



Technology Executive Committee

25 August 2026

Thirty-third meeting

15–18 September 2026 (18 September 2026 TEC-CTCN Advisory Board Joint Session)

Determining the topics of the first global dialogue under the Belém Technology Implementation Programme

Background note

A. Background

1. Pursuant to paragraph 13 of the decision 18/CMA.7, as reflected in activity D.10.1 of the TEC rolling workplan 2023-2027, at TEC 33, the TEC is to determine the topics of the global in-session dialogue to be organized under the Belém Technology Implementation Programme (BTIP) in 2027, taking into account: the submissions by Parties, and observers and other non-Party stakeholders received through the UNFCCC submission portal¹; the key messages and recommendations for the CMA contained in the joint annual reports of the TEC and the CTCN; and the challenges identified in the first periodic assessment of the Technology Mechanism.

B. Scope of the note

2. The annex to this note, prepared under the guidance of the Chair and Vice-Chair of the TEC, contains an overview of the sources of information that may inform, and an approach to, the determination of the topics of the first global dialogue under the BTIP at TEC 33.

C. Possible actions by the Technology Executive Committee

3. The TEC will be invited to take into account the information contained in this note when determining the topics of the first global dialogue under the BTIP at TEC 33.

¹ Available at: <https://submissions.unfccc.int/?cfsid=1534>.

Annex

Determining the topics of the first global dialogue under the Belém Technology Implementation Programme

1. The global dialogue under the Belém Technology Implementation Programme (BTIP) is to address challenges to implementing the technology priorities of developing countries at different stages of the technology cycle, and challenges identified in the first periodic assessment of the Technology Mechanism, including through the exchange of information on enablers, good practices, challenges and lessons learned.²

2. Section A provides an overview of the sources of information that may be taken into account by the TEC to determine the topics of the first global dialogue under the BTIP. Section B contains a proposed approach to the determination of the topics.

A. Sources of information

1. Submissions received from Parties, and observers and other non-Party stakeholders

3. The CMA invited Parties, and observers and other non-Party stakeholders to submit via the UNFCCC submission portal annually, by 1 July, starting in 2026, suggested topics in line with the BTIP to be discussed under the global dialogues.³

4. The secretariat launched the call for submissions on 22 January 2026. As of 20 July 2026, 25 submissions were received, including one submission received separately in two languages. Table 1 provides a list of the proposed themes and topics and weblinks to the respective submissions.

Table 1

List of the proposed themes and topics for the 1st global dialogue under Belém Technology Implementation Programme

	Submitter	Proposed themes/topics	Link/date
1	Palau on behalf of the Alliance of Small Island States (AOSIS)	- Digital climate information services for adaptation planning - Technology and climate-resilient infrastructure for coastal protection in island States - Enhancing climate related early warning system technologies for SIDS	➤ Link Received on 29/06/2026
2	Cyprus and the European Commission on behalf of the European Union	- Public policies, processes and enabling environments to accelerate the diffusion of climate technologies - including removing the barriers that prevent already cost-competitive clean technologies from scaling. - Strengthening capacities for the preparation of investment-ready climate technology projects that translate falling technology costs into bankable investments.	➤ Link Received on 30/06/2026
3	Panama on behalf of Independent Alliance of Latin America and the Caribbean Group	Dialogues to be organized into the following recurring themes, with topics changing annually: - Support to developing Parties, including NDEs - Provision of support to the Technology Mechanism and overcoming its challenges - International-level enabling environments beyond direct provision of support - National systems of innovation and national-level enabling environments	➤ Link Received on 30/06/2026
4	Food and Agriculture Organization of the United Nations	Scaling up climate technology solutions in agriculture and food systems: from technology priorities to investment-ready, implementable pathways	➤ Link Received on 30/06/2026

² Decision 18/CMA.7, paragraph 11.

³ Decision 18/CMA.7, paragraph 12.

