Africa Community Access Programme (AFCAP):
Supporting research and development

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What is AFCAP?

- AFCAP is an initiative to use research evidence to promote the development of sustainable, least-cost, all-weather, locally-owned access for poor rural communities

- AFCAP is a 5-year programme funded by the UK government, with a budget of £7.5 million with same amount contributed by partner governments

- AFCAP implementation started in June 2008

- AFCAP develops research collaboration between a few African countries (currently Mozambique, Malawi, Tanzania, Kenya, Ethiopia)

- AFCAP funds research, knowledge-exchange and training
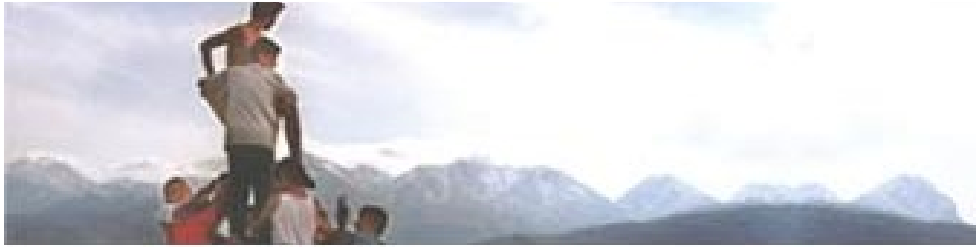
Progress to date

- developed dialogues about research and collaboration with AFCAP in 11 countries.

- established national ownership of AFCAP through AFCAP National Coordinators and AFCAP National Steering Groups in 5 countries.

- organised consultation processes on research priorities that will inform the AFCAP research agenda in 5 countries.

- identified significant demand for Community Access research in the participating countries.

- Contributed to development of wider research focus in government activity in Ethiopia

Main Areas of Demand

- Design standards for low volume roads
- Use of marginal materials in road construction
- Dealing with black cotton soils and sand
- Assessing proprietary chemical stabilisers
- Maintenance systems for low volume roads
- Capacity development in local road construction industry
- Improving accessibility in rural areas including transport services.
- Better understanding of the interactions between rural access and other development agendas

Supporting research
- Demonstration sites
- Technical Monitoring
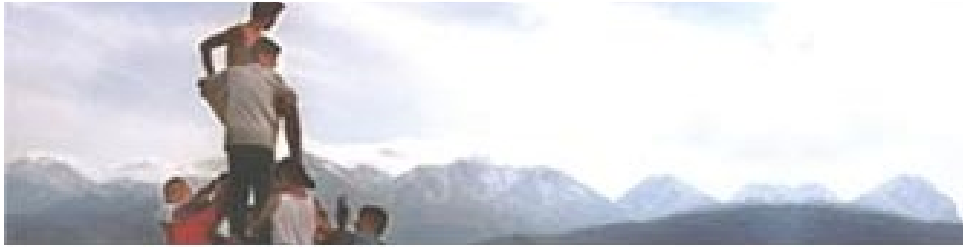- Design standards
- Specifications

- Demonstration sites
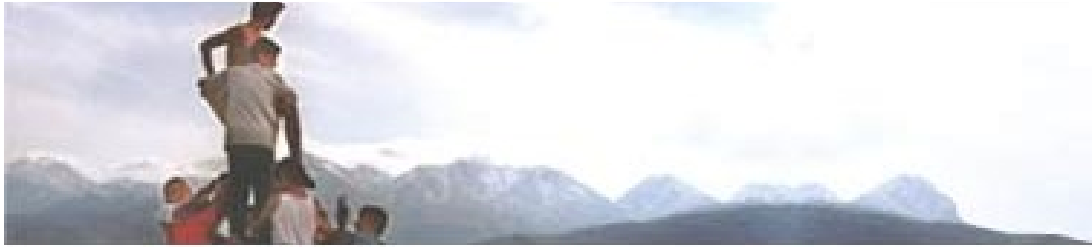- Technical Monitoring
- Design standards
- Specifications

Building Capacity
- Research and Knowledge exchange Workshops
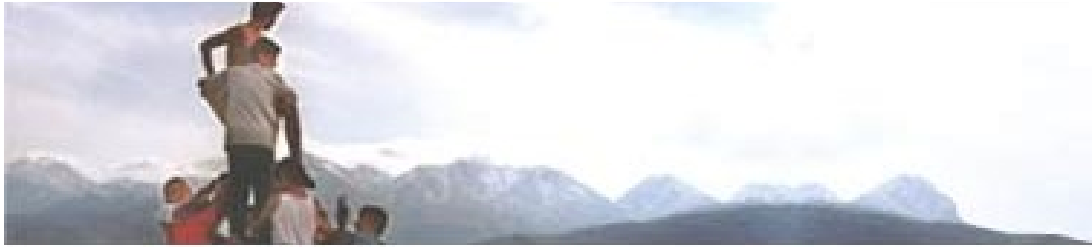- Seminars
- Study tours

Low Volume Sealed Roads

Low Volume Sealed Roads

- *AFCAP support*:

- Promoting and institutionalising SADC Guidelines (Portuguese and French translations).

