#### Presentation to the ECSA's Thought Leadership Forum

### "Co-constructing a Thought Leadership Agenda for the Engineering Profession in South Africa"





12 April 2013 Premier Hotel OR Tambo Kempton Park, Gauteng

### **Presentation Outline**

- i. Structure of Engineering Profession
- ii. What purpose does ECSA fulfil?
- iii. ECSA's Functions: Mandatory & Discretionary
- iv. Engineering Profession's Thought Leadership Forum and its contribution to the national development agenda.





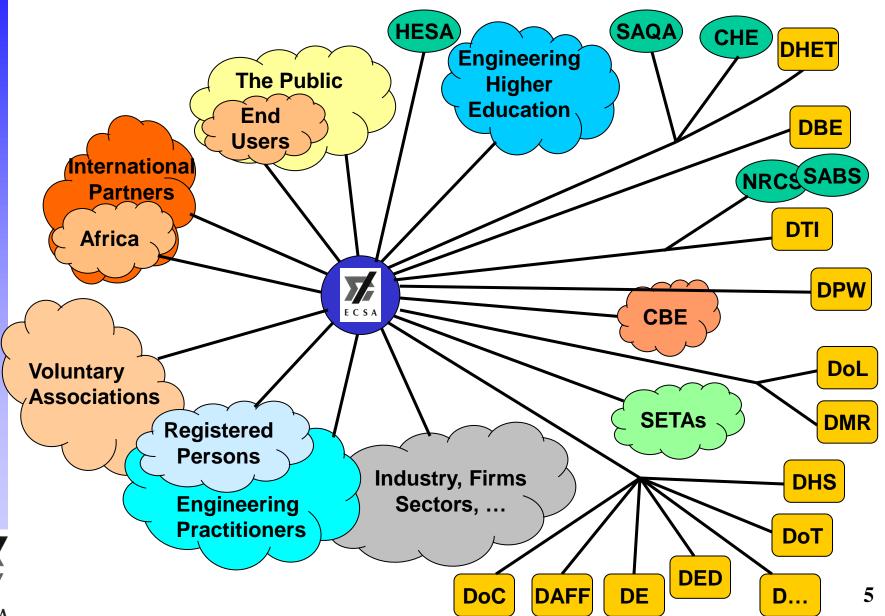


## The Structure of the Engineering Profession in South Africa

Component	Role Player(s)
Statutory	Engineering Council of South Africa (ECSA)
Voluntary	The South African Institution of Civil Engineers (SAICE)  The South African Institute of Electrical Engineers (SAIEE)
Commercial / Business	Consulting Engineers Contractors Manufacturers



#### **ECSA Stakeholder Relations**





### What purpose does ECSA fulfil?

The purpose of the ECSA is to.......
 promote the health, and safety interests of citizens & the environment......
 in relation to work by the engineering professionals.

Engineering Professions Act (No. 46 of 2000)



## **ECSA's Mandatory functions**

(a) Set standards for engineering education;

(b) Accreditation of engineering programmes;

(c) Registration of professionals and candidates.

- (d) Regulation of engineering practice
  - Managing a Code of Conduct;
  - Managing complaints & discipline;
  - Managing continual professional development;



## **ECSA's Discretionary functions**

- (a) Take measures to <u>protect</u> public health and safety;
- (b) Conduct research related to the Engineering Profession;
- (c) Undertake activities which <u>promote the engineering</u> <u>profession</u> and which are in the <u>national interest</u>;
- (d) Uphold the integrity and dignity of the profession;





# An Engineering Profession relevant to the national imperatives

#### Introspection of the Engineering Profession

- > Shape (gender, race), size, age profile
- Increased diversity and numbers

### National Development Plan

- Building a capable State
- > Active citizenry
- > Developing the human rescouce skills base

#### National Infrastructure Programme

- Skills shortage
- Procurement Policy, Systems, and Practices



# National high priority infrastructure challenges

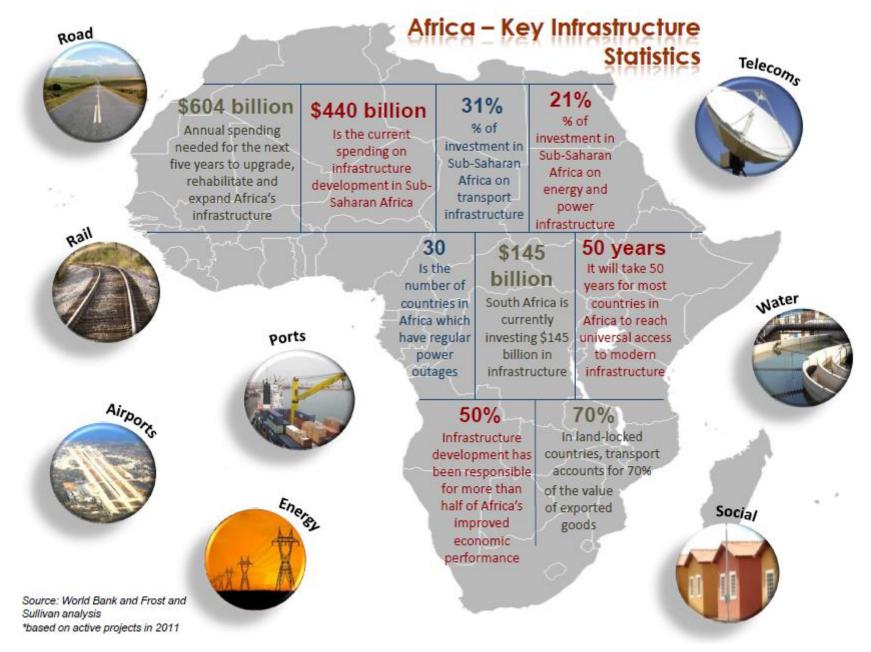
- Development of standardised and modular school buildings (~200 schools in 2013)
- Design and development of affordable university student accommodation (backlog ~ 200k)
- Increased rate of electrification of households to over 300k households pa from around 200k
- Water leakages
- Role out of broad band internet connectivity to rural areas
- Provision of health care facilities



## Some discretionary activities initiated by ECSA

- Engenius programme
  - Career advising for potential engineering students
- Funding for Candidate Phase Training of Engineering graduates
- Engineering Education Trust
- Facilitation of support for Government's National Infrastructure Programme







## Thought Leadership defined

**Thought leader.....** is management terminology for a person or an entity that is recognized by peers for having progressive and innovative ideas.

Typically thought leaders have **proven themselves** in the business, academic or political sphere through successful implementation of their ideas.

Thought leaders often..... publish articles and blog posts on trends and topics influencing an industry or organizations.

Through effective communication and clarity of purpose, they effect change and are considered exemplary leaders.





## Engineering's Thought Leadership Forum

Is a Structure for the Engineering Profession to:

- Contribute to the national debate on a range of critical issue
- Influence public policy
- Avail its expertise and knowledge in the national interest
- Be relevant stakeholder

Position the Engineering Profession as an advisor choice



## Structure of the Proceedings

#### Discipline specific discussions

- > What are the relevant issue? (discipline specific and cross cutting)
- What are the messages and target audience?
- > Is there research needed to inform a position on the issue?
- What mechanisms will be used in getting the message out?
- What resources will be required?
- Who will lead each issue and serve as champion/spokes person?
- > ????



Dankie - Enkosi - Ha khensa - Re a leboga - Ro livhuwa - Siyabonga - Siyathokoza - Thank you!