	Submitter	Proposed themes/topics	Link/date
5	Blockchain & Climate Institute	Enhancing transparency and traceability in climate technology transfer, deployment and associated finance flows through digitalization	➤ Link Received on 30/06/2026; 17/07/2026
6	African Group of Negotiators	Affirms support for the joint submission by the G77 and China, and highlights the following: - The possibility of, providing financial resources to cover an upfront 5 year budget for the Technology Mechanism within the provision of the BTIP - Integration of developing economies into clean-technology value chains, technology cooperation structured to support industrialisation, a generation of clear signals in favour of intellectual property flexibilities, licensing arrangements and public-interest cooperation	➤ Link Received on 01/07/2026
7	United Nations Industrial Development Organization (UNIDO) on behalf of UNIDO and the United Nations Office for Project Services	Matchmaking models for climate technology implementation, with a focus on the range of matchmaking models in use, their effectiveness, and their suitability for climate technology	➤ Link Received on 01/07/2026
8	International Telecommunication Union	- Assessing and strengthening monitoring and evaluation systems for digital technology implementation support - Accounting for emissions and environmental impacts of the digital sector, including artificial intelligence - Promoting a lifecycle approach to technologies and addressing e-waste - Strengthening digital infrastructure and connectivity for climate resilience and early warning systems - Enhancing engagement of the private sector, academia and the research community - Exploring implementation support needs for digital technologies, including hardware and software dimensions - Addressing emerging opportunities and challenges related to artificial intelligence for climate action - Building national capacities for digital and AI-enabled climate action	➤ Link Received on 01/07/2026
9	Coalition for Disaster Resilient Infrastructure	Role of technology in risk-informed resilient infrastructure planning, with highlighted areas of focus	➤ Link Received on 01/07/2026
10	Center for Strategic Studies and Management	- Translating country-driven technology priorities into implementation-ready pipelines - Establishing an Implementation Accelerator under the BTIP, including a BTIP Readiness Facility - Strengthening the role of regional, national and international innovation ecosystems	➤ Link Received on 01/07/2026
11	Plataforma CIPÓ on behalf of World-Transforming Technologies and Plataforma CIPÓ	- Indigenous Peoples' knowledge, endogenous technologies, and social innovation for locally led climate solutions and the realization of fundamental rights - South-South cooperation, co-learning, and strengthening national innovation systems - Dignified, effective, and permanent social participation	➤ Link Received on 01/07/2026
12	Indigenous Peoples Alliance of the Archipelago	Indigenous knowledge as a living climate technology system	➤ Link Received on 01/07/2026
13	Timor-Leste on behalf of the Least	- Governance, scope and institutional arrangements of the BTIP - Means of implementation and enabling environments - National technology priorities and delivery mechanisms	➤ Link

