





Risk Management and Climate Resilience Optimization for Vulnerable Road Access: Emerging Lessons from Research in Africa

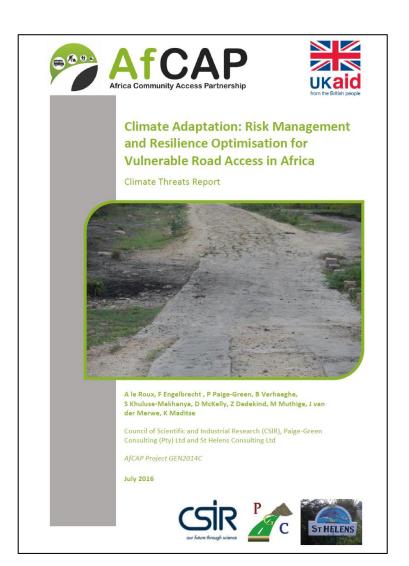
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Project Overview

- Africa is one of the most vulnerable areas to climate threats on the planet (rural)
- Lagging in acknowledgement of the threats
- To provide regional guidance on the development of climateresilient rural access in SSA through research and knowledge sharing within and between participating countries
- Phase 1 complete
 - Climate threats
 - Vulnerability assessment
 - Adaptation measures
 - Lead countries
 - Demonstration sites





Practical implementation: Demonstrators (Phase 2)







Ethiopia







Ghana

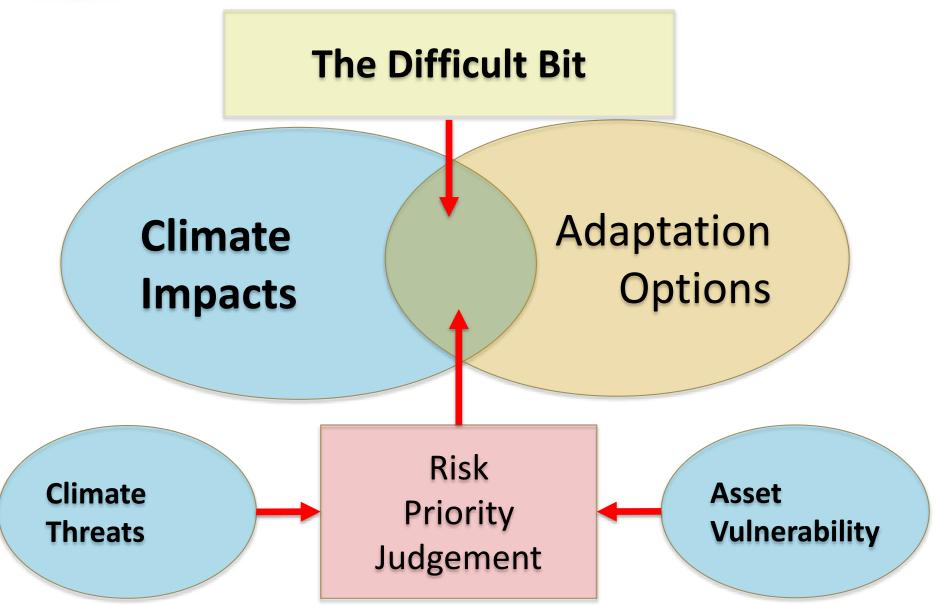






Mozambique







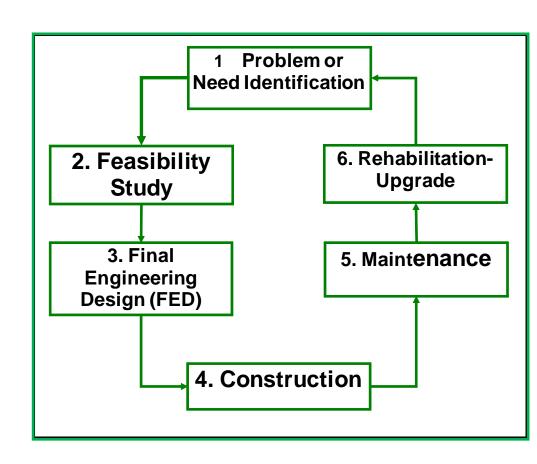
Key Lessons

- There may be no permanent "fix" to climate vulnerability.
- Adaptation responses may need to be regularly adjusted based on experience and new information.
- In situations of limited resources it is not possible to do everything - priorities need to be set.
- Paved roads are not the only solution
- Gravel/earth roads are a reality for the future and have to dealt with appropriately (spot strengthening for climate resilience)
- Fit-for purpose



- Recognise adaptation as part of the overall project cycle
- Climate impact,
 vulnerability assessment
 and adaptation measures
 should be integral to asset
 management systems
- Integrate with sector socioeconomic plans, budget allocation and resourcing
- Lao strategic plan in disaster risk management good example for Africa

Key Lessons

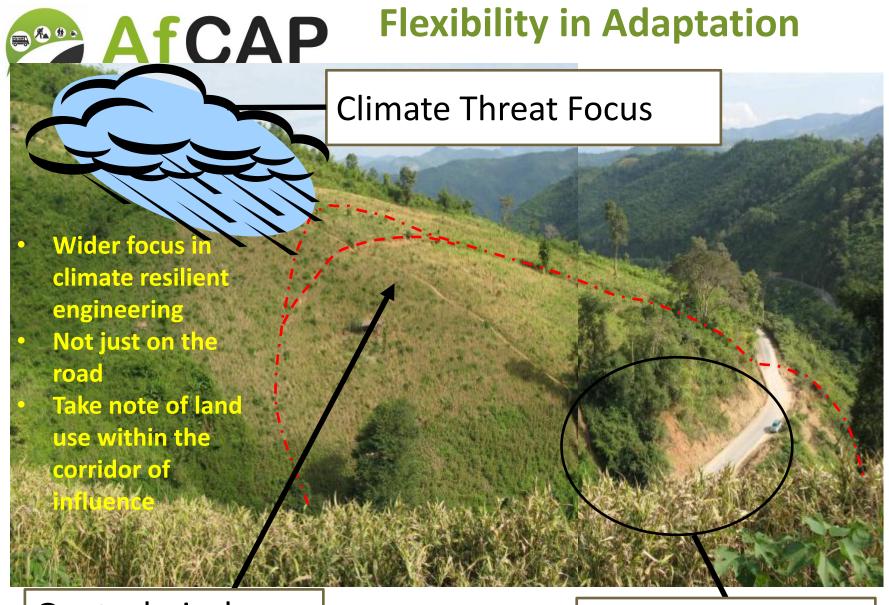




Key Lessons

- Need to address adaptation to existing infrastructure based on current climate threats and impacts as a priority.
 - Current infrastructure and maintenance system cannot cope and we need to strengthen them
- This will build resilience even if not specifically targeting future climate threats.
- Climate resilience requires a cross-ministerial holistic approach – involving route corridors and watersheds, not just the road alignment
- Need to build capacity and understanding in the practitioner core of the impacts of climate and what can be done to mitigate the threats
 - Key objective of the AfCAP project (uptake and embedment)





Geotechnical Focus

Engineering Focus







Thank you for your attention

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