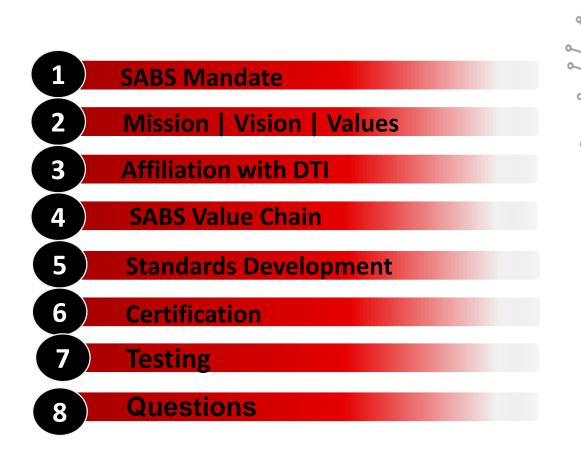
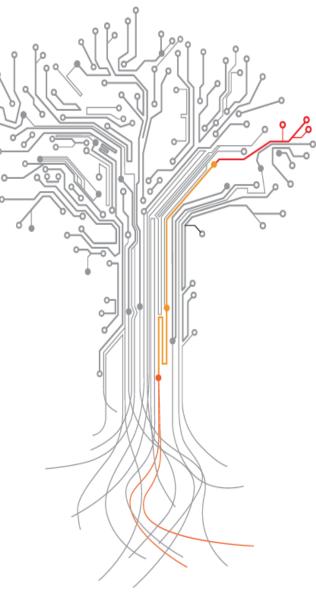
4th Meeting of BRICS Solid State Lighting
Collaboration Working Group.
Hangzhou China (19-24 June 2017)





CONTENT





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

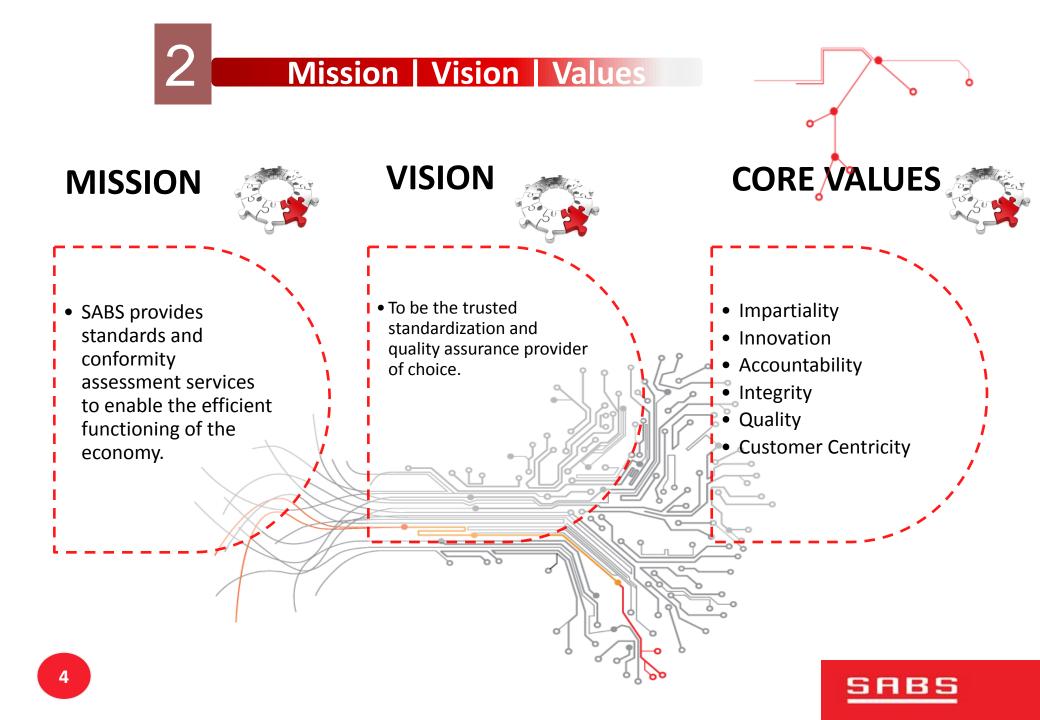
 Localisation of production in support of government's Industrial Policy Action Plan (IPAP)



