

Agenda item 4.(b) i.

Background paper on updating the guidelines on TNAs

TEC/2022/25/5

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Background paper on updating the guidelines on TNAs

COP, CMA decisions and SBI conclusions

- 1/CMA.15, Annex, paragraph 12 c – technology framework, thematic area implementation, actions include activity to **review the TNA guidelines and updating them** as necessary with a view to TNAs leading to plans and implementation that are aligned with the transformational changes envisioned in the Paris Agreement.
- The COP 21 requested the SBSTA-40 (May 2016), to initiate the elaboration of the **technology framework** established under Article 10, paragraph 4..... taking into consideration that the framework should facilitate, inter alia:
 - (a) **The undertaking and updating of TNAs**, as well as the enhanced implementation of their results, particularly TAPs and project ideas, through the preparation of bankable projects;
 - (b) The provision of **enhanced financial and technical support** for the implementation of the results of the TNAs.
- **SBI 56** invited the TEC, in consultation with the CTCN and the operating entities of the Financial Mechanism to consider, **when updating the guidelines for TNAs**, how developing countries can be supported in updating their TNAs and implementing their TAP and TNA outcomes.



Methodology

- Since the inception of the GEF-funded Global TNA project in 2009, the methodology for undertaking a TNA and preparing TAPs has been continuously updated and enhanced by the Implementing Agency UNEP and its Executing Agency UNEP-CCC (Former UNEP DTU Partnership) in close collaboration with the UNFCCC Secretariat and the TEC.
- The methodology has evolved from the original three TNA Handbooks prepared in 2001– 2009, which mainly focused on technology prioritization, stakeholder engagement, and project ideas, to a methodology that provides in-depth guidance on how to identify barriers and enablers for technology transfer and diffusion, the development of TAPs, and the preparation of project concept notes (2020).
- The TNA Step-by-Step guidance, which is the main handbook used by national TNA teams through all the steps in the TNA process, includes guidance on how TNAs take starting points in national development and climate objectives, including Nationally Determined Contributions (NDCs).

Methodology

- The methodology has continuously been developed in response to regular feedback from countries, and recommendations from terminal evaluations of TNA Phase I and II.
- It has always been developed with the aims of:
 - closing the gap between project ideas or action plans and their implementation potential;
 - building national capacities through national, regional, and global level training workshops;
 - mobilizing stakeholders, including governments, development organizations, public and private financiers, and private sector actors for TAP implementation.

Background paper on updating the guidelines on TNAs.

- In the table below, an overview is provided of the existing TNA methodology and guidebooks.

Overview of the existing TNA methodology and guidebooks	
<i>TNA Process Step</i>	<i>Main Guidance and tools</i>
Cross-cutting guidance	<p>TNA Step by Step (2019)</p> <p>Guidance for a gender-responsive Technology Needs Assessment (2018)</p> <p>Transformational Change Guidance for technology Needs assessment (2022)</p>
Step 1: Technology Prioritisation	<p>Identifying and prioritising technologies for climate change adaptation (2015)</p> <p>Identifying and prioritising technologies for mitigation (2015)</p> <p>TNA Sector Technology Guidebooks:</p> <p>Adaptation</p> <ul style="list-style-type: none"> - Water (2011) - Agriculture (2011) - Coastal zone (2010) <p>Mitigation</p> <ul style="list-style-type: none"> - Transport (2011) - Buildings (2012) - Agriculture (2012) <p>Cross-cutting</p> <ul style="list-style-type: none"> - Urban contexts (2021) - Indigenous Peoples and Climate Technologies (2021)
Step 2: Barrier Analysis & Enabling Frameworks	Overcoming Barriers to the Transfer and Diffusion of Climate Technologies (2015)
Step 3: Technology Action Plan (including project ideas)	Enhancing Implementation of Technology Needs Assessments – preparing Technology Action Plans (TAPs) (2017)
Step 4: Project Concept note	Finance Guide for Implementation of Technology Action Plans (2020)

Possible TNA guidance developments

- For updated TNA guidance developments, and for possible considerations for inclusion of new and updated TNA guidance in a TNA Phase V of the Global TNA project and any other TNA sources, it could **be considered to develop guidance and methodology on the role of TNAs and TAPs in preparing and implementing countries' long-term Strategies.**

Sources of inputs

- There are several sources of inputs to update the TNA guidelines.
- The latest two TNA synthesis reports are synthesizing and compiling the TNA reports of countries and indicate several success stories, lessons learned, and challenges.
- After the global TNA project phases I-II were completed, they undertook terminal evaluations, which also highlighted possible areas for consideration regarding enhancing the effectiveness of the TNA process.

