

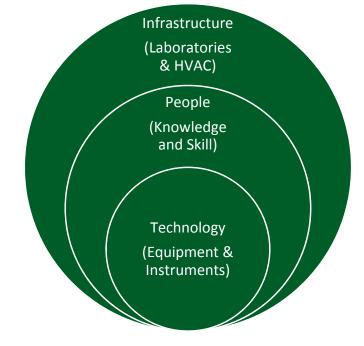
Section 3A Public Entity

Measurement Units and Measurement Standards Act, No 18 of 2006 (The Measurement Act)



NMISA Maintains measurement equivalence with the global system of measurements as a foundation of all measurements performed in South Africa

The complete view of NMS



Housed at the CSIR campus since 1950s, the buildings have reached their technical limit of modification



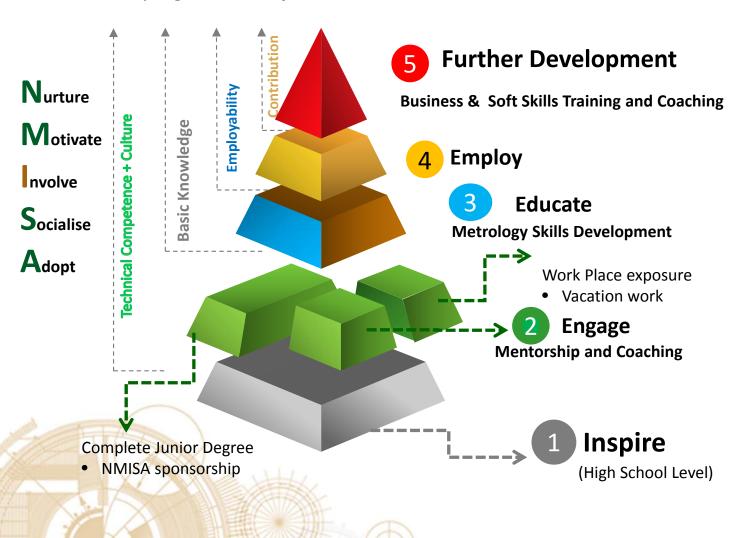
History of the NMISA

1947	The forerunner of the CSIR National Metrology Laboratory (NML) is formed
1957	The NML occupies building 4 and 5 on the new Scientia campus, so our buildings are 60 years old!
2006	The Measurement Units and Measurement Standards Act, no. 18 of 2006, is promulgated. It establishes the NMISA
2007	On 1 May NMISA officially starts business. The entity is transferred as a going concern from CSIR
2010	NMISA Management motivates to the dti that a recapitalisation of its facilities is urgently needed
2011	With the blessing of the dti , a motivation is prepared for additional CAPEX over the MTEF period (and beyond). It is successful and a dedicated Grant for Recapitalisation is published
THE WILL A	nmisa

National Metrology Institute of South Africa

NMISA HCD Programme

- Developing work ready graduates to address the Measurement Skills shortage
- Developing Future Experts and Leaders







The Building

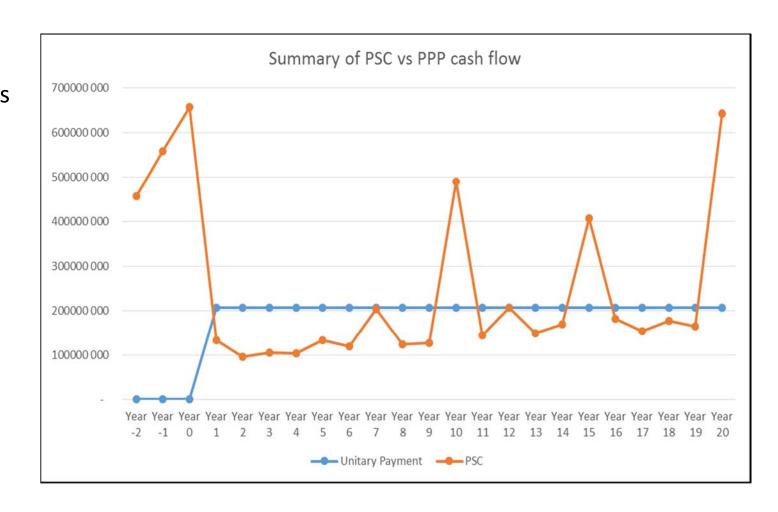
Description	Size
Laboratories	8 943sqm
Offices	3 824sqm
Meeting rooms (incl. café + auditorium)	1 590sqm
GFA (Gross Floor Area)	14 357sqm
Services (incl. plant + circulation + ablutions)	15 840sqm
TFA (Total Floor Area)	30 197sqm