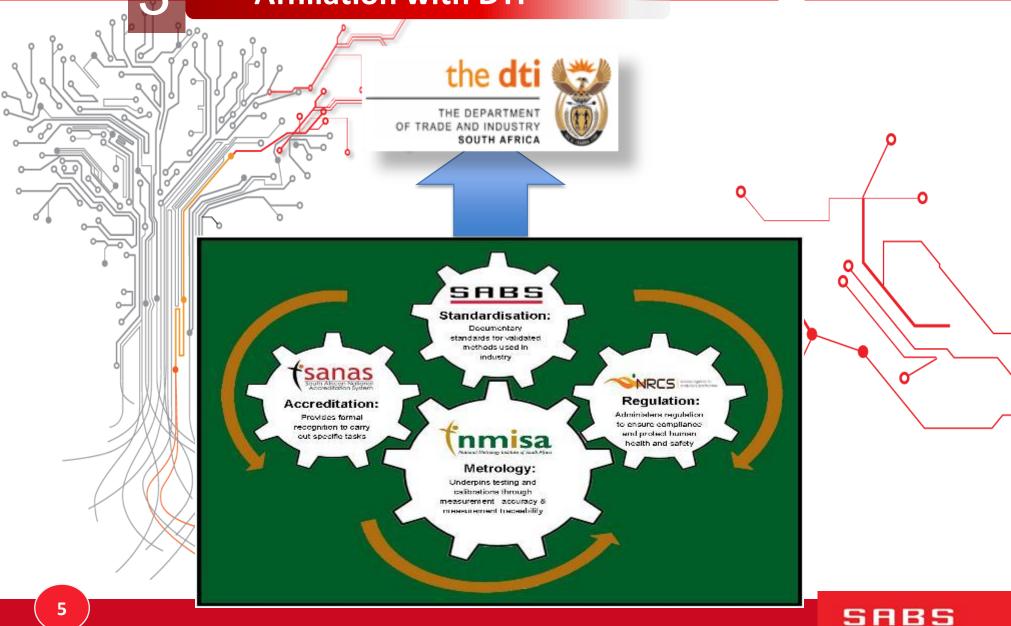
Render conformity assessment services and assist in matters connected therewith

