



# EE LABELLING



## MINIMUM ENERGY PERFORMANCE (MEPS) STANDARDS & LABELLING WORKSHOP

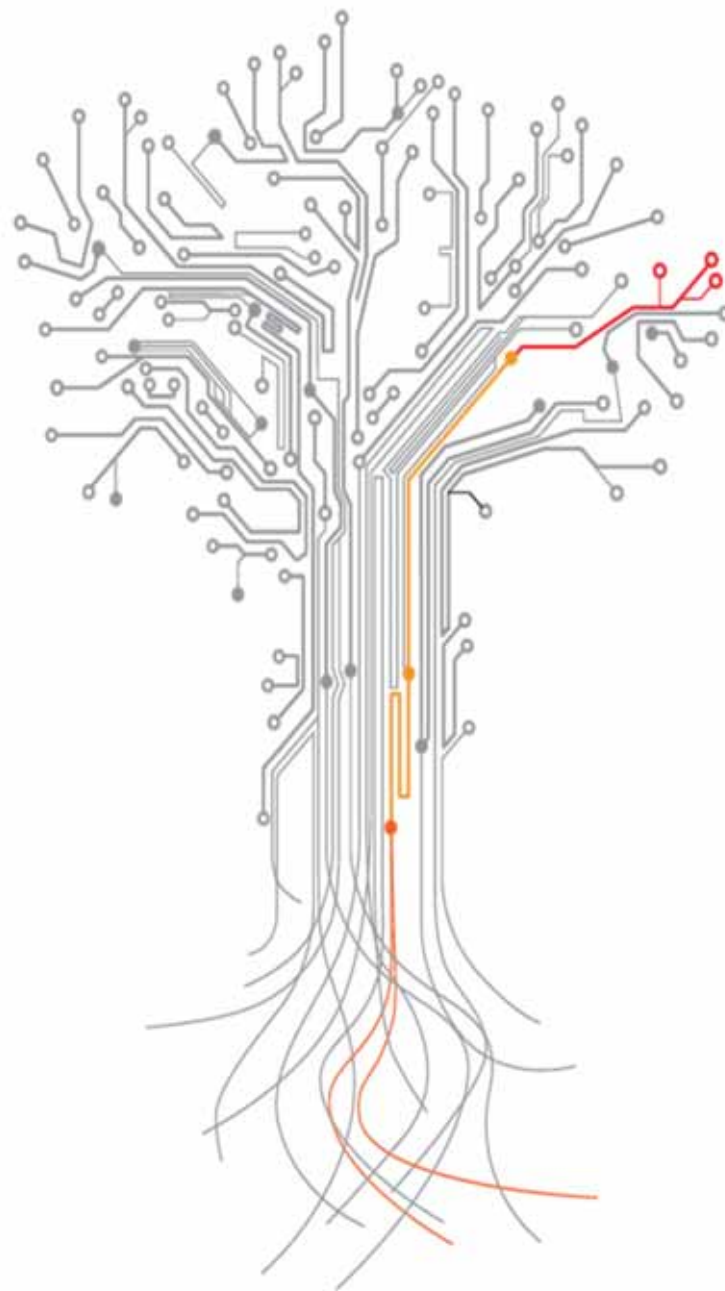
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# SABS Mandate

The South African Bureau of Standards (SABS) is a statutory body that was established in 1945 in accordance with the Standards Act, 1945 (Act No.24 of 1945) and continues to operate under the mandate as given in the Standards Act, 2008 (Act 8 of 2008) as the national standardisation institution in South Africa



## **Develop, promote and maintain South African National Standards**

- To promote access to markets
- To advance socio-economic wellbeing of SA in a global economy



## **Promote quality in connection with commodities , products & services**

- Localisation of production in support of government's Industrial Policy Action Plan (IPAP)



## **Render conformity assessment services and assist in matters connected therewith**

- Facilitate access of markets for SA industries – improving their competitiveness in global environment

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# Mission | Vision | Values

## MISSION



- SABS provides standards and conformity assessment services to enable the efficient functioning of the economy.

