AFCAP STEERING GROUP MEETING

June 2014
Progress Report

Rob Geddes
Kenya

- 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
South Sudan

• 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.
Mozambique

- 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)
Tanzania

- 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.
Otta seal experimental sites:

- 2\textsuperscript{nd} seal complete
- ERA built \sim2km 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\textsuperscript{st} experimental section complete (report being finalised)
- 2\textsuperscript{nd}, 3\textsuperscript{rd} & 4\textsuperscript{th} sections under AFCAP2 (design already prepared)

Photos TRL
Malawi

- 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.
Regional Projects

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.
Use of Laterite in Road Pavements

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
Knowledge Dissemination Events extending into AFCAP2.

   • 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. 7th 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 15th 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 15th July 2014.
“Ideas can only be considered as innovations once they are adopted”
Progress on Research Centres