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**Capacity-building work of bodies established under the  
Convention and its Kyoto Protocol**

**Compilation and synthesis report by the secretariat**

**Addendum**

**Capacity-building activities undertaken by bodies established under the  
Convention and its Kyoto Protocol**



## Abbreviations and acronyms

AC	Adaptation Committee
AR	assessment report of the Intergovernmental Panel on Climate Change
Article 6.4 mechanism	mechanism established by Article 6, paragraph 4, of the Paris Agreement
CDM	clean development mechanism
CTCN	Climate Technology Centre and Network
CGE	Consultative Group of Experts
CMA	Conference of the Parties serving as the meeting of the Parties to the Paris Agreement
COP	Conference of the Parties
DNA	designated national authority
DNA Forum	Designated National Authorities Forum
DOE	designated operational entity
ETF	enhanced transparency framework under the Paris Agreement
FWG	Facilitative Working Group
GAP	gender action plan
GCF	Green Climate Fund
GEF	Global Environment Fund
GHG	greenhouse gas
GIZ	German Agency for International Cooperation
ICG	informal coordination group for capacity-building under the Convention and the Paris Agreement
IPCC	Intergovernmental Panel on Climate Change
IUCN	International Union for Conservation of Nature
KCI	Katowice Committee of Experts on the Impacts of the Implementation of Response Measures
LCIPP	Local Communities and Indigenous Peoples Platform
LDC	least developed country
LEG	Least Developed Countries Expert Group
MENA	Middle East and North Africa
MRV	measurement, reporting and verification
NAP	national adaptation plan
NAP Global Network	National Adaptation Plan Global Network
NDC	nationally determined contribution
NDE	national designated entity
PCCB	Paris Committee on Capacity-building
RCC	regional collaboration centre
Santiago network	Santiago network for averting, minimizing and addressing loss and damage associated with the adverse effects of climate change
SB	sessions of the subsidiary bodies
SCF	Standing Committee on Finance
SMEs	small and medium-sized enterprises
TEC	Technology Executive Committee
TNA	technology needs assessment
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme

WIM	Warsaw International Mechanism for Loss and Damage associated with Climate Change Impacts
YOUNGO	children and youth non-governmental organization

## Mandate and scope

1. This addendum to the compilation and synthesis report on capacity-building work of bodies established under the Convention and its Kyoto Protocol<sup>1</sup> provides a compilation of the information on capacity-building activities contained in the:

- (a) Report of the AC;<sup>2</sup>
- (b) Reports of the CGE;<sup>3</sup>
- (c) Report of the KCI;<sup>4</sup>
- (d) Reports on the 41<sup>st</sup> and 42<sup>nd</sup> meetings of the LEG;<sup>5</sup>
- (e) Annual technical progress report of the PCCB;<sup>6</sup>
- (f) Joint annual report of the TEC and the CTCN;<sup>7</sup>
- (g) Report of the SCF;<sup>8</sup>
- (h) Report of the WIM Executive Committee;<sup>9</sup>
- (i) Annual report of the CDM Executive Board.<sup>10</sup>

2. Information available to the secretariat on capacity-building activities undertaken by the bodies in 2022 after the publication of those reports was also taken into account in preparing the compilation and synthesis report and this addendum to ensure that they were up to date.

3. The compilation and synthesis report and this addendum include information on capacity-building elements contained in the second year workplan of the LCIPP, operationalized by the FWG. Relevant information is available on the LCIPP web portal.<sup>11</sup>

4. Information on capacity-building activities has been compiled in the tables contained in the annex. Table 1 provides a quantitative summary of the types of capacity-building activity undertaken, while tables 2–12 offer a more detailed account of the capacity-building activities undertaken by each body, with a focus on their objectives and outcomes.

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<sup>1</sup> FCCC/SBI/2023/5.

<sup>2</sup> FCCC/SBI/2022/4.

<sup>3</sup> FCCC/SBI/2022/16.

<sup>4</sup> FCCC/SB/2022/6.

<sup>5</sup> FCCC/SBI/2022/6 and FCCC/SBI/2022/18.

<sup>6</sup> FCCC/SBI/2022/14.

<sup>7</sup> FCCC/SB/2022/4.

<sup>8</sup> FCCC/CP/2022/8–FCCC/PA/CMA/2022/7 and Add.1-6.

<sup>9</sup> FCCC/SB/2022/2 and Add.1–2.

<sup>10</sup> FCCC/KP/CMP/2022/7.

<sup>11</sup> <https://lcipp.unfccc.int/>.

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Table 1  
**Overview of capacity-building activities undertaken in 2022 by bodies established under the Convention and its Kyoto Protocol**

<i>Constituted body</i>	<i>Events/ technical meetings/ forums</i>	<i>Training/ workshops</i>	<i>Tools/ handbooks</i>	<i>Web-based seminars/ tools/courses</i>	<i>Technical assistance/ support</i>	<i>Engagement with other entities/institutional arrangements (in the context of the reported capacity-building activities)</i>
AC	3		6	5		All adaptation-related constituted bodies, NAP Global Network
CGE	4	3	1	5		– International Institute for Environment and Development; Partnership on Transparency in the Paris Agreement; UNDP; UNEP; World Resources Institute
FWG	5	2	–	–	–	
KCI	6	–	4	–	–	– GIZ; International Labour Organization; UNFCCC Gender team; PCCB
LEG	1	2	1	1	38 LDCs	Asian Development Bank; GCF; GEF; Least Developed Countries Fund; Global Water Partnership; NAP Global Network; United Nations Capital Development Fund; UNDP; UNEP; World Meteorological Organization; World Health Organization; World Bank Group
PCCB	8	–	7	3	–	– AC; Action for Climate Empowerment; Adaptation Fund Board; Adaptation Research Alliance; Climate and Development Knowledge Network; CLEAR Environmental; CliMates; Columbia Climate School; Commonwealth Secretariat; Conservation International – Dedicated Grant Mechanism for Indigenous Peoples and Local Communities; CTCN; Digital Storytellers; Food and Agriculture Organization of the United Nations; Forest Stewardship Council Indigenous Foundation; Fundación Avina; Future Leaders Network; FWG; GCF; GEF; German Federal Ministry for Economic Affairs and Climate Action; German Federal Ministry for Economic Cooperation and Development; GIZ; Global Green Growth Institute; Global Resilience Partnership; Initiative for Climate Action Transparency; Institute for Environment and Human Security of the United Nations University; International Centre for Climate Change and Development; International Climate Initiative; International Labour Organization; IUCN; KCI; LEG; Mediators Beyond Borders International; NAP Global Network; Office of the United Nations High Commissioner for Human Rights; Organisation for Economic Co-operation and Development; Peace Boat US; SCF; SLYCAN Trust; TEC; UNDP; UNEP Copenhagen Climate Centre; World Resources Institute; YOUNGO
SCF	1	–	4	–	–	– AC; academic institutions; civil society organizations; international and bilateral development finance institutions; international organizations; multilateral development banks; PCCB; private sector financial institutions; research institutions; think tanks

<i>Constituted body</i>	<i>Events/ technical meetings/ forums</i>	<i>Training/ workshops</i>	<i>Tools/ handbooks</i>	<i>Web-based seminars/ tools/courses</i>	<i>Technical assistance/ support</i>	<i>Engagement with other entities/institutional arrangements (in the context of the reported capacity-building activities)</i>
TEC	6	–	8	–	–	UNFCCC bodies, entities, processes, and constituencies: CTCN; GCF; GEF; Nairobi work programme on impacts, vulnerability and adaptation to climate change; PCCB; SCF; women and gender constituency; YOUNGO; United Nations agencies, international organizations, and other stakeholders: BMW Foundation; Friends of Ecosystem-based Adaptation; Future Cleantech Architects; Global Sustainable Technology and Innovation Community; IUCN; UNEP Copenhagen Climate Centre
CTCN	10	4	–	7	–	
WIM Executive Committee	4	0	1	2	6	AC; AR6 Working Group II; FWG; GCF; GEF; LEG; SCF; and member organizations of the task force on displacement, <sup>a</sup> the technical expert group on comprehensive risk management, <sup>b</sup> the expert group on non-economic losses, <sup>c</sup> the expert group on slow onset events <sup>d</sup> and the expert group on action and support <sup>e</sup>
CDM Executive Board	5	6	–	5	–	East African Development Bank; Institute for Global Environmental Strategies; UNEP Panama; West African Development Bank; Windward Islands Research and Education Foundation; World Green Economy Organization

<sup>a</sup> See <https://unfccc.int/process/bodies/constituted-bodies/WIMExCom/TFD/membership>.

<sup>b</sup> See <https://unfccc.int/process/bodies/constituted-bodies/WIMExCom/TEG-CRM/membership>.

<sup>c</sup> See <https://unfccc.int/process/bodies/constituted-bodies/WIMExCom/NELs/membership>.

<sup>d</sup> See <https://unfccc.int/process/bodies/constituted-bodies/WIMExCom/SOEs/membership>.

<sup>e</sup> See <https://unfccc.int/process/bodies/constituted-bodies/WIMExCom/Action-Support/membership>.

Table 2  
**Capacity-building activities undertaken in 2022 by the Adaptation Committee**

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Technical paper on methodologies for assessing adaptation needs <sup>a</sup> (Tools/handbooks)	To assist Parties by showcasing good practices that follow a five-step process for assessing adaptation needs	Audience enabled to assess adaptation needs
2022 overview of the landscape of support related to NAPs <sup>b</sup> (Tools/handbooks)	To help stakeholders understand and successfully navigate the diversity of adaptation-related assistance	Stakeholders informed about the support available for national adaptation planning and implementation in terms of finance, technology, and capacity-building
Interactive online tool on the landscape of support related to NAPs <sup>c</sup> (supplement to the overview of the landscape of support listed in table note b) (Web-based seminars/tools/courses)	To incorporate new programmes and support opportunities more flexibly and therefore respond to countries' information needs in a timelier manner	Through the tool, which has been accessed over 1,300 times since its launch, stakeholders have been provided with an overview of the support available for national

Activity	Objective(s)	Quantitative/qualitative outcome(s)
Draft supplementary guidance for voluntary use by Parties in communicating adaptation information in accordance with the possible elements of an adaptation communication <sup>d</sup> (Tools/handbooks)	To help Parties to enhance the quality and reduce the duplication of adaptation information while benefiting from synergies with other planning, implementing, and reporting arrangements for adaptation	adaptation planning and implementation in terms of finance, technology, and capacity-building  Stakeholders received guidance that can help advance their efforts to prepare an adaptation communication
Technical paper on technologies for adaptation: innovation, priorities and needs in agriculture, water resources and coastal zones <sup>e</sup> (Tools/handbooks)	To serve as a primer on adaptation technology in agriculture, water resources and coastal zones in particular, while also shedding light on associated cross-cutting topics and trends, with the understanding that technologies represent one of many components of a comprehensive, effective and equitable response to the challenge of climate change adaptation	Stakeholders received an overview of innovation, priorities and needs for adaptation technologies for agriculture, water resources, and coastal zones
Synthesis report for the technical assessment component of the first global stocktake <sup>f</sup> (Tools/handbooks)	To present a comprehensive overview of the work of the AC and to contribute to the technical assessment of the first global stocktake	Stakeholders learn what activities the AC has undertaken to support Parties in adaptation needs assessment, planning, implementation, and monitoring and evaluation
Synthesis report on efforts of developing countries in assessing and meeting the costs of adaptation <sup>g</sup> (Tools/handbooks)	To share relevant lessons, insights, and good practices in the context of developing country Parties with respect to assessing the costs of and domestic expenditures for adaptation, including recommendations that could help to further overcome the challenges in estimating adaptation costs and assessing domestic expenditures on adaptation, which could increase the level of uptake and robustness	Relevant lessons, insights and good practices were shared with Parties, particularly in relation to how costs of adaptation have been assessed and met through the examples shared, as well as in relation to the adaptation efforts of developing countries in the global stocktake
Issues 11–14 of the Adaptation Finance Bulletin <sup>h</sup> (Web-based seminars/tools/courses)	To inform a broad range of stakeholders of recent developments in international adaptation finance	Readers were updated on recent developments in international adaptation finance. Each Adaptation Finance Bulletin was shared with approximately 5,000 recipients by email and distributed via social media
Event on promoting the inclusion of micro, small and medium-sized enterprises in national adaptation planning and implementation, held in collaboration with the NAP Global Network at NAP Expo 2022, held from 22 to 26 August 2022, in Gaborone (Events/technical meetings/forums)	To discuss progress since the publication of the <i>Toolkit for Engaging the Private Sector in National Adaptation Plans</i> <sup>i</sup>	Representatives of SMEs received information on how to adapt their businesses to the impacts of climate change and how they can contribute to formulating and implementing NAPs



Activity	Objective(s)	Quantitative/qualitative outcome(s)
Event on opportunities for gender-responsive adaptation planning and action, held jointly with the LEG and the NAP Global Network at NAP Expo 2022 (Events/technical meetings/forums)	To inform participants of previous findings and tools that were jointly produced with the NAP Global Network, in particular the <i>Toolkit for Gender-Responsive Process to Formulate and Implement National Adaptation Plans<sup>i</sup></i> and to discuss further observations on how gender analysis can help ensure that adaptation actions are implemented in a gender-responsive manner, the role of women as agents of change in adaptation and the importance of intersectionality in mainstreaming gender	Participants learned about gender-responsive adaptation actions
Event on matching needs with support in formulating and implementing NAPs, held jointly with the LEG at NAP Expo 2022 (Events/technical meetings/forums)	To explore ways that to provide the support available in a more coherent, strategic, and synergized way, and how to address any remaining gaps and needs	Participants exchanged experiences and suggestions on how the support available could be provided in a more coherent, strategic, and synergized way and on how any remaining gaps and needs could be addressed

<sup>a</sup> Adaptation Committee. 2022. *Methodologies for assessing adaptation needs and their application*. Bonn: UNFCCC. Available at [https://unfccc.int/sites/default/files/resource/J0160\\_Adaptation%20Needs%20Technical%20Report%20final.pdf](https://unfccc.int/sites/default/files/resource/J0160_Adaptation%20Needs%20Technical%20Report%20final.pdf) and in document FCCC/SB/2022/5/Add.2.

