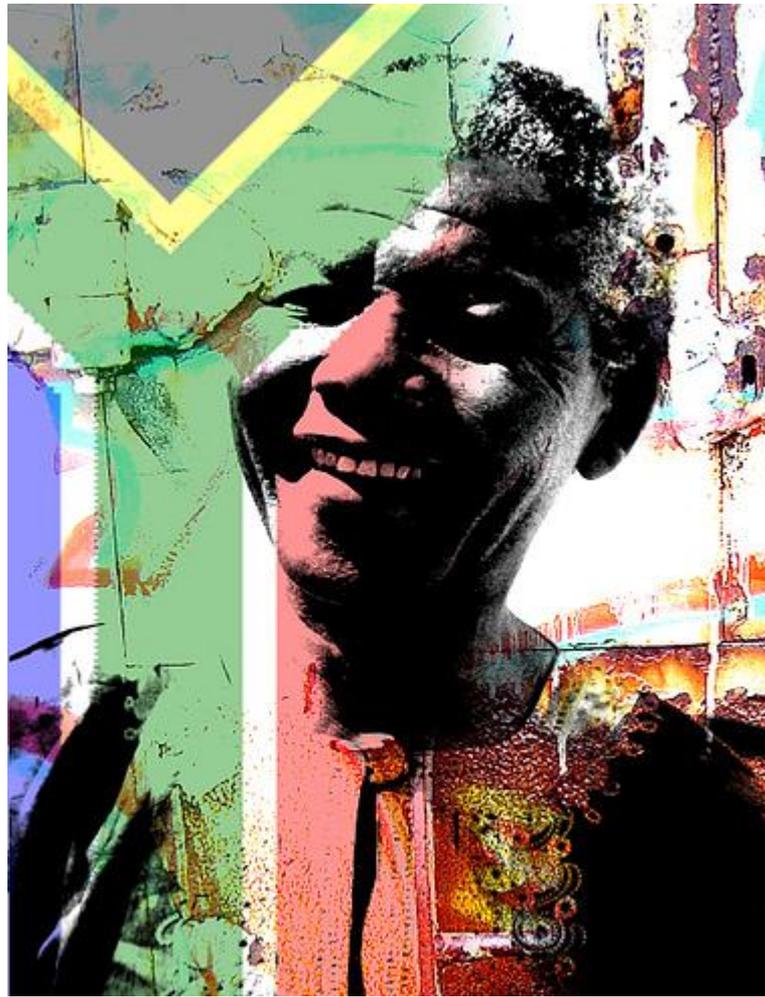




**WFEO GA  
Sept. 2011**



**Presenter : Eng .Campbell  
President  
Engineering Council  
of  
South Africa**

# **Engineering Council of South Africa**

***Engineering Sustainability Through Building  
Capacity***



# **Theme 1 :**

## **Why Build Capacity ?**



***“IT IS NOT OUR WEALTH THAT CREATED  
OUR INFRASTRUCTURE, IT IS OUR  
INFRASTRUCTURE THAT CREATED OUR  
WEALTH”***

***John F Kennedy***

# Why build Engineering Capacity ?

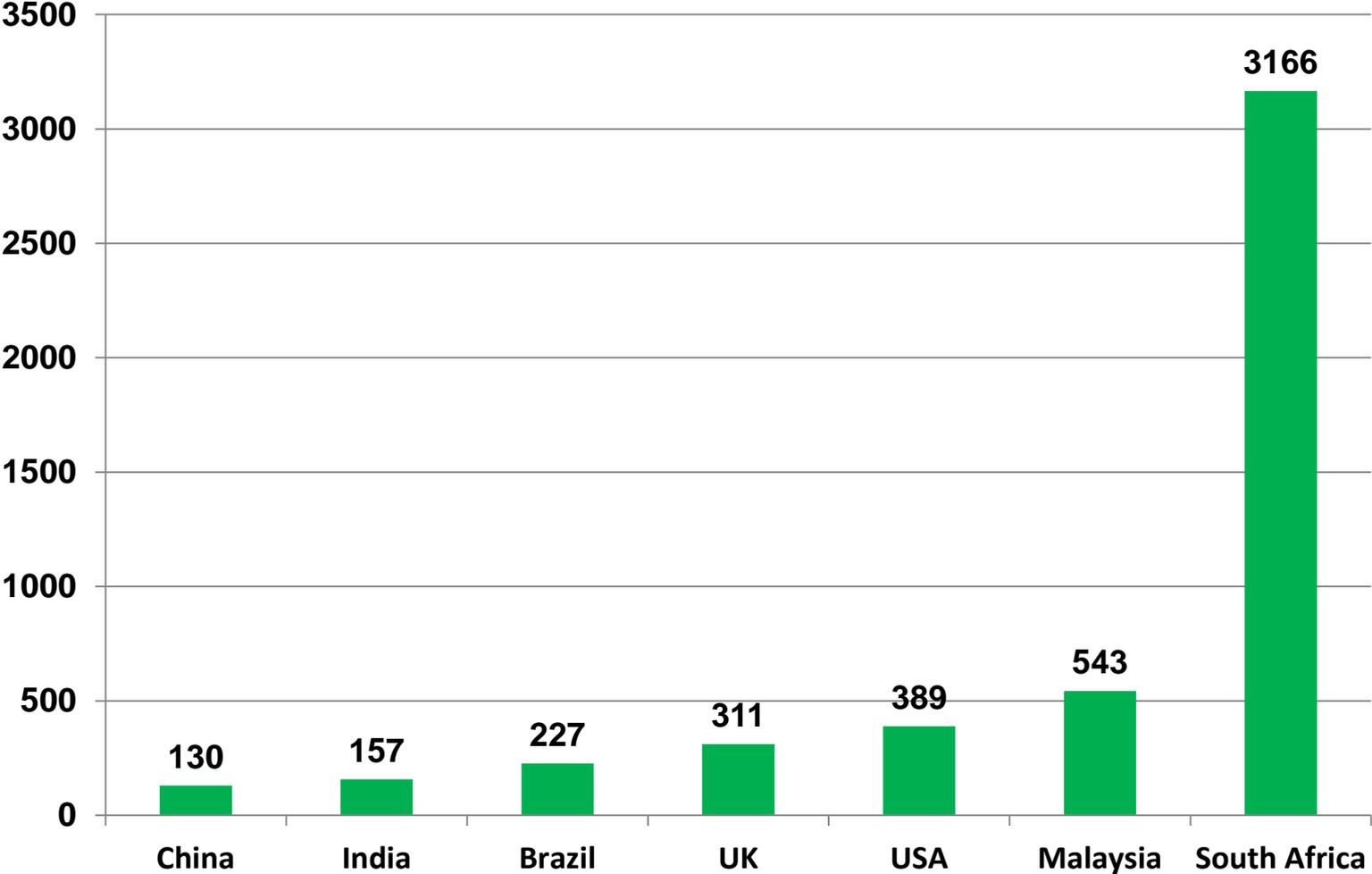
- Engineering work..... is accompanied by risks to health, safety, environment, sustainability, consequently ...
- Engineering work must therefore be carried out by competent and accountable registered professionals

Capacity building is relevant and important for **all nations.**

Capacity building in developing nations – **“establishment”**.

Capacity building in developed nations – **“renewal”**.

# Comparison of Citizens per registered Engineer



Allyson Lawless: Numbers and Needs (2005)

