



# Biowaste<sub>4</sub>SP – From an African Student Perspective



**Mr Neville Tawona**  
**ETM/CSIR South Africa**



# Background

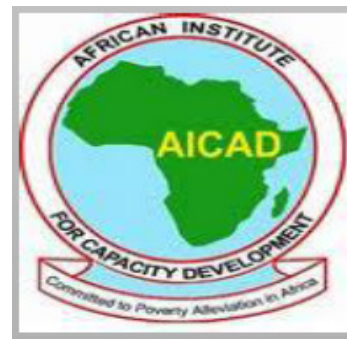
- Postgraduate Chemical Engineering Student
- Registered at Forestry and Forestry Products Research Centre

Joint venture



**Since June 2013**

# The “International” Experience



## Relevance to the African Continent





# Opportunities

- **Improving Waste Management**
  - **Waste-to-Energy**
  - **Resource recovery**

# Success Story



**Domestic Digesters**



**CSIR Design – Wastewater treatment**



**Modified CSIR design (ETM Pilot Plant)**





# Challenges

- **Equipment Fabrication – Hindrances**
- **Reliance on import equipment**
- **Procurement systems**





## The “Effect”

- **Waste utilisation/recovery companies – E.g. **Pick-It-Up** based in Johannesburg**
  
  
  
  
  
  
  
  
  
  
- **Agriculture – ETM farmers**



- **Thank You!!!!!!!!!!!!!!**