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# AFCAP

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## AFCAP STEERING GROUP MEETING

June 2014  
Progress Report

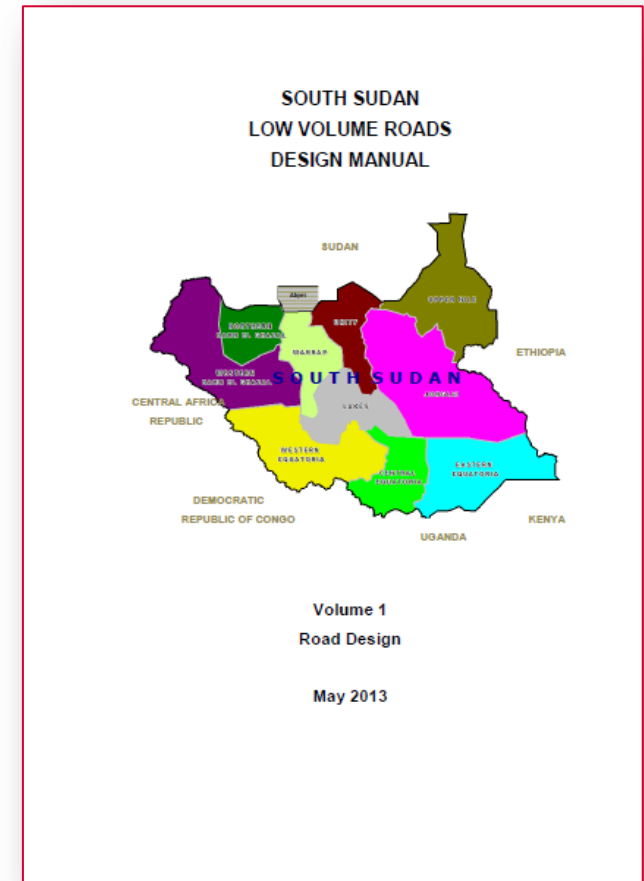
Rob Geddes



- Experimental sites partially complete
- Training carried out for 65 engineers and technicians on DCP design method
- Technical Assistance to MTRD to transform to National Research Centre
  - Study visit to UK/TRL
  - Final Report in preparation.



- Manuals in use on 80km unpaved road works
- Technical Assistance to Ministry of Roads and Bridges to develop Road Research Capacity in the Directorate of Materials and Research: suspended due to security situation.



- Designs complete for two experimental LVSR sections (South Kivu and Katanga) using DCP design method
- Dissemination workshops in Lubumbashi, Bukavu and Kinshasa
- Delay in funding for construction (DFID DRC); Supervision under AFCAP 2.



- Updating the ANE Work Norms
  - Draft completed + translated to Portuguese
  - Regional dissemination workshops
- Establishment of Research and Knowledge Management Unit
  - Research Steering Committee and Research Technical Committee formed
  - Strategic Plan & Business Plan
  - Capacity Building and Skills Development Plan
  - Dissemination workshop.
- LVR Design Manual (AFCAP 2)



- Monitoring of experimental sites (Bagomoyo and Siha)
  - Performance of different pavement and surfacing options
  - Investigation of cracks in concrete strips and slabs
  - Capacity development for longer term monitoring
- Low Volume Roads Design Manuals
  - Two awareness workshops
  - Technical Working Group established
  - Draft manual before the end of AFCAP 1
  - Further consultation and dissemination and publishing under AFCAP 2
- Technical Assistance to PMO-RALG to develop Road Research Capacity in the Infrastructure Development Unit in Dodoma
  - Research policy and strategic plan
  - Appointment of research manager
  - Procurement of laboratory equipment.



## 1. Updating of Standard Specifications for Road and Bridge Works (2002):

- Draft by end of June then final peer review
- Unresolved technical issues (BS vs ASTM/SANS)

## 2. Bridge Design Manual:

- Final draft by end June
- Permission received from AASHTO

## 3. Updating Low Volume Roads Design Manuals (2011) under AFCAP2:

- Otta seal design & DCP design method
- Geometric design standards
- Already used on 36,000km gravel roads.



# Ethiopia Research Project

## Otta seal experimental sites:

- 2<sup>nd</sup> seal complete
- ERA built ~2km at Tulubolo and plan to seal 80km
- Used on wereda centre road sealing project (200km)



## Improving the performance of Hot Mix Asphalt Concrete through Refusal Density Design

- 1<sup>st</sup> experimental section complete (report being finalised)
- 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> sections under AFCAP2 (design already prepared)



Photos TRL

- Used for design of 60km LVSR under ASWAp
- Training for consultants and Roads Authority (April)
- Further training required (AFCAP2?).
- Updated version of manual (DCP gravel road design catalogue?) AFCAP2.



1. **Guidelines for the Use of Sands in Road Construction**
  - Final Guideline by end July
  - ASANRA requested hard copies (AFCAP2)
  
2. **Peer Review of Asset Management Systems in SADC States:**
  - Review of self-assessments carried out in 9 countries
  - Final workshop in Jan 2014
  - ASANRA Board agreement to support implementation of recommendations and repeat process in 2017.

## Phase 1: Literature Survey & Awareness Raising

- Desk study complete
- Lilongwe regional stakeholder workshop.

