Technical University of Denmark

DTU

From TNAs to Low Carbon Development Strategies (LCDS) and Nationally Appropriate Mitigation Actions (NAMAs)

Dhar, Subash

Publication date:
2012

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):
Dhar, S. (2012). From TNAs to Low Carbon Development Strategies (LCDS) and Nationally Appropriate Mitigation Actions (NAMAs) [Sound/Visual production (digital)].

DTU Library
Technical Information Center of Denmark

Technology Needs Assessments
(A GEF Funded UNEP Project)

From TNAs to Low Carbon Development Strategies (LCDS) and Nationally Appropriate Mitigation Actions (NAMAs)

Subash Dhar
UNEP Risoe Centre

Experience Sharing Workshop
Bangkok
10-12 September 2012
Bangkok, Thailand

Contents

- TNA Process
- Outputs of Current GEF-TNA
- Framework for relating TNA with LCDS and NAMA
- Conclusion

TNA Process
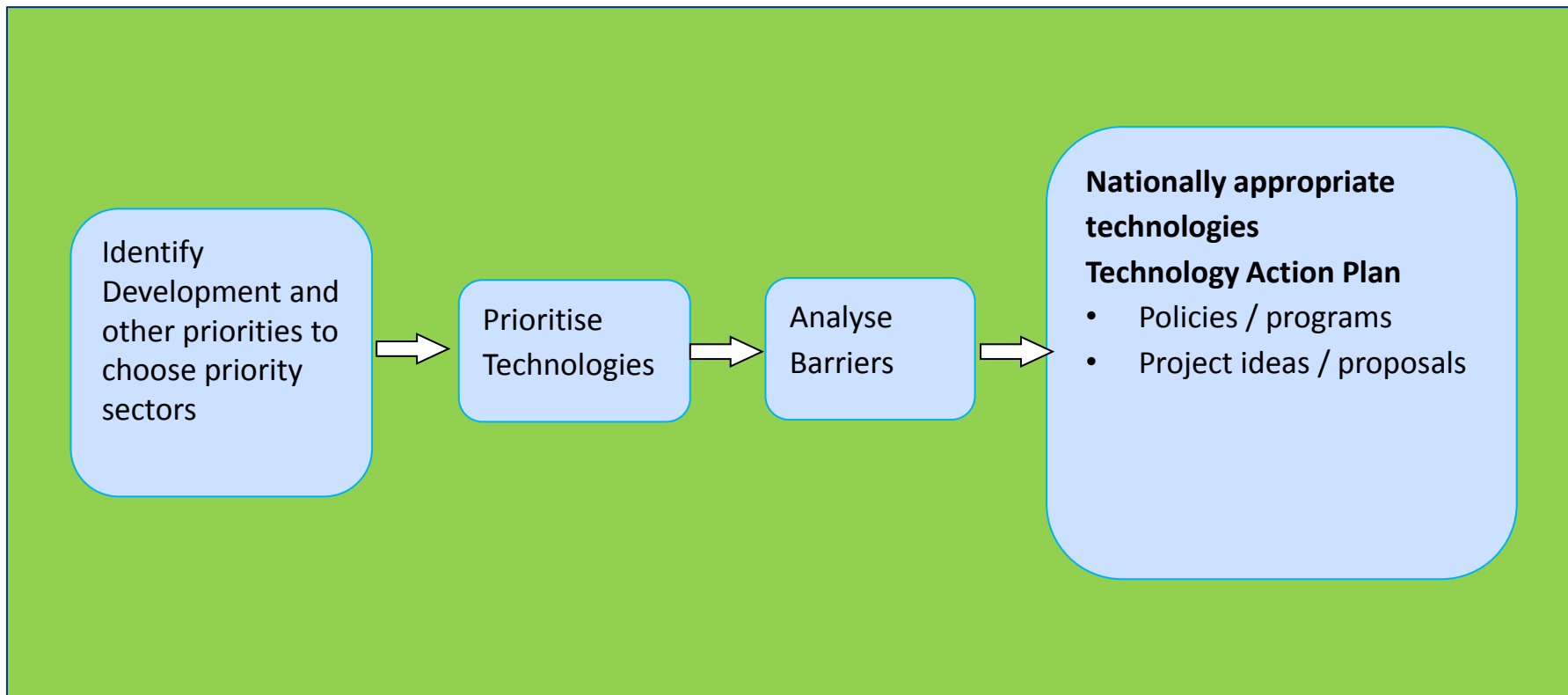
Institutional Structure for TNA