<sup>b</sup> UNFCCC. 2022. *Navigating the landscape of support for the process to formulate and implement national adaptation plans*. Available at [https://unfccc.int/sites/default/files/resource/2022\\_ac\\_navigating.pdf](https://unfccc.int/sites/default/files/resource/2022_ac_navigating.pdf).

<sup>c</sup> <https://unfccc.int/napsupport>.

<sup>d</sup> FCCC/SB/2022/5/Add.1 and FCCC/SB/2022/5/Add.1/Corr.1.

<sup>e</sup> UNFCCC. 2022. *Technologies for adaptation: innovation, priorities and needs in agriculture, water resources and coastal zones*. Bonn: UNFCCC. Available at [https://unfccc.int/sites/default/files/resource/AC\\_TechnologiesForAdaptation\\_AgricultureWaterCoastalZones.pdf](https://unfccc.int/sites/default/files/resource/AC_TechnologiesForAdaptation_AgricultureWaterCoastalZones.pdf).

<sup>f</sup> <https://unfccc.int/node/476683>.

<sup>g</sup> Adaptation Committee. 2022. *Efforts of developing countries in assessing and meeting the costs of adaptation: Lessons learned and good practices Synthesis report by the Adaptation Committee in the context of the recognition of adaptation efforts of developing country Parties*. Bonn: UNFCCC. Available at <https://unfccc.int/sites/default/files/resource/7a%20Cost%20of%20adaptation%20SYR%2005.11.2022.pdf>.

<sup>h</sup> See <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/adaptation-committee-ac/publications-bulletins-adaptation-committee>.

<sup>i</sup> Crawford A, Church C and Ledwell C. 2020. *Toolkit for Engaging the Private Sector in National Adaptation Plans (NAPs): Supplement to the UNFCCC Technical Guidelines for the NAP Process*. NAP Global Network and UNFCCC. Winnipeg, Manitoba, Canada: International Institute for Sustainable Development. Available at <https://napgloablnetwork.org/resource/toolkit-for-engaging-the-private-sector-in-national-adaptation-plans-naps/>.

<sup>j</sup> NAP Global Network and UNFCCC. 2019. *Toolkit for a Gender-Responsive Process to Formulate and Implement National Adaptation Plans (NAPs)*. Winnipeg, Canada: International Institute for Sustainable Development. Available at <https://napgloablnetwork.org/resource/toolkit-for-gender-responsive-national-adaptation-plans/>.

Table 3  
**Capacity-building activities undertaken in 2022 by the Consultative Group of Experts**

Activity	Objective(s)	Quantitative/qualitative outcome(s)
Three regional training workshops – one in English for the Asia-Pacific region, one in English and Spanish for the Latin America and the Caribbean region and one in English and French for the Africa region – on institutional arrangements for MRV and the ETF,	To: (a) Better understand existing MRV arrangements and the ETF	When surveyed thereafter, all 134 respondents (43 per cent female and 57 per cent male) from 90 developing country Parties rated the training workshop as either excellent or good

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
<p>including data management for national GHG inventories<sup>a</sup></p> <p>(Training/workshops)</p>	<p>(b) Have knowledge of the key components of tracking progress in achieving NDCs</p> <p>(c) Better understand the main types of support needed and received in relation to implementing NDCs, the main stakeholders in terms of data ownership and ways to compile relevant information</p> <p>(d) Understand the key components of establishing sustainable institutional arrangements for tracking progress in achieving NDCs</p> <p>(e) Learn about the tools and practical experiences that can be applied and/or built upon in developing relevant indicators for demonstrating progress in achieving NDCs</p> <p>(f) Be able to discuss gaps and capacity-building needs in relation to establishing and reporting on tracking progress in achieving NDCs</p>	
<p>Three regional webinars – two in English for the Asia-Pacific and Africa regions and one in Spanish for the Latin America and the Caribbean region – on the ways climate transparency arrangements matter at the national level<sup>b</sup></p> <p>(Web-based seminars/tools/courses)</p>	<p>To:</p> <p>(a) Showcase the potential national benefits of climate transparency</p> <p>(b) Discuss processes and approaches that might be useful to deliver the national benefits of climate transparency</p> <p>(c) Discuss common challenges in delivering the national benefits of climate transparency and possible ways to address them</p> <p>(d) Showcase relevant experiences, lessons learned and best practices from countries</p> <p>(e) Provide an interactive platform to share experiences and lessons learned</p>	<p>A total of 197 experts attended the webinars. When surveyed thereafter, respondents noted their appreciation of the quality of the webinars in general and remarked positively on the information provided by the CGE on transparency arrangements and the country-specific experiences and insights shared by the presenters</p>
<p>Side event at SB 56 on applying the AR6 in climate change reporting<sup>c</sup></p> <p>(Events/technical meetings/forums)</p>	<p>IPCC experts and country representatives participated in order to share key findings and elements of the AR6 Working Group II<sup>d</sup> and Working Group III<sup>e</sup> reports that countries should take into account in preparing their national communications and biennial transparency reports, countries' experience in translating information on climate science into climate change action and ways</p>	<p>More than 80 experts participated in the side event. The CGE shared information on support provided to developing countries; IPCC experts advised participants and CGE members on how to take into account the findings from the AR6 in national-level decision-making and policy formulation; and CGE members, country representatives and participants discussed and exchanged national experience and lessons learned</p>

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Side event at COP 27 on preparing for the transition from MRV to the ETF and support from the CGE/ <sup>f</sup> (Events/technical meetings/forums)	scientific assessments can help in the development of climate policies or can raise ambition for climate action  To present the support provided by the CGE to developing country Parties, upcoming activities in 2023 and the latest findings of the CGE capacity-building needs assessment report	More than 60 experts participated in the side event. Participants exchanged lessons learned and the experience of developing countries in their transition from MRV to the ETF. In addition, participants provided feedback and reflections on new and emerging areas that require technical assistance and support
Fifth informal forum of the CGE <sup>g</sup> (Events/technical meetings/forums)	To showcase existing and upcoming CGE materials and activities, to provide a platform for stakeholders to informally reflect and exchange views and have a more in-depth discussion with the CGE on addressing difficulties in preparing transparency reports and transitioning from MRV to the ETF and to further collect feedback on the support provided by the CGE to developing countries and on potential topics for CGE capacity-building activities in 2023	More than 110 experts, including country experts and providers of support from various organizations involved in the implementation of the existing MRV arrangements and the ETF, participated in the forum. The feedback will inform the design of the CGE workplan for 2023
CGE e-learning courses covering vulnerability and adaptation assessment, mitigation assessment and national GHG inventories <sup>h</sup> (Web-based seminars/tools/courses)	To enhance the capacity of national experts involved in preparing national communications	As at 31 December 2022, 118 experts had registered for the courses
Training programme for experts conducting the technical analysis of biennial update reports <sup>i</sup> (Web-based seminars/tools/courses)	To establish and increase expertise in the technical analysis of biennial update reports	The 15 <sup>th</sup> round of the training programme was offered in 2022. A total of 276 experts (186 from Parties not included in Annex I to the Convention and 90 from Parties included in Annex I to the Convention) took part
Enhancing the CGE toolbox on institutional arrangements to include a technical handbook available in all United Nations official languages, a compilation of countries' experience and lessons learned in the form of case studies and interviews, a compilation of (including references to) other relevant technical resources and short animations on institutional arrangements to support implementing the existing MRV arrangements and the transition to the ETF <sup>j</sup> (Tools/handbooks)	To facilitate experts and practitioners improving their countries' institutional arrangements to support implementing the existing MRV arrangements and to prepare for the transition to the ETF	Three new case studies, from Ghana, Mauritius and Montenegro, and three new video interviews, with representatives of Botswana, Malawi and South Africa, were added to the toolbox. In addition, two new short animations on institutional arrangements were produced and published

<sup>a</sup> See <https://unfccc.int/process/bodies/constituted-bodies/consultative-group-of-experts/calendar-of-meetings/archive-of-meetings>.

<sup>b</sup> See <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/consultative-group-of-experts/cge/cge-webinar-series>.

<sup>c</sup> See <https://www.youtube.com/watch?v=Dtnp0pjkiVU>.

<sup>d</sup> IPCC. 2022. *Climate Change 2022: Impacts, Adaptation, and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. H Pörtner, D Roberts, M Tignor, et al. (eds.). Cambridge: Cambridge University Press. Available at <https://www.ipcc.ch/report/ar6/wg2/>.

<sup>e</sup> IPCC. 2022. *Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. P Shukla, J Skea, R Slade, et al. (eds.). Cambridge and New York: Cambridge University Press. Available at <https://www.ipcc.ch/report/ar6/wg3/>.

<sup>f</sup> See <https://unfccc.int/event/preparing-for-etc/btr-support-from-the-cge-and-reflections-on-way-forward>.

<sup>g</sup> See <https://unfccc.int/event/5th-informal-forum-of-the-consultative-group-of-experts>.

<sup>h</sup> See <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/consultative-group-of-experts/cge-training-materials>.

<sup>i</sup> See <https://unfccc.int/process-and-meetings/transparency-and-reporting/training-programmes-for-experts/technical-analysis-of-biennial-update-reports-from-developing-country-parties/training-for-the-technical-analysis-of-biennial-update-reports>.

<sup>j</sup> See <https://unfccc.int/CGE/IA>.

Table 4

**Capacity-building activities undertaken in 2022 by the Facilitative Working Group of the Local Communities and Indigenous Peoples Platform**

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Training workshop at SB 56 on respectfully engaging with local communities and indigenous peoples through human-rights-based engagement with examples from national and regional climate policymaking <sup>a</sup> (Training/workshops)	To enhance the knowledge and capacity of Parties, constituted bodies and other stakeholders for meaningful engagement with local communities and indigenous peoples	The training set out good practices on respectful engagement with experts on indigenous people and people from local communities in national strategies and policies, which will be used to inform guidance materials and recommendations
Side event on nature stewardship for inclusive climate actions at MENA Climate Week <sup>b</sup> (Events/technical meetings/forums)	To exchange experience on and observations of climate change impacts on livelihoods and ecosystems in the MENA region, and to foster inclusive and equitable partnerships between indigenous peoples, local communities, Parties, and other relevant entities in the global effort to address climate change	The event amplified the voices of indigenous peoples and local communities in informing the design and implementation of climate policies and actions
Informal youth dialogue and communication workshop at SB 56 <sup>c</sup> (Training/workshops)	The aim of the first part of the event, an informal youth dialogue, was to facilitate and advance the discussion on the unique role of, and ways to strengthen, the engagement of indigenous youth and youth from local communities in climate action and the UNFCCC process  The aim of the second part, a communication workshop, was to amplify the voices of indigenous peoples and local communities to share their stories in order to enrich the global effort to address climate change and reorient the way people interact with nature	Part I built the capacity of indigenous youth to participate in the work of the FWG, specifically the LCIPP annual youth round table, and part II built the capacity of indigenous peoples and local communities to structure and transmit information using photography and other forms of media
Indigenous curricula and materials round table dialogue at SB 56 <sup>d</sup>	To promote a greater understanding of indigenous knowledge and its importance in relation to assessing and responding to climate change	The event highlighted good practices in formal and informal education systems that foster the inclusion of indigenous knowledge

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
(Events/technical meetings/forums)		
Biregional gathering of the LCIPP <sup>e</sup> (Events/technical meetings/forums)	To exchange experience and good practices that identify and address climate impacts on ecosystems and livelihoods and to discuss how indigenous peoples and representatives of local communities can contribute to the UNFCCC process	The event built the capacity of indigenous peoples and representatives of local community to engage in the UNFCCC process
Joint dialogue of the LCIPP and the gender action plan at COP 27 <sup>f</sup> (Events/technical meetings/forums)	To highlight climate solutions led by women from indigenous peoples and local communities in terms of local resilience and climate stability and to understand how to advance their leadership in international and national climate policymaking and action	The dialogue built the capacity of indigenous women to advance their leadership in international and national climate policymaking and action
LCIPP annual youth round table at COP 27 <sup>g</sup> (Events/technical meetings/forums)	To focus on the role of indigenous youth and youth from local communities and on specific ways to advance the engagement of youth in designing and implementing climate policies and actions at all levels, including in the UNFCCC process. Part of the meeting concentrated on capacity-building of youth representatives on the FWG and youth engagement across its activities and provided an overview of the youth engagement opportunities at COP 27 and in the coming years	A set of recommendations was compiled for indigenous youth and youth from local communities to enhance their engagement in the UNFCCC process and in designing and implementing climate policies and actions at all levels

<sup>a</sup> See <https://lcipp.unfccc.int/events/training-workshop-respectfully-engaging-local-communities-and-indigenous-peoples-through-human>.

