power our switched-on appliances consume and the length of time our electrical appliances remain switched on.

cake for a family occasion, ingredients have to be either weighed on a kitchen balance or added

by volume, as measured





Thermometer for fever

Products purchased **DB** Board for power consumption

Kitchen scale for baking

Clocks and watches

Colour of Paint

Power in Watts lighting

Water consumption

Frequency measurement

Accurate Measurement in your home

We often buy food in terms volume or weight

Accurate measurements quarantee that we are getting what we pay for and importantly, also help to verify that there are no harmful substances in the food.

lives be like without our clocks and watches? We

- Export Quality Assurance: NMISA ensures food safety, pesticide compliance, and residue analysis for global market access.
- Agricultural Testing: NMISA verifies pesticide residue accuracy to prevent trade disruptions and ensure compliance.
- Gas Standards: NMISA develops oxygen and environmental gas standards for safety and regulation.
- Environmental Monitoring: NMISA detects pollutants in water, soil, and mining sites for compliance and sustainability.
- Manufacturing Support: NMISA enhances quality, reduces waste, and ensures compliance in key industries.
- **Diamond & Mineral Calibration:** NMISA ensures accurate grading and compliance for diamonds and minerals.

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Metrology Services

SMMEs

Government and SOEs

- Gautrain Safety & Reliability: NMISA conducts failure analysis testing on critical components, preventing mechanical failures, ensuring passenger safety, and improving operational efficiency.
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Regulation/ Law Agency

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- Imported Products & Services: NMISA ensures imported medical, electronic, and food products meet national safety and quality standards.

Economic Development

Support for Export and Trade Facilitation

NMISA supported laboratories in over 25 countries through proficiency testing and training.

It contracted services with 8 African countries, enhancing measurement capacity across the continent and promoting intra-Africa trade under AfCFTA.

Agro-processing and Food Exports

NMISA provided certified reference materials (CRMs) and proficiency testing for mycotoxins, pesticides, and other contaminants, supporting food safety and access to international markets.

Green Industrialisation

NMISA conducted benchmark methane emissions measurements, enabling credible GHG data reporting for climate financing and compliance with the Climate Change Act.

Participated in IAEA-backed projects to improve GHG measurement traceability, including methane and CO₂, critical for South Africa's Just Energy Transition and green hydrogen ambitions.

Infrastructure and Industry Support

NMISA assisted sectors such as rail, healthcare, nuclear energy, and mining through failure analysis, materials testing, and measurement traceability—improving product reliability, safety, and export potential.

Collaboration on Critical Minerals

Signed a collaboration agreement with MINTEK to enhance local beneficiation and characterisation of critical minerals, supporting SA's EV battery and precious metals value chains.

Digital Innovation and Efficiency

Developed two new digital solutions, including automation of a calibration system, improving service efficiency and positioning NMISA for industrial digitalisation and modernisation.

Diversification: Expanding South Africa's Industrial Base



Export Growth

NMISA ensures
South African
exports meet
international
standards,
enhancing market
access.



Food Sector

NMISA ensures accurate measurements for food exports, aiding compliance with trade regulations.



SMME Services

NMISA offers affordable metrology services to empower small businesses in compliance.



Energy Standards

NMISA works on standards for hydrogen and battery technologies for new energy markets.





Manufacturing Support

NMISA provides calibration services for industries to ensure precision and compliance.



SEZ Compliance

NMISA supports SEZ industries with measurement services to meet export standards.



Mining Metrology

NMISA develops certified materials for accurate valuation and processing in mining.

KPI 1 - 4: Enhancing Industrial Competitiveness Through Accurate Measurement Standards

Inter-laboratory Comparisons

Enhances quality assurance through international measurement alignment.



SI Base Units

Ensures internationally recognised measurement standards for trade and compliance.



Develops new measurement capabilities for emerging industries.



(F)

Metrological Services Coverage

Provides calibration and measurement capabilities for industry compliance.

KPI 11 & 12: Collaborative Agreements

Partnerships with SEZs and industrial hubs to support manufacturing, localisation, and value chain growth.

Partnerships between NMISA, manufacturers, and government to support quality assurance and industrial growth.