Multi Criteria & Mitigation
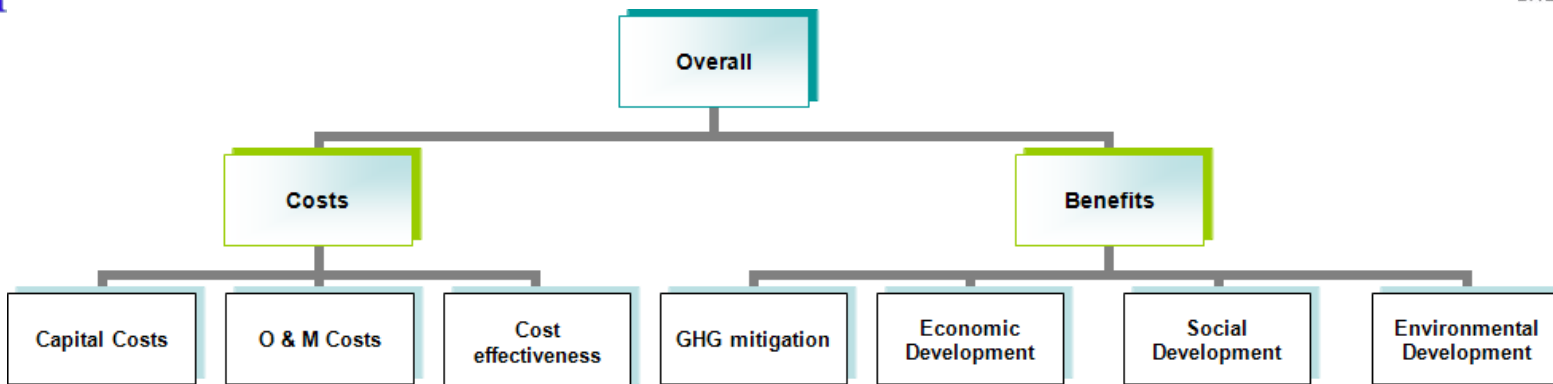
Preliminary assessment of TNA reports (Current round)