## VISION



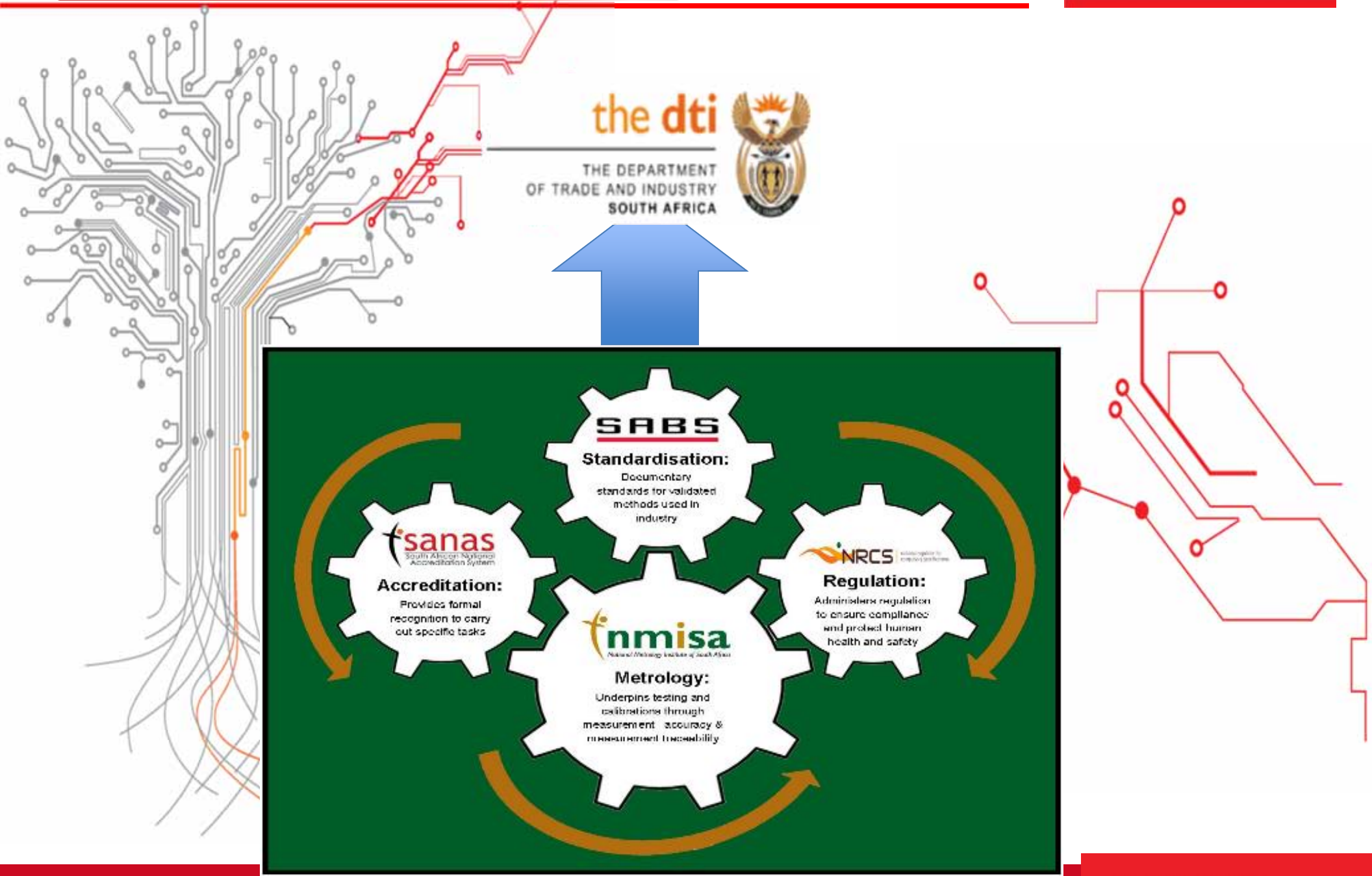
- To be the trusted standardization and quality assurance provider of choice.