<sup>b</sup> See <https://lcipp.unfccc.int/events/nature-stewardship-inclusive-climate-actions>.

<sup>c</sup> See <https://lcipp.unfccc.int/events/informal-youth-dialogue-and-communication-workshop>.

<sup>d</sup> See <https://lcipp.unfccc.int/events/indigenous-curricula-and-materials-round-table-dialogue>.

<sup>e</sup> See <https://lcipp.unfccc.int/events/biregional-gathering-local-people-communities-and-indigenous-peoples-platform>.

<sup>f</sup> See <https://lcipp.unfccc.int/events/joint-dialogue-lcippgap-enhancing-indigenous-women-climate-leadership-unfccc-process>.

<sup>g</sup> See <https://lcipp.unfccc.int/events/lcipp-annual-youth-round-table-part-i-exchange-amongst-indigenous-youth-and-youth-local-communities>.

Table 5  
**Capacity-building activities undertaken in 2022 by the Katowice Committee of Experts on the Impacts of the Implementation of Response Measures**

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Preparing a technical paper on capacity-building on impact assessments <sup>a</sup> (Tools/handbooks)	To respond to the need for impact assessments to facilitate the undertaking of economic diversification and transformation, and just transition	The technical paper provides information on the ways of assessing and analysing the impacts of the implementation of response measures, identifies possible means to enhance the capacity and understanding of Parties in the assessment and analysis of these impacts, and draws on the work of identified

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Preparing a technical paper on tools and methodologies for impact assessments <sup>b</sup> (Tools/handbooks)	To lower the information barrier faced by potential users of tools and methods for impact assessments	organizations and highlights the scope for further collaboration with those stakeholders  The technical paper and accompanying database provide detailed information on some of the quantitative and qualitative tools and methodologies available to be developed, enhanced, customized and used for modelling and assessing the impacts of the implementation of response measures
Creating a database for tools and methods for the assessment of impacts of response measures <sup>c</sup> (Tools/handbooks)	To lower the information barrier faced by potential users of tools and methods for impact assessments	A database that accompanies the technical paper on tools and methodologies for impact
Developing a compilation of country-driven strategies on just transition and on economic diversification, at the 6 <sup>th</sup> and 7 <sup>th</sup> meetings of the KCI <sup>d</sup> (Tools/handbooks)	To identify country-driven strategies and best practices on a just transition of the workforce and the creation of decent work and quality jobs and on economic diversification and transformation, focusing on the challenges and opportunities from the implementation of low GHG emission policies and strategies towards the achievement of sustainable development	A compilation of examples, which will be published in 2023
Holding a technical discussion, and developing a technical paper, on people in vulnerable situations, at the 6 <sup>th</sup> and 7 <sup>th</sup> meetings of the KCI <sup>e</sup> (Events/technical meetings/forums)	To identify and assess the impacts of the implementation of response measures, taking into account intergenerational equity, gender considerations and the needs of local communities, indigenous peoples, youth and other people in vulnerable situations	The discussion provided information related to the assessment of impacts on people in vulnerable situations. A technical paper is being prepared and will be finalized by 2025
Holding a technical discussion, and developing a technical paper, on the impacts of new industries arising from response measures, at the 6 <sup>th</sup> and 7 <sup>th</sup> meetings of the KCI <sup>f</sup> (Events/technical meetings/forums)	To provide information on the social, economic and environmental impacts of three selected new or emerging industries and businesses (namely carbon capture, utilization and storage, hydrogen production and artificial intelligence) with a view to exploring ways to maximize the positive and minimize the negative impacts of these new or emerging industries and businesses	The discussion provided observers with information on social and economic opportunities arising from the three selected technologies. A technical paper will be published in 2023
Holding a discussion among experts on the assessment of the environmental, social and economic co-benefits of climate change policies and actions, at the 7 <sup>th</sup> meeting of the KCI <sup>g</sup> (Events/technical meetings/forums)	To share experience and best practices in assessing the co-benefits of climate change policies and actions	The discussion resulted in a set of recommendations by the KCI, which was forwarded to the forum on the impacts of the implementation of response measures and adopted by Parties at COP 27

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Side event at SB 56 on understanding the impacts of mitigation actions through application of tools and methodologies <sup>h</sup> (Events/technical meetings/forums)	To introduce the work of the KCI and discuss the ways stakeholders can contribute to the work of the KCI	The side event introduced the KCI and its work and promoted KCI technical papers. The event also included discussions on the impacts of response measures, the importance of tools and methodologies for impact assessments to policy planning, and the different types of tools and methodologies that are available for assessments
Event on capacity-building networking with the KCI <sup>i</sup> at the 4 <sup>th</sup> Capacity-building Hub (Events/technical meetings/forums)	To provide a space for networking between organizations that provide capacity-building support on just transition and stakeholders so that stakeholders understand the capacity needed to undertake just transition and how to enhance such capacity through support from relevant organizations	The event introduced the KCI and its work and promoted KCI technical papers, as well as other organizations' work on just transition, and participants discussed how the KCI can enhance its work on just transition through collaboration with other organizations
Event at COP 27 that involved sharing just transition stories <sup>j</sup> (Events/technical meetings/forums)	To share experience and lessons learned from the undertaking of just transition in different countries	Participants shared experience and lessons learned in just transition efforts in Canada, South-East Asia and Spain. The discussion during the event highlighted, among other things, that a just transition should be able to address inequality in a society

<sup>a</sup> KCI. 2022. *Enhancing the capacity and understanding of Parties, through collaboration and input from stakeholders, on the assessment and analysis of the impacts of the implementation of response measures to facilitate the undertaking of economic diversification and transformation and just transition*. Bonn: UNFCCC. Available at <https://unfccc.int/documents/614633>.

<sup>b</sup> KCI. 2022. *Facilitating development, enhancement, customization and use of tools and methodologies for modelling and assessing the impacts of the implementation of response measures, including identifying and reviewing existing tools and approaches in data-poor environments, in consultation with technical experts, practitioners and other relevant stakeholders*. Bonn: UNFCCC. Available at <https://unfccc.int/documents/614632>.

<sup>c</sup> Available at <https://unfccc.int/documents/274695>.

<sup>d</sup> KCI document KCI/2022/7/4, annex II.

<sup>e</sup> KCI document KCI/2022/7/8.

<sup>f</sup> KCI document KCI/2022/7/5.

<sup>g</sup> The webcast of the discussion of experts is available at <https://unfccc.int/event/KCI7>.

<sup>h</sup> See <https://unfccc.int/event/unfccc-kci-understand-the-impacts-of-mitigation-actions-through-application-of-tools-and>.

<sup>i</sup> See <https://unfccc.int/event/capacity-building-networking-hour-with-the-kci>.

<sup>j</sup> See <https://live.ilo.org/events/report-field-just-transition-stories-2022-11-17>.

Table 6  
**Capacity-building activities undertaken in 2022 by the Least Developed Countries Expert Group**

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Supporting the LDCs in formulating their first NAP through the Open NAP initiative <sup>a</sup> and direct interaction with country teams and relevant organizations	To provide direct support to country teams in formulating NAPs by mobilizing and engaging with a wide range of organizations and experts through crowdsourcing, including through the provision of data,	Continuing direct country support is being provided to all LDCs on the basis of their expressed needs for support. 18 LDCs in total had NAPs as at the end of 2022

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
(Technical assistance/support)	information, tools and models available through the NAP data initiative and the review of draft NAPs from the countries	Support was mobilized from partner agencies, and more partnerships are being forged between countries and United Nations organizations and agencies, brokered by the LEG  The LEG provided feedback on nine draft NAPs and facilitated exchanges between governments and United Nations organizations and agencies
Supporting the LDCs in implementing NAPs through project proposal writing support on NAPs <sup>b</sup> (Technical assistance/support) (Training/workshops)	To provide technical assistance to the LDCs that are formulating NAPs and to those transitioning to NAP implementation in order to move towards successful adaptation by helping each LDC to initiate and submit project proposals to the GCF and other sources of funding	A total of 38 LDCs from Africa and Asia actively engaged in the writing support process in 2022, including in associated workshops. They generated more than 50 project ideas, which have been compiled into a project catalogue. <sup>c</sup> Two of the project ideas have successfully been developed into funding proposals and submitted to the GCF; two more were developed into concept notes and are ready for submission. The target is to develop all the project ideas into funding proposals and submit them to the Adaptation Fund, the GCF, the Least Developed Countries Fund, or sources of funding that countries may choose. The LEG continues to follow up with the LDCs through the NAP country dialogues
NAP Expo 2022 <sup>d</sup> (Events/technical meetings/forums)	To promote the exchange of experiences and foster partnerships between a wide range of actors and stakeholders on how to advance NAPs	More than 400 participants – experts and representatives of national and subnational governments, United Nations organizations and other international organizations, bilateral and multilateral agencies, regional centres and networks, the private sector and academia – attended the event  Overall, the NAP Expo mobilized nine United Nations agencies, organizations and bodies, including the operating entities of the Financial Mechanism; 10 other international organizations and networks and four regional centres and networks  Sessions conducted during the Expo helped generate new ideas to facilitate transformations in adaptation planning and implementation; initiated the establishment of communities of practice on specific themes on adaptation; enhanced regional cooperation, such as in coordinating responses to transboundary climate risks; and promoted and led to the launch of



<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Facilitating the work of the NAP technical working group <sup>e</sup> (Technical assistance/support)	To: (a) Provide guidance and technical support to countries on the formulation and implementation of NAPs (b) Bring together NAP experts and support providers to determine possible ways of jointly advancing technical work in the formulation and implementation of NAPs with a view to promoting coherence and synergies and ensuring that countries are able to capitalize on and benefit from the technical support	joint publications and products, such as a book on NAPs that highlights results in the LDCs  The LEG continued to engage with a wide range of organizations and regional centres and networks in order to advance the provision of technical guidance and support to the LDCs. The NAP technical working group remains an important channel to achieve coherence and synergies. Four subgroups have been created, which will facilitate the work in a more coordinated manner
Maintaining NAP Central <sup>f</sup> (Web-based seminars/tools/courses)	To provide a platform for sharing NAPs and other outputs related to the NAP process and links to relevant resources and tools (e.g. NAP technical guidelines and supplements thereto)	As at 31 December 2022, 41 NAPs had been shared on NAP Central, along with various outputs related to the NAP process and 35 supplements to the NAP technical guidelines
Webinar on the Paris Agreement alignment tool, held in October 2022 (Web-based seminars/tools/courses)	To efficiently and effectively navigate and address the many elements of the Paris Agreement, with a focus on opportunities, obligations and reporting requirements for different groups of Parties, in particular the LDCs	The LEG conducted the webinar for the LDC roster of experts on NAPs

<sup>a</sup> See <https://napcentral.org/open-naps>.

<sup>b</sup> See <https://unfccc.int/documents/623949>.

<sup>c</sup> Available at <https://napcentral.org/projectcatalogues>.

<sup>d</sup> Available at <http://napexpo.org/2022/>.

<sup>e</sup> See document FCCC/SBI/2022/18.

<sup>f</sup> See <https://napcentral.org/>.