Sector prioritised by countries

Prioritized Mitigation Sectors
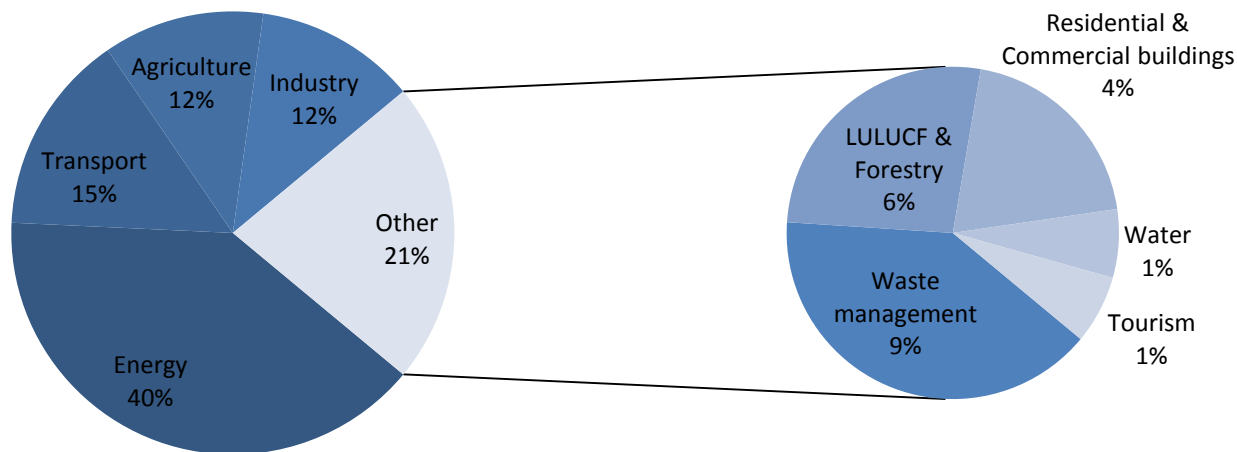
Prioritized Adaptation Sectors
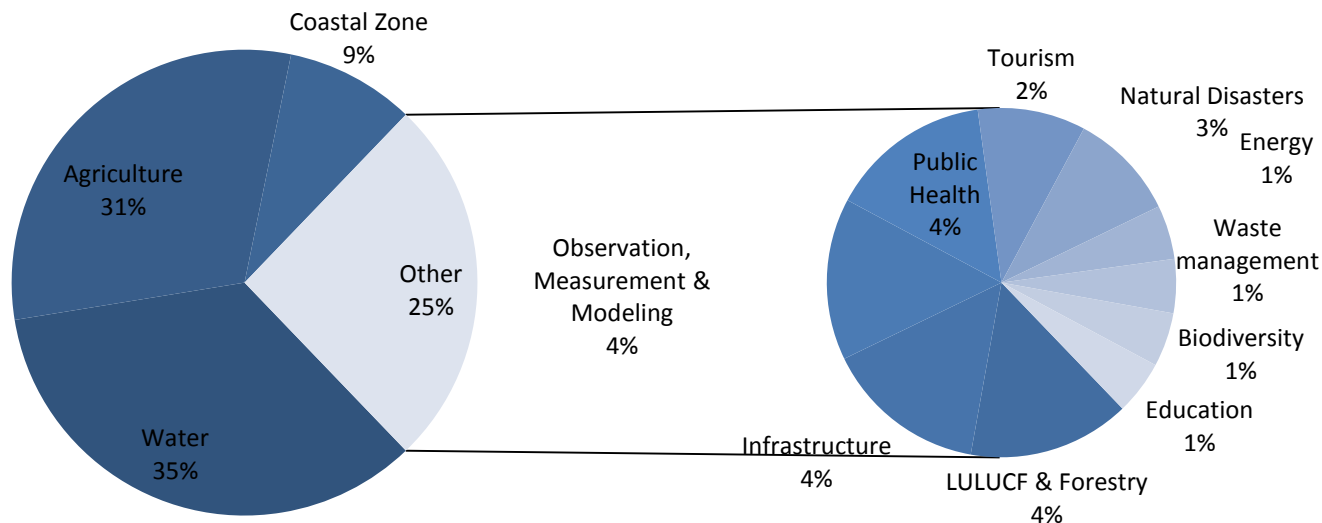
Technologies prioritised by countries (Preliminary assessment)

