



ADAPTATION FUND



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**Bhutan
Trust Fund**

For Environmental Conservation

EXPERIENCES, LESSONS LEARNED, AND KEY CHALLENGES

“Adaptation to Climate-induced Water Stresses Through Integrated Landscape Management in Bhutan”.

Namgay Wangchuk

Lesson and Experience: Stakeholder Engagement & Governance

- Early and continuous consultation
- Strong coordination with agencies & LGs
- Clear roles and community ownership



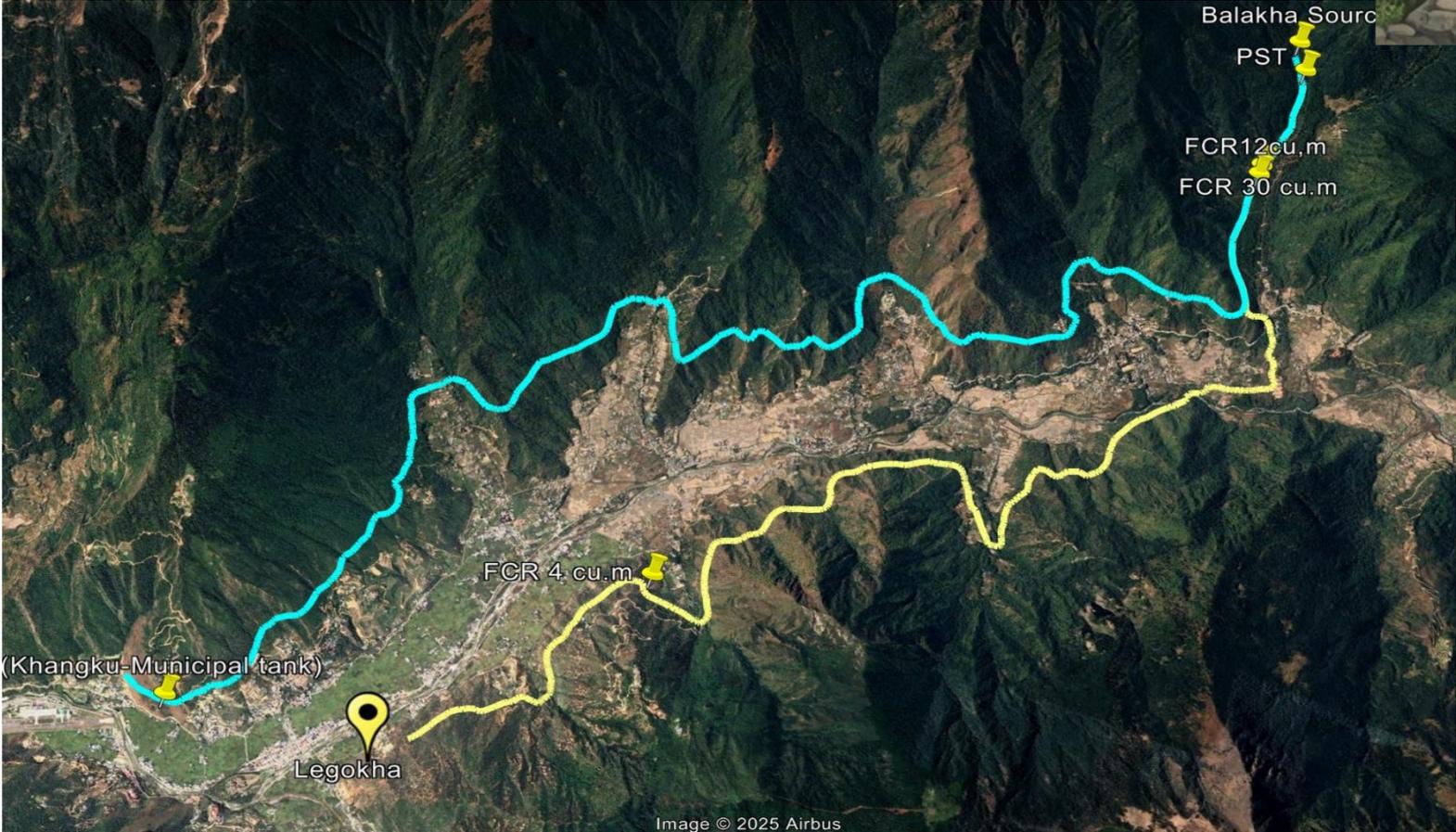
Lesson and Experience: Planning for Sustainability

