Update on the Implementation of the Joint Work Programme of the Technology Mechanism

Technology Mechanism Initiative on AI for Climate Action

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1.

#AI4ClimateAction Initiative Workplan

#AI4ClimateAction Initiative Workplan

Workstream 1: Support the implementation of technology priorities of developing countries & other **work of the TEC & CTCN**

- Activities by the TEC
- Activities by the CTCN
- Joint Activities by the TEC and CTCN

Workstream 2: Enhance capacities of stakeholders from LDCs and SIDS

- Activities by the TEC
- Activities by the CTCN
- Joint Activities by the TEC and CTCN

Workstream 3: Raise awareness

- Activities by the TEC
- Activities by the CTCN
- Joint Activities by the TEC and CTCN

2.

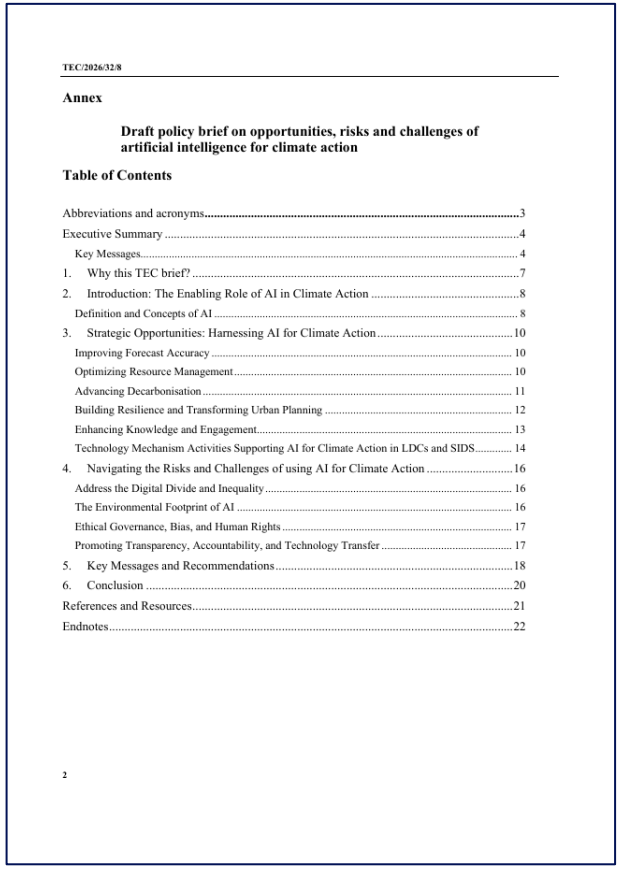
TEC Activities under the Initiative: Progress since TEC 31/CTCN AB 26

TEC AI for Climate Action Forum 2025

- Virtual Session (24 Sep 2025) & Hybrid Session (8-9 Oct 2025, Dar es Salaam, Tanzania)
- 300+ participants from 40+ countries
- Thematic areas: climate-smart agriculture, disaster risk reduction, energy systems, digital infrastructure, data access, bias and security, digital public goods, policy, regulation and enabling environments, capacity-building, and technical and financial support

KOICA

Draft Policy Brief TEC/2026/32/08



TEC/2026/32/8

Annex

Draft policy brief on opportunities, risks and challenges of artificial intelligence for climate action

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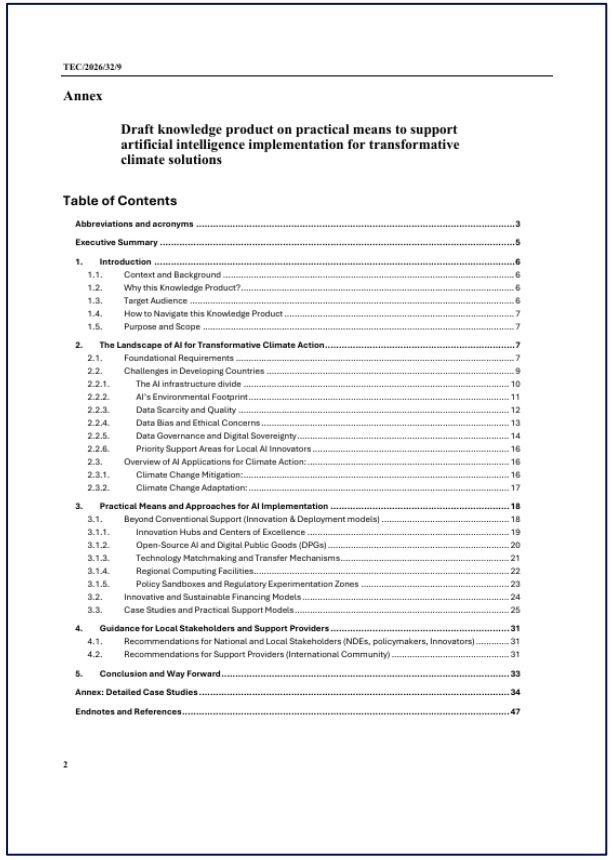
- Building on the technical paper of the TEC on opportunities, risks and challenges of AI for climate action, published in July 2025, the TEC, in collaboration with KOICA, developed a draft policy brief for consideration at TEC 32.
- At TEC 32, the TEC agreed to finalize the policy brief, taking into account the comments and written inputs from the TEC.

