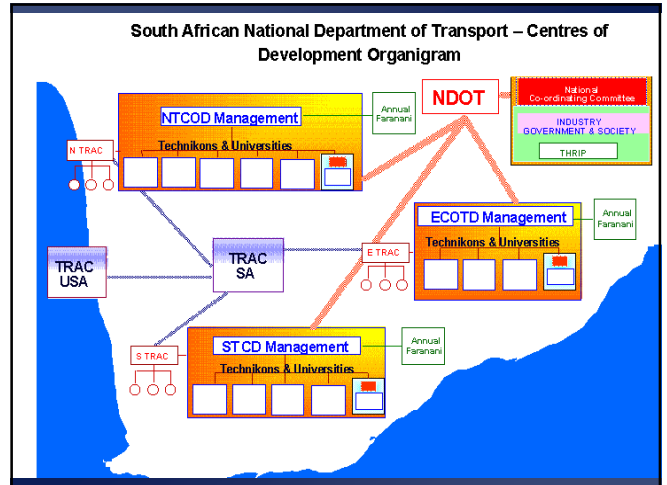


Research Activities in Pavement Engineering

SANRAL Chair in Pavement Engineering
July 2011

Stellenbosch

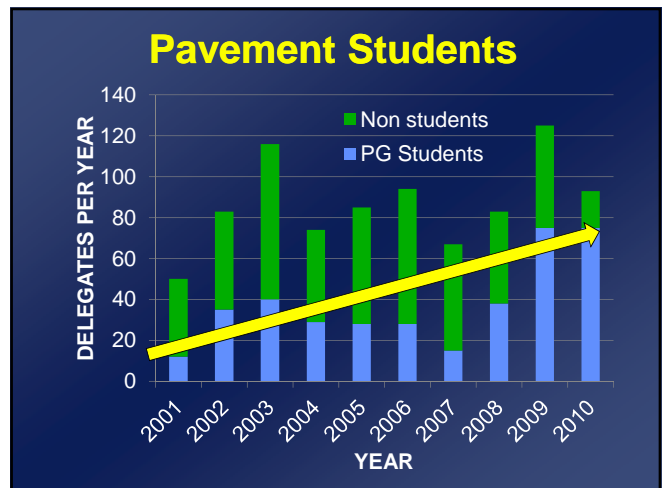


Pavement Eng: PG Courses

1. Pavement Materials I (granular, cemented)
2. Pavement Materials II (asphalt)
3. Pavement Materials III (bitumen stabilised materials)
4. Flexible Pavement Design
5. Pavement Evaluation & Rehabilitation
6. Rigid Pavement Design
7. Pavement Management Systems
8. Pavement Construction
9. Advanced Binder Technology

Co-operation with Overseas Universities

- Overseas experts on our PG courses and research (25 in 10 years):
 - Molenaar, van de Ven (TU Delft), Zollinger (Texas A&M), van Niekerk (KOAC), Francken (BRR), Bahia (Wisconsin)
- Many local experts
- Co-operation: CSIR
- Sabita etc



Need for research and innovation in SA

- Low Volume Roads (cost-effective)
- Pre-coating fluids (no tar)
- Energy and emissions (Enviro)
- Recycled building materials (Enviro)
- Surface seals (design and modelling)
- Material performance, granular, BSM, asphalt, polymers, nano (lab eval)
- Etc



Tri-axial test

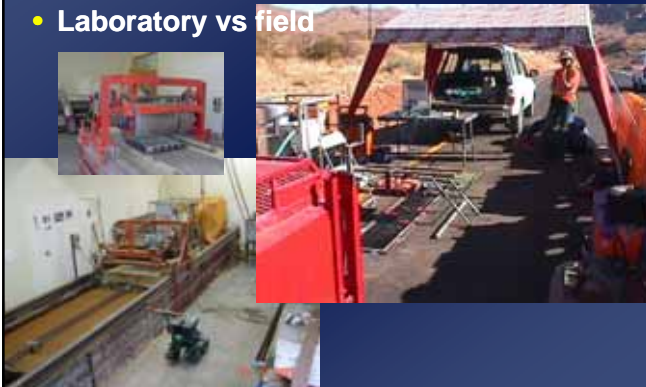


New "Simple triaxial"



Accelerated Pavement Testing

- Laboratory vs field



There are 2 basic choices for technology

Go it alone Partnering