Table 7  
**Capacity-building activities undertaken in 2022 by the Paris Committee on Capacity-building**

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Publication of the <i>PCCB Toolkit to Assess Capacity-building Gaps and Needs to Implement the Paris Agreement</i> , <sup>a</sup> which provides an overview of a capacity assessment cycle and complementary resources, including case studies, tools, best practices and lessons learned, to guide the assessment process that enables countries to identify appropriate steps that Parties can take to strengthen national capacities in addressing climate change	To support the efforts of countries to assess their capacity needs and gaps to implement the Paris Agreement	The toolkit was published with the support of eight contributing partners, and more than 50 curated resources are listed in the resources section, with regular updates subject to the availability of resources. In its submission in response to the PCCB call on its annual focus area for 2022, the European Union listed the PCCB toolkit as a useful resource that can assist government officials in implementing effective NDCs tailored to country circumstances

Activity	Objective(s)	Quantitative/qualitative outcome(s)
(Tools/handbooks)		At the request of Parties and non-Party stakeholders, the PCCB is in the process of enhancing the accessibility of the document by translating it into Arabic, French and Spanish with the provision of support from RCC Dubai and PCCB Network members
Virtual event on the <i>PCCB Toolkit to Assess Capacity-building Gaps and Needs to Implement the Paris Agreement</i> , held in March 2022, with a focus on exploring capacity-building tools and methodologies in the context of finance, technology, adaptation and transparency, as well as on how capacity-building providers can mobilize such tools and methodologies (Events/technical meetings/forums)	To promote the toolkit to a wide audience and catalyse further discussions and activity from all interested stakeholders on assessing capacity-building gaps and needs to implement the Paris Agreement, and identifying tools and methodologies related to such capacity assessments	Speakers representing the CTCN, the GEF and the SCF, as well as representatives of two PCCB Network members, Organisation for Economic Co-operation and Development and Impulsouth, joined the event. They highlighted key capacity-building gaps and needs, including a lack of data availability, institutional arrangements and coordination mechanisms, the need to improve communication between actors, public awareness-raising and the need for long-term, locally owned capacity-building  In total, 52 participants attended the event and 20 responded to the post-event survey, of whom most expressed satisfaction with the event
Preparing a synthesis report for the technical assessment component of the first global stocktake <sup>b</sup> (Tools/handbooks)	To support the assessment of progress on capacity-building under the Paris Agreement under the technical assessment component of the global stocktake <sup>c</sup>	Published in April 2022, the synthesis report highlights progress on enhancing the capacity of developing country Parties to implement the Paris Agreement and good practices, experience, and potential opportunities to enhance international climate action through activities undertaken by the PCCB under its three priority work areas. It also highlights various barriers and challenges to capacity-building faced by developing countries with regard to the implementation of the Paris Agreement, including mainstreaming climate policy in national development plans across sectors, institutional arrangements and coordination mechanisms, linking global agendas, and accessing financial resources, transparency and approaches based on ownership of capacity-building. A virtual event was also organized to discuss the methodology of the report, which engaged 28 participants
Convening two meetings of the ICG <sup>d</sup> on the margins of SB 56 and COP 27 (Events/technical meetings/forums)	To: (a) Provide a conducive space for representatives of constituted bodies, operating entities and relevant processes under the Convention and the Paris	A total of 15 relevant UNFCCC bodies, entities and processes are represented in the ICG, including those with a focus on cross-cutting issues, such as gender, indigenous peoples' knowledge and youth. The two ICG meetings identified several opportunities for

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Preparing a forward-looking overview of capacity-building activities of constituted bodies and operating entities and under the UNFCCC process <sup>e</sup> (Tools/handbooks)	<p>Agreement to coordinate climate change related capacity-building plans and activities</p> <p>(b) Allow for better sharing of information, coherence and identification of opportunities in relation to capacity-building</p> <p>To:</p> <p>(a) Facilitate the work of the ICG</p> <p>(b) Contribute to enhancing coherence and coordination of capacity-building under the Convention and the Paris Agreement, with a focus on avoiding duplication of efforts</p>	<p>synergy and collaboration. All findings are captured in publicly available meeting summary reports, and identified opportunities for collaboration are expected to be realized in 2023</p> <p>The ICG welcomed the overview as a valuable tool for identifying synergies and areas for collaboration between the PCCB and bodies, entities and processes represented in the ICG. External stakeholders also provided positive feedback on the usefulness of the document, especially its inclusion of information on ICG members' ongoing and upcoming capacity-building-related activities</p>
Preparing a summary of submissions by members of the ICG on efforts to address capacity gaps and needs <sup>f</sup> (Tools/handbooks)	To summarize the submissions received in response to a 2021 survey among members of the ICG to gather information on and best practices related to addressing capacity gaps and needs in the respective work of the members	A total of 10 submissions were made by members of the ICG. Thirty-five activities or areas of work were shared as indicative examples of efforts by bodies, entities and processes under the Convention and the Paris Agreement. The examples contained more than 10 modalities through which the responding bodies, entities or processes address the capacity needs and gaps under their respective mandates
Online course on an introduction to climate change and human rights, <sup>g</sup> which included a section on women and gender-responsive climate action (Web-based seminars/tools/courses)	To provide the general public modalities for better understanding, and increasing participation in response to, climate change and human rights challenges and opportunities	<p>The free, self-paced course, hosted on the One UN Climate Change Learning Partnership platform, was co-developed by the PCCB and Office of the United Nations High Commissioner for Human Rights, in collaboration with the secretariat and with support from the German Government</p> <p>The second year of the course saw a 121 per cent increase in registrations and a 162 per cent increase in certificates issued. As at 31 December 2022, 18,037 learners had registered and 4,596 certificates of completion had been awarded. Of the learners, 53 per cent were female, 46 per cent male and 1 per cent non-binary. About 50 per cent were students, and others represented academia (8 per cent), the private sector (16 per cent), government (10 per cent), non-governmental organizations or civil society (7 per cent) and international or regional organizations (4 per cent)</p>

Activity	Objective(s)	Quantitative/qualitative outcome(s)
<p>Durban Forum deep dive: PCCB follow-up webinar to the 11<sup>th</sup> Durban Forum on capacity-building (Web-based seminars/tools/courses)</p>	<p>To explore some of the topics discussed at the 11<sup>th</sup> Durban Forum, held in June 2022, and identified through the synthesis of submissions on the 2022 PCCB focus area, in particular the role of capacity-building in:</p> <p>(a) Bolstering capacities for innovation to boost climate-informed and contextually appropriate solutions for a sustainable recovery in line with national climate and development priorities, leaving no one behind</p> <p>(b) Enabling gender-responsive green skill development to support a just transition of the workforce in the implementation of NDCs and sustainable recovery, including by engaging educational and training institutions, industry associations, the private sector and labour unions</p>	<p>Feedback provided by 1,918 of the learners showed that about 68 per cent found the course very useful close to 25 per cent mostly useful; 89 per cent would recommend the course; 46 per cent strongly agreed and 37 per cent agreed that the course content was relevant to their jobs; and 56 per cent strongly agreed and 35 per cent agreed that they will most likely use the information acquired</p> <p>The webinar enabled viewers to enhance their understanding of the interlinkages between accelerated and sustained climate action and skill development, actors who could play a role in boosting innovation and provide capacity-building for skill development, and good practices and examples of promoting climate innovation and greening skills for climate action. In total, 210 people registered for the event and 45 attended</p>
<p>Regional thematic dialogue on youth in capacity-building at MENA Climate Week<sup>b</sup> (Events/technical meetings/forums)</p>	<p>To promote strategic stakeholder engagement to foster exchanges on capacity-building through outreach activities at the national and regional level</p> <p>To:</p> <p>(a) Provide a platform for regional dialogue on the role of youth</p> <p>(b) Enhance youth engagement in resilience-building and in facilitating a coherent implementation of climate action and sustainable development</p>	<p>Four young experts discussed the role of youth in the MENA region, both as capacity-building recipients and as capacity-builders. Discussions focused on how young people in the region are showing leadership in capacity-building, especially through peer-to-peer learning. Capacity-building gaps and the needs of MENA youth related to meaningful youth engagement and participation, including the role of governments in creating an enabling environment and spillover effects of unemployment rates in the region, were discussed. Panellists also discussed the role of youth in building resilience in the context of the NDCs and national development plans and how they can be further engaged, highlighting the importance of climate education in school syllabuses and providing a framework for youth to work with. A recording of the session made available on the PCCB YouTube channel has 60 views</p>

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Regional thematic dialogue on capacities needed for the horizontal and vertical integration of NDCs at Latin America and the Caribbean Climate Week <sup>h</sup> (Events/technical meetings/forums)	To: (a) Highlight the role of capacity-building and needs related to horizontal and vertical integration of NDCs in and alignment of climate and development agendas at different levels of governance  (b) Facilitate sharing of experiences and best practices related to horizontal and vertical integration of NDCs in the Latin America and the Caribbean region	A total of 45 participants enhanced their knowledge on the role of capacity-building in horizontal and vertical integration of NDCs  Members of the PCCB Network and experts from the Latin America and the Caribbean region shared experience, knowledge and best practices of NDC integration in the region, including capacity-building gaps and needs such as NDC integration within finance ministries and implementation of Article 6 of the Paris Agreement, as well as opportunities such as South–South collaborations and coordination mechanisms between donors and developing countries
Regional thematic dialogue on capacities needed for the horizontal and vertical integration of NDCs at Africa Climate Week <sup>h</sup> (Events/technical meetings/forums)	To: (a) Highlight the role of capacity-building and needs related to horizontal and vertical policy coherence through the integration of NDCs in and alignment of climate and development agendas at different levels of governance in the Africa region  (b) Facilitate sharing of experience and best practices related to horizontal and vertical integration of NDCs	A total of 25 participants enhanced their knowledge on the role of capacity-building in horizontal and vertical integration of NDCs  Members of the PCCB Network and experts from the Africa region shared experience, knowledge and best practices of NDC integration in the region, including capacity-building gaps and needs such as the need for the inclusive and just integration of NDCs, technical training and knowledge management. Opportunities such as making agriculture a high priority area for capacity-building and NDC implementation were also discussed
Preparing a synthesis of submissions on the 2022 PCCB focus area <sup>i</sup> (Tools/handbooks)	To: (a) Enhance understanding of and share information on institutional barriers, capacity gaps and needs, knowledge and skills priorities, case studies, best practices, tools and methodologies, lessons learned and examples of support related to coherently implementing NDCs in the context of national development plans and sustainable recovery, with a focus on emerging themes that were not covered in the 2021 submissions, given the close alignment of the annual focus area of the PCCB in 2021–2022  (b) Provide a knowledge base for further work on capacity-building for coherent implementation of NDCs in the context of national development plans and sustainable recovery	In total, 30 submissions were received from various organizations, both Party and non-Party stakeholders and entities operating at the local to the global level. The synthesis report, published in August 2022, highlights institutional barriers, knowledge and skills priorities, and capacity gaps and needs in several key areas, including the formulation of synergistic policies and programmes across sectors; institutional arrangements and coordination mechanisms; climate awareness, literacy and green skills; accessing, monitoring and managing climate data and information; accessing financial resources; transparency; and integration of cross-cutting issues. Furthermore, it provides information on case studies, best practices, tools and methodologies, lessons learned and examples of support related to the coherent implementation of

Activity	Objective(s)	Quantitative/qualitative outcome(s)
<p>Preparing a synthesis of submissions on existing tools and methodologies for implementing capacity-building activities that enable countries to achieve the long-term goals of the Paris Agreement/ (Tools/handbooks)</p>	<p>To provide a selection of best practices, tools and other relevant resources related to the implementation of capacity-building activities in the context of achieving the long-term goals of the Paris Agreement. The synthesis highlights:</p> <p>(a) Characteristics and features of good examples of tools and methodologies used by different actors</p> <p>(b) Types and components of tools and methodologies for capacity-building proved to be the most effective</p> <p>(c) Tools and methodologies that support the efficient design, implementation and monitoring and evaluation of meaningful capacity-building interventions</p> <p>(d) Thematic areas of the Paris Agreement that have the greatest need for new tools and methodologies for capacity-building in order to achieve the long-term goals of the Paris Agreement</p>	<p>NDCs in the context of national development plans and sustainable recovery. The findings from the synthesis report informed the design of the Durban Forum deep dive: PCCB follow-up webinar to the 11<sup>th</sup> Durban Forum on capacity-building, held in September 2022</p> <p>In total, 18 submissions were received from various organizations, both Party and non-Party stakeholders and entities operating at the local to the global level. The synthesis report, published in August 2022, highlights the characteristics and features of good examples, including case studies, training programmes, webinars and online courses. Furthermore, it highlights the need for and examples of effective types of tools and methodologies, including participatory approaches, in-person events and trainings, and partnerships and network-based interventions. Capacity-building gaps, including methods of measuring the long-term impact of capacity-building, establishing coordination mechanisms and/or collaborative platforms, and data collection and analysis, were also highlighted. Thematic areas, including gender responsiveness, GHG emissions, the ETF, Action for Climate Empowerment, climate risks and climate finance, were highlighted as areas that have the greatest need for new tools and methodologies</p>
<p>Session on tools and applications for capacity-building at the 4<sup>th</sup> Capacity-building Hub<sup>k</sup> (Events/technical meetings/forums)</p>	<p>To explore capacity-building tools and methodologies in the context of the work of the PCCB through the approach of open-space design, in order to foster shared learning and organic group discussions during which participants can share experience, knowledge, stories, questions, interests and concerns around a topic</p>	<p>A total of 30 participants enhanced their understanding and knowledge of various topics related to the recently published PCCB synthesis of submissions on existing tools and methodologies for implementing capacity-building activities that enable countries to achieve the long-term goals of the Paris Agreement. Stakeholders engaged through the innovative and participatory approach of open-space design</p>
<p>The 4<sup>th</sup> Capacity-building Hub<sup>l</sup> (Events/technical meetings/forums)</p>	<p>To:</p> <p>(a) Facilitate the exchange of experience, knowledge, success stories and lessons learned with regard to how best to support capacity-building in developing countries</p> <p>(b) Present tools and methodologies for capacity-building</p>	<p>Approximately 3,500 participants (2,204 unique YouTube viewers and 1,225 in person) enhanced their understanding and knowledge of various topics related to climate-related capacity-building at the Hub, held at COP 27. In total, 48 events were organized by 56 partners, of which 8 were lead partners. A total of 10 capacity-building resources, including tools and methodologies, were shared on the capacity-building</p>