Performance against Targets





NMISA Performance Against Targets Audit Non-conformances In-service Trainees and Interns Turnaround Time (TAT) Staff Turnover Rate

Exceeded expectations for 11 KPI Targets



KPI#	Outcome Indicator	Achievement	Performance	
KPI 2	Percentage of metrological services offered covered by CMCs – 86 %	91 %	TARGET EXCESSED.	
KPI 3	New and improved NMS and reference materials and reference methods - 2	3 (1 Q2, 2 Q3)	THROUGH ENCHERAGE	
KPI 4	ILCs and PTS initiated, Revised KPI - 20	23 (3 Q1, 9 Q3, 11 Q4)	Stanier Excitence	
KPI 12	Client retention (over 2 years) – 70 %	74 %	LAMIN'S ENGLESSES	
KPI 19	New collaboration or service agreements with private, non-profit, or public entities - 2	8	SAMSHET EMCHEDATO	

KPI#	Outcome Indicator	Achievement	Performance	
KPI 7	Percentage of new clients serviced - 5 %	23 %	YAMEN ENERGED	
KPI 13	Percentage of clients served in geographical areas outside main metros – 3 %	30 %		
KPI 20	Percentage of active service/collaboration agreements – ≤ 70 %	80 %	YARRAT FACAYORO	
KPI 8 Maintain visibility of NMISA in South Africa and the region AVE - ≥ R1m SM followers - 2,5 %		R1 634 715.00 7 %	NAMOST SINCERCIED.	

Revenue Target KPI 5 – Target: R 24 679 600 Achieved: R 25 961 869 Diversification of revenue streams KPI 6 — Target: 5% - Achieved: 5.6%

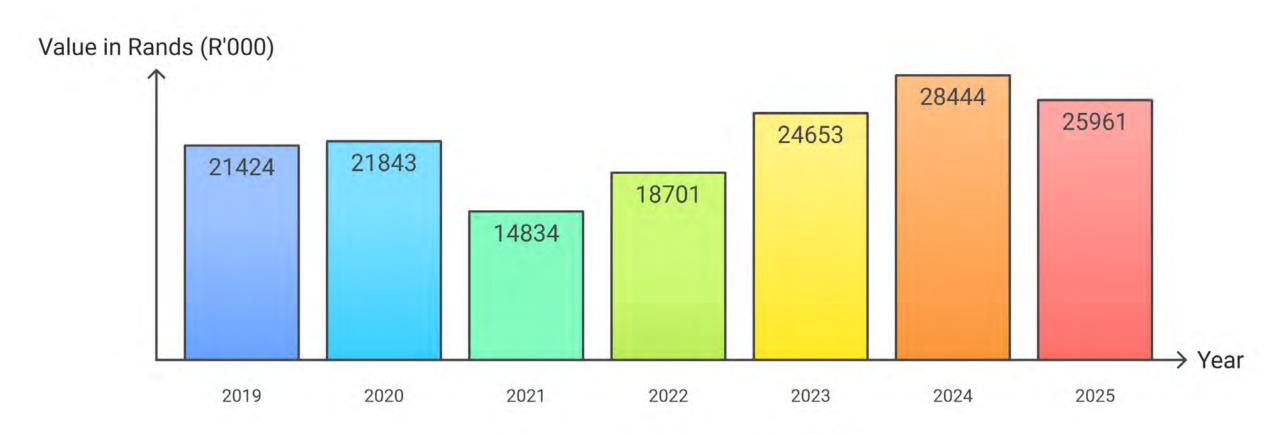
Achievement of 6 Additional KPI Targets



KPI#	Outcome Indicator	Achievement	Performance	
KPI 18	Number of staff leading new external collaborative agreements - 1	1	TRACET MET	
KPI 21	Number of outreaches activities to entities within SEZs and outside main metropolitan areas - 1	1	DMOST HET	
KPI 15	Number of case studies submitted to the dtic - 2	2	EARDETHET	
KPI 1	Annual realisation of 6 base SI units	6	SANGET PROT	
KPI 9	Client Satisfaction Score ≥ 70 % (≥ 3,5 on a 5-point scale)	88 % (4,4 on a 5- point scale)	LANDET MET	
KPI 11	Client satisfaction score for training courses ≥ 70 % (≥ 3,5 on a 5-point scale)	89 % (4,5 on a 5- point scale)	TAMEST MIT	