Most prevelant prioritized mitigation technologies:
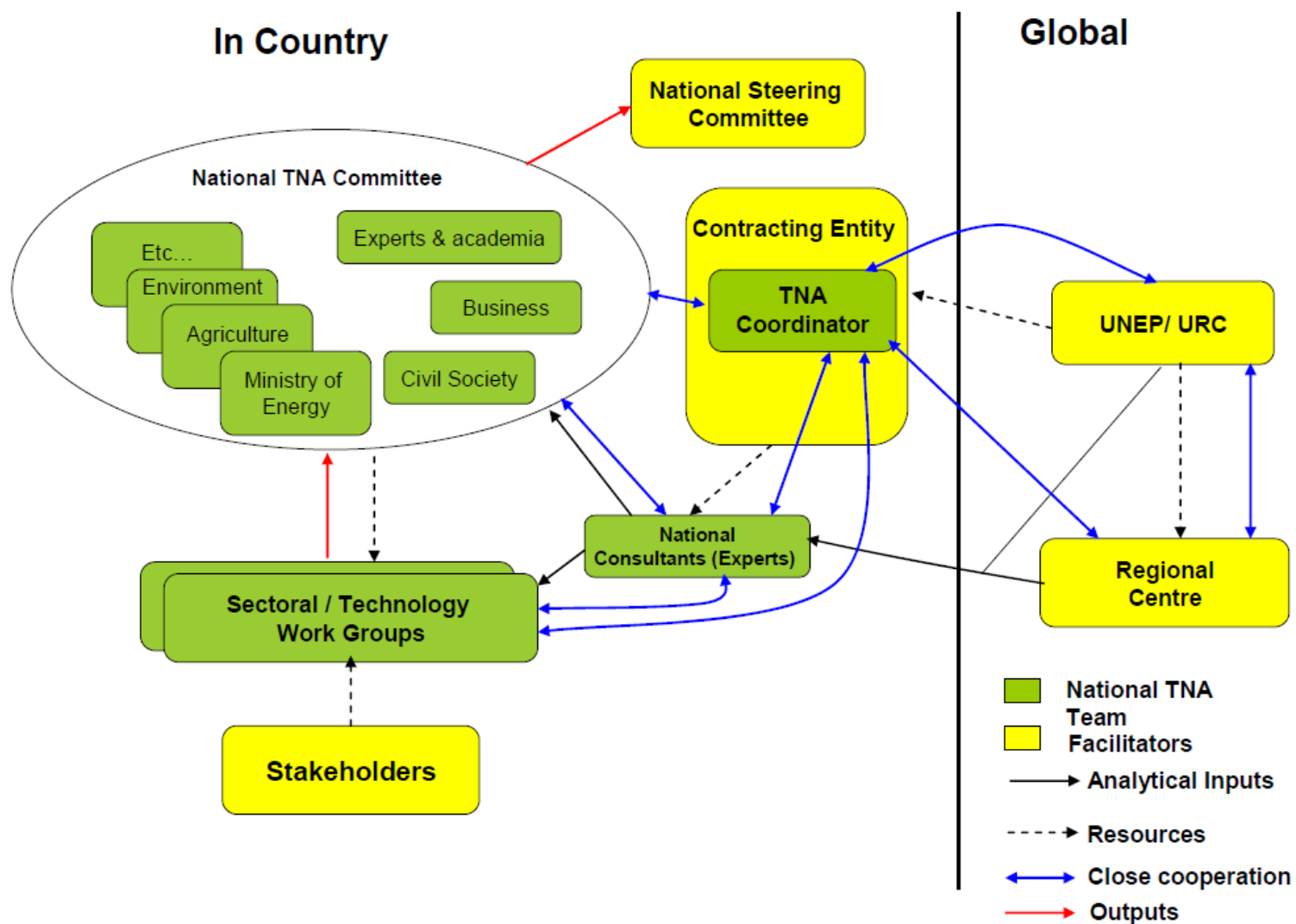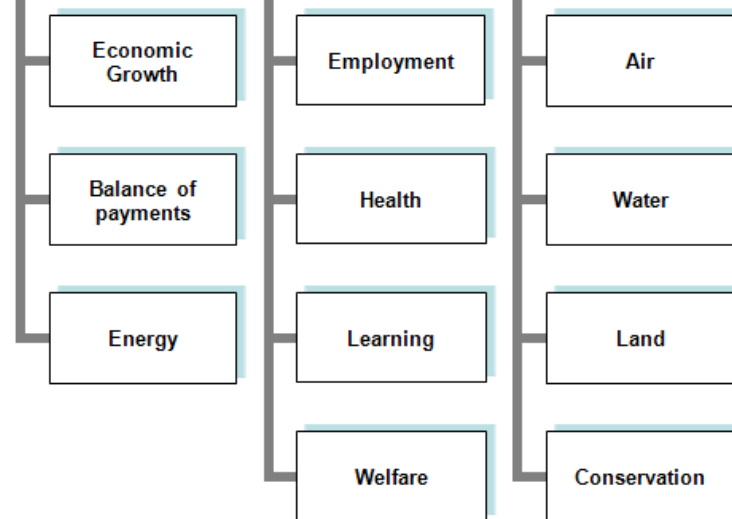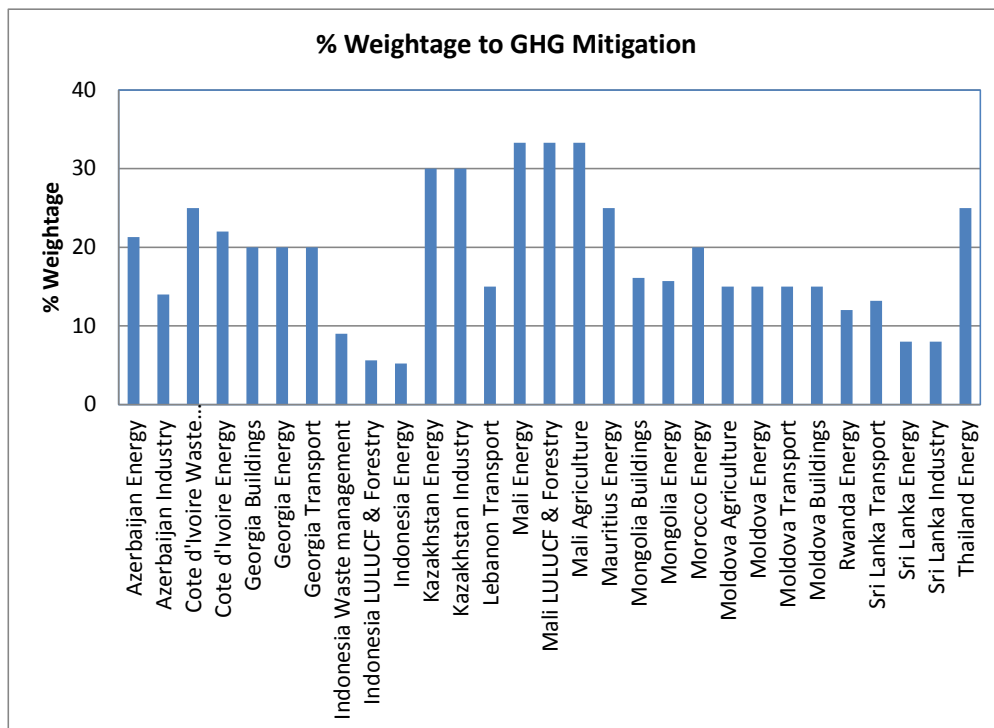
- Solar PV
- Hydro power
- Wind energy
- Combined heat and power
- EE lighting
- EE buildings
- Mode shifts (Transport)
- Urban Mass Transit
- Biogas
- Tillage practices