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



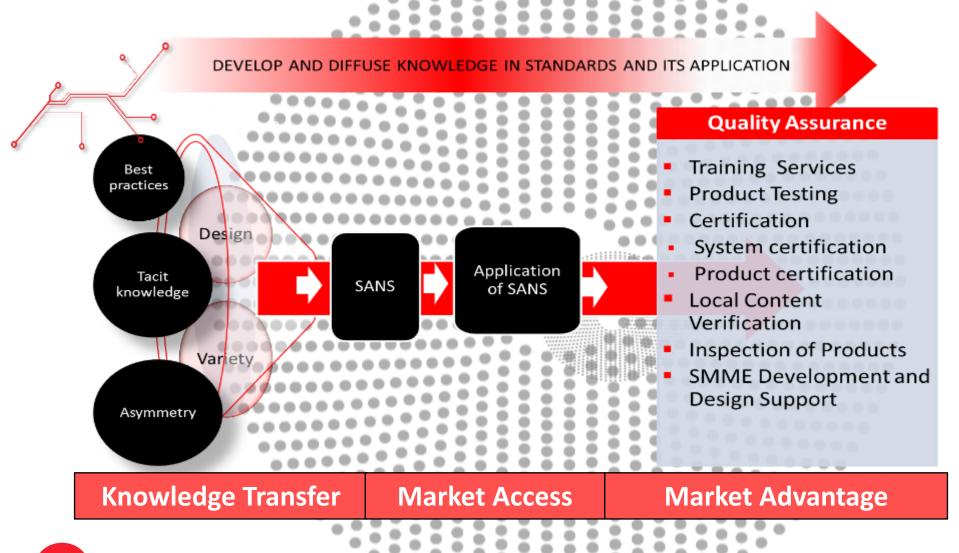


Affiliation with DTI



SABS

SABS Value Chain



SABS

STANDARDS DEVELOPMENT

Standards Development

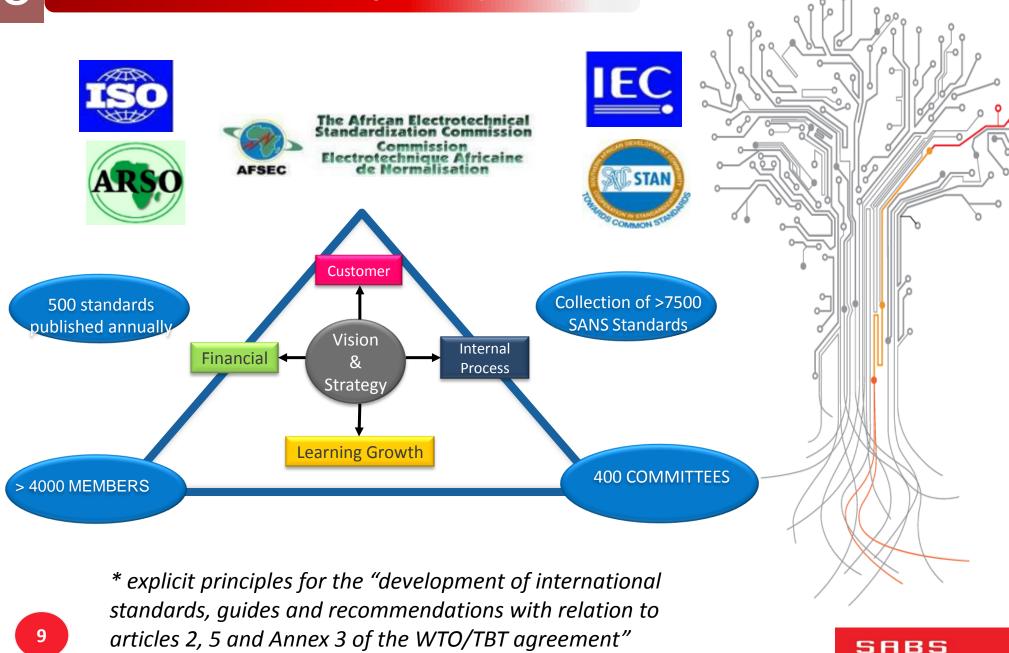
Develop, Promote and Maintain National Standards

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



8

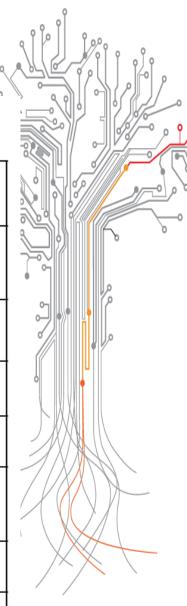






STANDARDS DEVELOPMENT PROCESS

	Project stage	Name of document	Action required by P-member	Approximate Turn around times
Step 1	Preliminary stage	Preliminary work item (potential new work)	Maybe comment	1 month
Step 2	Proposal stage	New work item proposal	Vote & Comment	3 plus 2 weeks
Step 3	Preparatory stage	Working draft (s) (WD)	Comment	6 months
Step 4	Committee stage	Committee draft (CD)	Vote & Comment	6 months
Step 5	Public enquiry stage	Draft South African Standard (DSS)	For public commenting	3 months
Step 6	Ratification stage	Draft for ratification		
Step 7	Publication stage	South African Standard		



SABS

5

Standards Development (Cont)..