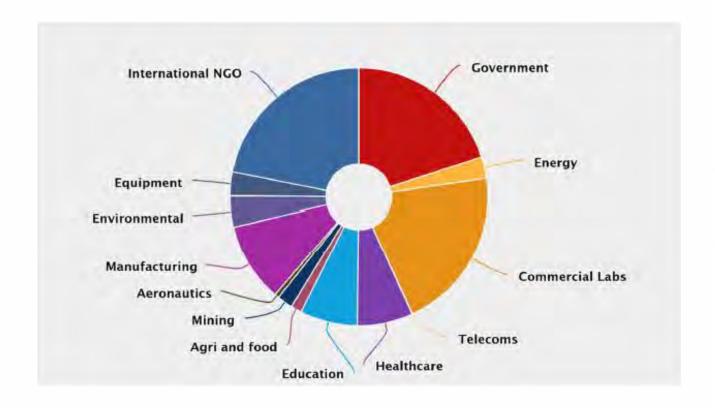
Revenue Figures from 2019 - 2025



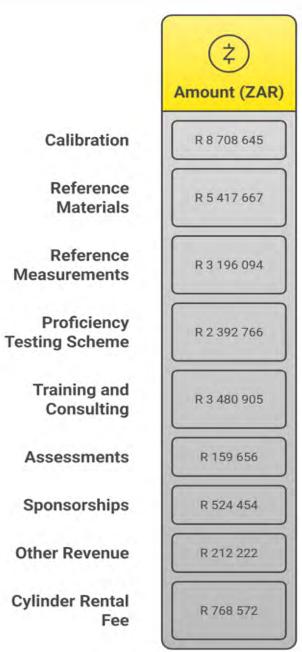


Annual Financial Performance from 2019 to 2025

Sales Performance Metrics









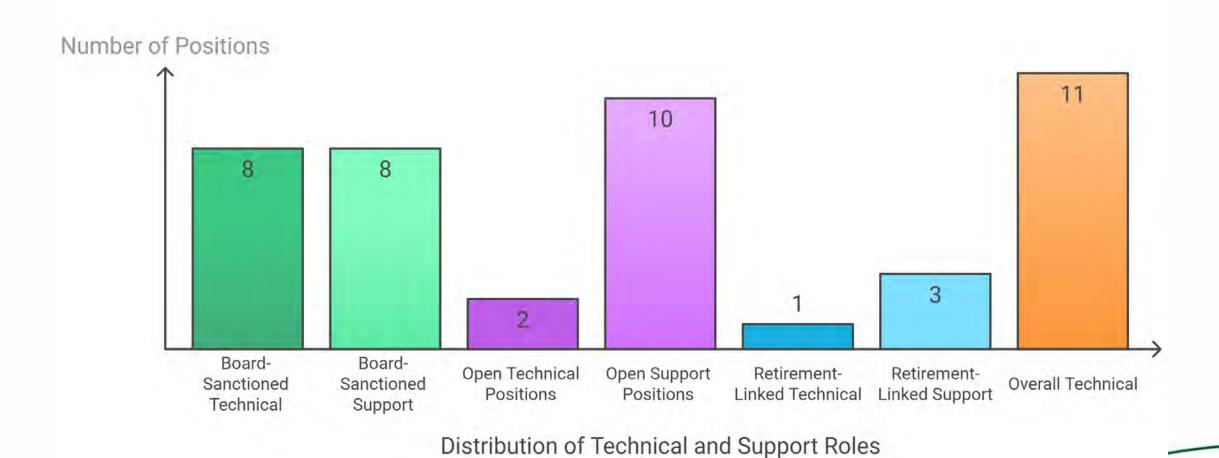
HR KPI Targets vs Achievements



Strategic Objective 4: Develop and retain a capable workforce that is able to utilise world-class infrastructure to deliver specialised and innovative measurement solutions						
Key performance output	Performance Measure or Indicator	Annual Target	Third Quarter Milestone	Actual Achievement	Reason for Variance	Corrective Action
	5					
Develop and retain a capable workforce	Number of Interns and in-service trainees hosted	6	6	(2 interns hosted in Q3	The recruitment process for the 6th intern is still underway after approval was granted in October 2024.	The internship is at the screening stage
				3 interns hosted in Q1)		
	Staff Turnover Rate	≤ 7 %	≤ 7%	16%	16 positions were approved in October 2024. The recruitment process to fill the vacancies is still underway.	11 positions were advertised while five positions are at the advanced stages of the recruitment and selection process.

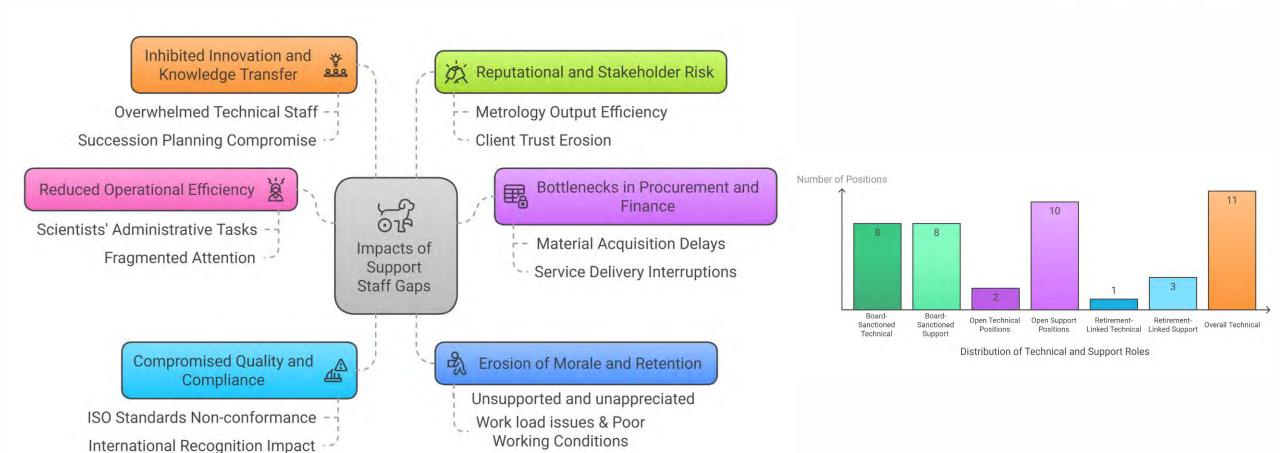
Recruitment status: Staffing Profile & Impact





