

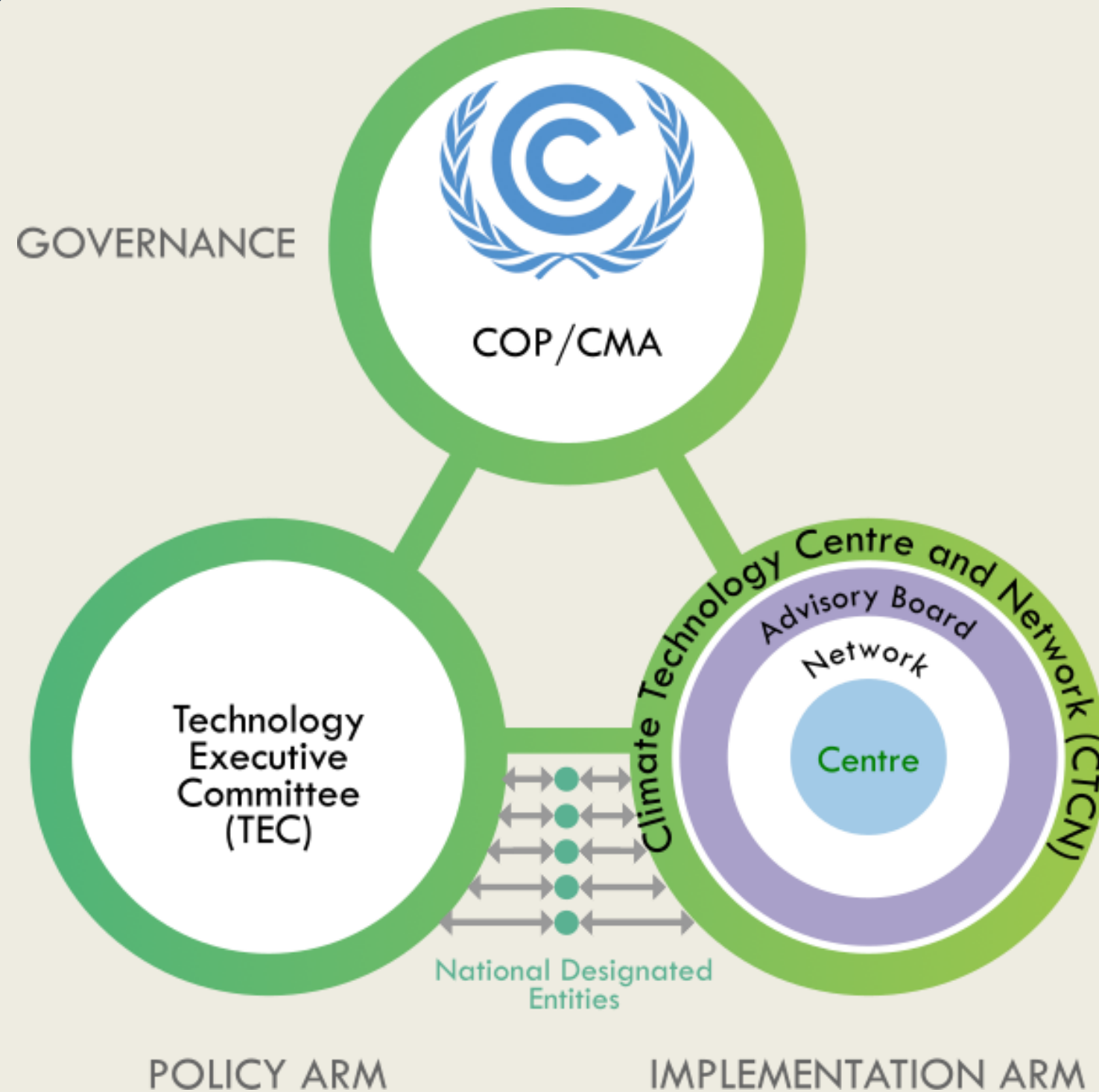
# UNFCCC Technology Mechanism Initiative on AI for Climate Action

23 April 2026

Pedro Ivo Ferraz da Silva

Chair of the UNFCCC Technology Executive Committee

# UNFCCC Technology Mechanism



Established in 2010 to enhance action on climate technology development and transfer