MAINTENANCE OF PUBLICATIONS

Committee

- Constant review of stakeholder representation
- Review of policy statement/business plan
- Standards
 - Periodic reviews
 - Reaffirmation
 - Withdrawal
 - Amendments
 - Revisions

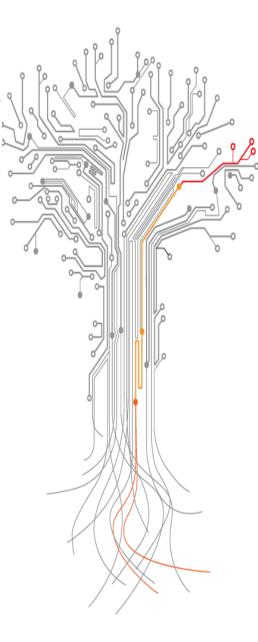






NATIONAL COMMITTEE

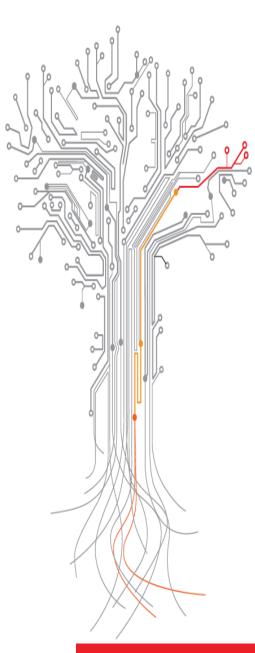
Committee				
Number	SABS TC 064	SABS TC 064-01	SABS TC 064-02	Total
Tittle	Lighting and Optics	Lamps/Light Sources and auxiliaries	Luminaires	
Liaisons	IEC TC 3 4 ISO TC 145 / SC 2	IEC SC 34A-Lamps SC34B-Lampholders SC34 C-Auxiliaries	IEC TC 34D-Luminairs CIE(Divisions)	
Total	12	101	44	157
Home-grown	11	16	18	45
International/ Regional	1 (ISO)	1 (EN) 83(IEC)	2 (CIE) 25 (IEC)	112



SABS

AVAILABLE STANDARDS AND INTERNATIONAL RELATEDNESS

Document	South Africa standard	International standard	Tittle	Relatedness
60598 series	SANS 60598 series and SANS 1464-22	All pats except IEC 60598-2-22	Luminaires	Identical except IEC 60598-2-22
61347 series	SANS 61347 standards Identical to IEC	IEC 61347 series	Controlgear	Identical
10114	SANS 10114-1 and 2	None	Artificial Interior and emergency	Home-grown
SATS 1706 ARP 0110	Technical specification Recommended Practice	None	UVGI	Home-grown
DALI series	SANS 62386 series	IEC 62386 series	Digital addressable lighting interface	identical



SABS

NATIONAL STANDARDS

SABS TC 064 Lighting and optics-IEC TC 34

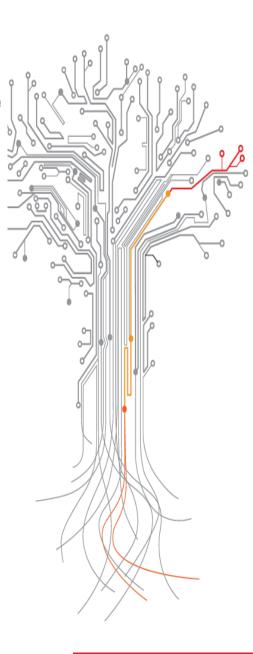
o SANS 1459-Traffic lights

SABS TC 064-01 Lamps/Light sources and auxiliaries-IEC SC34 A and C

- o Control gear-SANS 61347-series
- o SATS 17576-LED performance requirement
- o SANS 1662 Self-ballast LED tubular, safety requirement
- o SANS 62612 Self-ballast LED lamps, safety requirement
- SANS 62560-Self-ballasted LED-lamps for general lighting services by voltage > 50 V -Safety specification.
- SANS 62504General lighting Light emitting diode (LED) products and related equipment - Terms and definitions

SABS TC 064-02 Luminaires-IEC 34 SC D

- o SANS 60598-series-Luminaires
- SATS 1706-UVGI Luminaires, safety and performance
- o ARP 0110 Installation and maintenance of UVGI
- SANS 10114-1-Artificial lighting of interior
- SANS 10114-2-Interior emergently lighting
- ARP 032 guideline for modification tubular retro-fit LED tubular





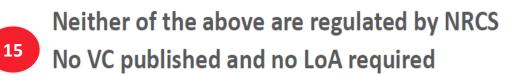
NATIONAL STANDARDS LED LAMP (Bulbs)