Recruitment status: Staffing Profile & Impact

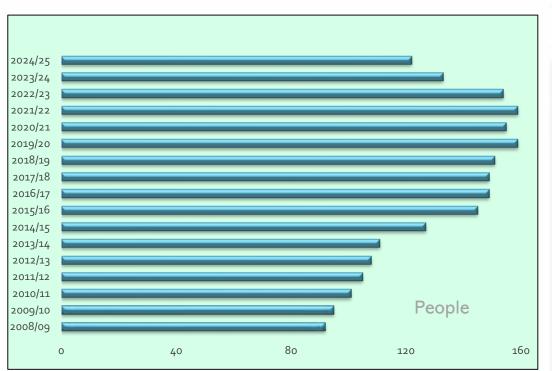


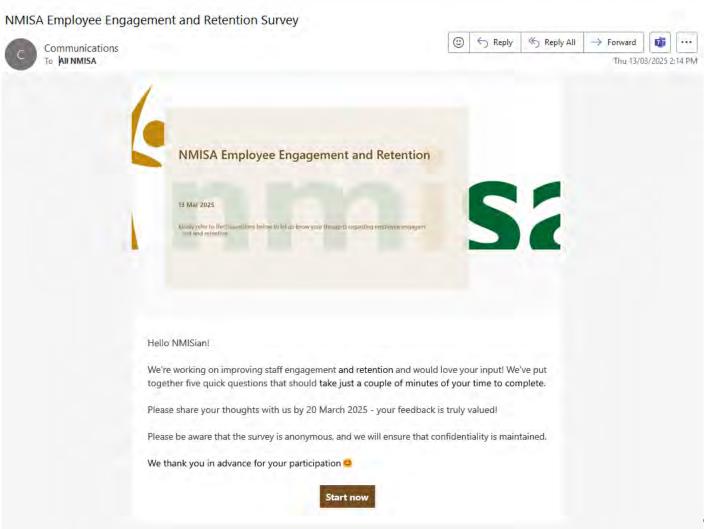


Impacts of Support Staff Gaps on Technical Divisions

Employee Engagement and Retention







Employee Engagement and Retention



Action: Communicate ongoing HR retention strategies. The goal is to enhance engagement beyond monetary incentives, fostering growth, training, and leadership development within NMISA.

Engagement Factors

Identifying key factors that keep employees committed and engaged.

Non-Financial Incentives

Suggesting nonfinancial incentives to boost morale.

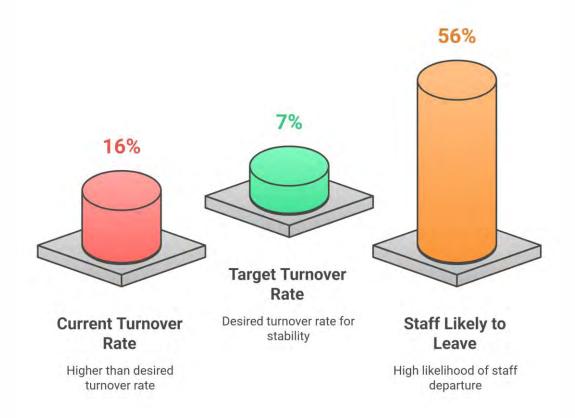
Job Satisfaction Improvements

Proposing changes to enhance job satisfaction and retention.



Staff Turnover and Retention Strategy





Effective Communication

Strategic briefings enhance clarity. Staff meetings EXCO - SMC channel

Limited Monetary Incentives

Flexible work arrangements Improved work-life balance Social interaction

Career Growth Initiatives

*Internal mobility - faster turnaround to filling vacancy. Role-specific growth maps Leadership 360 reviews