## CORE VALUES

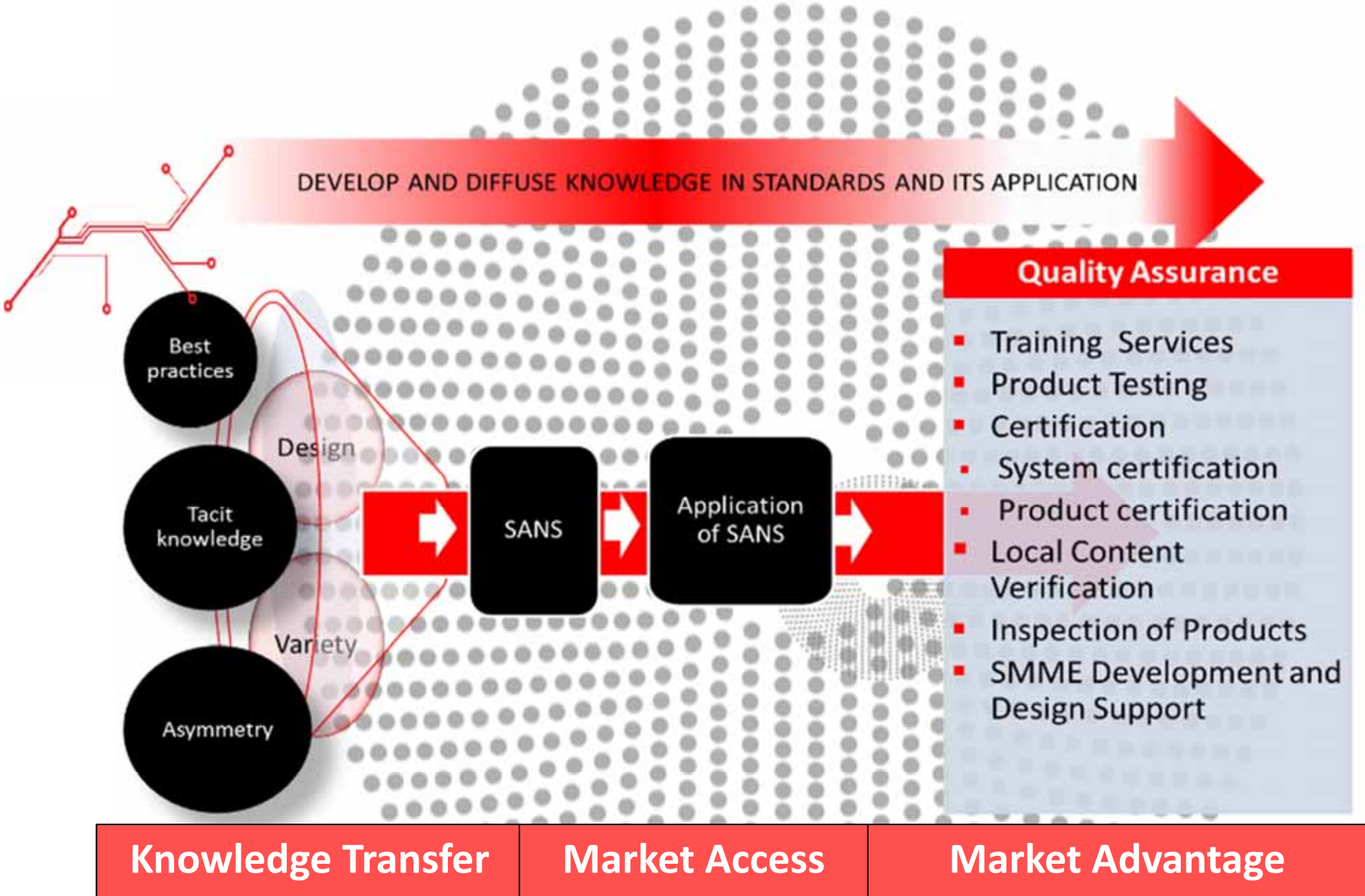


- Impartiality
- Innovation
- Accountability
- Integrity
- Quality
- Customer Centricity

