

Agenda item 8 (b) ii. Technology Mechanism Initiative on Artificial Intelligence for Climate Action

Draft workplan for the Technology Mechanism Initiative on AI for Climate Action (2024-2027)

Technology Executive Committee, 28th meeting and TEC-CTCN Joint session
16-18 and 19 April 2024, Copenhagen, Denmark



Background

- **June 2023:** The TEC and the CTCN Advisory Board established the Technology Mechanism Initiative on Artificial Intelligence for Climate Action inter-sessionally on an ad-hoc basis and requested the TEC and CTCN Secretariat to immediately undertake activities and prepare documents for consideration at the next joint session.
- **TEC 27-CTCN AB 22:** The TEC and the CTCN Advisory Board agreed on a concept note for the Initiative, including activities to be undertaken by the TEC, by the CTCN and jointly by the TEC and CTCN (TEC/2023/27/21, Annex III). The TEC-CTCN Advisory Board agreed to jointly develop a draft workplan for the Initiative.
- **COP 28** requested the TEC and the CTCN to enhance awareness of AI and implement the Initiative in a manner that gives special attention to capacity needs for the use of AI and support to the implementation of TNA outcomes and the joint work programme of the Technology Mechanism (9/CP.28).
- The TEC and CTCN Secretariats prepared a **draft workplan for the Initiative (TEC/2024/28/15)** based on proposals from the TEC-CTCN joint taskforce on AI, considering the COP 28 outcomes.



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Overview

Workstreams	Activity Leads	Activities
<p>1. Support the implementation of the Technology Mechanism Joint Work Programme and the implementation of TNA outcomes</p>	<p>TEC Activity Group on Digital Technologies</p>	<ul style="list-style-type: none"> • Support the implementation of the TEC rolling workplan (2023–2027)
	<p>CTCN Secretariat</p>	<ul style="list-style-type: none"> • Support the implementation of the CTCN programme of work (2023–2027)
	<p>TEC-CTCN Joint Taskforce on AI</p>	<ul style="list-style-type: none"> • Support the implementation of common areas of work and joint activities • Support the Advisory Group for the AI Initiative • Undertake resource mobilization and partnership development
<p>2. Enhance the capacity of stakeholders from LDCs and SIDS regarding the use of AI for climate action, in a way that is responsive to gender and vulnerable communities</p>	<p>TEC Activity Group on Digital Technologies</p>	<ul style="list-style-type: none"> • Enhance the capacity of stakeholders from LDCs and SIDS
	<p>CTCN Secretariat</p>	
	<p>TEC-CTCN Joint Taskforce on AI</p>	
<p>3. Raise awareness of AI for climate action, including on challenges and risks posed by AI such as energy consumption, data security and the digital divide in this context</p>	<p>TEC-CTCN Joint Taskforce on AI</p>	<ul style="list-style-type: none"> • Enhance the capacity of stakeholders from LDCs and SIDS

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Workstream 1. Support the implementation of the Technology Mechanism JWP and the implementation of TNA outcomes

Lead	Activity	Deliverables			
		2024	2025	2026	2027
TEC Activity Group on Digital Technologies	1.1.Support the implementation of the TEC rolling workplan (2023–2027)	<p>1.1.1. Technical paper on AI for climate action, including an audit of the potential role of AI for supporting the implementation of the joint work programme and the implementation of TNA outcomes <i>Supported by: UNIDO</i></p> <p>1.1.2. Inputs on AI to the TEC/GEO knowledge product on emerging and transformational adaptation technologies (EWS)</p>	<p>1.1.3. Policy brief on opportunities, risks and challenges of AI for climate action</p> <p>1.1.4. Inputs on AI to the TEC knowledge product on NSI</p> <p>1.1.5. Inputs on AI to the TEC work on energy storage</p> <p>1.1.6. Inputs on AI to the TEC knowledge product on carbon footprint and building codes</p> <p>1.1.7. Inputs on AI to the TEC analysis of standards for low and near zero emissions solutions for hard-to-abate industries</p> <p>1.1.8. Inputs on AI to the knowledge product on how developing countries can be supported in updating their TNAs and implementing their TAPs and TNA outcomes</p>	<p>1.1.9. Inputs on AI to the TEC tool to identify country needs for the setup and implementation of NSI</p> <p>1.1.10. Inputs on AI to the TEC knowledge product on RD&D</p>	

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Workstream 1. Support the implementation of the Technology Mechanism JWP and the implementation of TNA outcomes