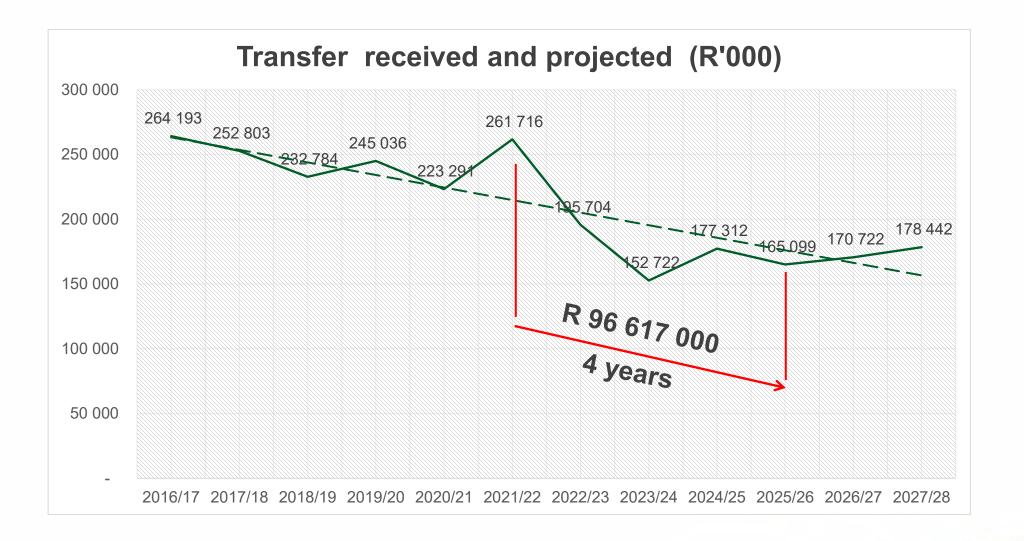


Budget Constraints

Monitor recruitment rate Financial rewards and pay progression? NMISA Salary Bill

Funding Restrictions through Budget Cuts





Leadership and Communication



CSIR Facilities & Rental Updates

Updates on facility management and rental agreements



Leadership Engagement & **Organisational Review**

Improved channels for communication and review of organisational structure



Funding Engagements

Shareholder management and efforts to secure additional grant and resources



SCM & Procurement Updates

Updates on supply chain management and procurement processes

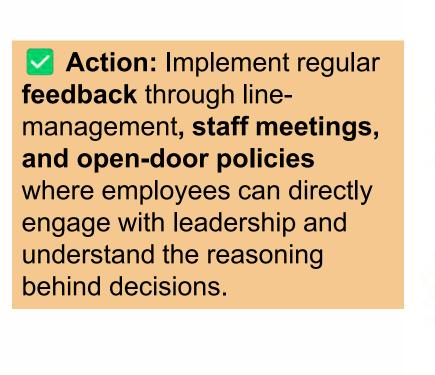


DTIC Strategic Considerations

Strat plan/ APP discussions with the dtic and NMISA alignment



employee pay changes







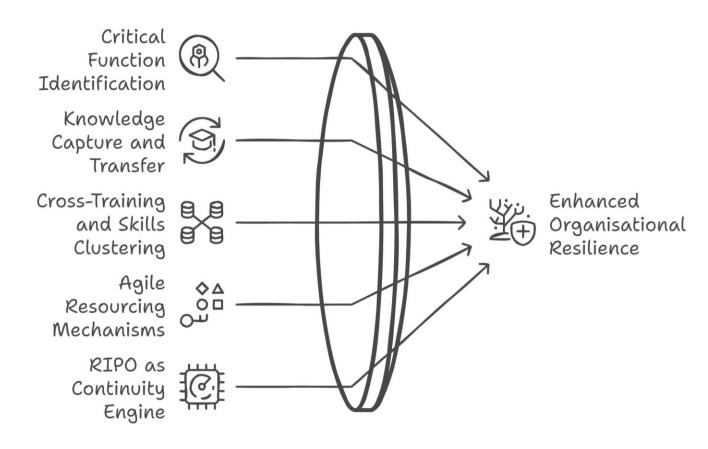
Succession and Continuity Strategy



Traditional succession planning assumes a stable pool of internal candidates being developed over 3-5 years. This model is no longer feasible for NMISA. Instead, we propose a **Continuity Framework** based on the following key pillars:

- Hold signatory authority on national measurement standards (NMS)
- Are required for ISO 17025/17034/17043 compliance
- Serve as single or primary custodians of unique metrology capabilities
- Are responsible for key systems or stakeholder relationships
- Develop modular SOPs and technical records
- Video-record key procedures and training walkthroughs
- Schedule knowledge transfer sessions with outgoing/retiring staff (3–6 months prior)
- Assign technical writers within RIPO to document critical institutional knowledge
- Map roles with overlapping technical competencies
- Formalise team-based responsibilities where individuals back each other up
- Create cross-functional project teams to build institutional memory across units
- Maintain a roster of retired/contractual experts to serve on short-term assignments (6–12 months)
- Fast-track internal appointments using secondments and acting roles for upskilling
- Use targeted HCD bursaries only for high-risk succession gaps aligned to strategy
- RIPO will drive partnerships with academia and international institutes for skills exchanges
- Host a national and regional metrology skills forum to support shared resourcing
- House a digital repository of technical know-how and stakeholder engagements