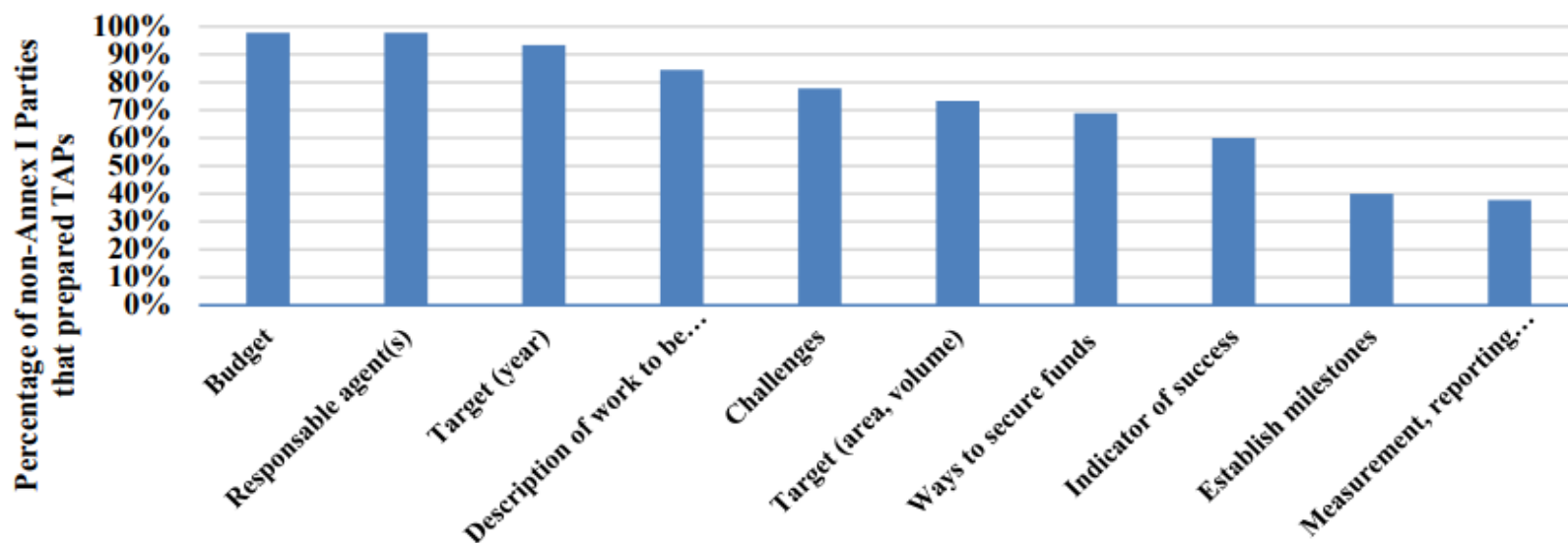
Sources of inputs

- The UNEP-DTU partnership (UDP) developed a series of success stories brochures which highlighted successful implementations of dozens of climate technology projects in developing countries. They are also a good example of how the countries were guided when going through the TNA exercise, and they indicate some benefits and potential gaps in the guidance.
- The transformational change process may also have an influence on future TNA guidance. Below, a draft of more concrete elaborations of these elements is provided for your consideration.

TNA 3rd and 4th synthesis reports

Most of the TAPs included key information necessary for transferring project ideas into implementation. Some of the information was not always covered by the TAPs, such as challenges, sources of funding, success indicators, etc. The new guidance could reflect these levels of coverage and help to **enhance the completeness of the TAPs**.

Levels of reported elements in technology action plans of non-Annex I Parties



Terminal evaluations of TNA Phase I and Phase II projects

- It was recognized that TNAs, if properly developed, had a great added value for strengthening national strategies, supporting countries in the formulation and implementation of their NDCs, and supporting the formulation of planning and reporting documents, including for the revised NDCs.
- In the global TNA project, established capacity building activities proved to be highly appreciated if the approach incorporated substantial hands-on exercises that properly addressed ways to apply the method to the local conditions.
- With some exceptions, it appears that accurate involvement and getting commitment from the private sector is challenging. Accurate timing and managing expectations in involving the private sector appear to be the keys to success.
- A guidebook on accessing international funding is available and it could be made practical on how to prepare effective proposals.

Success stories (brochures) of TNA implementation

- More than forty implemented TNA-based projects were presented in four brochures of the UDP – "From needs to implementation". The new guidance could help to identify common elements that contributed to the implementation and include these elements.

Transformational change

- Regarding the TNA guidance, issues from the TNA transformation change such as long-term strategies could be considered.

Possible next steps

- The TEC implementation task force may wish to build on this information when considering updating the TNA guidelines and agree on a process to update these guidelines.
 - *Comments received by the TEC Implementation task force are in the Annex II of the paper.*
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Thank you for your attention.