# Affiliation with DTI



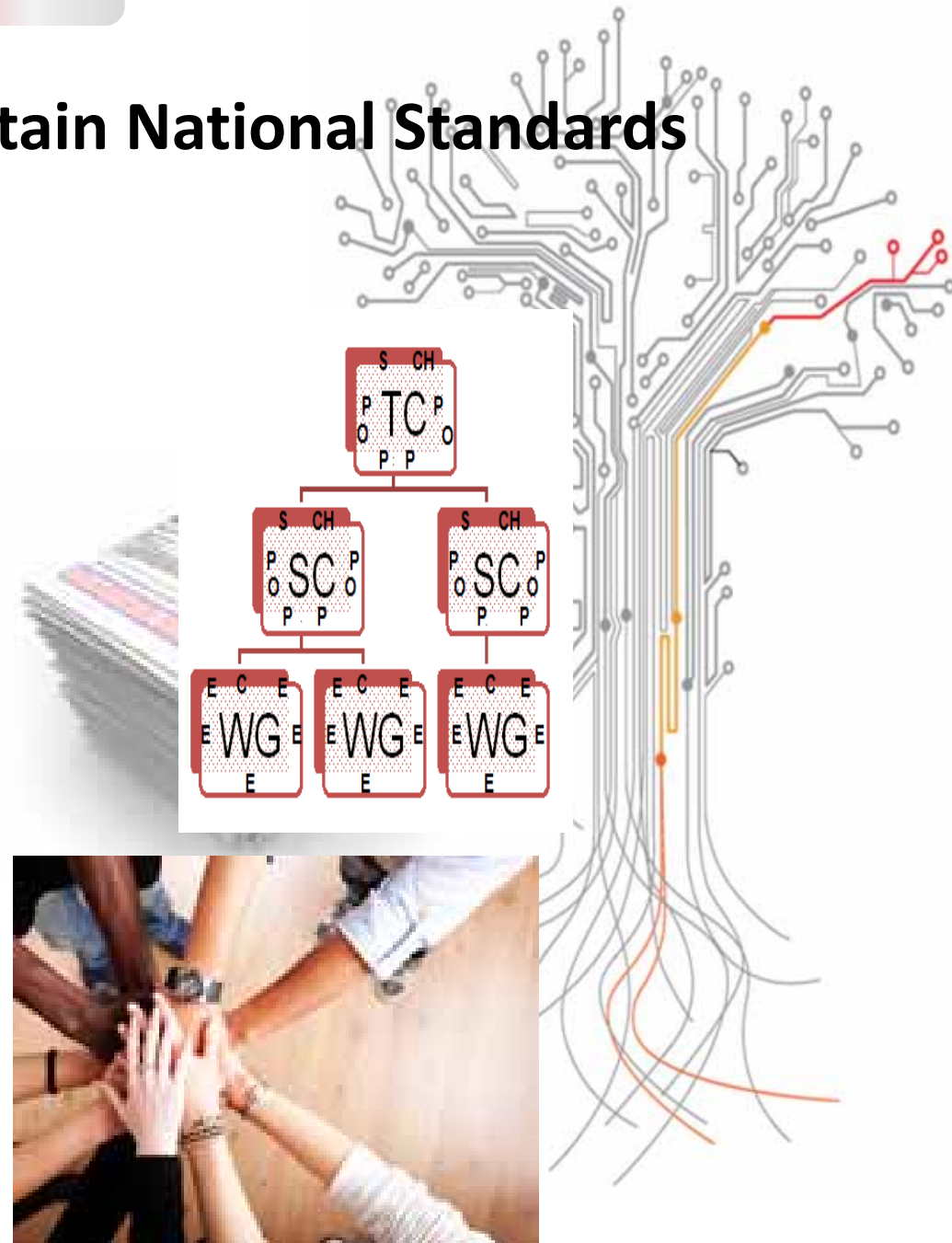
# SABS Value Chain



# Standards Development

## Develop, Promote and Maintain National Standards

- Stakeholder driven process
- Governance process
- Alignment to ISO and IEC progra
- Periodic Reviews
  - Reaffirmations
  - Withdrawal
  - Amendments
  - Revisions

