The global Technology Needs Assessment Project

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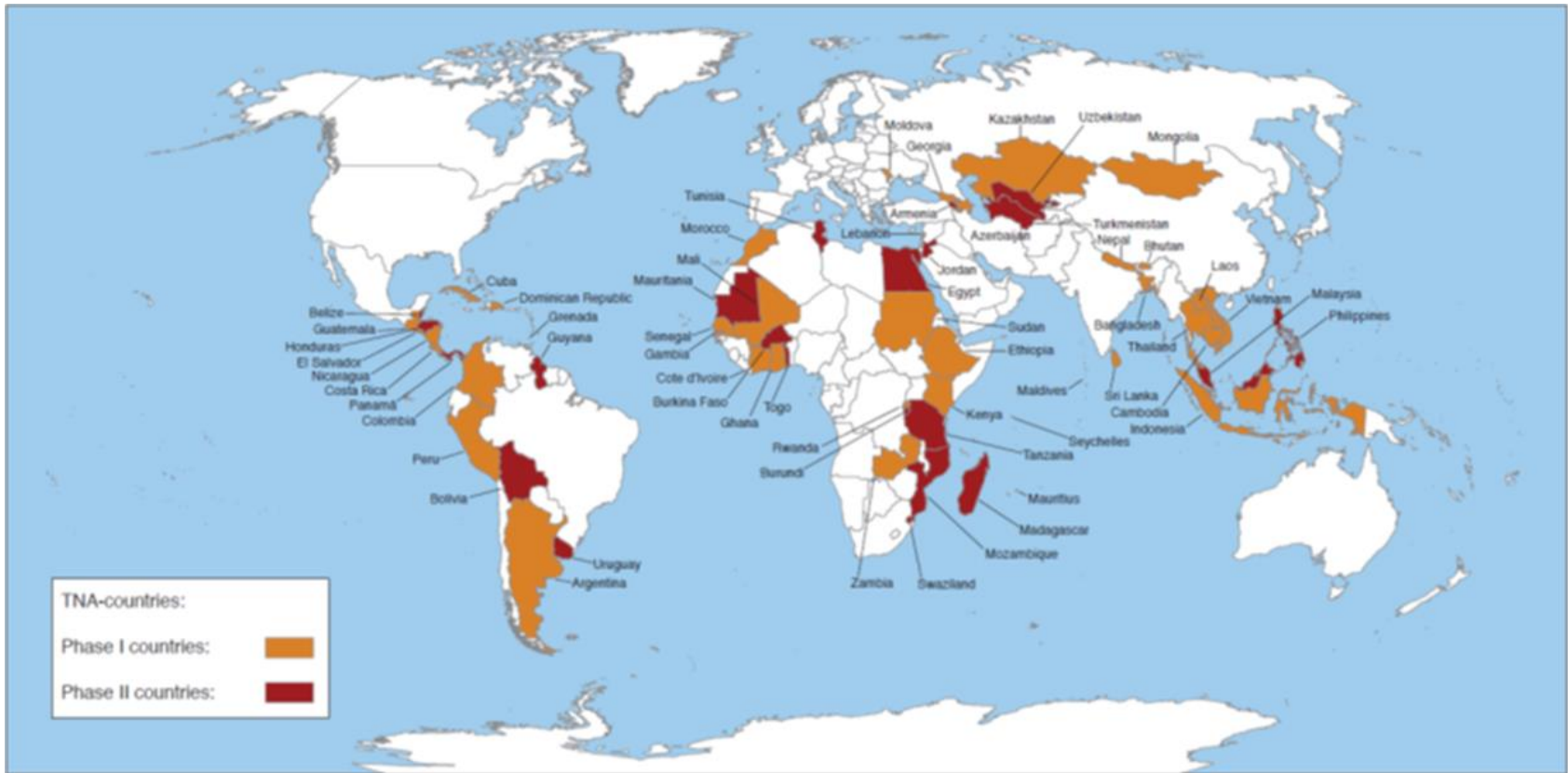*UNEP DTU Partnership*

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What are the Technology Needs Assessments?