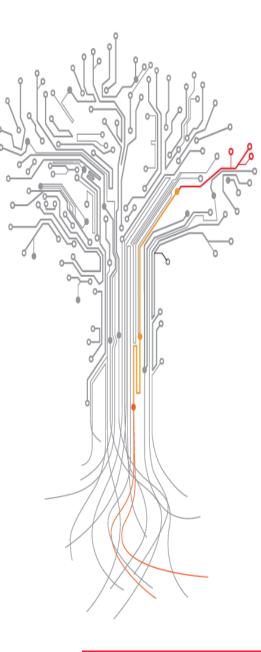
Safety Requirements : SANS 62560

 Self-ballasted LED-lamps for general lighting services by voltage >50V- Safety specification

Performance Requirements: SANS 62612

- Self-ballasted LED lamps for general lighting services with supply voltages > 50V-Performance requirements
- SATS 17576: Light emitting diode products for interior lighting, streetlighting and floodlighting- Performance requirements





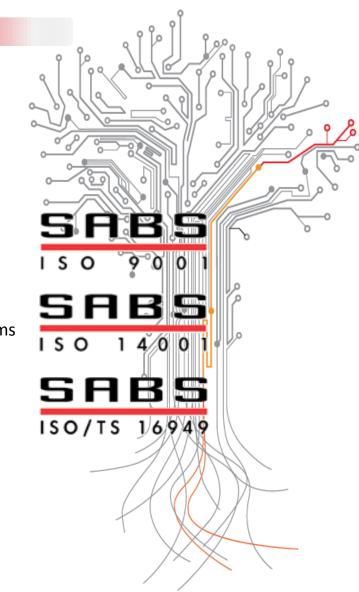




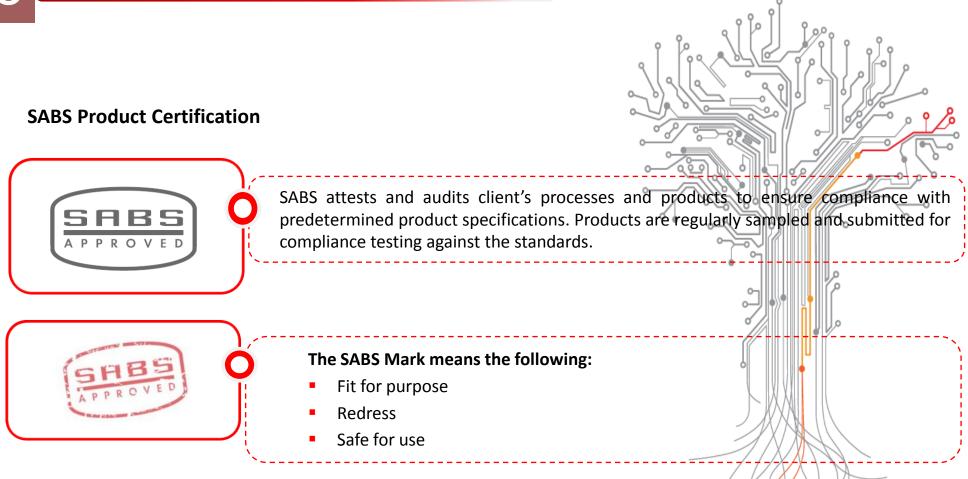
Certification

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









Certification (cont.)