Most prevelant prioritized adaptation technologies:

- Sprinkler and Drip Irrigation
- Rainwater Harvesting
- Rainwater Collection from Ground Surfaces - Small Reservoirs and Micro-catchments
- Wetland restoration
- Increased reservoir technology
- Sustainable Livestock management
- Agro-forestry
- Biotechnology for Climate Change Adaptation of Crops
- Crop diversification and New Varieties
- Seasonal to Inter-annual Prediction

TNA Outcomes

- Nationally appropriate technologies
  - Though information on scale of implementation not clear
  - Pure carbon measures like CCS also generally ignored
- National appropriate Policies / programs that enable these technologies
- Project ideas related to technologies / programs

NAMA

NAMA definition

"developing country parties will take <u>nationally appropriate mitigation actions (NAMAs)</u> in the context of <u>sustainable development</u>, supported and enabled by technology, <u>financing</u> and capacity building, aimed at achieving *<u>a deviation in emissions relative to business as usual emissions in 2020</u>*"

Cancun Agreements

MRV International Tier

1. National Communications (NC) every 4 years and Biennial reports (BER) every 2 years
   - Biennial reports Measurement (M) and Reporting (R) part of NAMA
2. International Consultations and Analysis (ICA) by technical experts
   - Analysis of information in BER

(Sharma, S, 2012)

LCDS Framework using TNA Outputs

Chart (values on y-axis 0–1200, x-axis 2010–2050):
- TNA Outputs
- BAU
- Broader Sustainability Actions
- Climate Goals Global
- Residual Emissions

Climate goals (Global)