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
	(c) Enhance collaboration and partnerships among capacity-building stakeholders under and outside the Convention and the Paris Agreement	portal. Numerous stakeholders, including representatives of constituted bodies, United Nations organizations and other intergovernmental agencies, regional networks and initiatives, Parties, private sector entities, academia and research institutions, non-governmental organizations and civil society organizations, collaborated effectively
Preparing a technical paper on enhancing the ownership of developing countries of building and maintaining capacity for climate action <sup>m</sup> (Tools/handbooks)	To: (a) Present findings on experience, good practices and lessons learned with regard to enhancing country ownership of building and maintaining capacity (b) Identify challenges to enhancing the ownership of developing countries of building and maintaining capacity and provide recommendations on how to address these challenges by building on identified experience, good practices and lessons learned	The technical paper was launched at the 4 <sup>th</sup> Capacity-building Hub at COP 27 and will feed into recommendations to COP 28 and CMA 5, which will be included in the 2023 technical progress report of the PCCB
Session on moving towards country-owned capacity-building and capacity gaps and needs assessments at the 4 <sup>th</sup> Capacity-building Hub <sup>n</sup> (Events/technical meetings/forums)	To launch its technical paper on enhancing the ownership of developing countries of building and maintaining capacity for climate action and present its recently published PCCB toolkit to assess capacity gaps and needs to implement the Paris Agreement to a wide audience	The session contributed to the ongoing discussion on how country ownership of capacity-building can be better ensured and provided insights on key challenges, experience, good practices and lessons learned in this regard and on tools to assist developing countries in assessing their own capacity gaps and needs. The role of networks in supporting country-owned capacity-building and capacity gaps and needs assessments was also addressed. The event was attended by 43 participants
Maintaining the PCCB Network <sup>o</sup> (Events/technical meetings/forums)	To foster synergies and enhance coherence and coordination in capacity-building efforts for climate action  In addition to communication, outreach, engagement and networking, the PCCB Network focuses on enhancing the climate-related capacities of various stakeholders, including through technical exchanges, webinars, workshops and peer learning	As at 31 December 2022, 323 members from 86 countries had joined the Network. Members are able to collaborate on activities, develop new partnerships, share experience, good practices and tools and increase their climate-related knowledge and capacity through a number of activities, including the annual meeting of the Network, member-led webinars and a podcast series

<sup>a</sup> PCCB. 2022. *PCCB toolkit to assess capacity building gaps and needs to implement the Paris Agreement*. Bonn: UNFCCC. Available at <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/paris-committee-on-capacity-building-pccb/areas-of-work/capacity-building-portal/pccb-toolkit-to-assess-capacity-gaps-and-needs-to-implement-the-paris-agreement>.

<sup>b</sup> See <https://unfccc.int/documents/461613>.

- <sup>c</sup> See <https://unfccc.int/event/pccb-webinar-presenting-the-pccb-synthesis-report-to-the-first-global-stocktake>.
- <sup>d</sup> See <https://unfccc.int/PCCB-ICG>.
- <sup>e</sup> See <https://unfccc.int/documents/309160>.
- <sup>f</sup> See [https://unfccc.int/sites/default/files/resource/PCCB%20briefing%20note\\_Findings%202021%20ICG%20Survey.pdf](https://unfccc.int/sites/default/files/resource/PCCB%20briefing%20note_Findings%202021%20ICG%20Survey.pdf).
- <sup>g</sup> See <https://uncclearn.org/course/view.php?id=136&page=overview>.
- <sup>h</sup> See <https://unfccc.int/pccb/regional-activities>.
- <sup>i</sup> Available at <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/paris-committee-on-capacity-building-pccb/documents-paris-committee-on-capacity-building>.
- <sup>j</sup> See [https://unfccc.int/sites/default/files/resource/PCCB\\_ToolsMethodologies\\_Synthesis.pdf](https://unfccc.int/sites/default/files/resource/PCCB_ToolsMethodologies_Synthesis.pdf).
- <sup>k</sup> See <https://unfccc.int/pccb/4CBHub/OSLDay>.
- <sup>l</sup> See [https://unfccc.int/topics/capacity-building/events-meetings/capacity-building-hub/\\*h-capacity-building-hub](https://unfccc.int/topics/capacity-building/events-meetings/capacity-building-hub/*h-capacity-building-hub).
- <sup>m</sup> See <https://unfccc.int/sites/default/files/resource/PCCB%20technical%20paper%20-%20ownership.pdf>.
- <sup>n</sup> See <https://unfccc.int/event/towards-country-owned-capacity-building-and-capacity-gaps-and-needs-assessments>.
- <sup>o</sup> See <https://unfccc.int/pccb-network>.

Table 8  
Capacity-building activities undertaken in 2022 by the Standing Committee on Finance

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
SCF Forum on finance for nature-based solutions (second part) <sup>a</sup> (Events/technical meetings/forums)	<p>To convene a wide range of stakeholders to discuss topics related to climate finance and to promote linkages and coherence in the mobilization and delivery of climate finance</p> <p>To build on the key findings of the first part of the SCF Forum on finance for nature-based solutions, held in 2021,<sup>b</sup> by:</p> <p>(a) Enhancing understanding of using sustainable nature and ecosystem-based solutions for climate change adaptation and mitigation, and opportunities and challenges at all levels</p> <p>(b) Increasing awareness of the potential of climate finance for nature-based solutions for climate change at all levels</p> <p>(c) Identifying possible ways to scale up mobilization of and access to climate finance for nature-based solutions</p> <p>(d) Providing a platform for actors involved in climate finance for nature-based solutions to network and share information</p>	<p>The second part of the Forum on finance for nature-based solutions was held from 26 to 28 September 2022 in Cairns, Australia. More than 80 participants attended the Forum in person and another 30 participants participated virtually, representing the SCF, governments, United Nations agencies and international organizations, multilateral climate funds, bilateral agencies, the private sector, academia, think tanks, civil society organizations working on nature-based solutions and indigenous peoples</p> <p>Forum participants found lack of capacity, especially in developing countries, as one of the key challenges to integrating the value of ecosystem goods and services into economic and financial services and to developing a business case for investing in nature and ecosystems</p> <p>The participants also found that capacity-building and technical assistance should be strengthened for the national and subnational governments of developing countries and local communities and indigenous peoples to access international finance for nature-based solutions, and identified a set of possible actions to build capacity<sup>c</sup></p>



<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Fifth Biennial Assessment and Overview of Climate Finance Flows <sup>d</sup> (Tools/handbooks)	To: (a) Provide information on the geographical and thematic balance of climate finance flows, drawing on available sources of information, including national communications, biennial reports and biennial update reports, information provided in the registry of nationally appropriate mitigation actions, information provided by Parties on assessment of their needs, reports prepared by the operating entities of the Financial Mechanism and information available from other entities providing data on climate change finance (b) Consider work of other bodies and entities on MRV of support and tracking of climate finance to map available information and methodologies for reporting climate finance provided by developed countries and received by developing countries (c) Assess how adaptation and mitigation needs can be met most effectively by climate finance and how to report on the impact and effectiveness of adaptation and mitigation finance to map available information on methodologies and metrics, available data sets and information on approaches and ways of achieving the long-term goal in Article 2, paragraph 1(c), of the Paris Agreement	The SCF summary and recommendations of the fifth Biennial Assessment were considered at COP 27 and are contained in annex I to decision 14/CP.27  The fifth Biennial Assessment provides an updated overview of methodologies for reporting climate finance that can support capacity-building efforts, including in the reporting requirements for the ETF, for the development of domestic climate finance tracking systems, for definitions of climate finance in use and for gathering information relevant to Article 2, paragraph 1(c), of the Paris Agreement
Work on definitions of climate finance <sup>e</sup> (Tools/handbooks)	To provide a concise summary of considerations related to operational definitions of climate finance, taking into account views of Parties and non-Party stakeholders, and an overview of operational definitions of climate finance in use by Parties in their reporting to the UNFCCC and by climate finance providers, data aggregators and other stakeholders	The continued work of the SCF on definitions of climate finance was considered at COP 27 and is contained in the report of the SCF to COP 27
Work relating to Article 2, paragraph 1(c), of the Paris Agreement (Tools/handbooks)	To map available information relevant to Article 2, paragraph 1(c), of the Paris Agreement, including its reference to Article 9 thereof, and to develop a synthesis of the views of Parties, operating entities of the Financial Mechanism, international financial institutions and other stakeholders in the financial sector regarding ways to achieve the goal in Article 2, paragraph 1(c), of the Paris Agreement, including	The work of the SCF relating to Article 2, paragraph 1(c), of the Paris Agreement was considered at COP 27 and CMA 4. Two outputs are contained in the report of the SCF to COP 27 and CMA 4: the mapping of available information relevant to Article 2, paragraph 1(c), of the Paris Agreement, including its reference to Article 9 thereof, <sup>f</sup> and the synthesis of views regarding

Activity	Objective(s)	Quantitative/qualitative outcome(s)
	options for approaches and guidelines for implementation	ways to implement the goal in Article 2, paragraph 1(c), of the Paris Agreement <sup>8</sup>

<sup>a</sup> See <https://unfccc.int/topics/climate-finance/events-meetings/scf-forum/the-standing-committee-on-finance-forum-on-finance-for-nature-based-solutions-part-ii>.

<sup>b</sup> See document FCCC/CP/2021/10/Add.4–FCCC/PA/CMA/2021/7/Add.4.

<sup>c</sup> See document FCCC/CP/2022/8/Add.6–FCCC/PA/CMA/2022/7/Add.6, para. 13.

<sup>d</sup> SCF. 2022. *Fifth Biennial Assessment and Overview of Climate Finance Flows*. Bonn: UNFCCC. Available at <https://unfccc.int/topics/climate-finance/resources/biennial-assessment-and-overview-of-climate-finance-flows>.

<sup>e</sup> See document FCCC/CP/2022/8/Add.2–FCCC/PA/CMA/2022/7/Add.2.

<sup>f</sup> See document FCCC/CP/2022/8/Add.4–FCCC/PA/CMA/2022/7/Add.4.

<sup>8</sup> See document FCCC/CP/2022/8/Add.3–FCCC/PA/CMA/2022/7/Add.3.

Table 9  
Capacity-building activities undertaken in 2022 by the Technology Executive Committee

Activity	Objective(s)	Quantitative/qualitative outcome(s)
Preparing a first draft compilation of good practices and lessons learned from setting up and implementing national systems of innovation and engaging with relevant stakeholders under and outside the Convention and the Paris Agreement on the topic (Tools/handbooks)	To: (a) Provide analysis of selected case studies to share lessons learned and good practices on the setting up and implementation of national systems of innovation for the use of developing country policymakers (b) Identify measures and approaches that have improved the effectiveness of national systems of innovation, focusing on functions and structural components of innovation systems, and identify good practices that can be replicated in other countries	Engaging with relevant partners, including through the presentation of initial findings from the TEC work on national systems of innovation, through participation in relevant dialogues or events organized by UNFCCC bodies and initiatives (e.g. the PCCB 2022 Durban Forum deep dive <sup>a</sup> and the UNFCCC Global Innovation Hub at COP 27 <sup>b</sup> ) and other stakeholders (e.g. the ARC–Cleantech Innovation Festival <sup>c</sup> )
Preparing a technical paper on enabling environments and challenges to technology development and transfer, followed by a TEC brief, <sup>d</sup> which the TEC can use to broaden the reach of its work and deliver policies and strategies related to enabling environments to policymakers (Tools/handbooks)	To: (a) Examine enabling environments and challenges for technology development and transfer, including those related to capacity-building (b) Identify policies and strategies to improve enabling environments to deploy innovative, sustainable technologies	Provision of a database containing an overview of categories for technology transfer challenges and enablers identified in 69 TNAs, 141 NDCs and 101 CTCN technical assistance documents Recommendations for national and international stakeholders and policymakers to take into account when creating and advancing enabling environments for technology development and transfer
Preparing a technical paper on linkages between the TNA process and the NDC process, followed by a TEC brief, <sup>e</sup> which the TEC can use to broaden the reach of its work and deliver	To: (a) Enhance coherence between the implementation of national plans and national	Key messages and recommendations for COP 27 and CMA 4 on linkages between the TNA and NDC processes

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
relevant recommendations to Parties through the COP and the CMA (Tools/handbooks)	strategies to achieve climate-resilient and low-emission development  (b) Enhance understanding on linkages between TNAs and NDCs and on how these could be further strengthened  (c) Propose options to establish linkages between TNAs and NDCs that lead to implementation	
Preparing a technical paper on experiences and lessons learned from support for climate technologies provided by the operating entities of the Financial Mechanism, followed by a TEC brief, <sup>f</sup> which assists the TEC to broaden the reach of its work and deliver relevant recommendations to Parties through the COP and the CMA (Tools/handbooks)	To: (a) Assess support provided for technology development and transfer and examine the adoption of and reporting on transformative climate technologies in key sectors (b) Highlight approaches that have contributed to the successful implementation and scaling up of initiatives with technology components, including those related to gender mainstreaming and stakeholder engagement	Key messages and recommendations for COP 27 and CMA 4 on support for climate technologies
Preparing a TEC brief <sup>g</sup> on innovative approaches for strengthening coastal and ocean adaptation, integrating technology and nature-based solutions, as a result of collaborations with the expert group on oceans of the Nairobi work programme, IUCN and Friends of Ecosystem-based Adaptation (Tools/handbooks)	To: (a) Provide an overview of the value of integrated adaptation solutions and the challenges to and opportunities for increasing their uptake and scaling (b) Summarize recommendations and actions and highlight opportunities for scaling up innovative approaches in order to achieve multiple benefits for people and nature	Recommendations for policymakers, public and private finance institutions, non-governmental and community-based organizations, academia and research institutes, and practitioners  Opportunities under the UNFCCC process to facilitate actions that strengthen the resilience of coastal settlements and ocean ecosystems, as well as opportunities to promote coherence with other United Nations processes
Session on climate technology and adaptation and youth-led innovative approaches, <sup>h</sup> in collaboration with YOUNGO, held at the Dubai Expo as part of the programme of the Global Sustainable Technology and Innovation Community conference on 19 January 2022 (Events/technical meetings/forums)	To: (a) Showcase youth-led innovations and innovative technologies and discuss lessons and good practices in scaling up such innovative technologies (b) Explore the role and importance of youth in driving climate technology innovation and adaptation and discuss the factors contributing to the meaningful participation and leadership of youth across various levels of governance	With a view to enhancing the engagement of the TEC with the broader technology and sustainability community, the hybrid event was attended by approximately 100 in-person and online participants from diverse institutional and regional backgrounds