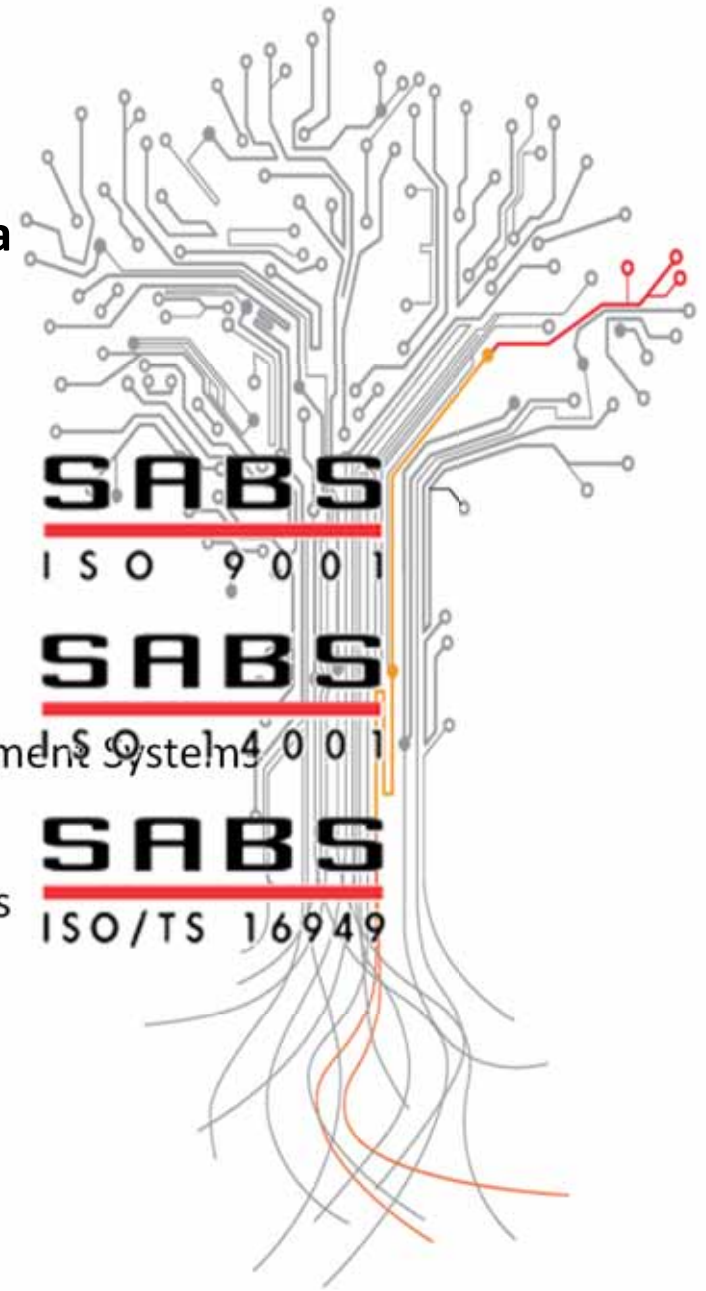


# Certification

## Management Systems Certification

Provides assurance on the effectiveness and validity of a clients management system in terms of quality, safety and good governance

- ISO 9001 – Quality Management Systems
- ISO 14001 – Environmental Management Systems
- OHSAS 18001 – Occupational, Health and Safety Management Systems
- ISO 50001 – Energy Management System
- ISO/TS 16949 – Automotive Quality Management Systems
- ISO 22001 – Food Management Systems
- ISO 27001 – IT Management Systems



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## Local Content Verification

1

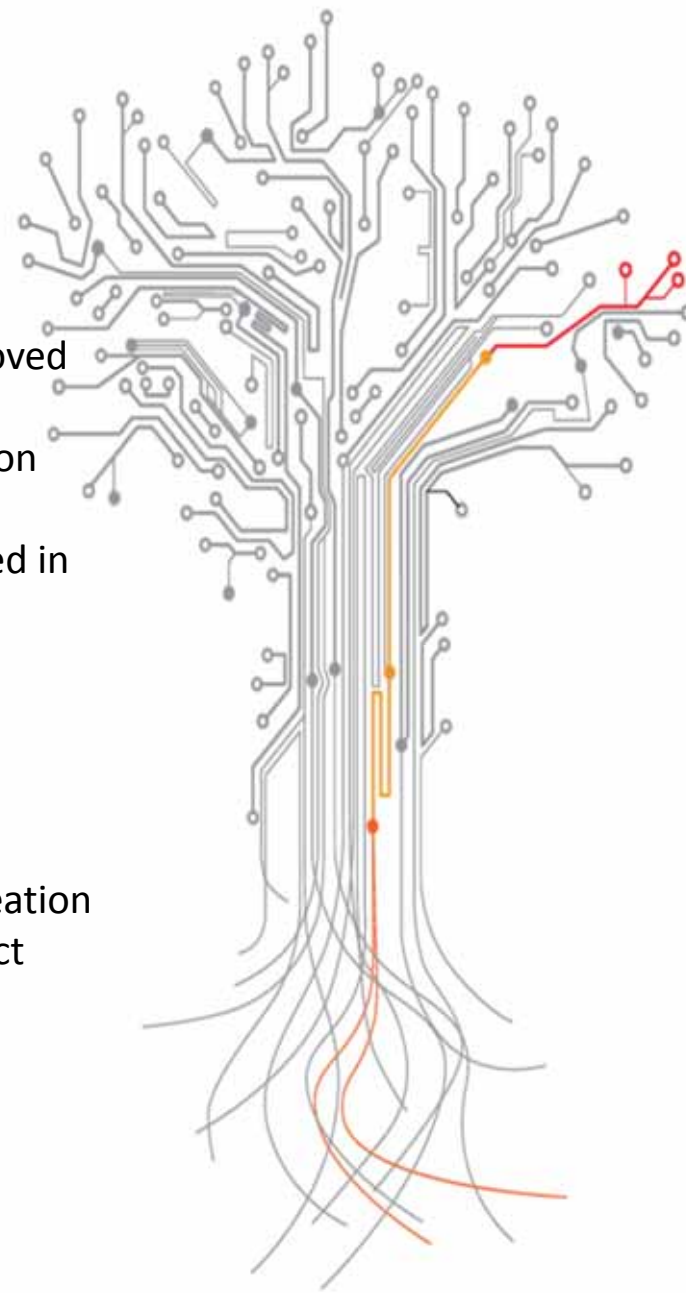
### Background

- Local content technical specification approved in 2011 (SATS 1286)
- SABS appointed as local content verification agency by **the dti** in September 2012
- Local Content Verification office established and capacitated in 2013