Draft Knowledge Product on AI Implementation TEC/2026/32/09



TEC/2026/32/9

Annex

Draft knowledge product on practical means to support artificial intelligence implementation for transformative climate solutions

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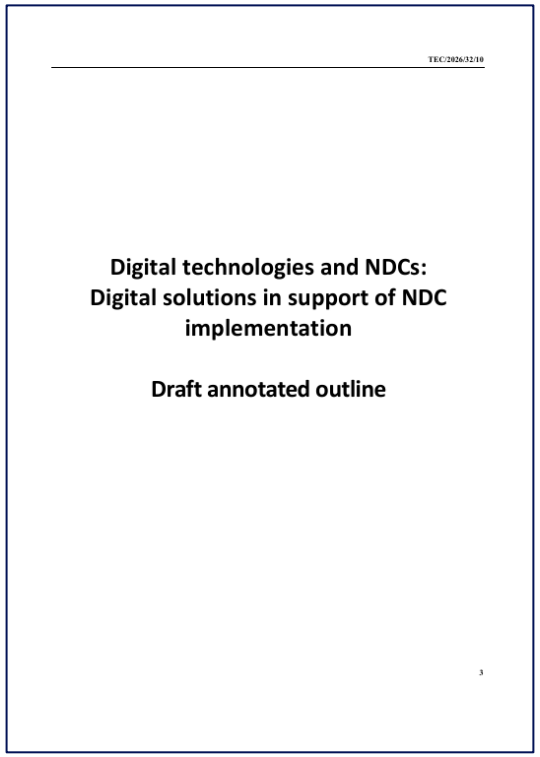
- This knowledge product identifies and prioritizes concrete AI implementation pathways for climate action, focusing on real-world delivery of transformative climate solutions in developing countries.
- At TEC 32, the TEC agreed to finalize the knowledge product on AI implementation, taking into account the comments and written inputs from the TEC.

ITU-TEC Joint Publication on Digital Technologies and NDCs TEC/2026/32/10


TEC/2026/32/10

Digital technologies and NDCs:
Digital solutions in support of NDC implementation

Draft annotated outline

3

- The TEC explored a contribution to a knowledge product on digital technologies and NDCs as per the proposal made by the International Telecommunication Union (ITU) and developed an annotated outline
- At TEC 32, the TEC agreed to collaborate with the ITU on the joint publication with a view to finalizing it in 2026.

3.

CTCN Activities under the Initiative: Progress since TEC 31/CTCN AB 26

Technical Assistance Examples

Asia-Pacific

Enhancing weather and climate data management Innovation in **Tajikistan** through an AI- and Observation-Based High-Resolution Data Management Platform *(under preparation)*

Africa

Empowering ESCOs in **Mali** through Digital Energy Audits and Smart Building Management *(under implementation)*

Latin America and the Caribbean

Artificial Intelligence Pilot for Non-Revenue Water Reduction in Tocopilla, **Chile** *(under preparation)*

Eastern Europe

Wildfire Information System Enhancement Project in **North Macedonia** *(under implementation)*

Nepal

Capacity Building

Activities in 2025 - 1.2.3. Capacity-building of NDEs on AI for climate action

- Launch of AI online learning material: Self-paced YouTube playlist compiled recordings of 2024 CB on AI4ClimateAction
- 17 April: Webinar on Leveraging Artificial Intelligence to Advance the Renewable Energy Sector in Asia-Pacific with UNEP ROAR