Building Organisational Resilience



Systemic Pressures: Action Plan Overview

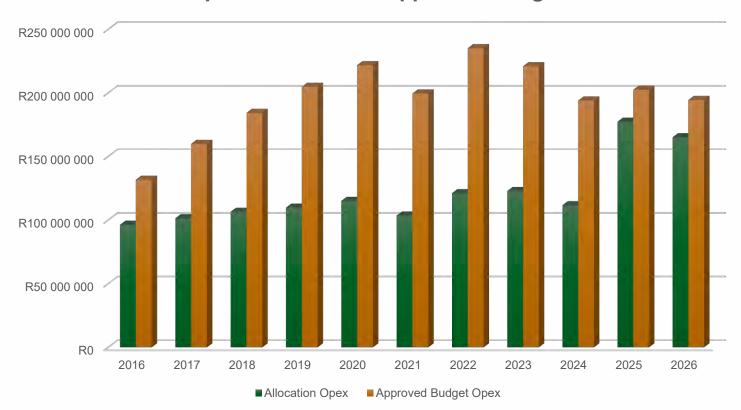


Short-Term (0–3 months):	Medium-Term (3–12 months):	Long-Term (12–24 months):
Finalise organogram aligned to budget	Rebuild EEC and reinitiate internal communication loop	Evaluate succession outcomes against continuity plan
Address exit interview themes in management meetings	Institutionalise retention metrics in performance reporting	Strengthen grievance, feedback, and leadership coaching frameworks
Align EXCO scorecards with HR KPIs	Implement flexible work and wellness pilot	Complete salary benchmarking exercise
Conduct structural risk-based review (roles vs funding) Analysis of continuity plan	Execute EE plan roll-out and track appointments	Launch secondment and mentoring under Training centre
Migrate to digital recruitment and performance tools	Resolve priority ERP/payroll integration issues	

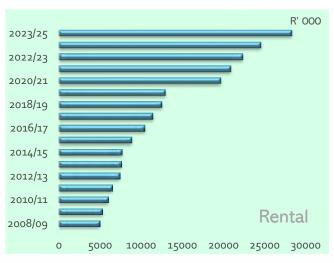
NMISA Financial Constraints

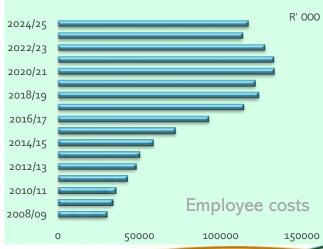


Opex Allocation vs Approved Budget



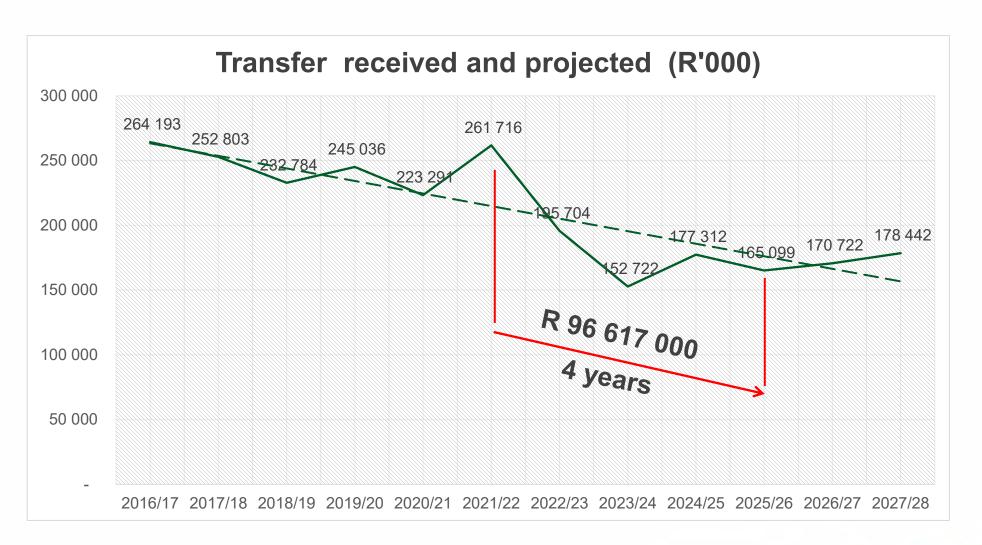
- COE, rentals &Utilities, IT (Fixed Costs) = 85% of budget
- Reduction in budget directly equates to reduction in personnel and scope of services generation revenue





Funding Restrictions through Budget Cuts





Revenue generation based on dtic cuts?