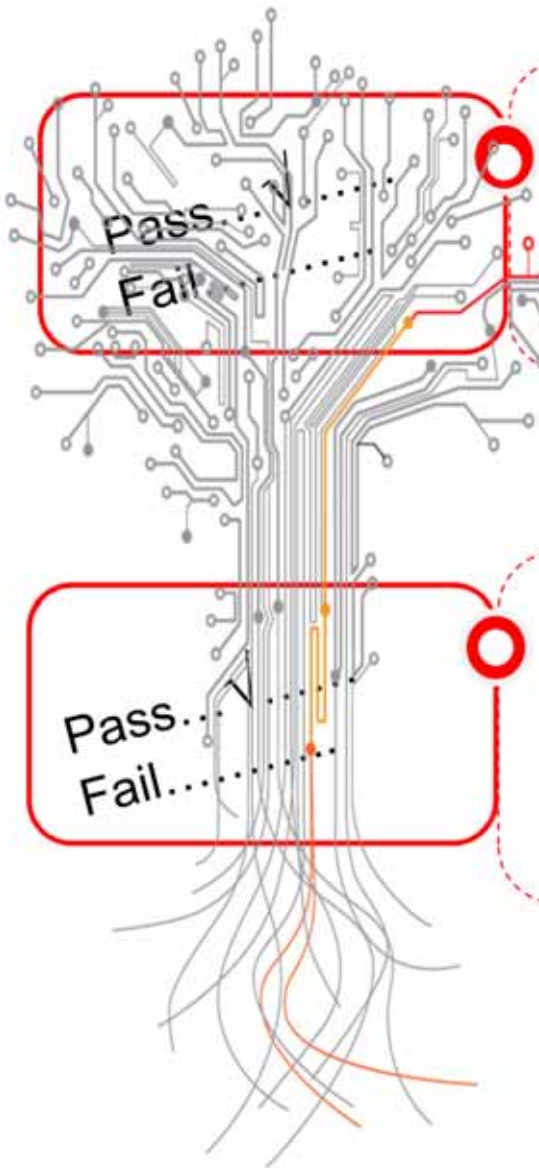
2

### Objectives

- Supporting economic growth and job creation
- Attracting new investments, foreign direct investment in particular
- Leveraging public expenditure



# SABS Product Certification Mark Scheme



SABS attests and audits client's processes and products to ensure compliance with predetermined product specifications. Products are regularly sampled and submitted for compliance testing against the standards.

## The SABS Mark means the following:

- Fit for purpose
- Redress
- Safe for use

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# Testing

## SABS Testing Services

Testing services are offered by > 80 Laboratories spread over a number of clusters:

- **Automotive and Mechanical Engineering**
- **Chemical & Bio (Food)**
- **Electro-technical Engineering**
- **Mining & Minerals**