# Examples of Good Engineering in South Africa

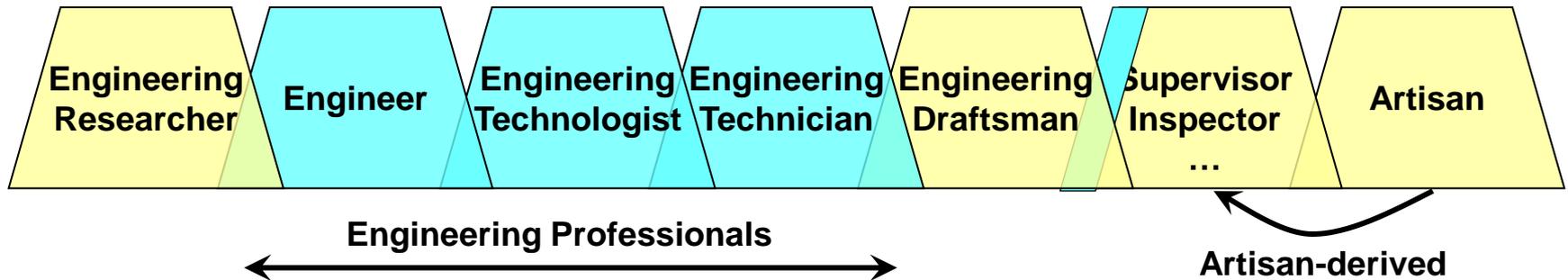


# Examples of Poor Engineering



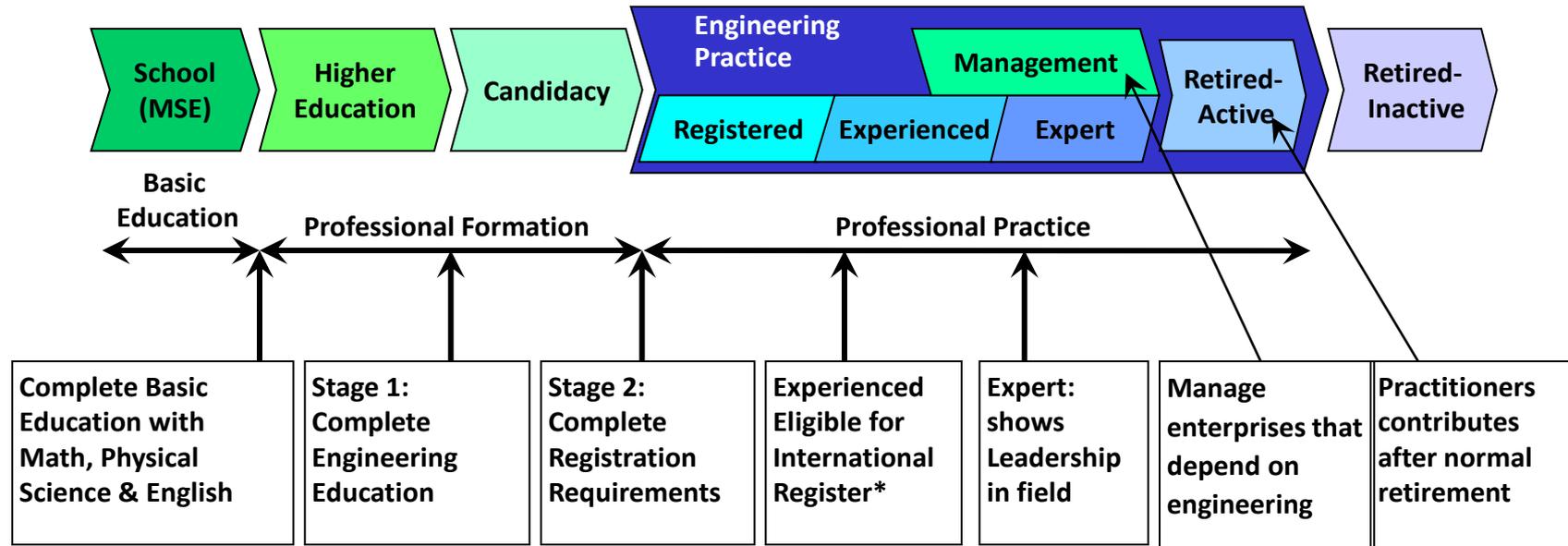
AP / Noah Berger

# The Extended Engineering Team



- Various Engineering activities require above role players in different measure
- Decision makers need guidance on how to balance the numbers
- Industry needs to understand its role
- Institutions of Learning need to understand the needs of Society