- Design Manual and Standard Bidding Documents for LVRs in Ethiopia.

- Demonstration sites using LVSR approach in Ethiopia, Tanzania, Mozambique and Kenya.

- On-site contractor training on surfacing options in Mozambique
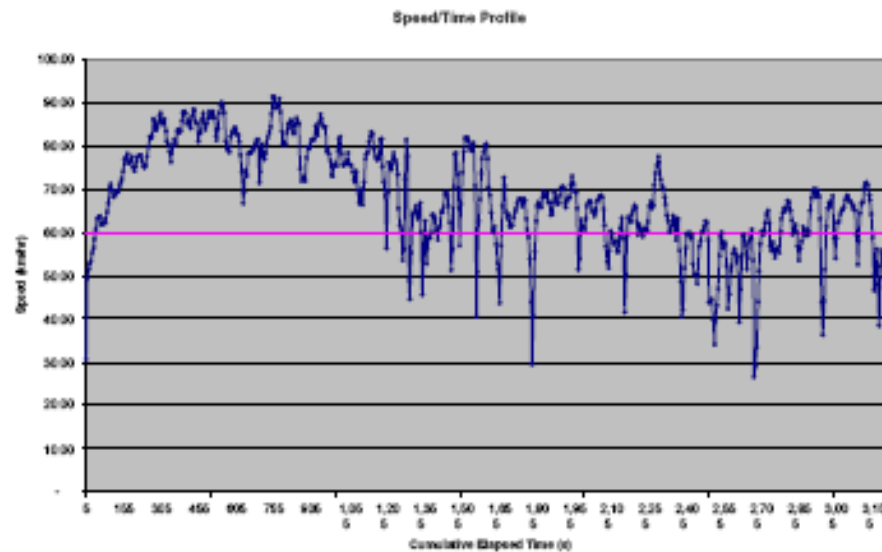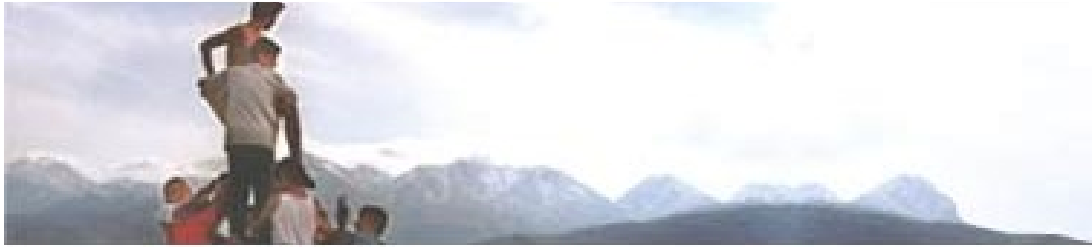
Road Maintenance Systems

- *AFCAP Support*
  - Study tour by Malawi professionals to maintenance camps in Mozambique and performance based contracts in Zambia.
  - Support for a district maintenance systems project in Tanzania to provide in-depth understanding and guidance

**Condition Monitoring System for low traffic roads
Mozambique Road Fund.**

- Simple and cost effective condition monitoring tool
Not for network management

Speed/Time Profile

TOTAL TRAVEL TIME INDEX	0.69
AVG SPEED EFFICIENCY INDEX	1.40
SUB-SPEED TIME INDEX	1.19
SUB-SPEED DISTANCE INDEX	0.08
LINK SUB-SPEED INDEX (L-SSI)	0.79

- Influence of driver behaviour and vehicle type
- Appropriate GPS equipment and software
- Consistency of results (repeatability)
- Time and distance sampling
- Appropriate Indicators
- Calibration with IRI
- Pictorial representation of results.

Road Ponds in Mozambique

Support of Research Capacity

- AFCAP is supporting the development of a research consortium on the interaction between rural community access and the MDG on maternal mortality

- This is bringing together a multi-disciplinary research team from:
  - across 6 African countries.
  - Across health and transport specialist areas
  - Across researchers and ministries responsible for implementation

- Initial focus on:
  - Development of 3million EURO proposal for EC funding

Summary

- AFCAP is active in Mozambique, Ethiopia, Malawi, Tanzania and Kenya but will expand to W Africa with extra resources.

- Demand for research and development in the area of rural access is overwhelming

- Need to work in partnership with other organisation to make a collective argument for greater resource in this area

THE END

THANK YOU!