



YOUNG ENGINEERS IN SOUTH AFRICA

We are in the Game

Taf (Tafadzwa) Mukwena

Outline – The Sport

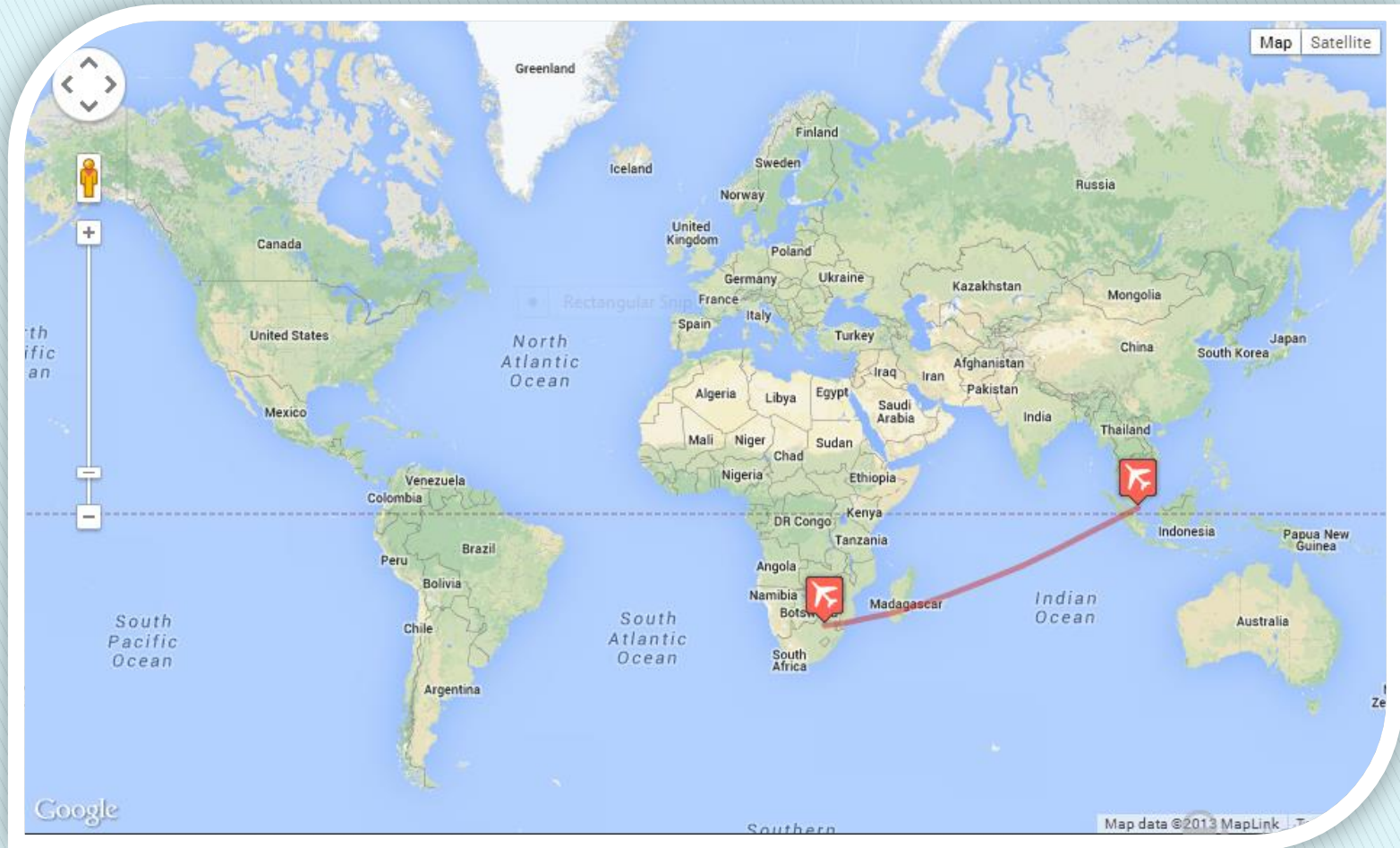
- ▶ The Playing Field
- ▶ The Players
- ▶ The Score
- ▶ The Next Match





The Playing Field

The Playing Field – In the world



Approx. 8600 km = 10.5 hour flight across 6 time zones

The Playing Field – In Africa

South. Africa...It's in the name!



EC SA

The Playing Field – In Context

- ▶ **New Democracy – Old State**
 - Enlarged population requiring service
 - Dual Economy – First and Third World
 - High demand for delivery of new services
 - High priority need to maintain existing Infrastructure
- ▶ **New Engineers – Old Industry**
 - Age gap in the industry
 - Capacity needed – numbers and skills



The Players

The Players

- ▶ ECSCA – statutory body for Engineers
- ▶ South African Institute of Civil Engineers
 - Young Members Panel
- ▶ Consulting Engineers South Africa
 - Young Professionals Forum
- ▶ Engineers Without Borders – South Africa
- ▶ Various Others

The Players – Engenius



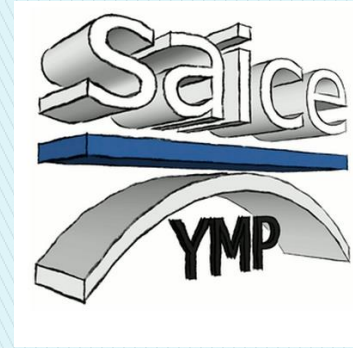
▶ Engenius

- Industry-wide initiative
- Promoting careers in technical fields
- Feeding the pipeline