	Submitter	Proposed themes/topics	Link/date
	Developed Countries	- Innovation, technology development and emerging Technologies - Institutional coordination and partnerships	Received on 02/07/2026
14	India on behalf of the Like-Minded Developing Countries Group	- Fostering a conducive international environment for technology transfer cooperation - Enhancing the implementation of climate technologies in developing countries - Ensuring the effective fulfilment and operation of the Technology Mechanism - Strengthening the effective linkages between the Technology Mechanism and the Financial Mechanism - Assessing the long-term vision for technology development and transfer	➤ Link Received on 03/07/2026
15	Japan	From technical assistance to implementation: scaling demand-driven climate priorities into implementation-ready climate technology programmes and projects	➤ Link Received on 07/07/2026
16	Uruguay on behalf of the G77 and China	Dialogues to be organized into the following recurring themes, with topics changing annually: - Support to developing Parties, including NDEs - Provision of support to the Technology Mechanism and overcoming its challenges - International-level enabling environments beyond direct provision of support - National systems of innovation and national-level enabling environments	➤ Link Received on 08/07/2026
17	Care About Climate on behalf of the Children and Youth Constituency of the UNFCCC	- Data governance and digital infrastructure - Workforce protections - Finance and capacity building - Carbon capture utilization and storage - Climate resilient agriculture and fisheries - Regulation on repair of goods	➤ Link Received on 13/07/2026
18	Resource Justice Network	- Operationalising "Usable Access" and re-opening the TRIPS/IP dialogue - Transitioning to sovereign, demand-driven Technology Action Plans - The imperative of a structural technology-finance merger before CMA 9	➤ Link Received on 13/07/2026
19	United Nations Office for Disaster Risk Reduction	- Understanding impact and risks for evidence-based action - Solutions-oriented applications of technology	➤ Link Received on 14/07/2026
20	International Indigenous Peoples' Forum on Climate Change	- The role of Indigenous Peoples' knowledge systems, technologies, practices and innovations in the Implementation of NDCs, NAPs and LT-LEDS - Equitable engagement with Indigenous Peoples' knowledge systems, technologies and innovations - Safeguards for the rights Indigenous Peoples in relation to emerging technologies	➤ Link Received on 13/07/2026
21	Chile	Dialogues to be organized into the following recurring themes, with topics changing annually: - National systems of innovation and national-level enabling environments - International-level enabling environments beyond direct provision of support - Support to developing Parties, including NDEs - Provision of support to the Technology Mechanism and overcoming its challenges	➤ Link Received on 15/07/2026
22	United Nations Environment Programme	Provided a matrix of 25 proposed topics, overlaying the five elements of the BTIP with the five themes of the technology framework	➤ Link Received on 15/07/2026
23	International Forum on Globalization	- Strengthening implementation of climate related environmentally sound technology priorities in developing countries through provision of financing - Addressing identified financial barriers and enablers for technology development and transfer in developing countries - Addressing trade barriers to and enablers for technology development and transfer, including intellectual property rights and policies - Strengthening international cooperation for technology transfer and development	➤ Link Received on 15/07/2026

	Submitter	Proposed themes/topics	Link/date
24	Canada	- Elaboration of BTIP elements - Targeting capacity-building towards bankability and longer-term scale-up - Cooperative action with the private sector and research community	➤ Link (ENG) ➤ Link (FR) Received on 16/07/2026 & 20/07/2026
25	Israel	- Domestic coordination among focal points and NDEs - International cooperation - Private sector engagement - Enabling environments for local technology adoption	➤ Link Received on 20/07/2026

1. In total, 11 submissions were received from Parties and groups of Parties, representing more than 165 Parties. 14 submissions were received from non-Party stakeholders, including 5 from the UN system, 1 from intergovernmental organizations, 6 from admitted non-governmental organizations and 2 from non-admitted entities. Submissions differ in approach and content; some provide one or a few focused topics for discussions, while others offer broader themes to guide the overarching approach for the design of the dialogue, or the operation of the BTIP itself.

2. The majority of the submissions are not specific in terms of their climate action objectives (mitigation/adaptation), particularly among Parties. In terms of sectoral focus, most submissions, particularly those by Parties, do not point to a specific sector or a specific technology. However, a few submissions refer to ‘emerging technologies’ as a potential focus of the dialogue.

3. When analysed against the elements of the BTIP contained in paragraph 8 of the decision 18/CMA.7, the majority of submissions address the element referred to in paragraph 8 (a) in line with the objective of the global dialogues as contained in paragraph 11, most address more than one element, and about one-third of submissions, primarily by Parties, address all elements of the BTIP in articulating their proposed topics for the dialogue. When addressing paragraph 8(a) specifically, a majority are focused on issues relating to the implementation of technology priorities of developing countries, while some include challenges faced by the Technology Mechanism, primarily by Parties.

4. When analysed against the key themes of the technology framework⁴, a large majority of the submissions focus on ‘enabling environment and capacity-building’, followed with a distance by ‘support’. Other three themes are addressed with a similar frequency. The linkages between the Technology Mechanism and the Financial Mechanism is a recurring issue.

