Climate Adaptation: Risk Management & Resilience Optimization for Vulnerable Road Access in Africa, Ghana’s Perspective

Introduction

- Study commissioned in April 2016 by AfCAP
- To produce regional guidance on the development of climate-resilient rural access in Africa:
  - Through research
  - Knowledge sharing within and between participating countries.
- The output will assist the development of a resilient, future-climate-proof road network that reaches fully into and between rural communities.
- Ghana one of 3 participating Countries

Phase I

Output to address:

- Current and projected threats
- Impact of threats on LV road infrastructure
- Risk vulnerability assessment methodologies
- Adaptation methodologies
- Engineering and Non-engineering options
Phase II
Principally focused on:
- Demonstration of appropriate practices
- Capacity building
- Update and embedment of outcomes

Demonstrations largely focused on demonstrating:
- Climate vulnerability assessment
- Climate adaptation methodologies

Guidelines Produced

- Climate Adaptation Handbook

Supported by 4 other Guidelines

1. Change Management Guidelines
2. Threats and Vulnerability Guidelines
3. Engineering Guidelines
4. Non-Engineering Guidelines

Implementation (Ghana)

Activities following the production of Guidelines:

1. Stakeholder Engagement
2. Capacity Building
   ✓ Climate vulnerability assessment
   ✓ Adaptation methodologies
3. Demonstration Site

1. Stakeholder Engagement

Stakeholder Workshop (July, 2018)
Involving Policy Makers, Development Partners And Institutions Involved in Climate Resilience

- Climate Adaptation Handbook/Guidelines
- Change management issues related to climate change
- Training session that explored the embedment of climate change in vulnerability assessments and decision support systems, policy implications.
- 30 participants drawn from CSIR (WRI), BRRI, Road Agencies, EPA and other stakeholder agencies attended
2. Capacity Building

**February, 2018**

- 3-Day Training workshop on Climate adaptation methodologies

- Participants from Road Agencies, Local Government Secretariat, Contractor Association, Consultants Reps, EPA

**November, 2018**

- 1 Week Climate Vulnerability Assessment Training Workshop

- 12 participants from Ministry and Road Agencies

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*IRIM2019 – 25-27 February 2019, Kathmandu, Nepal*
3. Demonstration Site
Tampion – Tidjo selected – 19.2km
Earmarked for rehabilitation. Design completed and awaiting tender

The dominant problems identified were:

1. Erosion of side drains and road surface
2. Impassability due to poor materials and local ponding of water
3. Poor road condition due to unsuitable wearing course gravel
4. Flooding of the road where no drainage or insufficient structures exist
5. Erosion around existing drainage structures

Uptake and Embedment Efforts

- AfCAP made input into the Climate Change component of Ghana’s National Transport Policy that is currently being reviewed

- Demonstration site to highlight best practices
Way Forward

▪ Efforts are being made to secure funding to implement recommendations made by Climate Adaptation Project team on demonstration site.

▪ Need for additional training to reach more road agencies’ staff
Thank you for your attention

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