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
<p>Thematic dialogue on enabling environments to incentivize the private and public sectors in the development and transfer of technologies with a view to further disseminating findings from the work of the TEC on the topic among relevant stakeholders, held in conjunction with the 24<sup>th</sup> meeting of the TEC</p> <p>(Events/technical meetings/forums)</p>	<p>To:</p> <p>(a) Identify the role enabling environments play in supporting countries to achieve the Paris Agreement goals</p> <p>(b) Identify how to enhance the impact of enabling environments by considering success stories, good practices and lessons learned in their implementation</p> <p>(c) Identify opportunities for unlocking financing for enabling environments in developing countries and for enhancing the impact of related investment, including obtaining financial support for such activities</p>	<p>The dialogue was followed by more than 120 online viewers, with findings on the topic shared with various stakeholders</p>
<p>Technology Mechanism side event at SB 56 on the role of technology in constructing more ambitious NDCs,<sup>i</sup> co-organized with the CTCN</p> <p>(Events/technical meetings/forums)</p>	<p>To:</p> <p>(a) Raise awareness of the role of technology in NDCs (including the findings of a TEC–CTCN joint publication) and promote the exchange of views among stakeholders involved in developing or updating NDCs</p> <p>(b) Discuss how to further mainstream technology in NDCs and stimulate support for and uptake of climate technologies to contribute to more ambitious NDCs</p>	<p>The hybrid event was followed by more than 140 online viewers and fostered the exchange of views among stakeholders. The TEC–CTCN joint publication was disseminated</p>
<p>Technology Mechanism side event on fostering technology innovation to support countries in implementing the Paris Agreement,<sup>j</sup> co-organized with the CTCN and held at COP 27</p> <p>(Events/technical meetings/forums)</p>	<p>To:</p> <p>(a) Highlight the current and future work of the Technology Mechanism on innovation among relevant stakeholders, including envisaged activities under the joint work programme of the Technology Mechanism</p> <p>(b) Facilitate a high-level dialogue among innovation leaders on their vision and actions on climate technology</p> <p>(c) Amplify voices from technology practitioners, innovators and other stakeholders on their needs, success stories and priorities regarding technology innovation and collaborative research, development and demonstration</p>	<p>The event was attended in person by more than 80 participants and followed by more than 980 viewers online and raised awareness of the current and future work of the Technology Mechanism, including the joint work programme</p>

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
<p>Thematic dialogue on the future of mobility and advancing resilient, intelligent, sustainable, and equitable mobility systems towards the implementation of the Paris Agreement, in collaboration with the BMW Foundation, at COP 27 (Events/technical meetings/forums)</p>	<p>To continue the work of the TEC on deep decarbonization technologies for sustainable road mobility, by:</p> <p>(a) Enhancing understanding of global trends, progress and the drivers of future mobility and the correlation between mobility and resilience, intelligence, sustainability and equity</p> <p>(b) Showing examples of spatial and social mobility solutions already implemented globally, including challenges and best practices at different scales and regions (at the city and national level)</p> <p>(c) Discussing how responsible leaders, from different sectors and governmental levels, can contribute at the individual, community and systemic level to dynamize the deployment of cutting-edge technologies, reform regulatory frameworks and catalyse sociocultural transformation towards climate-positive mobility systems</p>	<p>The dialogue was attended by more than 60 participants on site and followed by more than 280 viewers online and raised awareness of future trends, progress and drivers in relation to mobility</p>
<p>Engaging with relevant stakeholders throughout 2022, for example through a call for submissions, TEC meetings and bilateral engagements, for developing a new rolling workplan of the TEC (2023–2027) and closely working with the CTCN to develop the first joint work programme of the Technology Mechanism, with a view to enhancing coherence and synergy in the work of the Technology Mechanism (Events/technical meetings/forums)</p>	<p>To:</p> <p>(a) Elevate the performance of the TEC and the Technology Mechanism by focusing on accelerating efforts on transformative climate technology development and transfer in high-impact, high-potential sectors</p> <p>(b) Raise awareness of the role of the Technology Mechanism in achieving the goals of the Paris Agreement and the Convention and promote the joint work programme as a key milestone towards enhancing synergies and collaboration in the work of the Technology Mechanism</p> <p>(c) Engage with relevant stakeholders and potential partners who may be in a position to support the implementation of the joint work programme</p>	<p>A total of 13 submissions were received from Parties, non-governmental organizations and United Nations organizations, among other stakeholders</p> <p>A high-level launch event for the first joint work programme of the Technology Mechanism<sup>k</sup> was held during COP 27 and was attended by high-level representatives of governments, United Nations officials, TEC and CTCN Advisory Board members, technology negotiators and other stakeholders</p> <p>Since the launch of the joint work programme, the TEC has engaged bilaterally with more than 20 potential partners in the context of the implementation of its workplan for 2023–2027</p>

- <sup>a</sup> See the event recording and summary at <https://unfccc.int/event/2022-durban-forum-deep-dive>.
- <sup>b</sup> See the event report, day 1, session 5, at [https://unfccc.int/sites/default/files/resource/UGIH\\_COP27\\_Event\\_Report\\_FINAL\\_2023.pdf](https://unfccc.int/sites/default/files/resource/UGIH_COP27_Event_Report_FINAL_2023.pdf).
- <sup>c</sup> See <https://arc-festival.org/national-innovation-systems/>.
- <sup>d</sup> See the work of the TEC on enabling environments at <https://unfccc.int/ttclear/tec/enablingenvironments.html>.
- <sup>e</sup> See the work of the TEC on TNA and NDC linkages at <https://unfccc.int/ttclear/tec/tnandclinkages.html>.
- <sup>f</sup> See the work of the TEC on climate technologies and with the operating entities of the Financial Mechanism at <https://unfccc.int/ttclear/tec/support.html>.
- <sup>g</sup> See the work of the TEC on oceans and coastal zones at <https://unfccc.int/ttclear/coastalzones/>.
- <sup>h</sup> See [https://unfccc.int/ttclear/events/2020/2020\\_event10](https://unfccc.int/ttclear/events/2020/2020_event10).
- <sup>i</sup> See [https://unfccc.int/ttclear/events/2022/2022\\_event02](https://unfccc.int/ttclear/events/2022/2022_event02).
- <sup>j</sup> See [https://unfccc.int/ttclear/events/2022/2022\\_event04](https://unfccc.int/ttclear/events/2022/2022_event04).
- <sup>k</sup> See [https://unfccc.int/ttclear/events/2022/2022\\_event07](https://unfccc.int/ttclear/events/2022/2022_event07).

Table 10  
**Capacity-building activities undertaken in 2022 by the Climate Technology Centre and Network**

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Joint thematic programme with NDEs on innovative water technologies, including field visits, <sup>a</sup> from 26 to 29 September 2022 in Songdo, Republic of Korea (Training/workshops)	To: (a) Introduce the latest available innovative water technologies that aim to support system transformation, including policy and financial stability for greater impact (b) Share mechanism-linking schemes, including GCF readiness, the GCF simplified approval process and project preparation services (c) Engage grouped NDEs with similar interests in water technologies to co-create mechanism-linking multi-country technical assistance project concepts (d) Offer new knowledge and networking opportunities fostering research, development and demonstration collaborative actions via a field visit	A total of 15 NDEs (12 from Asia and 3 from Africa) participated in 15 keynote and lecture presentations prepared by climate technology experts and academics, including from the GCF  Facilitated by the CTCN, the invited delegates participated in an interactive workshop on co-creating mechanism-linking multi-country technical assistance projects focused on increasing national innovation capacities to address the water-related climate crisis  Two sites were visited in order to introduce potential research, development and demonstration collaborative water management technologies and mentors of climate technology experts  The post-programme survey indicated overall programme satisfaction rated as 4.8 out of 5. There was media promotion in 16 local newspapers
Joint thematic programme with NDEs and delegates from agriculture-related ministries on digital innovation in agriculture, including field visits, <sup>b</sup> held from 14 to 16 December 2022 in Siheung, Republic of Korea (Training/workshops)	To: (a) Introduce concepts of digital innovation and technologies for increasing the overall sustainability of agriculture and the food system (b) Share national updates on digital innovation actions and policies in the agriculture sector (c) Engage NDEs and delegates from agriculture-related ministries to co-design CTCN technical assistance projects	A total of 26 participants representing NDEs and the ministries of agriculture of 14 countries (10 from Asia and 4 from Africa) participated in 12 keynote and lecture presentations prepared by climate technology experts and academics, including from the GCF  Facilitated by the CTCN, the invited delegates participated in an interactive workshop on co-creating collaborative research, development and demonstration technical assistance project concepts focused on

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
	(d) Offer new knowledge and networking opportunities fostering research, development and demonstration collaborative actions via a field visit	<p>increasing national innovation capacities on endogenous technology development</p> <p>Three sites were visited in order to introduce potential research, development and demonstration collaborative smart farm technologies and mentors of climate technology experts</p> <p>Overall programme satisfaction was rated as 4.9 out of 5 in a post-programme survey. There was a 95 per cent rate of submission intention for requests for proposals within the next three to six months for digital innovation-focused technical assistance project dissemination among participating countries</p>
<p>Networking event on co-creating climate solutions with members from the Republic of Korea,<sup>c</sup> held on 22 July 2022 in Songdo</p> <p>(Events/technical meetings/forums)</p>	<p>To:</p> <p>(a) Support the development of innovative technology solutions for Network members</p> <p>(b) Facilitate feedback discussions with technology, finance and policy mentors to increase the feasibility and impact potential of solutions</p>	<p>Four volunteer Network members (future champions) showcased their technology solutions in two different sectors – agriculture/food systems and innovative technologies – in a five-minute presentation</p> <p>Feedback discussion with technology, finance and policy expert panels was facilitated in order to forge connections with Network members, funders and other local technical experts</p> <p>Subsequent face-to-face networking sessions encouraged Network members from the Republic of Korea to build connections with more than 15 local stakeholders who attended the event</p>
<p>Matchmaking event for NDEs and climate technology solution providers in Incheon, Republic of Korea,<sup>d</sup> held on 29 September 2022 in Incheon</p> <p>(Events/technical meetings/forums)</p>	To match NDEs with climate technology experts in Incheon	<p>A total of 15 NDE representatives were exposed to approximately 40 climate technology solution providers (mainly SMEs) at the Environmental Technology &amp; Carbon Neutrality Industry Confex</p> <p>The event led to talks on the transfer of technology between Kenya’s NDE and four potential business partners</p>
<p>Matchmaking event for NDEs and the National Institution of Green Technology of the Republic of Korea (formerly the Green Technology Center Korea), held on 15 December 2022</p> <p>(Events/technical meetings/forums)</p>	To match NDEs with experts at the National Institution of Green Technology of the Republic of Korea and a Network member of the Republic of Korea who volunteered for the event	Upon a request by an NDE, a bilateral meeting between Ghana’s NDE and a potential business partner (a Network member of the Republic of Korea) was supported at the Siheung Seoul National University Global Campus

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Event at the regional symposium on effective governance and digital transformation for accelerating implementation of the 2030 Agenda for Sustainable Development and addressing global challenges, <sup>e</sup> held in Songdo from 22 to 24 November 2022 (Web-based seminars/tools/courses)	To introduce the CTCN Partnership and Liaison Office for potential collaboration with United Nations bodies	Webinar presentation on strengthening risk-informed governance and resilience in cities and local communities for climate action
Three webinars on sustainable finance, managing carbon emissions and creating sustainable value chains related to blockchain technologies <sup>f</sup> (Web-based seminars/tools/courses)	To introduce blockchain concepts and use cases across areas such as governance, renewable energy, climate mitigation and adaptation, carbon markets and value chains	A total of 213 participants attended the three webinars
Regional NDE forum at Africa Climate Week 2022 (Events/technical meetings/forums)	To bring together NDEs and Network members to provide updates on the CTCN and its past and ongoing activities in Africa, to discuss the programme of work for 2023–2027 and related strategic considerations and to share success stories of technical assistance in Africa relating to the five themes of the technology framework	A total of 38 NDE representatives took part in the forum and explored ways of enhancing resilience to climate risks, the transition to a low-emission economy and partnerships for solving pressing challenges
Training on demand-side management in South Africa (Events/technical meetings/forums)	To provide ongoing training on demand-side management measures and tools to key stakeholders from the Council for Scientific and Industrial Research and Eskom in South Africa. In 2022, two trainings were held, on advanced metering infrastructure metering and analysis and energy storage deployment and performance	A total of 15 participants took part in the training
South–South knowledge-sharing and capacity-building initiative on opportunities for low-emission transportation in the South Asia, Asia-Pacific and Africa regions, which included one in-person workshop in Delhi, India, from 20 to 23 June 2022; one webinar on 29 July 2022; and one publication on low-carbon development opportunities in the Africa and Asia-Pacific regions <sup>g</sup> (Training/workshops)	To respond to the growing demand and need for knowledge exchange and facilitate regional collaboration among countries in the South Asia, Pacific and Africa regions on low-carbon transportation, focusing on electric mobility. The participants (from the Asia-Pacific and Africa regions) and experts (from India and the Republic of Korea) visited industry and research and development centres in Delhi	A total of 11 participants (of whom four were women) from 10 countries in the Asia-Pacific and Africa regions improved their knowledge on low-carbon transport technologies and related initiatives in the regions, including through direct exposure to sector, industry and research and development initiatives in Delhi and by learning from the experience of other countries  A total of 39 people from research institutes, industry, governments and non-governmental organizations, who learned about ongoing initiatives and opportunities for low-carbon transport, attended the webinar  The initiative contributed to facilitating further South–South exchange on opportunities for the transfer of specific technologies