TNAs are a set of <u>country-driven activities</u> that identify mitigation and adaptation technology priorities of developing countries, which:

- **identify and prioritise mitigation and adaptation technologies** for selected sectors;

- **identify, analyse and address barriers** hindering the deployment and diffusion of the prioritised technologies, including the enabling framework for the said technologies;

- conduct **Technology Action Plans**

Current scope of the global Technology Needs Assessment project

From Technology Needs Assessments to Technology Action Plans

Step 1

- *Identification and Prioritisation of Sectors and Technologies*
  - Multi criteria analysis, development priorities, marginal abatement costs, local employment, etc.

Step 2

- *Barrier Analysis and Enabling Framework*
  - Legal, institutional, social, knowledge
  - Policy options for creating an Enabling Framework
  - Legal, institutional, financial, etc.

Step 3

- *Technology Action Plan (TAP)*
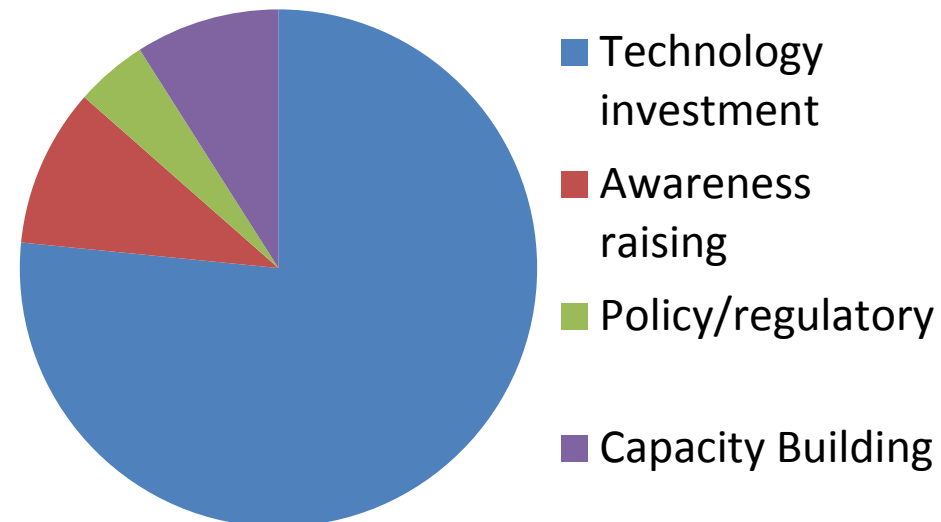 - Prioritised policy options
  - Project ideas
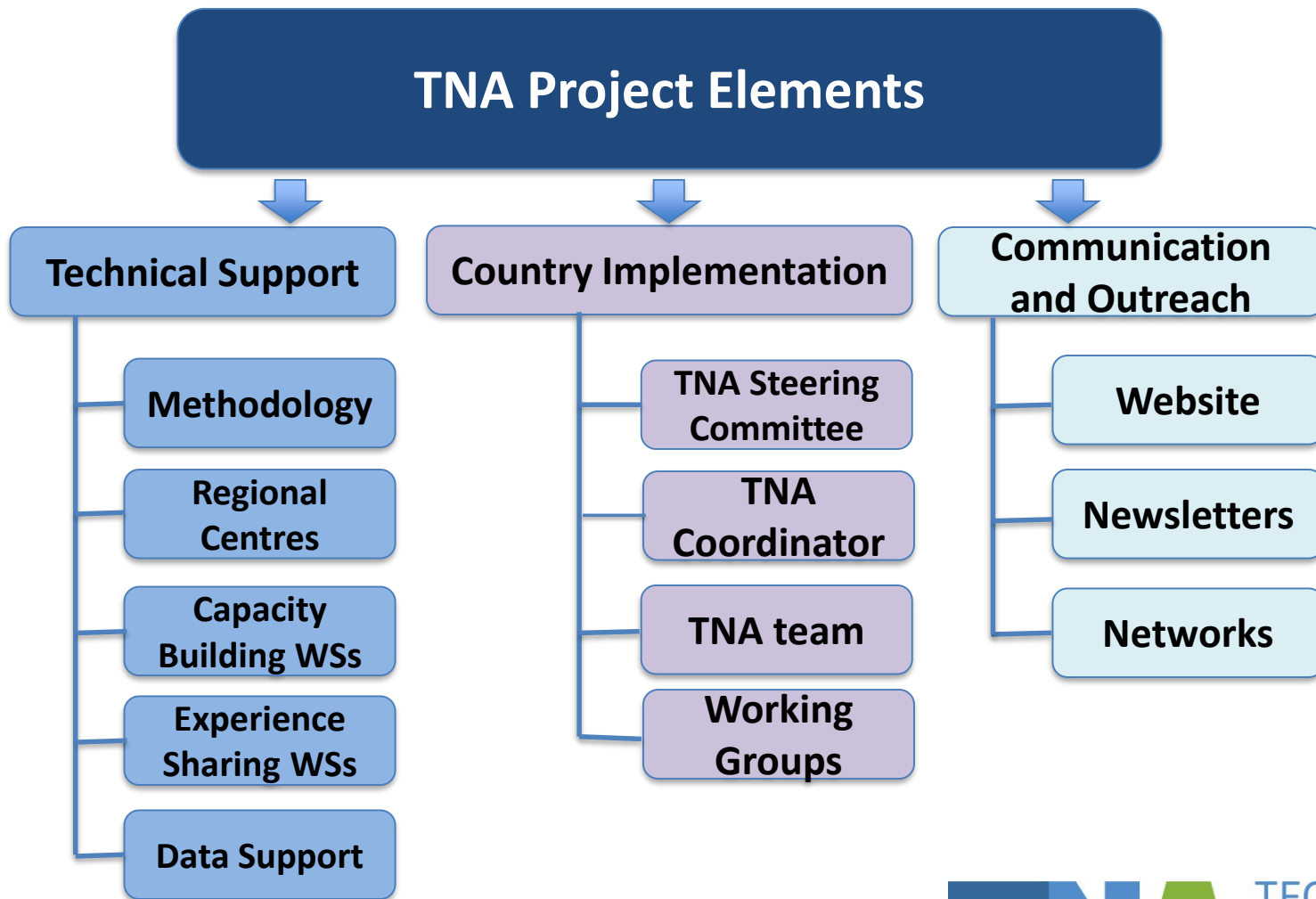
Technology Action Plans