Staff resignations – meant we did not have S189





	Approved Budget	Actual				
Revenue						
External Revenue	24 679 600	25 961 869				
Interest from Investment	4 000 000	8 306 623				
Other Income	0	918 417				
	28 679 600	35 186 909				
Transfer from controlling entity	177 312 000	177 312 000				
Compensation						
Employees	104 081 971	102 019 292				
Gratuity	0	990 000				
Temporary Employees	918 669	2 303 689				
Board Members	700 000	954 680				
	105 700 640	106 267 661				
Operating Expenses						
Total	76 787 253	80 023 375				

NMISA Budget and Expenditure 2025/26



NMISA BUDGET INCOME AND EXPENDITURE 2025/26

Expenditure Allocations	2025/26 BUDGET 2024/25 A PPROVED BUDGET		% change compared to prior year
TOTAL REVENUE	194 387 843	205 991 600	-6%
Total Grant allocated	165 099 000	177 312 000	-7%
Investment Income	6 000 000	4 000 000	50%
Income from rendering of services	23 288 843	24 679 600	-6%
TOTAL EXPENDITURE	(194 387 843)	(205 991 600)	-6%
Operational Expenditure	(75 069 327)	(72 880 414)	3%
Catering, events and meetings	(681 000)	(837 000)	-19%
Chemical, Gas & Consumables	(4 724 809)	(5 256 412)	-10%
IT expenses (incl. software licences)	(11 162 100)	(11 552 000)	-3%
Marketing & advertising	(820 000)	(1 700 000)	-52%
Operating leases	(28 336 912)	(20 304 133)	40%
Repairs and maintenance	(7 220 706)	(7 778 383)	-7%
Technical components	(1 381 100)	(2 360 500)	-41%
Travel related expenses	(1 800 000)	(2 599 536)	-31%
Water & Electricity (CSIR)	(5 900 000)	` '	0%
Other operating expenses	(13 042 700)	(14 592 450)	-11%
Employee related costs	(119 318 516)	(129 611 186)	-8%
Employees costs	(117 278 516)	(127 140 186)	-8%
HCD (training & bursaries)	(990 000)	(1 471 000)	-33%
Performance bonus	-	-	0%
Career Ladder Adjustments	-	-	0%
Casual employees	(300 000)	(300 000)	0%
Board Remuneration	(750 000)	(700 000)	7%
Capital Expenditure (PPP)	-	(3 500 000)	-100%
BUDGET SURPLUS/(DEFICIT)	-	-	0%



Global Metrology Institutes

NIM (China)

Fully State-Funded,

Centralised, Not

combined with ISO

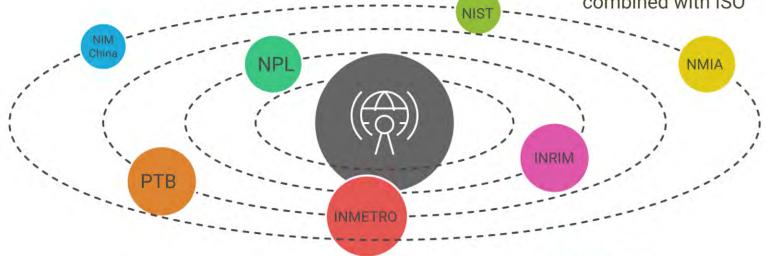


NPL (UK) NIST (USA) marily State- Fully State-Fund

Primarily State-Funded, Decentralised, Not combined with ISO Fully State-Funded, Decentralised, Not combined with ISO

NMI (Australia)

Fully State-Funded, Decentralised, Not combined with ISO



PTB (Germany)

Fully State-Funded, Decentralised, Not combined with ISO

INMETRO (Brazil)

Fully State-Funded, Decentralised, Not combined with ISO

INRIM (Italy)

Fully State-Funded, Decentralised, Not combined with ISO

The Metrology Economic Cycle: Multiplier Effect



Expand Metrology Services

DTIC invests in NMISA to expand its metrology services.

Reinvest in NMISA

Increased business activities generate more revenue and taxes which fund further metrology investment.

Economic Growth

Economic growth leads to higher employment, wages, and consumer spending.

Support Private Labs

Private calibration labs benefit from the decentralised services, allowing them to serve more of industry needs.

Industry Calibration

Industry relies on calibrated instruments for quality control, boosting productivity and exports.

INRIM (Italy)

NMI (Australia)

Fully State-Funded,

Decentralised, Not combined with ISO

INMETRO (Brazil)
Fully State-Funded,
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Boost GDP

With improved metrology, industry improves efficiency, reduces waste, and increases output.