Consignment Inspection

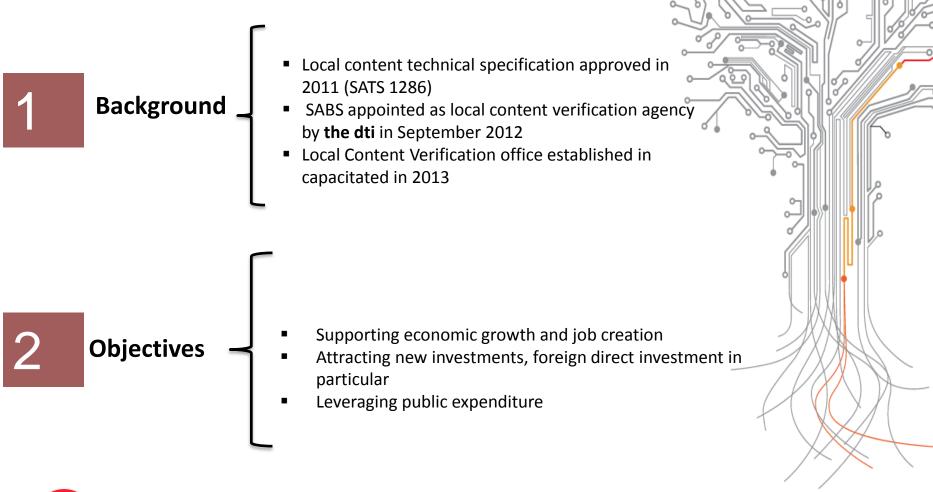




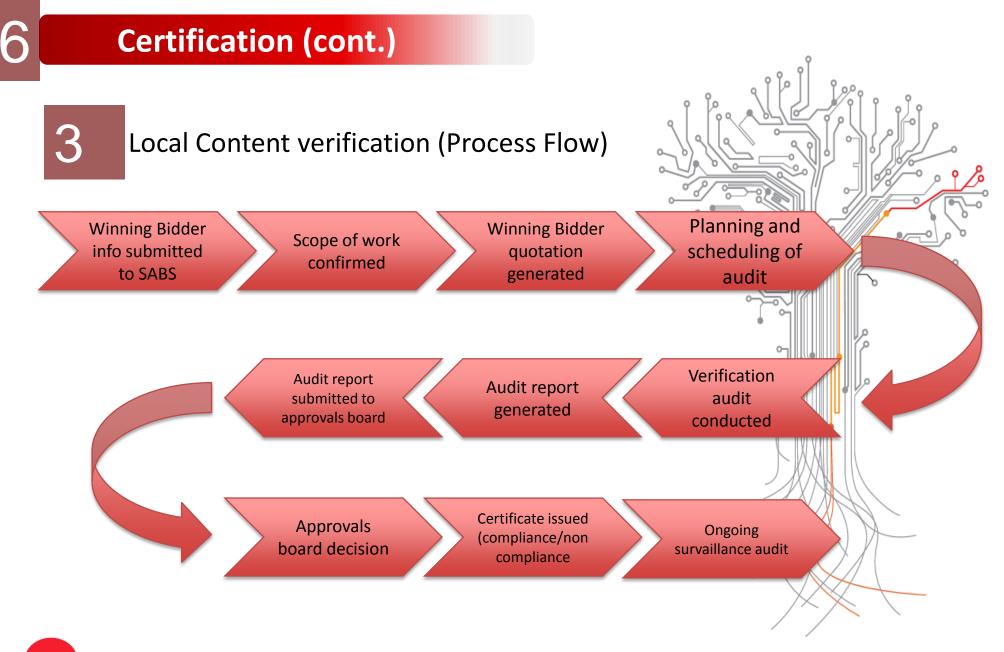


Certification (cont.)

Local Content Verification







SABS

Certification (cont.

Local Content Verification

Local Content Verification

- Solar water heaters via DoE, for 20 organisations
- Communication cables via Telkom, for 1 organisation
- Buses via City of Jo'burg, for 1 organisation
- National Lotteries via National Lotteries Board
- Concluding verifications for Eskom ICT Project

