

Session 3 : Steps in Turning Potential Actions on the Ground

Technical Expert Meeting

23 May 2016



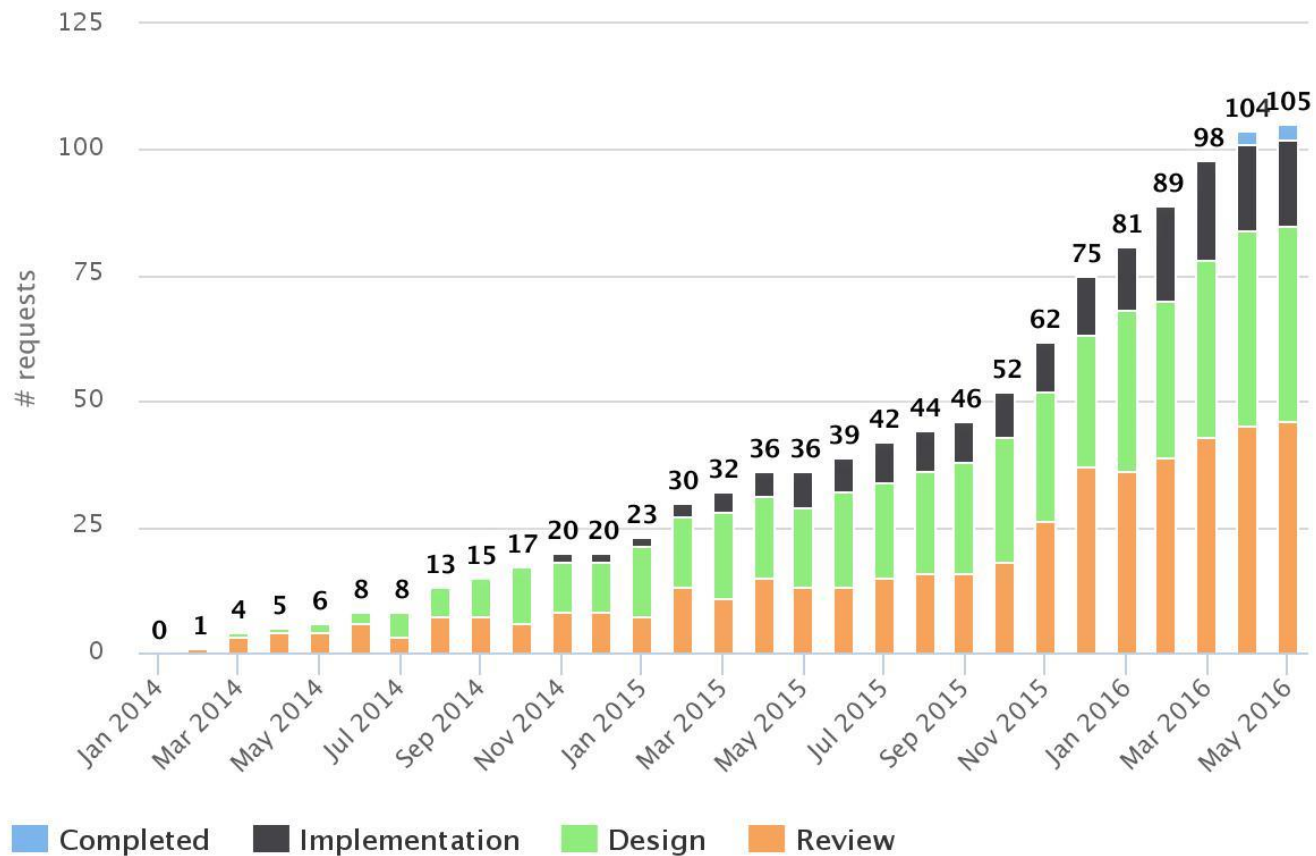
- ✦ Operative arm of the UNFCCC Technology Mechanism
- ✦ CTCN: Operating in service of Developing Country focal points (NDE)
- ✦ Working from INDC/NDC/TNA/NAP/TAP/NAMA
- ✦ In partnership with:
 - UNEP, UNIDO , 11 independent, regional and global consortium partner organizations with expertise in climate change technologies and International network of 160+ academic, multilateral, NGO and private sector institutions
- ✦ Building bridges with private sector technology solutions