- Engineers as role models

<http://www.engenius.org.za/>

The Players – SAICE YMP



▶ Purpose

- Integrate young professionals into SAICE structures
- Promote and improve the civil engineering industry

▶ Operation

- Events
- Road shows and Workshops
- Chapters and branches

<http://www.saiceymp.org.za/>

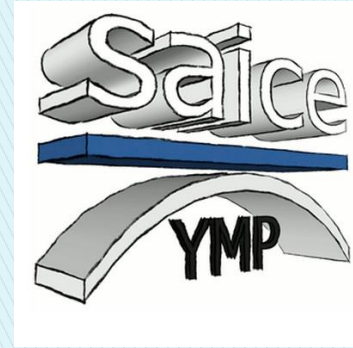
The Players – SAICE YMP



ROADSHOWS



The Players – SAICE YMP



“A Real-Life Reality Check: Ethics in Engineering”

- Short play on ethics in engineering, particularly around corruption
- Presented at road shows
- Change culture by changing the minds of future engineers

The Players – CESA YPF

▶ Objectives

- Industry Awareness
- Capacity Building
- Retention of YE in the industry

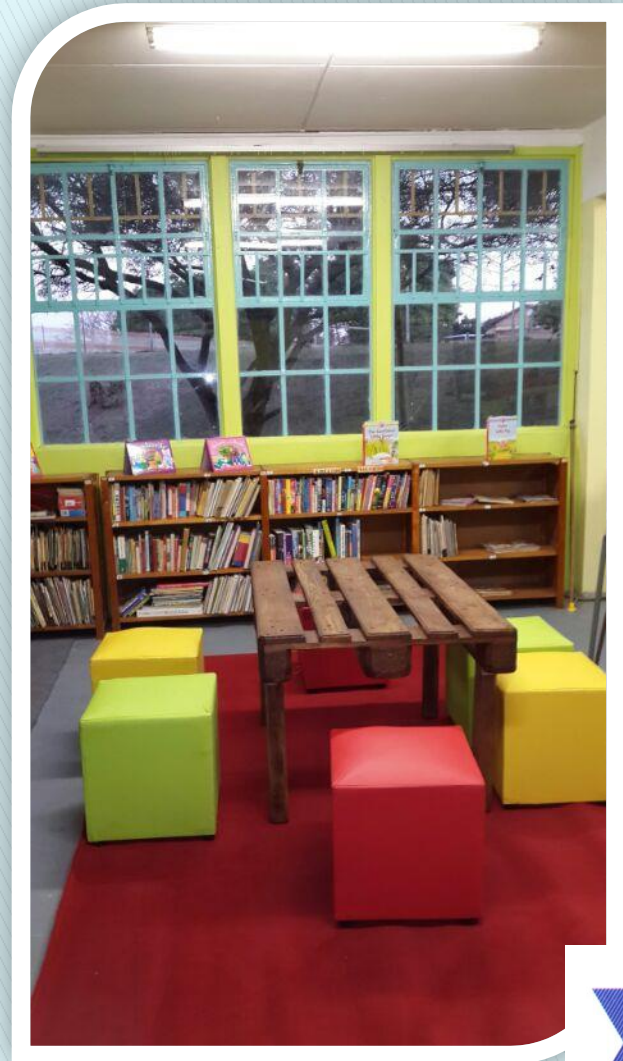
▶ Operation

- Industry Committees
- Events and networking
- Outreach

<http://www.cesa.co.za/node/215>

The Players - CESA YPF

MANDELA DAY - LIBRARY REHAB



The Players – CESA YPF

JOB SHADOW INITIATIVES



The Players – CESA YPF



Sustainability Imbizo 2013
Premier Hotel, Kempton Park, Gauteng
13 – 14th August 2013



“The development of people and institutions comes before development of infrastructure.”
–Arthur Taute, President of FIDIC GAMA

- ▶ Young professionals from across the country

The Players – EWB-SA



- ▶ Purpose
- ▶ EWB-SA is about building bridges that connects:
 - Retiring engineers with graduates
 - Students with professionals
 - Rural experience with urban reality
 - Global expertise with local passion

<http://www.ewbsa.org/>

Twitter: @EWBSA



The Players – EWB-SA



STUDENT CHAPTERS



BIODIESEL PLANT CONSTRUCTION



The Players – EWB-SA

BIODIGESTER INSTALLATION





The Score

The Score

- ▶ Plenty of Action...
 - Many players
 - Many goals being scored

- ▶ More Coordination Needed
 - Fragmented effort
 - Internal competition for volunteers



The Next Match

The Next Match

- ▶ Getting together to game plan
 - Discussions among role players have begun
 - ECSA is entering the arena

- ▶ Common Ground Issues
 - The perception of engineers in society
 - The challenges and the role of (young) engineers
 - CIVILUTION

The Next Match – Civilitation

- ▶ CIVILUTION DEFINED...
- ▶ CIVILUTION CONGRESS
 - 6 – 8 April 2014
 - Johannesburg
 - <http://saice-congress.co.za>