Capacity Building

Activities in 2026 - 1.2.5. Capacity-building of NDEs on AI for climate action

- 27 February: Webinar on “From Ideas to Impact: Youth-led AI Innovation for Climate Action and SDGs” in collaboration with UNESCAP-APCTT
- 23 April: Hybrid session on “Delivering AI for Climate Action in LDCs and SIDS” at the Climate Week
- 12-14 May: Online workshop on “Strengthening All-of-Society Capacities for Disaster Risk and Climate Resilience: Inclusive Governance and Innovative Mechanisms” co-hosted with UNDRR, UNOPS, UNITAR
- 16-19 September: “AI and Energy: Efficiency and Supply Chain” co-hosted with GGGI, Google, and Standard Chartered

Knowledge Products

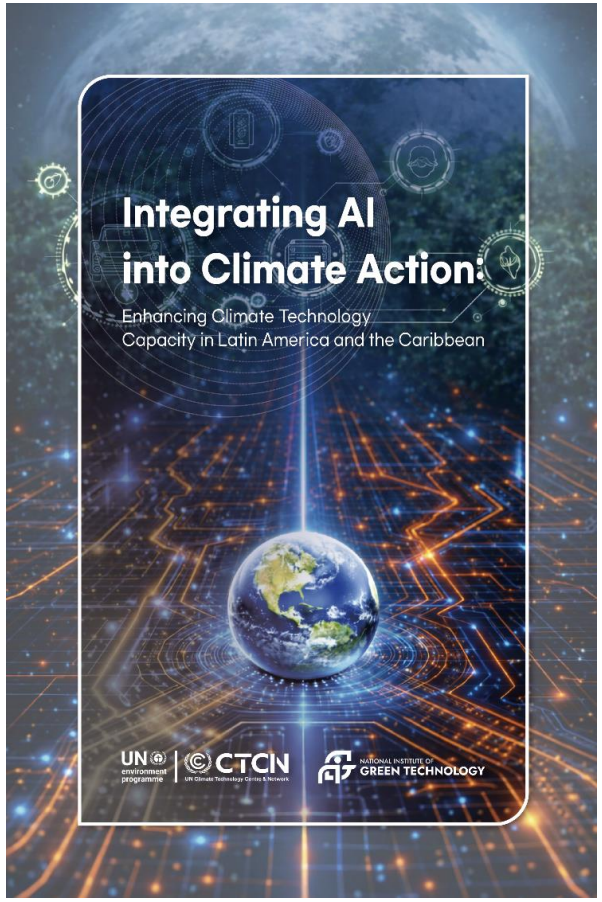
Case studies in Latin America and the Caribbean

- 12 case studies from the LAC region: The Cayman Islands, Suriname, Trinidad & Tobago, Brazil, Colombia, Uruguay, Bogota, Santiago, Mexico

Complemented by a Social Media Campaign:

- Sharing examples as references for NDEs to inform future technical assistance development
- Promotion to start from July through #DidYouKnow SNS campaign and Newsletter

Progress - 2026 AI cases in Africa: Invitation to the TEC



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4.

TEC-CTCN Joint Activities under the Initiative: Progress since TEC 31/CTCN AB 26

Fostering an Alliance of Public and Private Stakeholders

Approach

Increasing the visibility of AI4ClimateAction initiative to public and private sector stakeholders to strengthen an alliance

Cross-participation in events

- International AI and Climate Change Conference (RoK, July 2025)
- AI for Climate Action Forum 2025 (Tanzania, October 2025)
- 2025 KOICA Climate AI Forum (RoK, November 2025)

Network for Regional AI4Climate Action

Approach

Calling for prospective Network members with AI to the existing Network pool

Support from NDEs

1st batch with 23 organizations/entities invited to CTC Network membership, May 2025, and 3 received network membership status (as of December 2025)