- **Actions to create enabling framework** for technology transfer and diffusion
- **Capacity Building requirements**
  - skills and tools needed to implement Technology Actions and Activities
- **Cost estimations** of technology Actions and Activities
  - identify and estimate cost items for implementing actions and activities
    - economic assessment of sets of measures from Barrier Analysis

Desalination Technology, Mauritius
Target: 50% of hotels in coastal zone areas, over 10 years.
Total finance requirement: USD 650 000

- Technology investment
- Awareness raising
- Policy/regulatory
- Capacity Building

Process guidance

✓ Multi Criteria Assessment (MCA), TNA Stakeholder guide note; Organising the TNA process; Barrier Analysis and Enabling Frameworks guidance, Technology Action Plan guidance

Mitigation

Adaptation

Finance

Enhancing Implementation of Technology Needs
Guidance for Preparing a Technology Action Plan

available at www.tech-action.org

- Whereas NDCs so far focus on targets and implementation plans, TNAs provide the opportunity **for in-depth, thorough analyses**;

- Technologies are central to achieving NDC targets, thus **TNAs could become an integral part of the NDC process;**

- **TNAs can play a unique role in the development of NDCs** due to the information they offer on the implementation potential, ability and scale of technologies.

- NDCs are presumably updated every five years as per the Paris Agreement, whereas TNAs have no such specified periodicity in UNFCCC decisions;

Final remarks

The TNAs support:
- ✓ national strategies,
- ✓ policies,
- ✓ programmes,
- ✓ projects,
- ✓ inputs to NDCs and other processes under the Convention, such as National Adaptation Plans

More information on TNAs:
www.tech-action.org and
http://unfccc.int/ttclear/

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http://bit.ly/2p5x6DZ

FROM NEEDS TO IMPLEMENTATION:

**STORIES FROM THE
TECHNOLOGY NEEDS ASSESSMENTS**

TNA TECHNOLOGY NEEDS ASSESSMENT