2. Key messages and recommendations for the CMA contained in the joint annual reports of the TEC and the CTCN

5. The TEC and the CTCN include key messages and recommendations to Parties in their annual reports to the CMA. Table 2 provides an overview of the key messages and recommendations by the TEC and the CTCN in the implementation period of the respective rolling workplan and programme of work for 2023-2027, under the joint work programme of the Technology Mechanism. The analysis is focused on the most recent workplan and programme of work of the TEC and the CTCN to reflect the latest insights and developments in the work of the Technology Mechanism⁵.

⁴ Contained in Decision 15/CMA.1, Annex. The five key themes of the technology framework are: innovation, implementation, enabling environment and capacity-building, collaboration and stakeholder engagement, and support.

⁵ Earlier key messages and recommendations to the CMA by the TEC and the CTCN are contained in their joint annual reports to the COP/CMA available on TT:CLEAR: <https://unfccc.int/ttclear/tec/documents.html#SScompilation>.

Table 2

Overview of key messages and recommendations of the Technology Mechanism (2023-2025)

	Key messages and recommendations by the TEC	Key messages and recommendations by the CTCN
2023	- National systems of innovation - Innovative technologies and integrated adaptation solutions in the ocean and coastal zones ➤ See 2023 Joint annual report of the TEC and the CTCN (full text)	- Third programme of work of the CTCN - Coordination between the focal points of the Technology Mechanism and Financial Mechanism - Update of TNAs in conjunction with NDCs - Resource mobilization ➤ See 2023 Joint annual report of the TEC and the CTCN (full text)
	Joint key messages and recommendations on technology and nationally determined contributions ➤ See 2023 Joint annual report of the TEC and the CTCN (full text)	
2024	- Gender-responsive technology and infrastructure for sustainable urban mobility - Integrating hard-to-abate industries in the process of preparing and implementing NDCs - Realizing Early Warnings for All: innovation and technology in support of risk-informed climate resilience policy and action - Climate technologies for agrifood system transformation - Climate Technology Progress Reports 2022 and 2023 ➤ See 2024 Joint annual report of the TEC and the CTCN (full text)	- Linkage between technology needs of Parties and the biennial transparency reports under the Paris Agreement - Coordination between the focal points of the Technology Mechanism and Financial Mechanism and other national focal points - Resource mobilization ➤ See 2024 Joint annual report of the TEC and the CTCN (full text)
2025	- Deploying established climate technologies and solutions for buildings and infrastructure - Artificial Intelligence for Climate Action: advancing mitigation and adaptation in developing countries ➤ See 2025 Joint annual report of the TEC and the CTCN (full text)	- CTCN technical assistance in support of TNAs, NDCs, NAPs and other national plans - CTCN services including multi-country approaches and technical assistance follow-up activities - Matchmaking - Coordination between the focal points of the Technology Mechanism and Financial Mechanism and other national focal points - Hosting of the CTC ➤ See 2025 Joint annual report of the TEC and the CTCN (full text)

6. In its key messages and recommendations to the CMA in the 2023-2025 period, the TEC has addressed issues related to:

- (a) Climate technologies for climate change mitigation and adaptation;
- (b) Sectoral analysis of climate technologies (e.g. in agrifood systems, coastal zones, and the transport, industry and buildings and infrastructure sectors);
- (c) Technology planning tools (e.g. TNAs and NDCs); and
- (d) Cross-cutting enablers (e.g. national systems of innovation), general purpose technologies (e.g. digital technologies) and multi-sector technology applications (e.g. early warning systems).

7. The CTCN has underscored the aim of its third programme of work towards accelerating systemic transformation, building on two proven technology enablers (national systems of innovation and digitalization) and five system transformation areas (water–energy–food nexus; buildings and infrastructure; sustainable mobility; energy; and business and industry). Key messages and recommendations by the CTCN to the CMA in this period are not specified in terms of their climate change objective or sectoral focus.