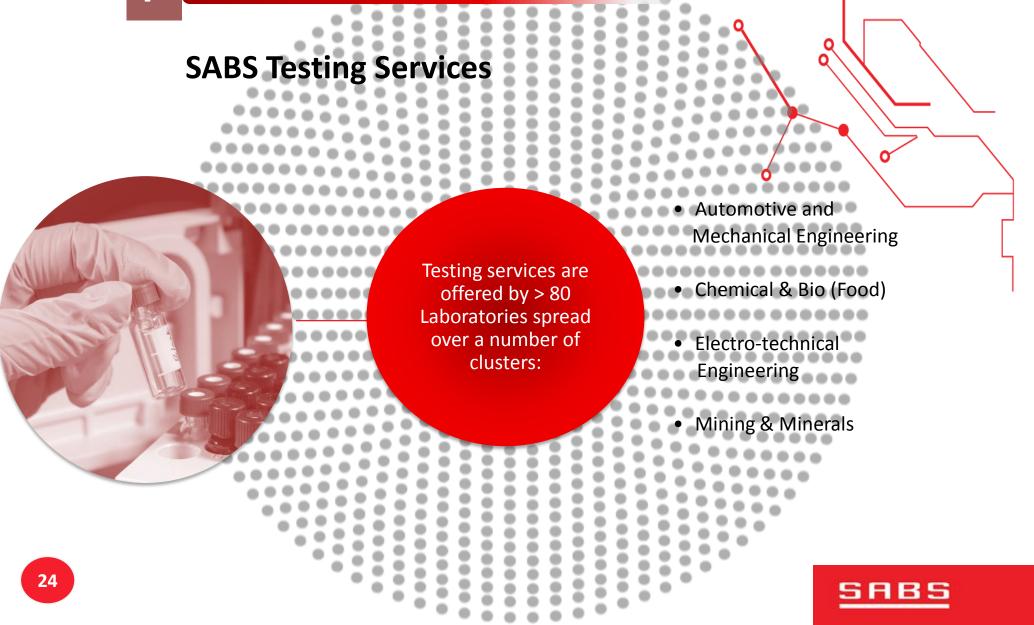




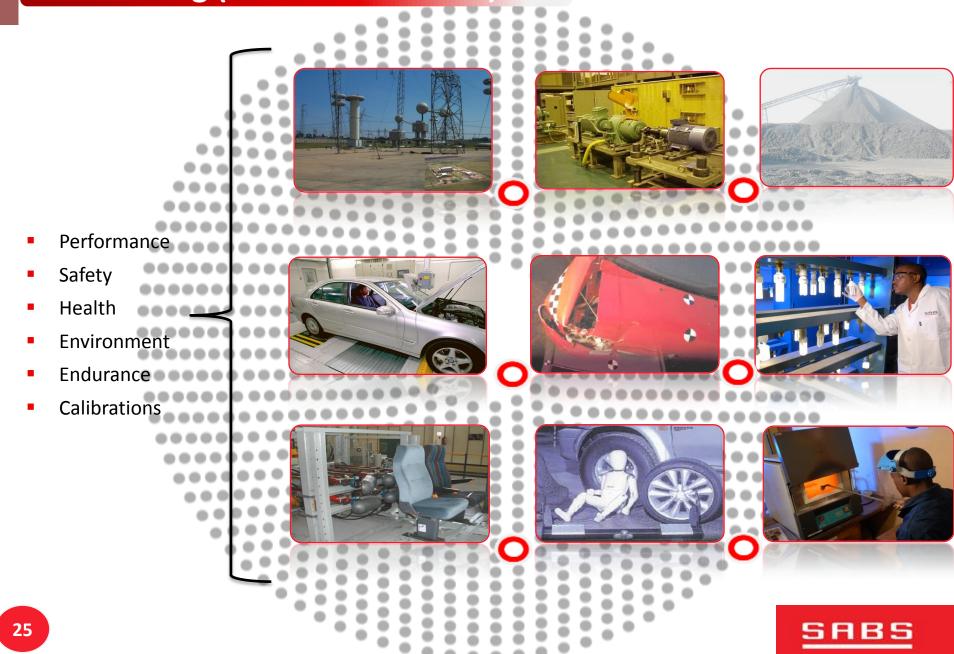
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Testing (SABS Laboratories)



SABS Automotive and Mechanical

- Metrology
- Vehicle Components Lab
- COP Laboratory
- Battery Technology
- Alternative Energy & Fluid Technology
- Building Construction & Packaging