# Testing (SABS Laboratories)

- Performance
- Safety
- Health
- Environment
- Endurance
- Calibrations



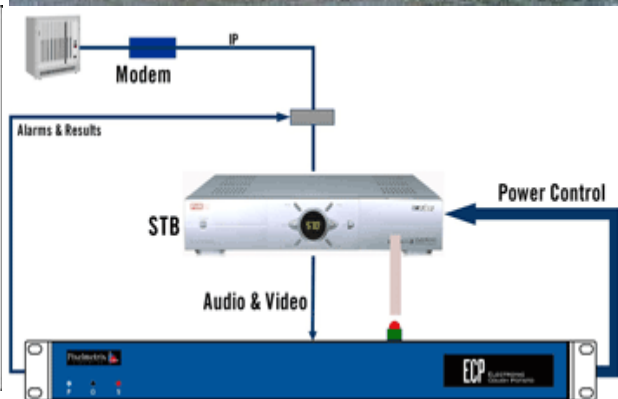
# SABS Electro-Technical

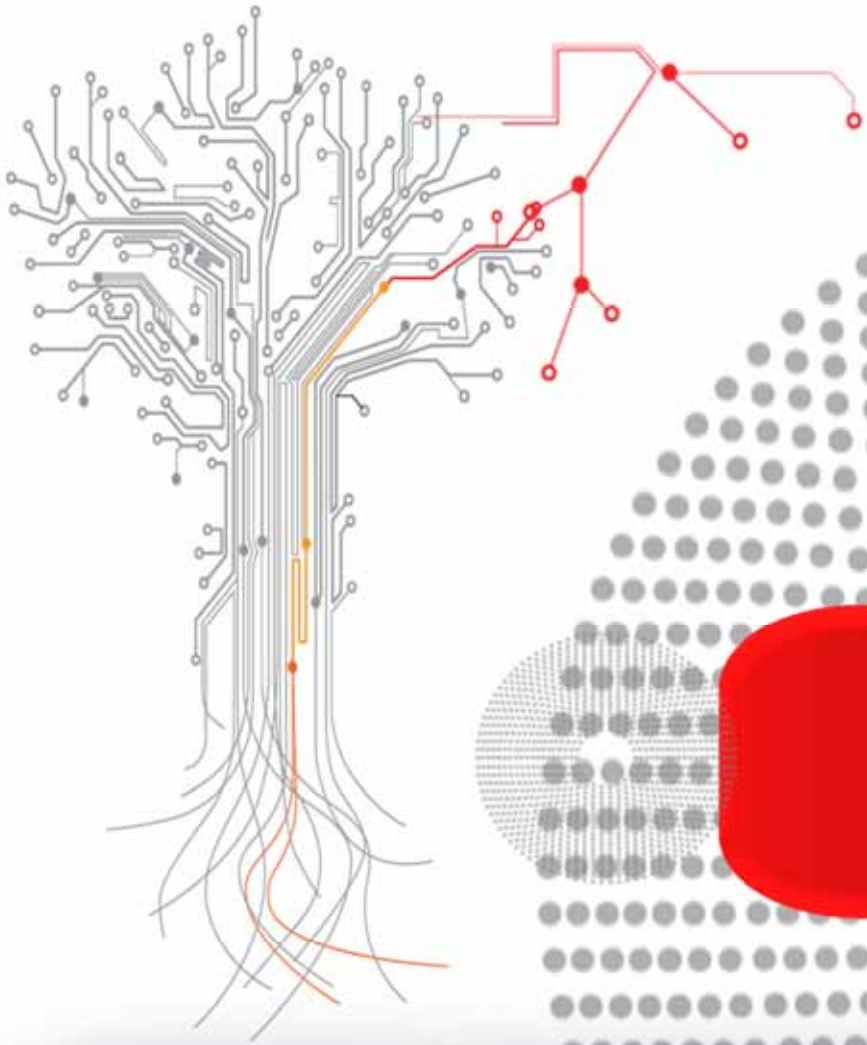


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# Future Testing





# EE Labelling Project



# Introduction

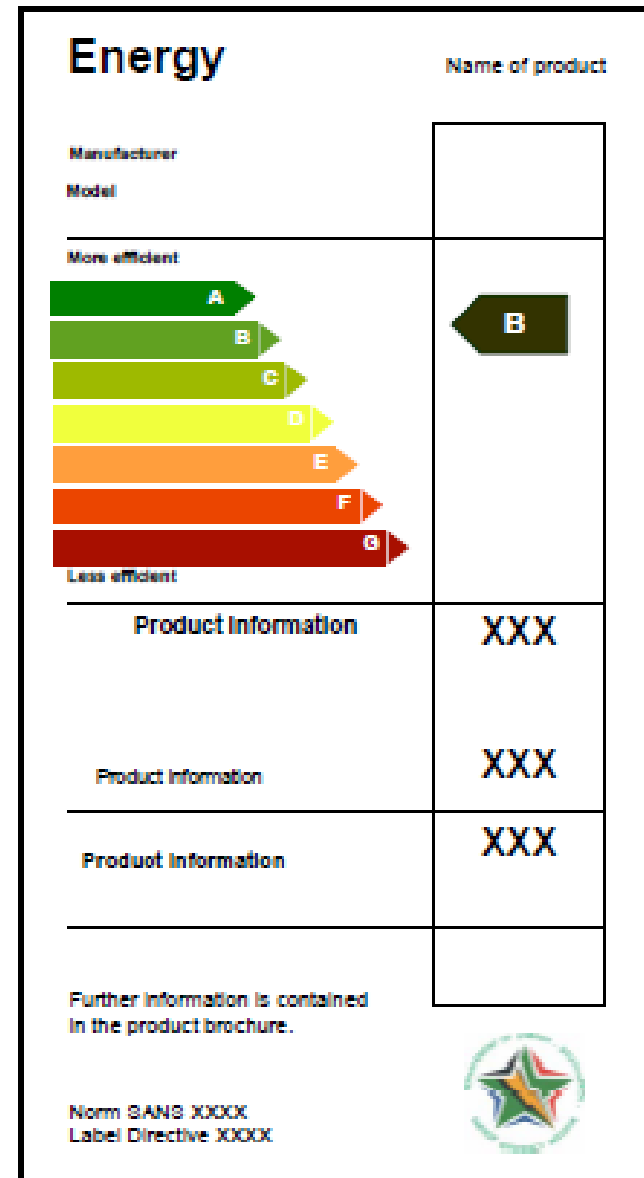
- The South African Government aims to implement a programme which will phase out the use of inefficient residential appliances over the next few years.
- This will be done through:
  - A mandatory requirement for Appliance Labelling and
  - Enforcement of Minimum Energy Performance Standards (MEPS) for selected appliances.
- Enforcement of the MEPS by means of import control as well as market surveillance is the responsibility of the National Regulator of Compulsory Specifications (NRCS). A compulsory specification that references SANS 941 has been published. This is VC 9008.



