

Agenda item 4 (a) iv. Digital Technologies

Concept Note: Technology Mechanism Initiative on Artificial Intelligence for Climate Action TEC/2023/27/8

Technology Executive Committee, 27th meeting and TEC-CTCN Joint session
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TEC Activity Group on Digital Technologies

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I. Background

- The TEC is exploring the role of artificial intelligence (AI) and applied machine learning as enablers of climate solutions (TEC rolling workplan, Activity A.4.1.);
- Technology Mechanism Initiative on AI for Climate Action (#AI4ClimateAction) announced at the UN Climate Change Conference Bonn in June 2023;
- TEC agreed to add the Initiative as deliverable A.4.1.iii for 2023 to its rolling workplan;
- TEC Activity Group on Digital Technologies prepared a draft concept note on the Initiative (TEC/2023/27/08) to guide the further work.



II. Objectives

... to explore the role of artificial intelligence as a powerful technological tool for advancing and scaling up transformative climate solutions for mitigation and adaptation action in developing countries with a focus on LDCs and SIDS.

- Provide a space for policy discussions, awareness raising, and exchange of knowledge and experiences on developing and deploying climate solutions powered by AI;
- Support capacity-building efforts in developing countries to leverage emerging digital technologies and devise locally led solutions harnessing AI;
- Develop CTCN regional networks of entities supporting AI for climate actions.

III. Structure

- Guided by the Technology Mechanism Joint Work Programme (2023-2027)
- Support the implementation of the TEC rolling workplan (2023-2027) across its four workstreams
- Support the CTCN Programme of Work (2023-2027) across its five system transformational areas.
- Activities under the three potential workstreams:
 - (a) AI for Mitigation;
 - (b) AI for Adaptation/Disaster Risk Reduction;
 - (c) AI for the development of climate technologies.

IV. Partnerships

- With the TEC through UNFCCC/TEC Secretariat
- With CTCN as network member

V. Potential activities

- (a) Establish and host an Advisory Group
- (b) Develop external document on the Initiative to facilitate partnerships and resource mobilization
- (c) Establish partnership modalities and develop partnerships
- (d) Prepare a workplan for the Initiative (2023-2024 and/or 2023-2027)
- (e) Organize online workshops/events on AI-powered climate solutions
- (f) Develop a dedicated webpage on TT:Clear
- (g) Map existing AI for climate action initiatives and information
- (h) Develop an online repository on AI for climate action



V. Potential activities (continued)

- (i) Organize events at Regional Climate Weeks (2024-2027)
- (j) COP 28 platform for all activities related to AI for climate action
- (k) Organize events at UNFCCC conferences
- (l) Establish regional AI for climate action networks
- (m) Explore the development of an AI University Honors Programme
- (n) Develop communication and outreach activities on the Initiative

VI. Next steps

- Finalize the concept note
- Agree on activities for 2023-2024
- Agree on modalities of work with CTCN AB at the joint session



Thank you!