SABS Automotive and Mechanical







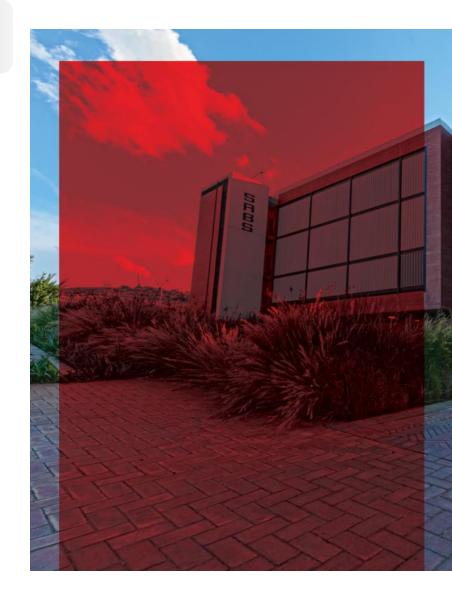






SABS Chemical, Bio & Materials

- Industrial Chemistry & Petrochemicals
- Rubber Plastics Paints Sealants
- Food & Water Chemistry Dept
- Pharmaceutical Chemistry
- Chromatographic Services
- Pesticide Trials
- Food Microbiology
- Radiation Protection Services
- Condom Test Lab
- Fibre & Polymers



SABS Chemical, Bio & Materials











V

SABS Electro-technical

Electronics

Appliances

STB Project

Lighting Laboratory

Explosion Prevention Tech & Rotating Machines NETFA: Short Circuit Laboratory NETFA: High Voltage NETFA: Materials & Installations Lab NETFA: Distribution Technology





Testing Capability of Laboratory.

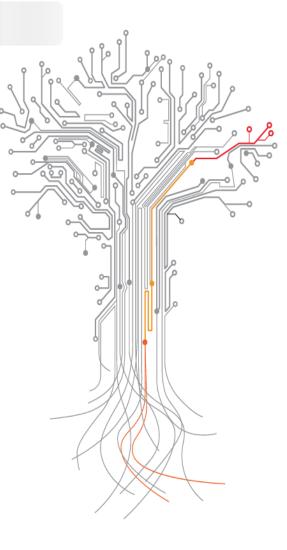
Document	South Africa standard	International standard	Tittle	Relatedness
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61347 series	SANS 61347 standards Identical to IEC	IEC 61347 series	Controlgear	Identical

Automation of testing and report issuance in progress.

Additional equipment in process of being procured.

For LED requirement – Request IEC reports (Mainly for components)

Participates in the EEL Project for the DoE





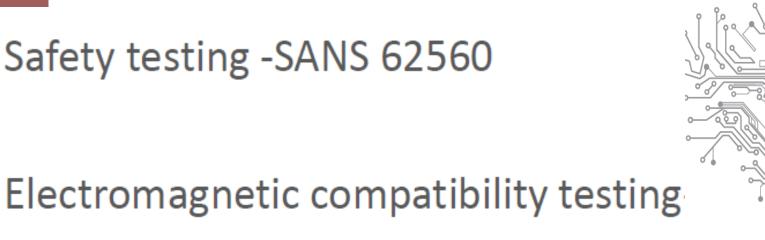
o IEC 61547

Electromagnetic compatibility testing

Testing Capability of Laboratory (Cont.

- IEC 55015 (CISPR15) Ο
- o IEC 61000-3-2

IEC 61000-3-3





SABS Electro-technical Scope

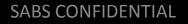
















Future Testing

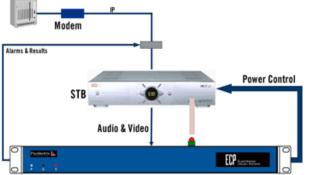








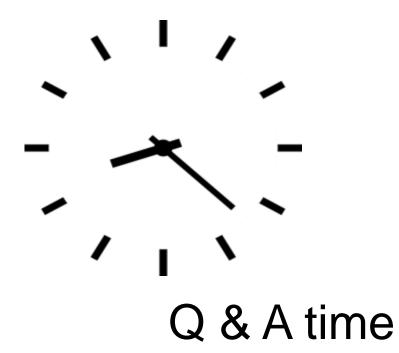












Presenter: Lucas Monyai Date: 19 June 2017 Event: 4th (BRICS SSL WG) Email: <u>lucas.monyai@sabs.co.za</u>