Strong Technology Mandate from Paris

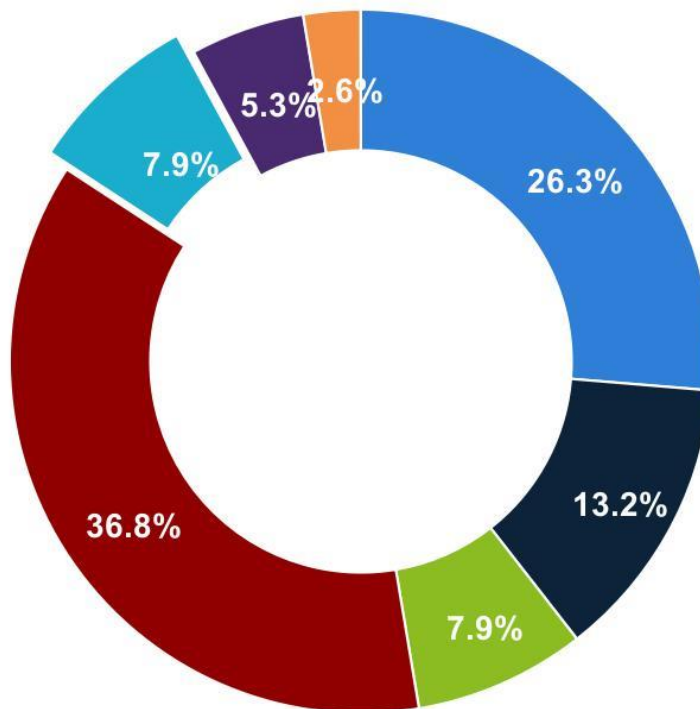
- ✦ Creation of a Technology Framework to serve the Paris Agreement
- ✦ Strengthened Technology Mechanism, with links to Green Climate Fund; SB44 workshop
- ✦ Enhanced action prioritizing technologies that are substantial, scalable and replicable <2020
- ✦ Greater focus on RD&D + endogenous/native technologies
- ✦ Technology Expert Meetings
- ✦ TNA/TAP

Technical assistance requests over time

Status of CTCN requests and responses



Technical assistance requests- Transport Sector



7.9 % of the total Mitigation Request are in Transport Sector

Request: Reducing GHG Emissions from Transport by Improving Public Transport Systems through Capacity Building and Use of Technology

Request Proponent: Road Safety and Transport Authority,

Assistance Requested:

- *improved understanding of how Intelligent Transport Systems (ITS) works, and how this could be applied in local context.*
- *improved capacity to identify*
 - (a) doable options from the gamut of ITS technologies available,*
 - (b) the appropriate financing sources, and pursue these options**through the development of quality project proposals.*

★ CTCN Response:

- National Designated Entity of Thailand and UNEP DTU implemented the TA
- Capacity building through workshops, field visit and in depth proposal formulation - discussions with 10 different stakeholders (officials) from Bhutan (Environment Commission, Road Transport Authority, Local Body, Police etc.)
- One to one interactions with the officials of different stakeholders in Thailand and overview of Thai experiences in Bangkok and Chiang Mai:

- ✓ intelligent transport systems and public transport systems by experts from Thai Intelligent Transport Systems Association (ITS Thailand),
- ✓ the Intelligent Traffic Information Center Foundation (iTIC),
- ✓ Expressway Authority of Thailand (EXAT),
- ✓ Bangkok Mass Transit System (BTS),
- ✓ Thai Traffic Police,
- ✓ Pollution Control Department (PCD),
- ✓ Municipality of Chiang Mai,
- ✓ Department of Rural Road Region 10 (Chiang Mai).



★ Immediate Outputs

- Appropriate Technologies in context of local conditions and required policy Interventions identified
- Pilot scale implementation proposed through a detailed proposal and activities planned (active discussions with Government of South Korea – bilateral cooperation)

★ Likely Impacts in future

- Investments to the tune of 200 million USD (WB/ ADB funding pipeline)
- Deployment of technologies for intelligent public transport systems, (e.g., GPS devices, surveillance cameras, display boards, data management systems, traffic management and route optimization)
- technologies for **measuring and reporting on the impacts** (e.g., air quality samplers, systems of reporting of key criteria pollutants PM2.5., SO2, NOx)
- Public transport system in Bhutan is improved with ITS complementing public transport resulting in more than 50% reduction in CO2 emissions in the transport sector due to increased share of public transport system.



- Co-benefits :improve air quality and health of city populations, Improved safety , improved mobility, reduction in travel time

Request: *Financing strategy for Transit Oriented Development (TOD) – Addis Ababa Light Rail Transit (LRT)*

Request Proponent: *Ethiopian Railway Corporation (ERC)*

Objective: *Develop an effective financing strategy that will unlock private and public investment for a pilot TOD*

Assistance Requested:

- Detailed assessment of public infrastructure needs :
- Assessment of barriers to private investment
- Formulation of financing structure and instruments

Request: ERC National Railway Academy (Second Request)

Request Proponent: *Ethiopian Railway Corporation (ERC)*

Objective: Establish institutional capacity for training railway professionals, carrying out state-of-the-art research and development and implementing international collaborative research on railway-based transport

Assistance Requested:

- Institutional Structure Assessment
- Infrastructure Curriculum Development for the Railway Academy
- Human Resource Structure Assessment and Proposed Expertise for the Railway Academy
- Inputs/Technology Identification for the Railway Academy

Thank you



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European
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and Germany

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