<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
<p>Technology clinic, organized in collaboration with the Asian Institute of Technology, for agrifood SMEs in Thailand, which included one in-person training workshop in Bangkok held from 8 to 10 June 2022 and a manual and training materials on key climate technologies<sup>h</sup></p> <p>(Training/workshops)</p>	<p>To respond to the need of agrifood SMEs in Thailand for an enhanced awareness and understanding of readily available and proven climate technologies and to strengthen their capacities to develop or adapt strategies to mainstream climate technologies in their business processes in order to facilitate the adoption and commercialization of climate technologies</p>	<p>Twenty-three participants (of whom 12 were women) from SMEs, including community enterprises and groups, rice growers, and rice millers and cooperatives, gained an increased capacity at the clinic to develop or adapt strategies to mainstream climate technologies in their business processes</p> <p>The training also contributed to expanding the Network with local and regional climate technology stakeholders in order to make accessible to SMEs new resources on relevant climate technologies for agrifood SMEs in Thailand and to co-create strategic maps and associated action plans to develop business opportunities for the participating SMEs</p> <p>Materials developed (including in the Thai language) can be further disseminated to other SMEs in Thailand. Lessons learned from this initiative are informing the development of another CTCN technology clinic for SMEs in the agrifood sector</p>
<p>Technical workshop, organized in collaboration with the Sri Lanka Ministry of Environment, to develop project concepts in the water sector in Sri Lanka, held in Colombo, Sri Lanka on 21 September 2022</p> <p>(Events/technical meetings/forums)</p>	<p>To create greater awareness and knowledge, and to develop capacity, in the water sector in Sri Lanka on climate technologies that address the challenges faced in the sector, in order to assist people in identifying and prioritizing technology needs across the water sector and to improve capacity to develop project ideas</p>	<p>Approximately 50 people participated in the technical workshop (either in person or virtually) and gained a greater understanding of the climate challenges and potential climate technology solutions related to the water sector in Sri Lanka and of how to access support available from the CTCN (including through the Adaptation Fund Climate Innovation Accelerator programme)</p>
<p>Webinar on developing multilateral environmental agreements using integrated information management systems, held on 28 April 2022<sup>i</sup></p> <p>(Web-based seminars/tools/courses)</p>	<p>To provide an overview of the process for implementing national environmental data and information systems<sup>j</sup> and how they can help countries adapt to and fight climate change, reflecting the experience of Antigua and Barbuda</p>	<p>The webinar was attended by 78 people. The solution developer, Design &amp; Environment (a Network member), introduced a technical platform to share the impacts achieved at the country level and potentially to seek collaboration opportunities with other countries</p>
<p>Webinar on regulation development options on energy efficiency in the refrigeration and air-conditioning sector in Papua New Guinea,<sup>k</sup> held on 18 August 2022</p> <p>(Web-based seminars/tools/courses)</p>	<p>To share the findings of market assessments on regulation options in the refrigeration and air-conditioning sector and to seek valuable feedback from stakeholder consultations</p>	<p>The webinar was attended by 42 stakeholders from the refrigeration and air-conditioning sector, including the NDE of Papua New Guinea: the Climate Change Development Authority. The project implementer, Econoler (a Network member), presented the findings of three reports (on market assessment, regulatory and gender mainstreaming, and monitoring, verification and enforcement) and received feedback from participants. Participants provided comments on designing a</p>

Activity	Objective(s)	Quantitative/qualitative outcome(s)
<p>Webinar on nature-based solutions to emerging water management challenges in the Asia-Pacific region,<sup>l</sup> held on 12 October 2022 in collaboration with UNEP–DHI Centre on Water and Environment (Web-based seminars/tools/courses)</p>	<p>To provide a closer look at the significance of nature-based solutions for improved water management and climate resilience in the Asia-Pacific region while launching a CTCN knowledge brief<sup>m</sup></p>	<p>standards and labelling programme for air conditioners with a determined energy performance threshold and labelling categories and on an appropriate monitoring, verification and enforcement protocol in Papua New Guinea</p> <p>The webinar was attended by 223 people (52 per cent of whom were men and 47 per cent of whom were women) from 53 countries. Participants discussed experience and opportunities with nature-based solutions in the region and with CTCN partners</p>
<p>Gender-just climate solutions upscaling programme (Web-based seminars/tools/courses)</p>	<p>To promote gender-responsive approaches in technology development and transfer and to assist existing gender-just climate initiatives in mitigation and/or adaptation to replicate and scale up their work</p>	<p>A total of 15 participants received a small grant for travel to attend the awards ceremony at COP 27, a two-day capacity-building workshop and a year-long mentoring programme led by the CTCN and the women and gender constituency</p> <p>A gender-just climate solutions publication,<sup>n</sup> which provided information on the winning solutions and several finalist solutions, was developed and disseminated in English, French and Spanish. The report was launched during the gender-just climate solutions awards ceremony at COP 27, which was viewed by 800 people</p> <p>Four gender-just climate technologies workshops were held in the Asia-Pacific, anglophone Africa, francophone Africa and Latin America and the Caribbean regions. A total of 16 people participated in a training-of-trainers session hosted by Women Engage for a Common Future with the support of the CTCN</p>
<p>Youth climate innovation programme for the MENA region<sup>o</sup> (Web-based seminars/tools/courses)</p>	<p>To build the technology innovation capacity of young people in the region through training on design thinking skills and group ideation, as well as technology incubation, business model development and presentation</p>	<p>The MENA Youth Climate Innovation Labs and eight-week Academy took place in September and October 2022, providing 80 young people from 14 countries with innovation skills and mentoring to develop climate solutions for the region</p>
<p>Drought risk prediction model training in Saint Kitts and Nevis, held from 28 to 30 November 2022 (Events/technical meetings/forums)</p>	<p>To train users of the drought forecasting system by explaining the architecture of the system and its functionalities and encouraging them to test the system and request modifications that will be implemented by the end of the project. The training showcased the drought forecasting system, allowed feedback to be</p>	<p>The training included 36 participants from government institutions, the St. Christopher Air &amp; Sea Ports Authority and academia</p>

Activity	Objective(s)	Quantitative/qualitative outcome(s)
Training workshop on Paraguay's TNA and technology action plan process and on participatory planning and prioritization tools, held at the Protected Areas Hall of the Ministry of Environment and Sustainable Development on 27 June 2022 (Events/technical meetings/forums)	obtained on potential areas for improvement and included discussion on ownership, data requirements and operationalization of the tool  To enable the development of a comprehensive TNA and an associated action plan for climate change mitigation and adaptation needs identified in Paraguay's prioritized sectors. Presentation of key planning and prioritization tools for further use throughout the TNA and technology action plan process	The training included 27 participants from the ministry and members of the technology needs assessment committee in Paraguay
Technical workshop with stakeholders and a research, development and demonstration focus group to validate the feasibility of climate technologies applicable to dairy farms and their sustainability, held in Uruguay on 12 December 2022 (Events/technical meetings/forums)	To create a participatory exchange and validation exercise on climate technologies applicable to dairy farms and their sustainability. Discussion of the suggested solutions, both individual and collective, and the advantages of and strategies for the development of the main products proposed – heat, fertilizer and electric energy – were presented	The training took place at the Ministry of Environment of Uruguay, with 42 participants
TNA process training workshop, held in Chile on 16 August 2022 (Events/technical meetings/forums)	The organization of the TNA process capacity-building training was framed around six themes: understanding the process in general and the different steps to conduct the TNA, the TNA process in Chile, stakeholder engagement, participatory planning tools, gender inclusion approaches and indigenous peoples' inclusion approaches throughout the process	The training took place on 16 August 2022. A total of 25 people from 23 public institutions participated, with six participants each from the waste and water resources sectors, and four participants each from the forestry, agriculture and energy sectors

<sup>a</sup> See <https://www.ctc-n.org/calendar/events/ctcn-partnership-and-liaison-office-capacity-building-program-innovative-climate>.

<sup>b</sup> See <https://www.ctc-n.org/news/ctcns-palo-now-hosting-3-day-capacity-building-programme-digital-technology-applications>.

<sup>c</sup> See <https://www.ctc-n.org/calendar/events/ctcn-partnership-and-liaison-office-launch-songdo-networking-event-co-creating>.

<sup>d</sup> See [http://eciex.kr/web/php/main\\_en.php](http://eciex.kr/web/php/main_en.php).

<sup>e</sup> See <https://unpan.un.org/node/1766>.

<sup>f</sup> See <https://www.ctc-n.org/news/ctcn-webinar-series-blockchain-technologies-climate-policy-implementation-recordings-available>.

<sup>g</sup> See <https://www.ctc-n.org/news/ctcn-steers-efforts-unlock-opportunities-low-emission-transportation-asia-pacific-africa>.

<sup>h</sup> See <https://dds.ait.ac.th/sdgs/2019/08/02/delivery-of-training-program-for-technology-clinic-for-small-and-medium-sized-enterprises-smes-in-thailand/>.

<sup>i</sup> See <https://www.ctc-n.org/calendar/webinars/using-integrated-information-management-systems-multilateral-environmental>.

<sup>j</sup> See <https://neis.environment.gov.ag/>.

<sup>k</sup> See <https://www.ctc-n.org/technical-assistance/projects/energy-efficiency-refrigeration-and-air-conditioning-sector>.

<sup>l</sup> See <https://www.ctc-n.org/calendar/events/recording-and-slides-available-nature-based-solutions-emerging-water-management>.

<sup>m</sup> Bertule M and Hansen LR. 2022. *Nature-based Solutions to Emerging Water Management Challenges in the Asia-Pacific Region*. CTCN. Available at [https://www.ctc-n.org/sites/www.ctc-n.org/files/resources/CTCN\\_Brief\\_AsiaPacific.pdf](https://www.ctc-n.org/sites/www.ctc-n.org/files/resources/CTCN_Brief_AsiaPacific.pdf).

<sup>n</sup> Barre A, Gordon A, De la Plaza C, et al. 2022. *Gender Just Climate Solutions 2022*. WECF.

<sup>o</sup> See <https://www.seedstars.com/community/entrepreneurs/programs/ctcn-youth-climate-innovation-labs-mena/en/>.