Metrology Equipment Replacement

Yellow - represents
the cumulative
expenditure over
the life of the
project.
Grey - Metrology
equipment
Orange - Lifecycle
maintenance
Blue - Operating
costs





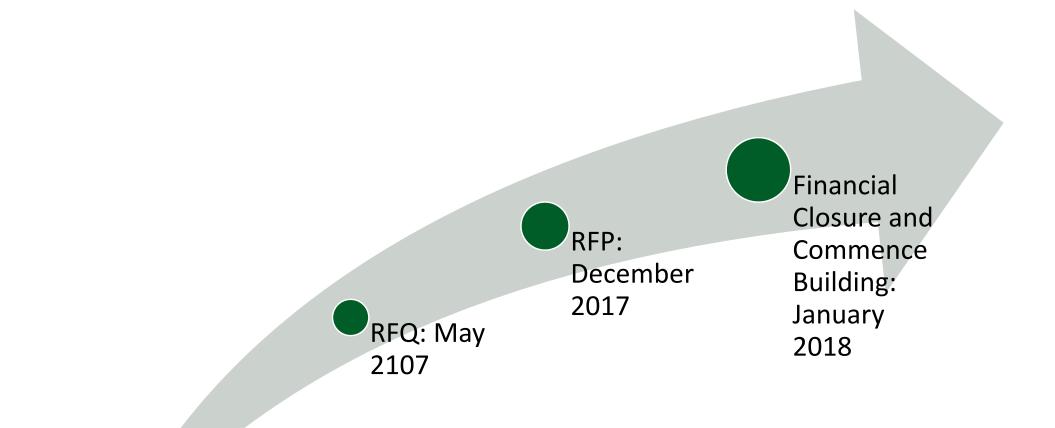


Competing Interests!





Envisaged Timeline







Metrology Impacts Every Sphere of Society



Petroleum & Mining Industry



Chemical Industry



Plastics & packaging



Locomotives and Large Passenger Vehicles



Pharmaceutical Industry



Quality of life



Produce





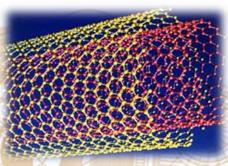
Food sector



Air pollution



Environmental



Nanotechnology NMISA @ Copyright 2016



CFTA developments

- 54 Countries
- > 1 billion population
- •>\$ 3.4 trillion market opportunity

The Tripartite free trade area project will be a post mortem case if the implementers do not take into account the important role of the QI during the early stages of implementation.

Paul Date at AFRIMETS GA meeting, Johannesburg, July 2015



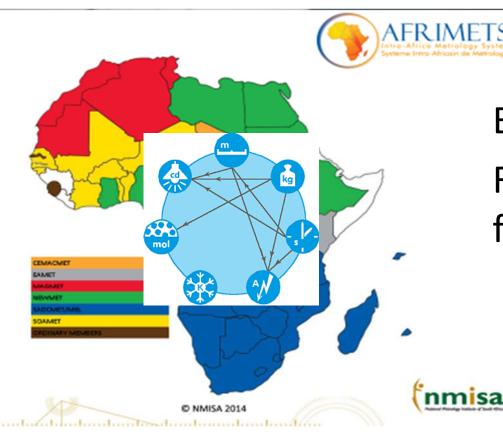
Why Does Africa need Traceability?