- Consider future population growth
- Integrate climate change risks
- Mainstream into government plans



Lesson and Experience: Context-Specific Design & Materials

- Designs based on topography
- Materials suited to accessibility
- Durable & locally available



Lesson and Experience: Adaptive & Integrated Implementation

- Flexible implementation
- Integrated landscape approach
- Infrastructure + ecosystems + livelihoods



Lesson and Experience: Monitoring, Learning & Capacity Building

- Timely monitoring
- Continuous learning
- Training improves quality



Lesson and Experience: Environmental Safeguards & NBS

- Safeguards from the planning stage
- Higher upfront cost, long-term savings
- Improved resilience



Challenges in Implementation of AF Water Project in Bhutan



1. Remoteness & Difficult Topography

-  Remote Project Sites
-  Steep Slopes & Landslide Risk
-  Limited Road Access



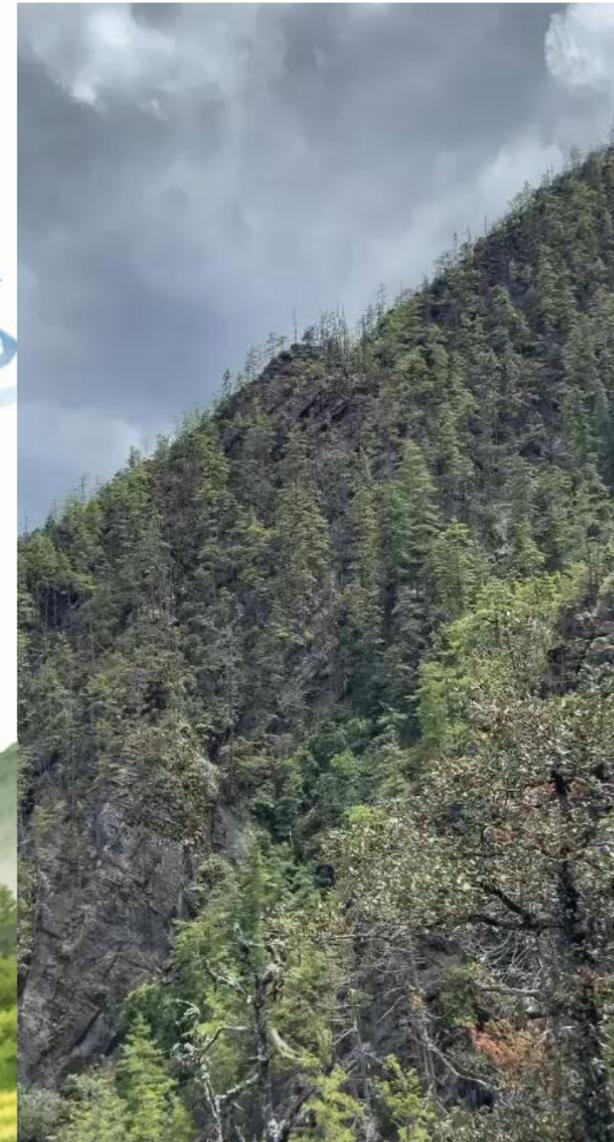
2. Timely Procurement of Materials

-  Logistics & Transport Delays
-  Limited Local Market Supply
-  Supply Chain Constraints



3. Availability of Skilled & Experienced Labour

-  Shortage of Skilled Workers
-  Need for Technical Expertise
-  Training & Capacity Gaps





“The AF Water Project in Bhutan is a testament to what we can achieve when communities, government, and nature work together. Beyond pipelines and infrastructure, this project represents resilience, partnership, and hope for future generations. As we continue to adapt to climate challenges, let us carry forward these lessons and remain committed to building a water-secure and climate-resilient Bhutan.”



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Join us on our journey...Thank you!