South Africa Bureau of Standards
IPAP Commitments

SABS Executive Team
SABS Overview

- Established formally in 1945
- Historically provided Regulatory functions (compulsory specifications).
- Regulatory functions transferred to NRCS 2008

- Standards Act No. 08 of 2008
  - Develops, promotes and maintains a catalogue of national standards
  - Promote quality of products and services; and
  - Render conformity assessment services
Role of SABS in the Global Agenda

- Tourism
- Climate change
- Interoperability
- Energy Efficiency
- Renewable energy
- The rise of the smart consumer
- Role of government
- Security
- Global supply chains and controls
- Water Efficiency
- Sustainability
- Speed of change
- Services
- Bio-technology
- Energy Efficiency
- Nanotechnology
- Ethics
Government Acts & Regulations
DoL, DEA, DoE, DoH, etc

Technical Infrastructure

NRCS
NMISA
SABS
SANAS
SABS Standards Division - Role in National, regional & International Standardization

- ISO
- IEC
- SADCSTAN

Standards Committees

- Stakeholder/Customer
- Vision & Strategy
- Internal Process
- Financial

Collection of 7000 SANS Standards
>500 SANS/yr

International Experts
International Meetings

>4000 Committee Members
400 Committees

HO – Pretoria
Regional Offices
SADC – Regional Standardisation

- Angola
- Botswana
- Democratic Republic of the Congo
- Lesotho
- Malawi
- Mauritius
- Mozambique
- Namibia
- Seychelles
- Swaziland
- South Africa
- Tanzania
- Zambia
- Zimbabwe

94 Standards Harmonized
SA Hosts Secretariat
Standards Value Proposal

- Technology
- Business opportunities
- Innovation
- Conformity Assessment
- Business Sustainability
- Job creation
- Increase Competitiveness

Knowledge Transfer | Market Access | Market Advantage
Objectives of IPAP for SQAM infrastructures

- To support the development, accreditation and enforcement of standards that can create, scale up and resuscitate certain industries, while simultaneously contributing to broader social benefits.

- To support export market access more actively by assisting business to meet the increasingly demanding standards of advanced developed and developing countries.
Role of the WTO/TBT Agreement

- The standardizing body shall ensure that standards are not prepared, adopted or applied with a view to, or with the effect of, creating unnecessary obstacles to international trade.

- Where international standards exist or their completion is imminent, the standardizing body shall use them, or the relevant parts of them, as a basis for the standards it develops, except where such international standards or relevant parts would be ineffective or inappropriate, for instance, because of an insufficient level of protection or fundamental climatic or geographical factors or fundamental technological problems.
SABS - IPAP2 Commitments

- Develop market standards in key sectors
  - Agro processing
  - Metal fabrication
  - Green Industry
  - Chemical
  - Pharmaceutical
- Develop new mandatory standards to support regulatory enforcement
- Introduce and strengthen Testing and Certification capacity to support industry
- Support NRCS and SARS to strengthen work on illegal imports
### Green Economy

**17,8GW of renewable generation capacity by 2030**

<table>
<thead>
<tr>
<th>Year</th>
<th>Standards</th>
<th>Conformity Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011/12</td>
<td>Photovoltaic Systems - SANS 959 series – 7 parts Use in individual homes, schools and clinics) – off-grid application <strong>Homegrown Standard</strong></td>
<td>-</td>
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<td></td>
<td>Wind turbines (11 standards (all published) – Adoptions Smart grids (20 SANS published for communication of smart grids &amp; electricity metering of smart grids)</td>
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<tr>
<td>2012/13</td>
<td>Solar water heating systems (SANS1307) <strong>Homegrown Standard</strong> Domestic instantaneous solar water heaters (SANS 1346) – <strong>Homegrown Standard</strong> Heat Pumps SANS 1352 – The installation, maintenance, replacement and repair of domestic air source water heating heat pump systems - <strong>Homegrown Standard</strong></td>
<td>Expanded testing for SWH and Heat pumps</td>
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<td>Year</td>
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<tr>
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<td>Energy efficiency labelling of appliances (SANS 941:2012)</td>
<td>Energy efficiency testing of products and certification</td>
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<td>Homegrown</td>
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<td>Measurement and verification of energy savings (SANS 50010:2011)</td>
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<td>Homegrown</td>
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<tr>
<td>2012/13</td>
<td>Electric vehicle propulsion systems (SANS 1103 (project))</td>
<td>Superfast switching test circuit for electric vehicles</td>
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<tr>
<td></td>
<td>Gas vehicle propulsion systems (SANS 1104 (project))</td>
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## Energy and Water Efficiency Building Regulations