## Phase 2: Detailed recommendations for modifications to specifications (AFCAP2)

- Back analysis of existing roads
- Brazil study visit
- More awareness raising.



Mchinji - Lilongwe Road Malawi

### **1. South African Roads Federation/IRF Conference CSIR Conference Centre Pretoria, September 2014**

- Four abstracts from AFCAP accepted

### **2. Africa Studies Association UK Conference University of West Sussex Brighton, September 2014**

AFCAP granted two discussion groups:

- Mobile phones, mobility and transport in Africa: new connections, new challenges
- Building a research community for the rural transport sector in Africa

### **3. 7<sup>th</sup> Africa Transport Technology Transfer Conf, Victoria Falls, May 2015**

- No commitments from AFCAP but expectation of AFCAP support.

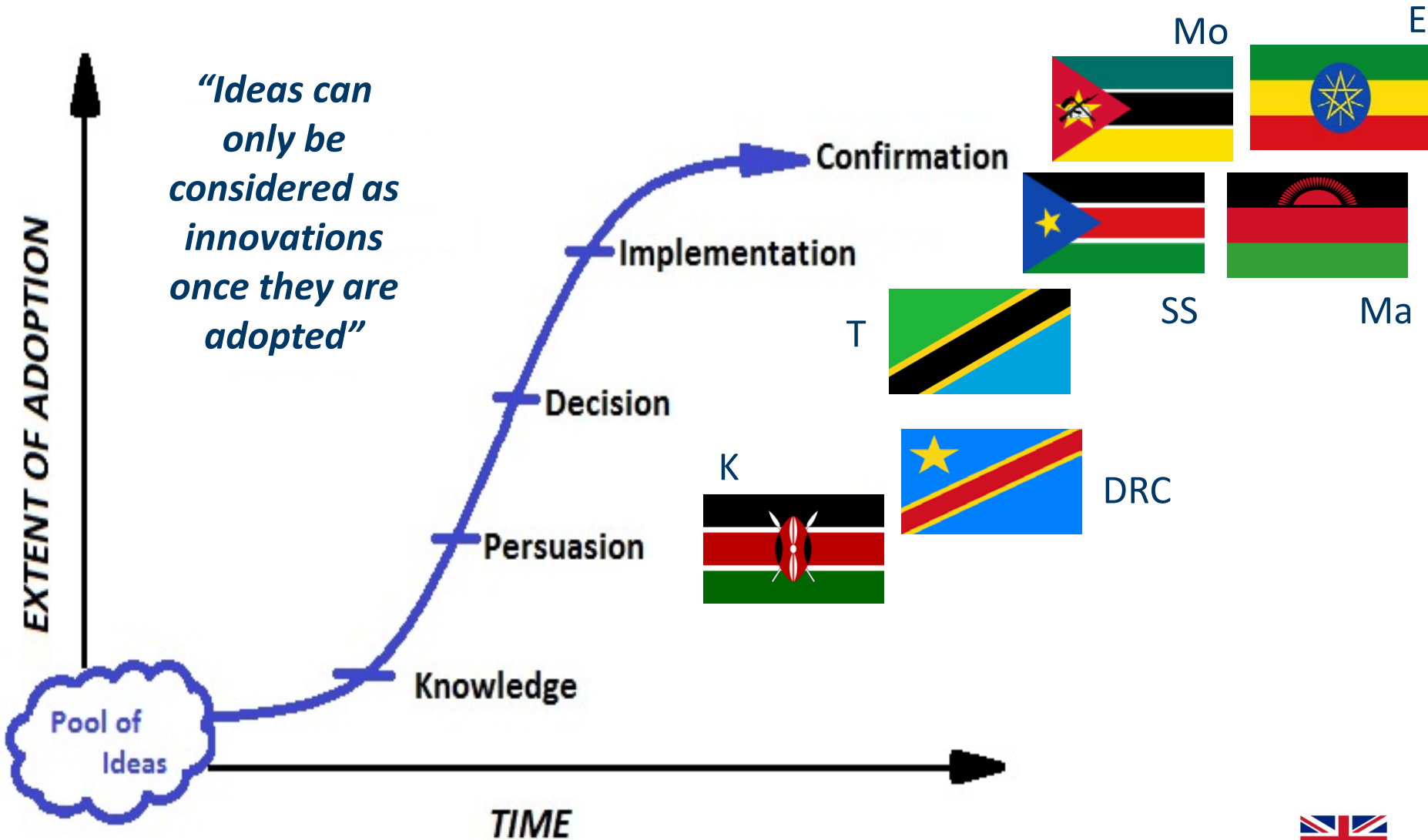
### **4. TRB 11th International Conference on Low-Volume Roads Pittsburgh, Pennsylvania, USA, July 2015**

- Five abstracts have been accepted by the organizers.
- Draft papers to be submitted by 15<sup>th</sup> July 2014.

### **5. Conference for Asphalt Pavements in Southern Africa (CAPSA'15) Sun City RSA, August 2015**

- AFCAP responsible for a session on low volume roads
- Participating in conference Steering Group meeting
- Working with ASANRA to encourage participation in by SADC Member States
- Abstracts by 15<sup>th</sup> July 2014.

# Uptake of Research Findings (LVSR)



# Progress on Research Centres