# Introduction (cont.)

- An example of the Energy Efficiency Label as depicted in SANS 941.
- The versions of the label differ between appliances since these also have specific performance characteristics that are of importance to consumers, such as “how effectively does the washing machine clean the clothes?”.

Figure A.1 — A typical energy efficiency label



# SABS Component

**The objective of SABS component of the energy efficiency labelling project is to:**

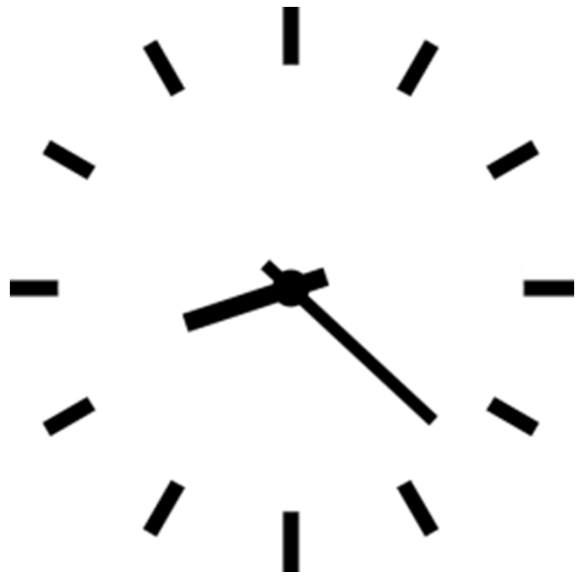
- Establish national standards for the testing of the energy efficiency performance of selected appliances, namely
  - Domestic refrigerators (fridges, freezers and combos),
  - Washing machines (top and front load),
  - Tumble driers,
  - Combined washer-dryers,
  - Room air conditioners,
  - Dishwashers,
  - Ovens, and
  - Audio-Video equipment (standby power consumption)
- Upgrade the SABS laboratories with the equipment and procedures necessary to test these appliances
- Achieve SANAS accreditation for such testing capability

# Standards and Regulations

- SANS 941 Ed. 1 was published in February 2012
- SANS 941 references IEC standards that in turn refer to the energy usage requirements in EN standards that are harmonized with the European Directives for energy efficiency.
- Standards referenced by SANS 941 have been updated through adoption of recent versions of the IEC and EN standards for household appliances.
- SANS 941 is referenced by the VC 9008 “*Compulsory specification for energy efficiency and labelling of electrical and electronic apparatus*” gazetted by the NRCS on 28 Nov. 2014.
  - audio, video and related equipment – comply within 6 months.
  - electric ovens, refrigerators, freezers, dishwashers, tumble dryers, washer-dryer combinations and washing machines – comply within 9 months.
  - air conditioners and heat pumps – comply within 18 months

## SABS Laboratory Status

- SABS Appliances laboratory is currently accredited for:
  - safety of electrical equipment and appliances,
  - safety and performance of hot water storage heaters
- SABS Lighting lab is accredited for safety and performance of energy saving lights
- SABS Electronics laboratory is accredited for testing audio, video and related equipment for standby power consumption
- SABS Alternative energy & Fluid dynamics laboratory is accredited for testing of heat pumps and solar water heaters
- The Laboratory is on target for the set date of projection completion



Q & A time