Almost 30% of this food will be required in Africa with implications on trade growth and an increased focus on food and feed safety









Example:

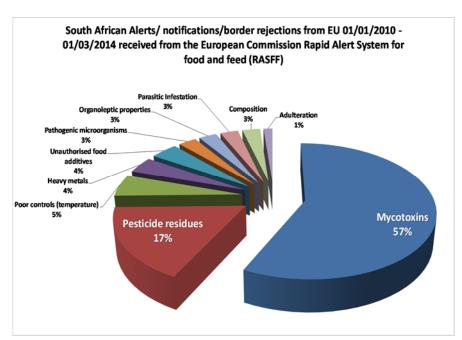
Reference material production for RSA and region (AFFRMP)

- Feed and Food
- Drug reference material for law enforcement

'Shortening the Traceability Chain for Africa' ShoTCAf



Lower-income countries are losing about 14% of their agrifood exports to non-compliance with SPS measures, **SADC** is losing up to R3,5 milliard a year in export trade *2011 figures





SA need to import 3,8 million tonnes of maize in 2016, 2 recent consignments of 30 000+ tonnes rejected for mycotoxins





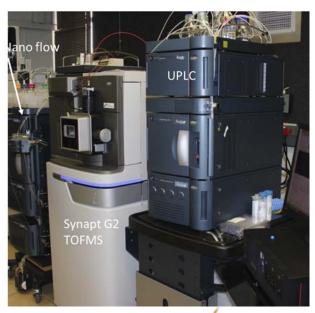
RSA imports app. R10 to R20 million high level CRMs p/a for accurate mycotoxin and pesticide analysis, estimated imports of all CRMs R100 –R150 million



NMISA started an African Food and Feed Reference Material Programme to:

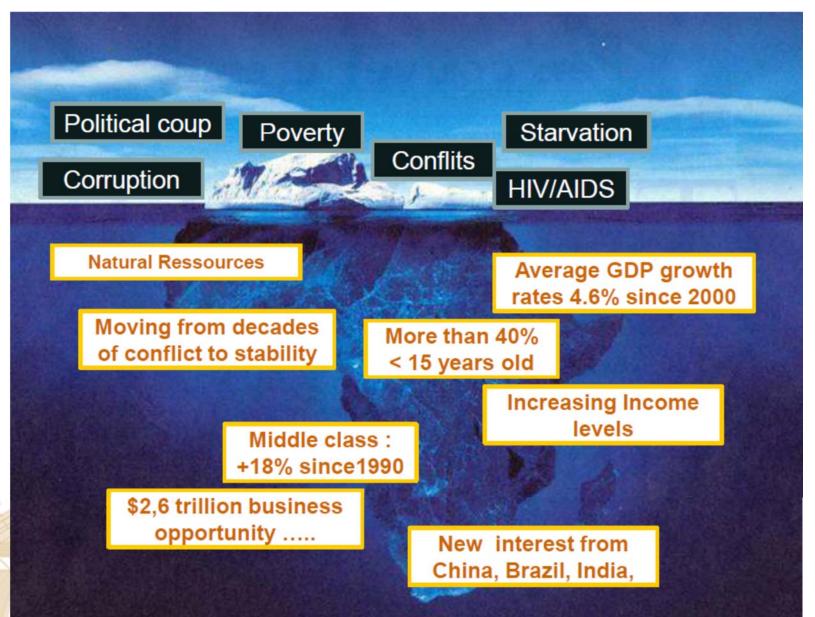
- ➤ Replace Imports of CRMs
- Provide African specific matrix reference materials

The programme setup costs are app. R100 million





Let's unlock the hidden potential





2017 Focus on Africa

- Africa Year of Quality
- NMISA 70/10 Year Celebration