8. When analysed against the element referred to in paragraph 8(a) of the decision 18/CMA.7, the TEC has primarily focused on issues related to the addressing challenges to implementing the technology priorities of developing countries, including enablers and

barriers for accelerating climate technology action globally. The CTCN has primarily focused on the challenges faced by the Technology Mechanism, including the role of NDEs.

9. When analysed against the themes of the technology framework, there is a higher concentration of issues addressed by the TEC relating to ‘innovation’, ‘implementation’ and ‘enabling environment and capacity-building’, while the CTCN mainly underscored matters relating to ‘support’ and ‘collaboration and stakeholder engagement’ in its key messages and recommendations to the CMA.

3. Challenges identified in the first periodic assessment of the Technology Mechanism

10. The first periodic assessment referred to in paragraph 69 of decision 1/CP.21 was completed in 2022. The final report of the assessment identified the main challenges in terms of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer, and points to⁶:

- (a) Limited resources allocated to the Technology Mechanism compared with the scale of action needed;
- (b) Assessing the impacts of the Technology Mechanism in quantitative terms (notably for the TEC);
- (c) Limitations in terms of dissemination and use of TEC products by the CTCN, NDEs and Parties;
- (d) Room for enhancing the engagement of the private sector and the research community in the work undertaken by TEC and the CTCN;
- (e) Limited resources for the CTCN to respond to country needs and conduct follow-up activities and evaluation of technical assistance;
- (f) Insufficient political support and visibility of NDEs in order to raise their profile within Government and the private sector;
- (g) Challenges in resource mobilization efforts for the CTCN;
- (h) Inadequate support of the CTCN to address adaptation or hardware implementation;
- (i) Additional resources required for the CTCN to respond to country needs and conduct follow-up activities and evaluation of technical assistance.

11. Challenges identified in the first periodic assessment of the Technology Mechanism are relevant to paragraph 8(a) of decision 18/CMA.7, as it relates to addressing challenges faced by the Technology Mechanism. Under the umbrella of the technology framework, these challenges are mainly linked to the themes of ‘support’ and ‘collaboration and stakeholder engagement’.

4. Recurring issues/topics across the three information sources as related to elements contained in paragraph 8(a) of decision 18/CMA.7

12. Table 3 provides an overview of how issues relating to addressing challenges to implementing the technology priorities of developing countries and addressing challenges identified in the first periodic assessment of the Technology Mechanism are featured across the three sources of information that may be taken into account for the determination of the topic of the first global dialogue under the BTIP. An additional layer of analysis is added to organize the information around the key themes of the technology framework. The frequency of issues highlighted in each category is also indicated using color-coded circles:

- ○ low frequency or no mention;
- ● moderate frequency or general mention;
- ● high frequency and recurring mentions.

⁶ For the full text, see para. 68, [FCCC/SBI/2022/13](https://www.unfccc.int/sites/default/files/resource/FCCC/SBI/2022/13).

13. When comparing various information sources, a number of recurring issues emerge around each theme of the technology framework. Without being exhaustive, these include:

(a) **Relating to the innovation theme:** innovation systems, knowledge systems, research, development and demonstration, emerging technologies;

(b) **Relating to the implementation theme:** moving from planning to implementation, project and pipeline development, finance and bankability, country-driven pathways and technology priorities;

(c) **Relating to theme of enabling environment and capacity-building:** policy, regulatory and institutional frameworks, capacity-building and skill development for technology uptake and scaling, technology transfer and cooperation;

(d) **Relating to the theme of collaboration and stakeholder engagement:** NDEs, country-level institutional coordination, private sector and academia;

(e) **Relating to the support theme:** adequacy, predictability and availability of support for the Technology Mechanism, resource mobilization, delivery and follow-up of support in developing countries.