...rk

...wing scenarios

...ual scenarios

...narios

...ios using TNA

outputs

(ii) Broader sustainable scenarios

Low Emissions Scenarios

LCDS

NAMA

NAMA Framework
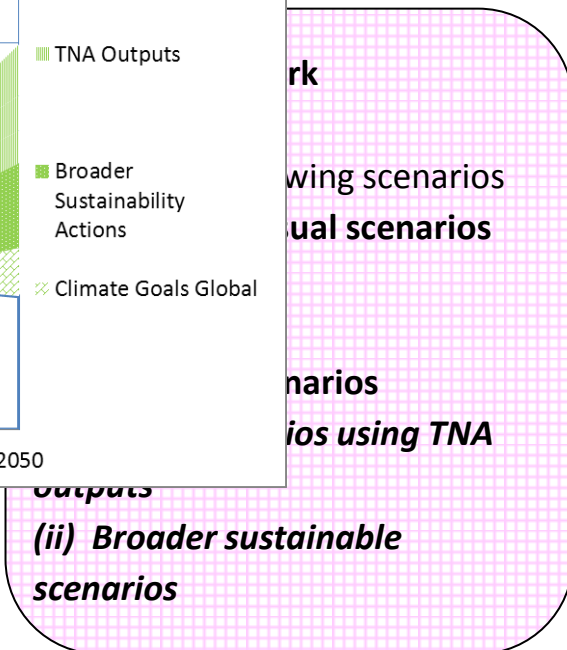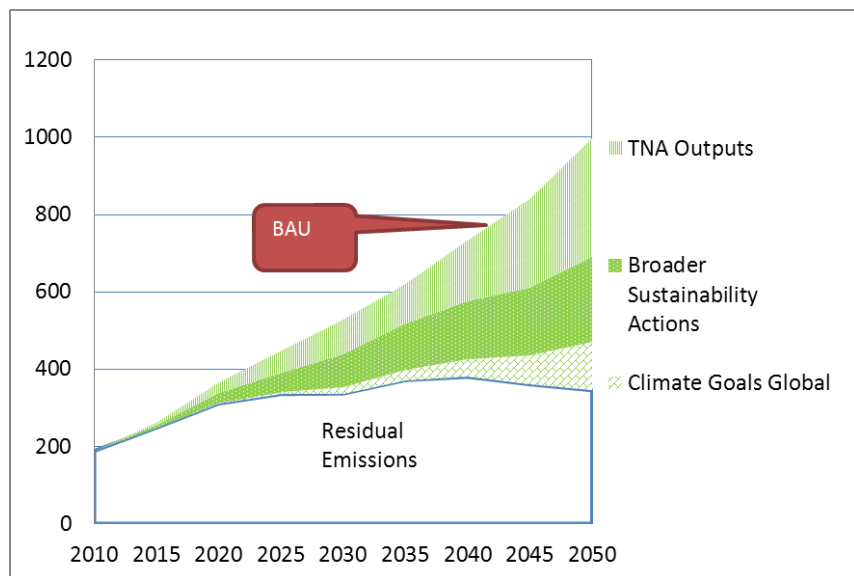
TNA outputs are in blue whereas additional elements / methodologies which are required for NAMAs and LCDS are shown in pink

Source: Dhar, S, Painuly, J, & Zhu, X (2011) From TNAs to Low Carbon Development Strategies (LCDS) and Nationally Appropriate Mitigation Actions (NAMAs) http://tech-action.org/TNA_NewsNov2011.htm