Table 11  
**Capacity-building activities undertaken in 2022 by the Executive Committee of the Warsaw International Mechanism**

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Preparing an annual update of the online guide on loss and damage <sup>a</sup> (Web-based seminars/tools/courses)	To provide an overview of the provisions on loss and damage under the UNFCCC and of information on technical and thematic knowledge products developed under the WIM	The online guide serves as a tool for navigating the procedural, thematic and technical work carried out under the WIM and by the Executive Committee and its five expert groups. The guide is periodically updated to reflect relevant developments
Side event on linking climate change science, policy and practice to addressing loss and damage associated with slow onset events, <sup>b</sup> held at SB 56 (Events/technical meetings/forums)	To enhance understanding of various types of loss and damage, especially those related to impacts induced by slow onset events, and to showcase associated policy instruments, action and support available for countries to respond to these challenges	The event contributed to enhancing the understanding of the nexus between the latest science, as synthesized by the IPCC, and policy and effective practices at the national level, and of ways in which the efforts convened by the technical expert group on comprehensive risk management under the WIM and the task force on displacement of the WIM Executive Committee could support those practices. In doing so, the event provided examples of types of losses and damages relevant to human mobility and livelihoods, as well as those that are non-economic, such as cultural heritage
Side event on the next phase of the WIM Executive Committee, from policy guidance to solutions on the ground, <sup>c</sup> held at COP 27 (Events/technical meetings/forums)	To present the ways in which the WIM Executive Committee's new five-year rolling workplan, the new plans of action of its technical expert group on comprehensive risk management and the task force on displacement could contribute to assisting developing countries in responding to loss and damage, and to provide space for developing countries to share good practices and challenges related to responding to loss and damage	The event allowed for reflections on how the thematic expert groups of the WIM can best serve countries in catalysing action and support at the national, subnational and local level and contributed to a better understanding of good practices and lessons learned on the ground as they relate to responding to loss and damage
Annual outreach event, on achievements and challenges in averting, minimizing and addressing loss and damage on the ground <sup>d</sup> (Events/technical meetings/forums)	To present the key achievements for 2022 of the WIM Executive Committee and its expert groups and hear reflections from country practitioners, including loss and damage contact points, on experience in addressing loss and damage on the ground, along with associated challenges, with a view to informing the future work of the WIM Executive Committee and its expert groups, task force on displacement and technical expert group on comprehensive risk management to assist developing countries, and to provide an overview of relevant COP 27 outcomes and related implications for countries with	The annual outreach contributed to a better understanding of how countries address loss and damage on the ground and the challenges and gaps they face

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
	a view to informing the future work of the WIM Executive Committee and its expert groups, task force and technical expert group to assist developing countries in averting, minimizing and addressing loss and damage associated with climate change impacts	
Technical workshop on the institutional arrangements of the Santiago network <sup>e</sup> (Events/technical meetings/forums)	To elaborate on views and ideas on the institutional arrangements of the Santiago network that best catalyse demand-driven technical assistance relevant to loss and damage contexts, which covered operational modalities, structure, the role of the WIM Executive Committee and its thematic expert groups, the role of loss and damage contact points and other relevant stakeholders at the subnational, national and regional level, and possible elements for the terms of reference of a potential convening or coordinating body that may provide secretariat services to facilitate work under the Santiago network	The technical workshop was organized under the guidance of the Chairs of the subsidiary bodies, and with a set of guiding questions prepared by the WIM Executive Committee, to facilitate discussions on the timely operationalization of the Santiago network. An informal information note that summarizes the discussions is available <sup>f</sup>
Preparing a summary of the information provided on technical assistance catalysed by the Santiago network <sup>g</sup> (Tools/handbooks)	To provide information on the technical assistance provided by relevant organizations, bodies, networks and experts for averting, minimizing and addressing loss and damage associated with the adverse effects of climate change in developing countries that are particularly vulnerable to the impacts of climate change	A total of 14 submissions describing technical assistance provided to developing countries were received by 9 September 2022 and summarized as an addendum to the 2022 report of the WIM Executive Committee <sup>h</sup> in order to give a general overview of the current practice. The types of technical assistance described include risk mapping, assessments and analysis; early warning systems; anticipatory action; risk finance, insurance schemes and contingency measures; policy and legal frameworks and plans; and nature-based solutions
Maintaining the Fiji Clearing House for Risk Transfer <sup>i</sup> (Web-based seminars/tools/courses)	To enhance countries' understanding of, and facilitate efforts to develop and implement, risk transfer solutions in the context of comprehensive risk management strategies	The aim of the Fiji Clearing House is to serve as an open repository for information on insurance and risk transfer, including case studies, information on relevant institutions and tutorials
Plan of action of the expert group on slow onset events (Technical assistance/support)	To contribute to overall efforts, including by assisting the WIM Executive Committee, in enhancing cooperation and facilitation in relation to slow onset events	Outcomes of the plan of action <sup>j</sup> include assessing capacity gaps and needs; identifying resources, including finance, for implementing solutions; and developing scenarios, guidance and/or strategy in relation to the steps necessary to understand and plan for practical action and policy responses to the impacts

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
		on livelihood and implications for critical systems of sea level rise, salinization, glacier retreat and desertification
Plan of action of the expert group on non-economic losses (Technical assistance/support)	To contribute to overall efforts, including by assisting the WIM Executive Committee, in enhancing cooperation and facilitation in relation to non-economic losses	Outcomes of the plan of action <sup>k</sup> include enhancing technical capacity and catalysing support, including by developing technical guides
Plan of action of the expert group on action and support (Technical assistance/support)	To contribute to overall efforts, including by assisting the WIM Executive Committee, in enhancing cooperation and facilitation in relation to action and support, including finance, technology and capacity-building	Outcomes of the plan of action <sup>l</sup> include a compilation of lessons learned, good practices and challenges related to GCF investments; accessible products to introduce available sources of support under and outside the Convention and the Paris Agreement for averting, minimizing and addressing loss and damage; and accessible products to create enabling conditions for effective implementation of risk transfer facilities and social protection schemes, and support for capacity-building to address loss and damage
Plan of action of the technical expert group on comprehensive risk management (Technical assistance/support)	To contribute to overall efforts, including by assisting the WIM Executive Committee, in enhancing cooperation and facilitation in relation to comprehensive risk management approaches	Outcomes of the second plan of action <sup>m</sup> include continuing to advance the work related to the development of technical guides under the WIM and policy briefs on, inter alia, application of comprehensive risk management approaches to risk-informed planning and implementation, options and solutions for comprehensive risk management, climate risk assessment and climate services, humanitarian perspective on climate risk, social protection and climate and disaster impact monitoring
Plan of action of the task force on displacement (Technical assistance/support)	To contribute to overall efforts, including by assisting the WIM Executive Committee, in enhancing cooperation and facilitation in relation to human mobility, including migration, displacement and planned relocation	Outcomes of the third plan of action <sup>n</sup> include advancing the development of technical products to support the implementation of integrated approaches to averting, minimizing and addressing displacement related to the adverse impacts of climate change. The plan of action also aims to maximize synergies among relevant stakeholders and processes, using the value of the task force on displacement as a convening body well positioned to bring together a broad range of stakeholders seeking to address issues relevant to the nexus between climate change and human mobility

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
Second five-year rolling workplan <sup>o</sup> (Technical assistance/support)	To guide the implementation of the functions of the WIM in enhancing the understanding of comprehensive risk management, strengthening coordination and coherence of overall efforts and enhancing action and support for implementing approaches relevant to the loss and damage context in developing countries	Outcomes of the second five-year rolling workplan include supporting the implementation of the functions of the WIM through dedicated activities under the five workstreams of the WIM Executive Committee and through additional cross-cutting activities, such as awareness-raising, development and dissemination of technical guides on loss and damage, and facilitation of capacity-building and training for the application of technical guides and other knowledge products

<sup>a</sup> Available at [https://unfccc.int/sites/default/files/resource/loss\\_and\\_damage\\_online\\_guide.pdf](https://unfccc.int/sites/default/files/resource/loss_and_damage_online_guide.pdf).

<sup>b</sup> See <https://unfccc.int/event/WIM-ExCom-Side-Event-SB56-Science-Policy-and-Practice-to-Address-Loss-and-Damage>.

<sup>c</sup> See <https://unfccc.int/event/wim-excom-policy-guidance-solutions>.

<sup>d</sup> See <https://unfccc.int/event/wim-excom-outreach-2022>.

<sup>e</sup> See <https://unfccc.int/event/tech-workshop-SN-Loss-and-Damage>.

<sup>f</sup> Available at <https://unfccc.int/sites/default/files/resource/Informal%20information%20note%20by%20the%20Chairs%20of%20the%20Subsidiary%20Bodies.pdf>.

<sup>g</sup> See <https://unfccc.int/topics/adaptation-and-resilience/resources/santiago-network/announcements>.

<sup>h</sup> See document FCCC/SB/2022/2/Add.1.

<sup>i</sup> See <http://www.unfccc-clearinghouse.org/>.

<sup>j</sup> See document FCCC/SB/2021/4, annex II.

<sup>k</sup> See document FCCC/SB/2021/4, annex IV.

<sup>l</sup> See document FCCC/SB/2021/4, annex III.

<sup>m</sup> See document FCCC/SB/2022/2/Add.2, annex II.

<sup>n</sup> See document FCCC/SB/2022/2/Add.2, annex III.

<sup>o</sup> See document FCCC/SB/2022/2/Add.2, annex I.

Table 12  
**Capacity-building activities undertaken in 2022 by the Executive Board of the clean development mechanism**

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
<b>Activities mandated under support to forums and other stakeholders</b>		
The 23 <sup>rd</sup> meeting of the Global DNA Forum <sup>a</sup> (Events/technical meetings/forums)	To build the capacity of DNAs, share information and discuss how to further support climate action, including through the CDM	A total of 38 participants discussed the handling of new cases received from project developers, the role of DNAs under temporary measures, the transition to the Article 6.4 mechanism and the use of certified emission reductions towards the first or updated NDC and possible use of CDM methodologies in activities under Article 6, paragraph 2, of the Paris Agreement
Africa regional DNA Forum <sup>a</sup> (Events/technical meetings/forums)	To provide opportunities for DNA representatives to exchange views, share their experience relating to the CDM and bring forward common views and issues to	A total of 29 participants received updates on the carbon market mechanisms under the Kyoto Protocol and the Paris Agreement and discussed the institutional

<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
	the attention of the CDM Executive Board, including on the temporary measures under the CDM, transition of CDM activities and capacity-building needs	framework required at the country level to implement Article 6 of the Paris Agreement and related capacity-building needs
Latin America and the Caribbean regional DNA Forum <sup>a</sup> (Events/technical meetings/forums)	To provide opportunities for DNA representatives to exchange views, share their experience relating to the CDM and bring forward common views and issues to the attention of the CDM Executive Board, including on the temporary measures under the CDM, transition of CDM activities and capacity-building needs	A total of 15 participants gained clarity on the temporary measures under the CDM, transition of CDM activities and readiness to implement Article 6 of the Paris Agreement, including capacity-building needs for the Latin America and the Caribbean region
Four conference calls with DOEs (Events/technical meetings/forums)	To discuss the outcomes of CDM Executive Board meetings and provide clarification on decisions taken by the Board	At the conference calls, the secretariat provided clarification to the 53 participants on decisions taken by the CDM Executive Board, including any new CDM regulations, upon request from the DOEs; the capacity and knowledge of the DOEs to conduct validation and verification of CDM activities were thus enhanced
Calibration workshop for DOEs and applicant entities (Training/workshops)	To strengthen the capacity of DOEs and provide them with opportunities for sharing their experience of validation and verification under the CDM regulations approved by the Executive Board	At the workshop, which included 30 participants, the capacity and knowledge of the DOEs and the secretariat were strengthened, and possible areas for improvement were identified
<b>Activities mandated under support to regions<sup>b</sup></b>		
<b>(a) Africa</b>		
(i) COP 26 debrief on the role of market mechanisms in eastern Africa (Training/workshops)	To provide governments and project developers with support from the RCCs through capacity-building, technical support and strategic networking, sourcing know-how and resources to drive sustainable development and promote the use of certified emission reductions	The average number of participants per event was 35. For outcomes, see: (a) The individual RCC web pages, <sup>c</sup> including the RCC newsletters (b) The 2022 RCC regular report to the CDM Executive Board <sup>d</sup> (c) The 2022 report of the CDM Executive Board to the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol <sup>e</sup>
(ii) Capacity-building for the Uganda National Task Force on Climate Change Mechanisms (Training/workshops)		
<b>(b) Asia and the Pacific and MENA</b>		
(i) Webinar on the outcomes of COP 26 and how United Nations Global Compact members Malaysia and Brunei Darussalam can take ambitious and credible actions through the race to zero campaign (Web-based seminars/tools/courses)		
(ii) Webinar on the experience in the capacity-building programme for host countries – achievements and experiences of the RCCs		



<i>Activity</i>	<i>Objective(s)</i>	<i>Quantitative/qualitative outcome(s)</i>
(Web-based seminars/tools/courses)		
(iii) Webinar on how organizations can decarbonize by 2050 to achieve the race to zero		
(Web-based seminars/tools/courses)		
(iv) Side event on which data are necessary for baseline development, held on the margins of the 5 <sup>th</sup> Transport and Climate Change Week 2022		
(Training/workshops)		
(v) CDM session on the CDM project cycle		
(Training/workshops)		
(vi) Workshop on carbon markets in the Gulf Cooperation Council countries and accelerating robust market development and promoting regional cooperation		
(Training/workshops)		
<b>(c) Latin America and the Caribbean</b>		
(i) Workshop on carbon pricing in Grenada		
(Training/workshops)		
(ii) Webinar on improving knowledge of carbon markets among youth		
(Web-based seminars/tools/courses)		
(iii) The 3 <sup>rd</sup> Caribbean Academy for Global Youth Leadership Empowerment webinar on carbon markets, held on 23 May 2022		
(Web-based seminars/tools/courses)		
<b>Official side event organized by the secretariat</b>		
Side event on the potential of CDM experience in rolling out the Article 6.4 mechanism <sup>f</sup> at COP 27	To discuss the CDM infrastructure, including the regulatory framework, methodologies, RCCs, accreditation system, registry, forums and capacity-building programmes, that, with some changes and customization, could be applied by the Supervisory Body for the Article 6.4 mechanism in expeditious implementation of that mechanism	The side event showed the 120 participants that the CDM offers valuable lessons learned, expertise and ready-made components that may help the Article 6.4 mechanism be both effective and efficient
(Events/technical meetings/forums)		

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<sup>a</sup> See <https://cdm.unfccc.int/stakeholder/index.html>.

<sup>b</sup> For the objectives of the events and information on the target audience, see the articles published on the individual RCC web pages.

<sup>c</sup> See <https://unfccc.int/RCCs>.

<sup>d</sup> See <https://cdm.unfccc.int/EB/report/index.html>.

<sup>e</sup> See [https://cdm.unfccc.int/Reference/EB\\_CMP\\_rep/index.html](https://cdm.unfccc.int/Reference/EB_CMP_rep/index.html).

<sup>f</sup> See <https://seors.unfccc.int/seors/reports/archive.html>.

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