Table 3

Overview of issues related to elements in paragraph 8(a) decision 18/CMA.7 across the information sources

	Addressing challenges to implementing the technology priorities of developing countries at different stages of the technology cycle	Addressing challenges identified in the first periodic assessment of the Technology Mechanism
Innovation	● Submissions (moderate frequency) ● Technology Mechanism key messages and recommendations (specifically and recurrently mentioned)	○ Submissions (low frequency or no mention) ○ Technology Mechanism key messages and recommendations (not mentioned) ○ Periodic assessment of the Technology Mechanism (not mentioned)
Implementation	● Submissions (moderate frequency) ● Technology Mechanism key messages and recommendations (specifically and recurrently addressed)	○ Submissions (low frequency or no mention) ● Technology Mechanism key messages and recommendations (specifically mentioned) ● Periodic assessment of the Technology Mechanism (generally mentioned)
Enabling environment and capacity-building	● Submissions (highest frequency) ● Technology Mechanism key messages and recommendations (specifically and recurrently addressed)	○ Submissions (low frequency or no mention) ● Technology Mechanism key messages and recommendations (generally mentioned) ● Periodic assessment of the Technology Mechanism (generally mentioned)
Collaboration and stakeholder engagement	● Submissions (moderate frequency) ● Technology Mechanism key messages and recommendations (generally mentioned)	● Submissions (moderate frequency) ● Technology Mechanism key messages and recommendations (specifically and recurrently mentioned) ● Periodic assessment of the Technology Mechanism (specifically mentioned)
Support	● Submissions (high frequency) ● Technology Mechanism key messages and recommendations (specifically and recurrently addressed)	● Submissions (moderate frequency) ● Technology Mechanism key messages and recommendations (specifically and recurrently mentioned) ● Periodic assessment of the Technology Mechanism (specifically mentioned)

B. Approach to the selection of the topics for the global dialogue in 2027

14. Taking into account information presented in section A, the TEC may wish to:

(a) Frame the dialogue around the two sub-elements of the paragraph 8(a) of the decision 18/CMA.7, namely addressing challenges to implementing the technology priorities of developing countries and addressing challenges identified in the first periodic assessment of the Technology Mechanism;

(b) Select one or two themes of the technology framework to define the focus of the dialogue, while maintaining the implementation emphasis;

(c) Discuss how to anchor the dialogue in concrete examples of policies which countries have implemented to address barriers to the implementation of climate technologies; and

(d) Organize focused discussions at TEC 33 to consider suitable formulation(s) for the topics of the first global dialogue under the BTIP, including sub-topics where appropriate, taking into account the proposed selection criteria referred to in paragraph 19 below.

15. The selection of the topics of the dialogue to be held in 2027 may take into account the following criteria among others:

(a) Potential impact on accelerating the implementation of climate technologies;

(b) Alignment with the objectives of the BTIP and contribution to their effective implementation;

(c) Alignment with the five key themes of the technology framework and contribution to their effective implementation;

(d) Expected impact in addressing elements of 8(a) of the BTIP decision and synergy with the rest of BTIP elements;

(e) Adherence to the guiding principles of the technology framework and paragraph 6 of the decision 18/CMA.7;

(f) Potential to inform the design of the 2028-2032 workplan of the TEC and programme of work of the CTCN, and the joint work programme of the Technology Mechanism;

(g) Balance between adaptation and mitigation, as appropriate;

(h) Reflection of diverse perspectives and responsiveness to the differentiated needs of women, Indigenous Peoples, youth and other underrepresented groups;

(i) The relevance of the global dialogue topic for the regional dialogues of 2027 that are to be thematically aligned with it, as appropriate⁷.

16. The approach taken for the determination of the topics of the first global dialogue would not prejudice or constitute the basis for the determination of the topics for subsequent dialogues.

⁷ Decision 18/CMA.7, paragraph 17.