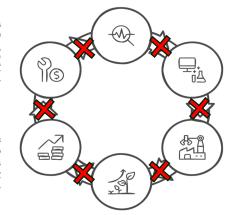
Unsustainability due to Funding Restrictions

Transfer received and projected (R'000)





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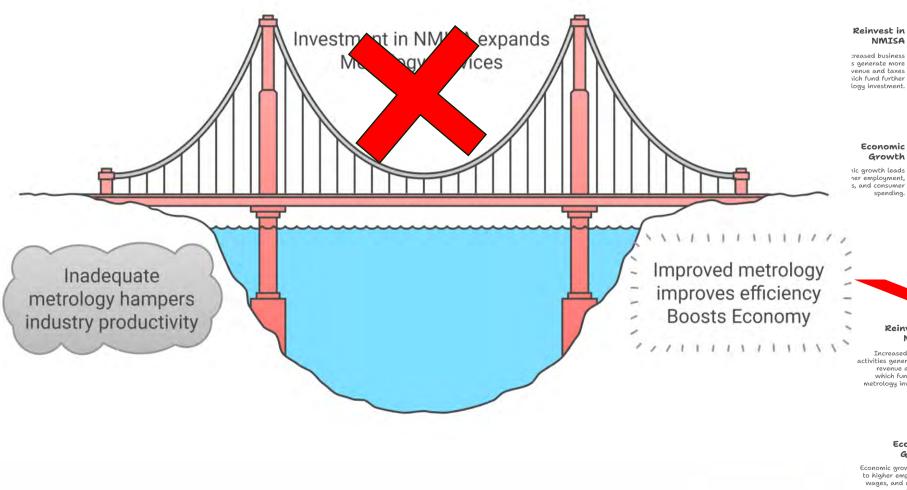
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Government

and SOEs



SMMEs

VILS

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 - Imported Products & Services: NMISA ensures imported medical, electronic, and food products meet national safety and quality standards.

DTIC Support and Collaboration: Short Term

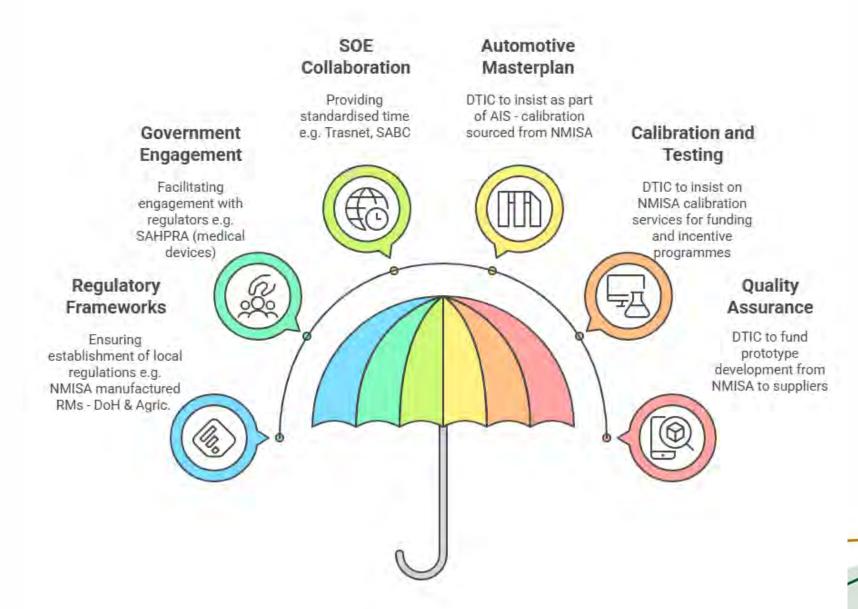


Strategic Initiatives and Support



DTIC Support and Collaboration: Medium to Long Term



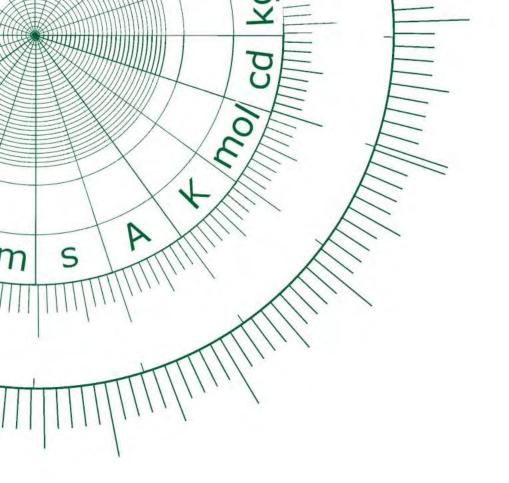


National Treasury Support





- Funding of NMISA operations
 - 2025/26 R20m increasing R10m over the next 5 years.
- NT to dynamic budgeting processes and non-aligned delivery processes.
- Support in procurement for services where NMISA is a sole supplier (municipalities paying 5x the price for subcontracting to NMISA)
- NT to advocate for Quality Infrastructure expanding to more than SABS and SANAS.
- Funded NMISA involvement in large scale NT Tenders dependant on measurement capabilities
 - E.g. DOH medical gas requirements.
 Testing and assurance of purity levels procured.





Thank You

We measure what matters