Lead	Activity	Deliverables			
		2024	2025	2026	2027
CTCN Secretariat	1.2. Support the implementation of the CTCN programme of work (2023–2027)	<p>1.2.1. Capacity-building of NDEs on AI for climate action</p> <p>1.2.2. Implementation of technical assistance with components of AI as per the demand by the countries</p>	<p>1.2.3. Capacity-building of NDEs on AI for climate action</p> <p>1.2.4. Implementation of technical assistance with components of AI as per the demand by the countries</p>	<p>1.2.5. Capacity-building of NDEs on AI for climate action</p> <p>1.2.6. Implementation of technical assistance with components of AI as per the demand by the countries</p>	<p>1.2.7. Capacity-building of NDEs on AI for climate action</p> <p>1.2.8. Implementation of technical assistance with components of AI as per the demand by the countries</p>



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Workstream 1. Support the implementation of the Technology Mechanism JWP and the implementation of TNA outcomes

Lead	Activity	Deliverables			
		2024	2025	2026	2027
TEC-CTCN Joint Taskforce on AI	1.3. Support the implementation of common areas of work and joint activities		1.3.1. Knowledge product/event on the use of AI for improving energy systems <i>Proposed partners: IEA, IRENA, Clean Energy Ministerial, Mission Innovation</i>	1.3.2. Knowledge product/event on the use of AI for the water-energy-food nexus <i>Proposed partners: FAO; Innovation Commission for Climate Change, Food Security and Agriculture; Agriculture Innovation Mission for Climate</i>	
	1.4. Support the Advisory Group (AG) for the AI Initiative	1.4.1. Finalization of terms of reference for the AG 1.4.2. Coordination of nomination and selection of AG members 1.4.3. Facilitation of meetings of the AG 1.4.4. Facilitation of inputs by the AG to the Initiative	1.4.5. Facilitation of meetings of the Advisory Group 1.4.6. Facilitation of inputs by the Advisory Group to the Initiative		
	1.5. Undertake resource mobilization and partnership development	1.5.1. Fundraising proposal for the Initiative	1.5.2. Framework for developing an alliance of public and private sector stakeholders worldwide active in this space		

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Workstream 2. Enhance the capacity of stakeholders from LDCs and SIDS regarding the use of AI for climate action, in a way that is responsive to gender and vulnerable communities

Lead	Activity	Deliverables			
		2024	2025	2026	2027
TEC Activity Group on Digital Technologies	2.1. Enhance the capacity of stakeholders from LDCs and SIDS	<p>2.1.1. AI Innovation Grand Challenge <i>In partnership with Enterprise Neurosystem</i></p> <p>2.1.2. Workshop on AI for climate action, including representatives of LDCs and SIDS <i>In partnership with UNU</i></p>	<p>2.1.3. Concept note on practical means to support AI implementation for transformative climate solutions in developing countries, with a focus on LDCs and SIDS, such as an AI climate accelerator</p>	<p>2.1.4. Knowledge product/event on the local development of AI-powered solutions for climate action in LDCs and SIDS, including perspectives of women, indigenous, and marginalized groups on the use of AI for climate action</p>	
CTCN Secretariat	2.2. Enhance the capacity of stakeholders from LDCs and SIDS		<p>2.2.1. Online platform of regional AI4ClimateAction network</p>		
TEC-CTCN Joint Taskforce on AI	2.3. Enhance the capacity of stakeholders from LDCs and SIDS	<p>2.3.1. AI Climate Application Hub <i>In partnership with Enterprise Neurosystem</i></p>			



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Workstream 3. Raise awareness of AI for climate action, including on challenges and risks posed by AI such as energy consumption, data security and the digital divide in this context

Lead	Activity	Deliverables			
		2024	2025	2026	2027
TEC-CTCN Joint Taskforce on AI	3.1. Raise awareness of AI for climate action	<p>3.1.1. Summary of COP 28 High-level event on AI, including video recording and presentations</p> <p>3.1.2. COP 29 event</p> <p>3.1.3. Virtual participation in the Climate Change AI Summer School 2024</p>	<p>3.1.4. Inputs to the work of the UN Secretary-General Advisory Body on AI as appropriate</p>		



Next step

- Guidance is sought from the TEC and CTCN Advisory Board on their views of the proposed activities in the draft workplan, taking into account that the workplan can only be implemented subject to the availability of resources.

Thank you.