<table>
<thead>
<tr>
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<tr>
<td>2011/12</td>
<td>Energy efficiency in buildings (SANS 204:2011 and SANS 10400-XA:2011)</td>
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<tr>
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<td>Homegrown</td>
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<tr>
<td>2013/14</td>
<td>Water efficiency in buildings Plumbing Components (SANS to be developed or updated in line with the Water efficiency policy)</td>
<td>Product Testing and administration of SABS Mark scheme</td>
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<tr>
<td></td>
<td>Homegrown</td>
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</tbody>
</table>
South African National Energy Efficiency Standards

SANS 61480
SANS 52087
SANS 12567-1
SANS 60959
SANS 1307
SANS 10400-4
SANS 161
SANS 61400
SANS 54511-3
SANS 54511-3
SANS 51199
SANS 60634-30
SANS 941

SANS 16147
SANS 50304
SANS 52852
SANS 1591-1
SANS 50456
SANS 50229
SANS 52087
SANS 20100
SANS 428
SANS 559 Series
SANS 1935 & SANS 833
SANS 941

SABS Standards Information
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<tr>
<th>Year</th>
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<tr>
<td>2011/12</td>
<td>Biodiesel (SANS 1935)</td>
<td>Testing and certification capacity exists</td>
</tr>
<tr>
<td></td>
<td><strong>Homegrown</strong></td>
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<td></td>
<td>Management system for biodiesel (SANS 833)</td>
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<td><strong>Homegrown</strong></td>
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<tr>
<td></td>
<td>Ethanol gel for domestic use (SANS 448)</td>
<td>Testing and Certification exists</td>
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<td><strong>Homegrown</strong></td>
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<tr>
<td>2012/13</td>
<td>Unleaded petrol standard (SANS 1598)</td>
<td>Testing and SABS Mark Scheme</td>
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<td><strong>Homegrown</strong></td>
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<tr>
<td></td>
<td>Automotive diesel (SANS 342)</td>
<td>Testing and SABS Mark Scheme</td>
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<td></td>
<td>Ethanol as a blend for fuel (SANS 1164)</td>
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<td></td>
<td>Management system for ethanol production (SANS 1462)</td>
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<td></td>
<td><strong>Homegrown</strong></td>
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<tr>
<td>2013/14</td>
<td>Compulsory standards for: Olive oil, live rock lobster, honey, processed meat</td>
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Manufacturing

**Improve SA suppliers' quality management systems and obtain quality and/or product certification to increase their level of competitiveness.**

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<tr>
<td>2012/13</td>
<td>ISO 9001</td>
<td>Training and Certification Conduct ISO 9001 gap analysis for 60 companies Train 20 staff in companies on the implementation of the standard</td>
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</table>
### Preferential Procurement Policy Framework Act (PPPFA)

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<tbody>
<tr>
<td>2011/12</td>
<td>Technical Specification for measurement and verification of local content of local goods, services and work (SATS 1286) Homegrown</td>
<td>Launch of new laboratories in Groenkloof campus and modernisation of testing equipment</td>
</tr>
<tr>
<td></td>
<td>Tourism service excellence SANS 1162:2011 &amp; SANS 1197:2012 Homegrown</td>
<td>-</td>
</tr>
<tr>
<td>2012/13</td>
<td>Set top boxes -SANS 862 (to be published in June) Homegrown</td>
<td>Testing and certification of Set top boxes</td>
</tr>
</tbody>
</table>
Impact on cheap and poor quality goods

- Global challenge
- Standards set the entry criteria into the South African market
- Promote SABS Mark Scheme for regulation and procurement
- Collaboration of industry, government and SQAM infrastructure is critical
SMME Engagement...

- Supplier Developmental audits
- Training services - Management Systems
- Awareness workshops on Standardisation
  - Standards Development
  - Value of Standards in Business
  - Importance of Conformity assessment in market access

- MOU’s
  - TIA – Youth Innovation development fund
  - SEDA – Funding of SMME’s
  - MassMart
Standards for business .... Is this really an important issue?

- Standardization - a strategic business issue with direct impact on new product development
- Leadership in standards = Leadership in technology
- Standards are never neutral. They reflect the strengths and innovations of those who develop them.
- Therefore, non-participation in standardization gifts decision-making to the competition.
- The pace of development of international standards is accelerating.

Standards foster innovation and competitive advantage for business ... it is in business's interest to get involved!
THANK YOU