PRIORITISING NAMAS AND DEVELOPING IMPLEMENTATION PLANS

```
┌─────────────────────────┐         ┌──────────────────────────────────┐
│   Prioritize NAMAs      │ ◀────── │ Existing TNAs/TAPs, Mitigation    │
│                         │         │ analysis studies, Prioritized     │
└─────────────────────────┘         │ Mitigation options                │
            │                       └──────────────────────────────────┘
            ▼
┌─────────────────────────┐           • Policy and regulatory
│ Action Plans to Implement│ ◀──────     framework
│  Prioritized NAMAs      │           • Financing options
└─────────────────────────┘           • Institutional and
            │                           other capacity needs
            ▼
┌─────────────────────────┐
│ MRV framework for NAMAs │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐           • Implementation Work
│  Detailed document for  │ ◀──────     Plan
│ implementing activities │           • Project implementation
│ to remove non-financial │             structure
│        barriers         │           • Financial plan
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│ Ready to go project     │ ◀──────    Facilitating Support
│ documents               │
└─────────────────────────┘
```
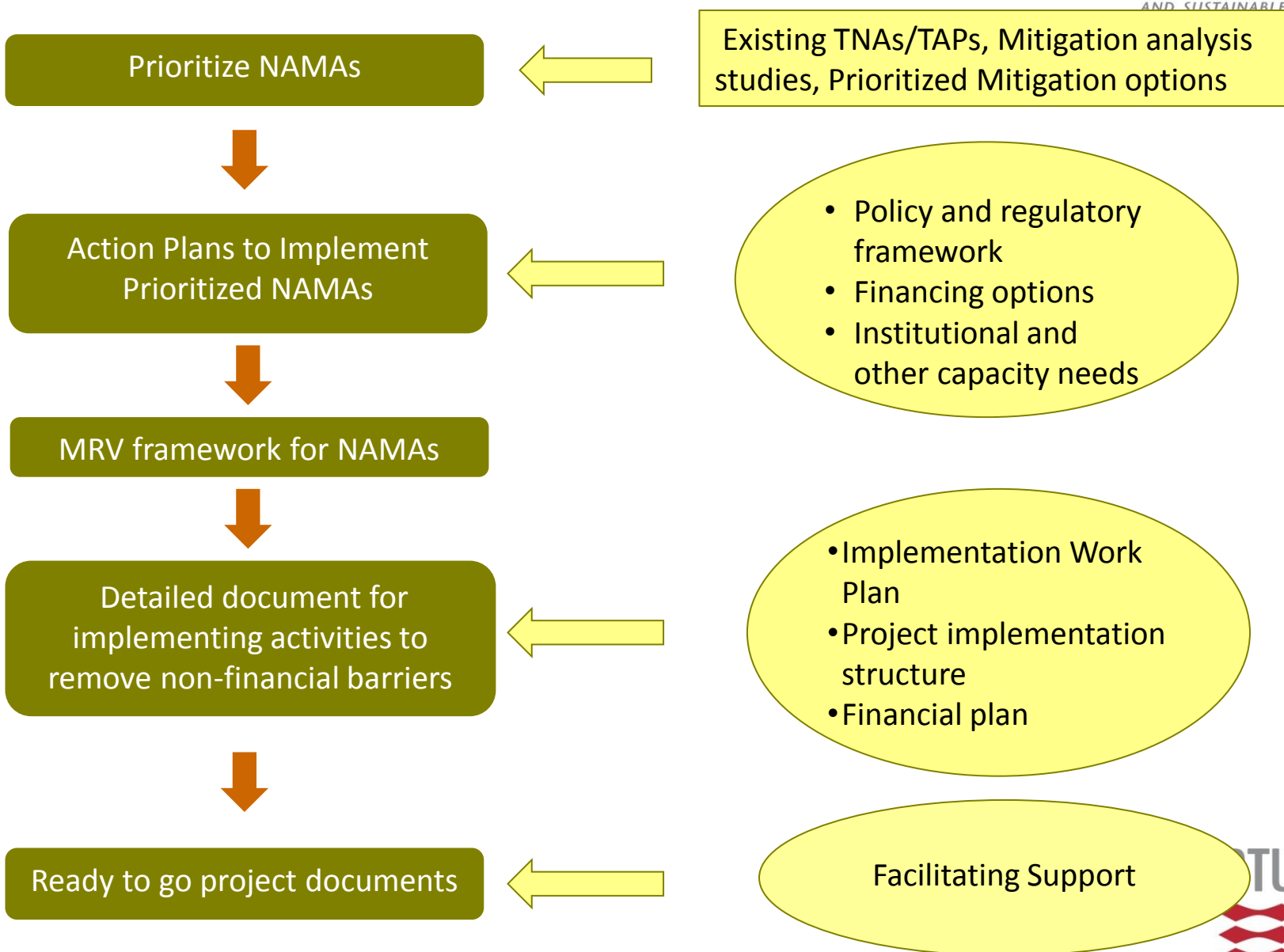
Conclusions

- Actions identified within TNA /TAP are first set of actions that can be taken for implementation as NAMAs

- Additional set of actions can be obtained from LCDS frameworks

- These mitigation actions need to be upgraded to NAMA by enumerating mitigation impacts explicitly

- Frameworks for MRV are required as these actions are to be reported under the convention

Thank You

sudh@dtu.dk
+45 4677 5135