Support from TEC Members

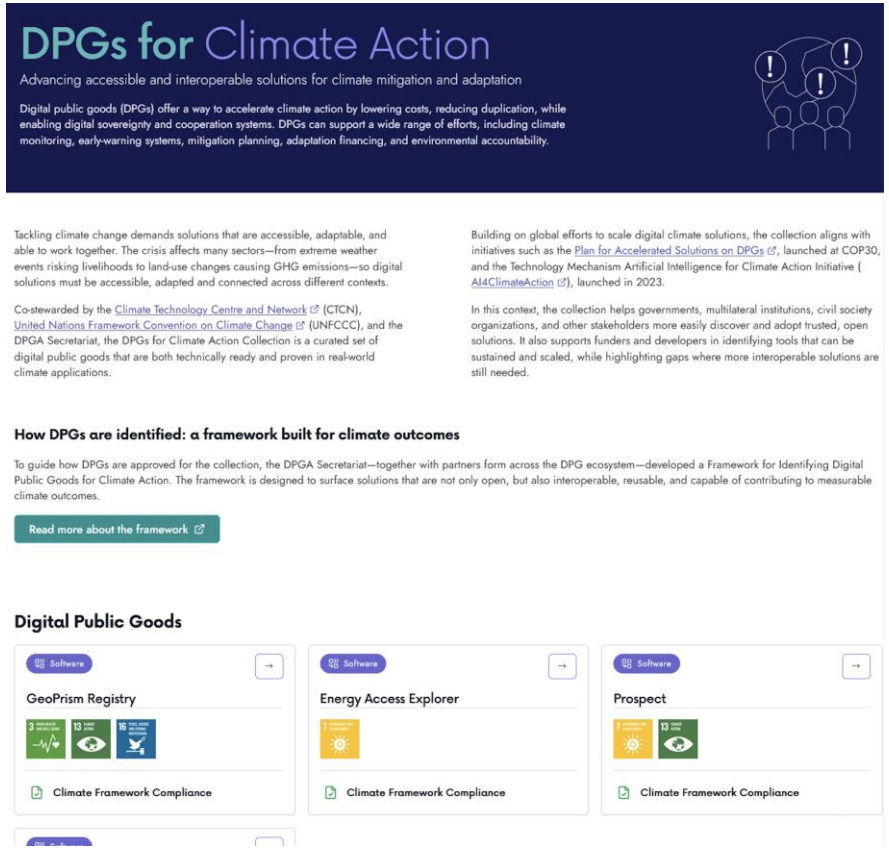
2nd batch invitation to be sent 30 August 2026

AI Climate Application Hub

The collaboration on the development of the AI Climate Application Hub with Digital Public Goods Alliance (DPGA) was approved in the previous joint session.

Progress:

- The TEC, CTCN and DPGA Secretariat jointly established a methodology for assessing climate DPGs
- The joint “DPGs for Climate Action” Collection has been developed and will be demonstrated by the DPGA Secretariat
- Further work is ongoing, including the official launch of the Collection



AI for Climate Action Award 2025

- The Technology Mechanism AI for Climate Action Award co-hosted by the TEC and CTCN, in partnership with KOICA, and in collaboration with the COP 30 Presidency and Enterprise Neurosystem, identified and promoted impactful solutions that use the power of AI for effective adaptation and mitigation action in LDCs and SIDS.
- Out of 600+ submissions from 110 countries, Alisa Luangrath from Lao PDR was awarded for her winning solution on smart AI-based farming & irrigation for climate resilience.

COP 30 Masterclass on AI for Energy Systems

Organized by the TEC, CTCN and the Paris Committee on Capacity-building, in partnership with KOICA, the masterclass demonstrated how AI can be used for advancing low-emission, climate-resilient energy systems.

5.

Outlook of TEC-CTCN Joint Activities in 2026-2027

COP 31 Masterclass on AI for Water-Energy-Food Systems

- The workplan for the Technology Mechanism Initiative on AI for Climate Action (2024-2027) includes a joint TEC-CTCN deliverable for 2026 on a *knowledge product/event on the use of AI for the water-energy-food nexus*.
- Building on the successful COP 30 masterclass on energy systems and interest expressed by the PCCB and KOICA to continue this collaboration with the TEC and the CTCN in 2026, it is proposed to organize a COP 31 masterclass on AI-powered solutions for water-energy-food systems.

AI for Climate Action Award 2026 & 2027

- Building on the successful AI for Climate Action Award 2025 and interest expressed by KOICA to continue supporting the organization of the Award, it is proposed to continue organizing the Award in 2026 and 2027 accordingly.
- At TEC 32, the TEC supported this proposal and agreed to seek support from the CTCN Advisory Board to continue this activity as Technology Mechanism AI for Climate Action Award.

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