# Engineering Practitioner Lifecycle



**Capacity Building Initiatives Apply Throughout....**

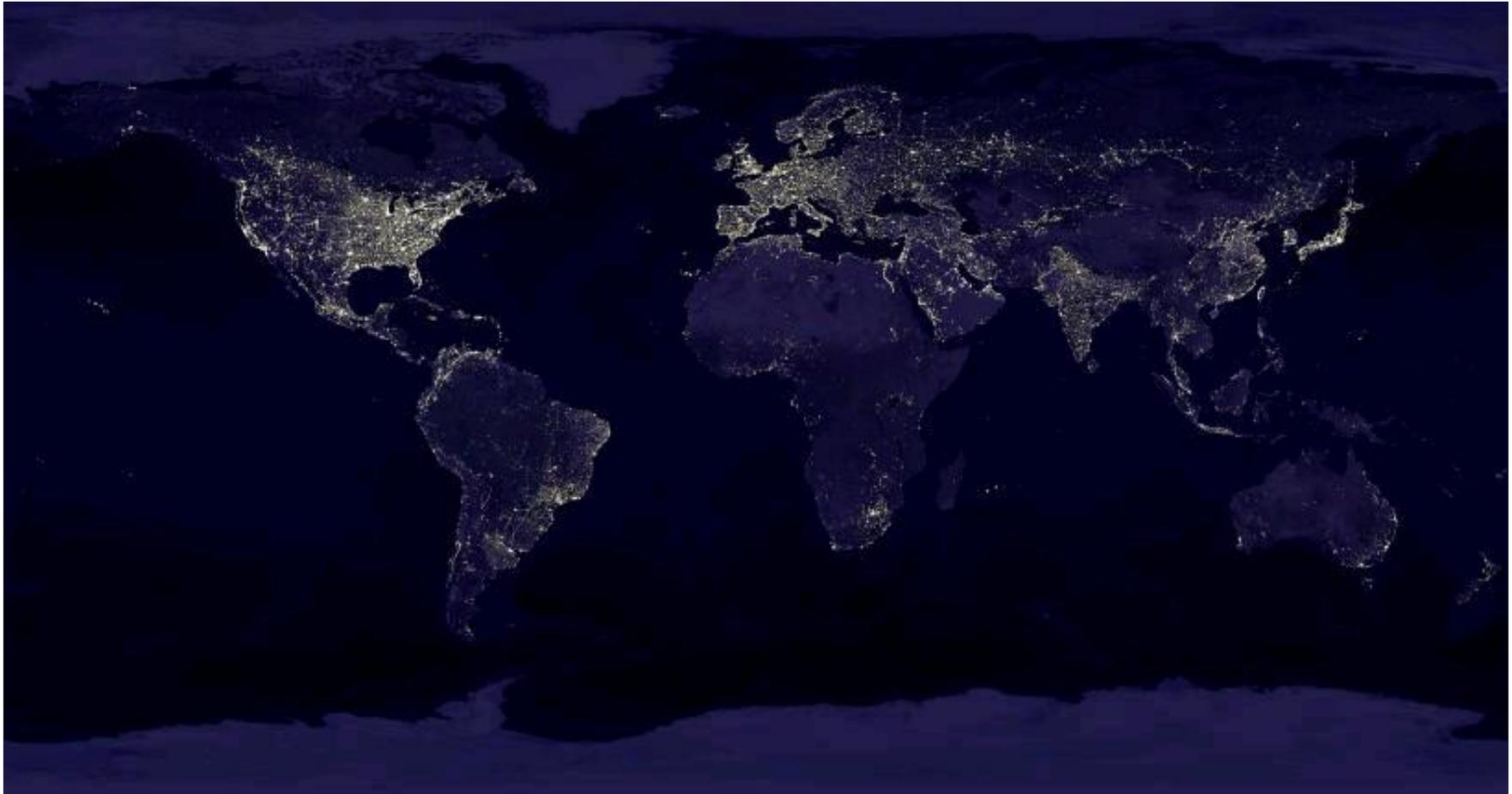
# **Theme 3 :**

# **Building on The**

# **Foundation**



**A Brighter Future For All !!!!!!!!!!!!!!!!!!!!!**



**Theme 4 :**  
**What To Do !**  
**For the Benefit of**  
**Future Generations**



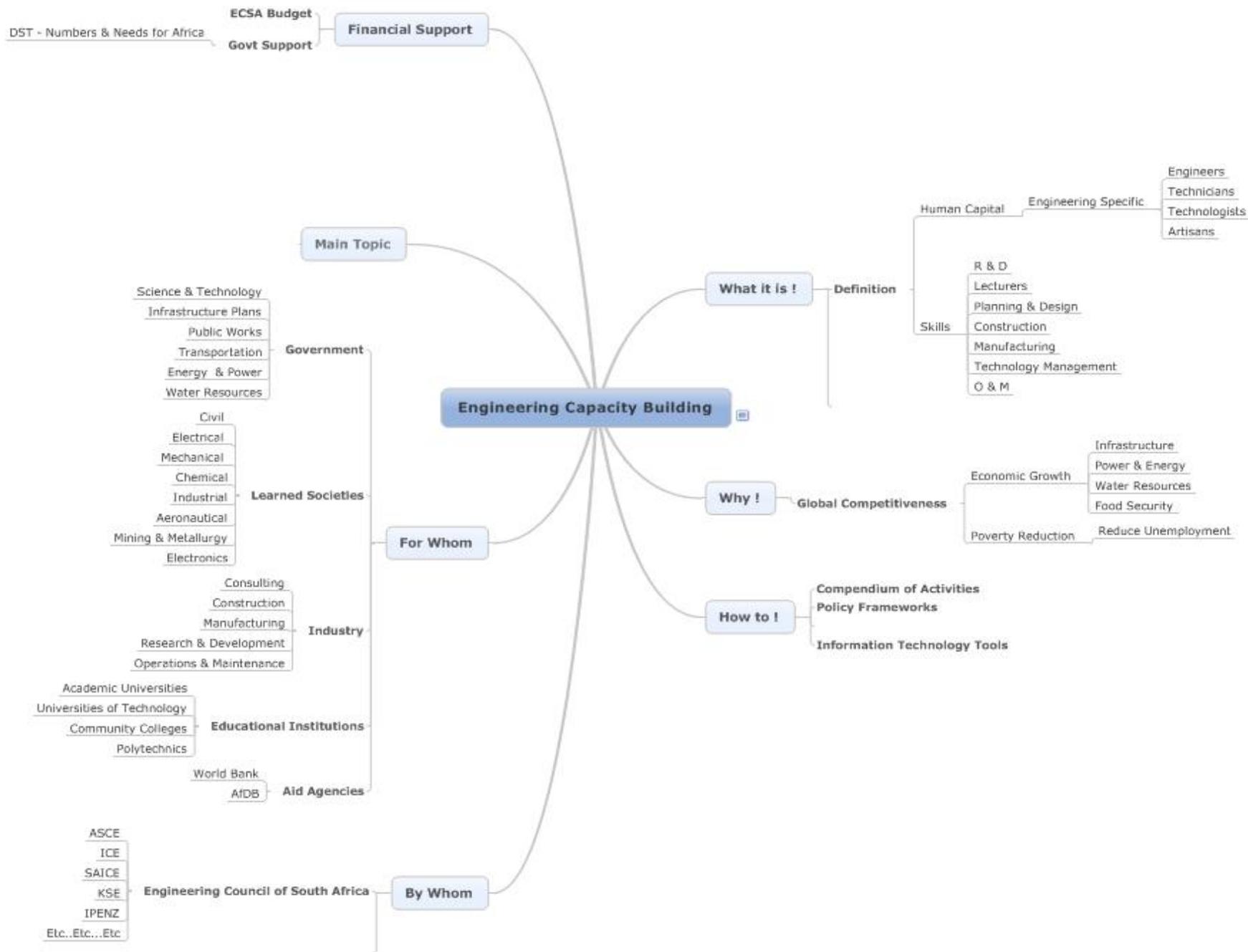
# What is to be done?

*“Growing our Own Timber....starts with good basic education”*

- Sort out schooling system shortcoming. Learn from the best practice.
- Engineering potential develops as early as Primary Education, it is too late to start at Higher Education stages of learning;
- Improve graduation outputs. Increase investment into staff and infrastructure.



# Plan of Action



# Why Support South Africa ?

- We identify strongly with the Capacity Challenges;
- We are passionate about Engineering Capacity Building;
- We have own funding & enjoy financial support of our Govt;
- We have a track record of Capacity Building
  - Major contributor to the work of CECB;
  - Have a reputation for “producing the goods” ;
  - Assisting African Engineering Institutions in building capacity;
- Enjoy the support of over 30 Engineering Voluntary Associations in South Africa;
- Enjoy the support of the majority of our Colleagues in the room and am grateful for that Vote of Confidence;
- Invite Peru and all other Countries to be part of the Team;
- Pledge full support to Peru, if they are selected;

# AYOBA !!!!!