## Technology Executive Committee (TEC)

- Policy arm
- Recommends and addresses technology policy issues
- Facilitates development of technology planning tools

## Climate Technology Centre and Network (CTCN)

- Implementation arm
- Three core services: technical assistance, information and knowledge sharing, network and capacity-building

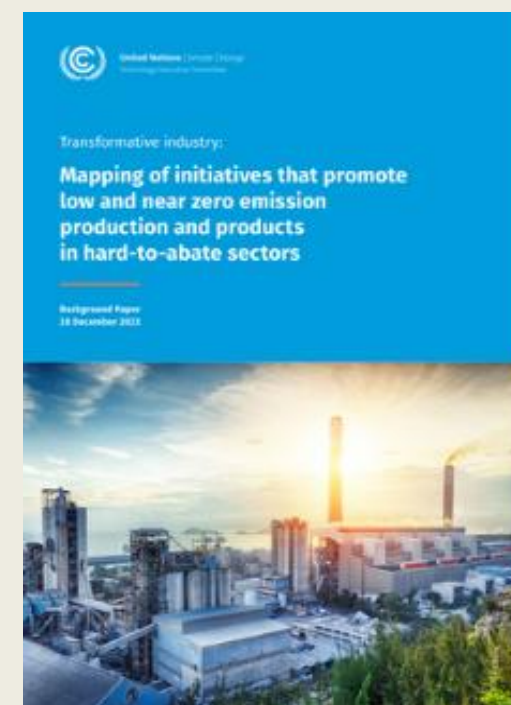
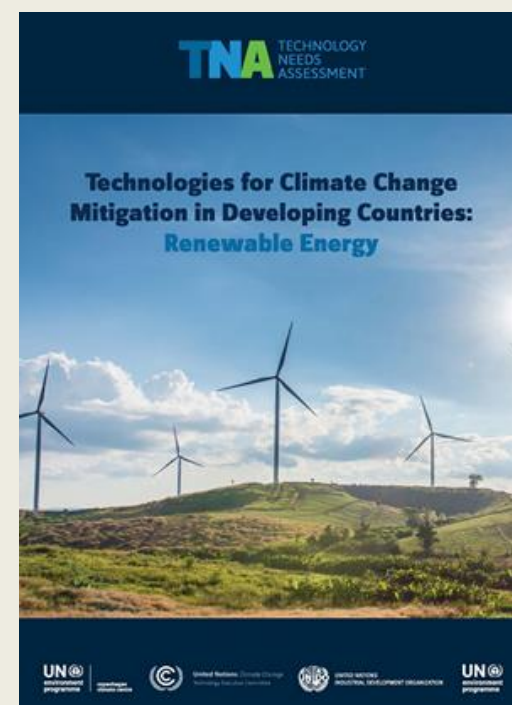
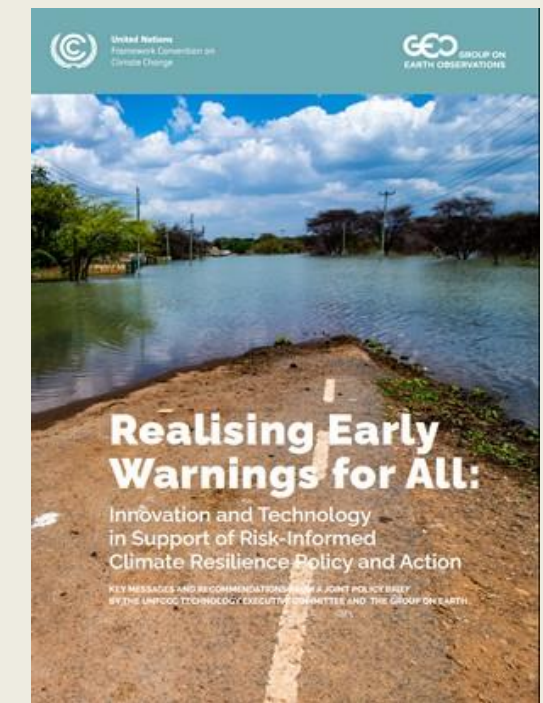
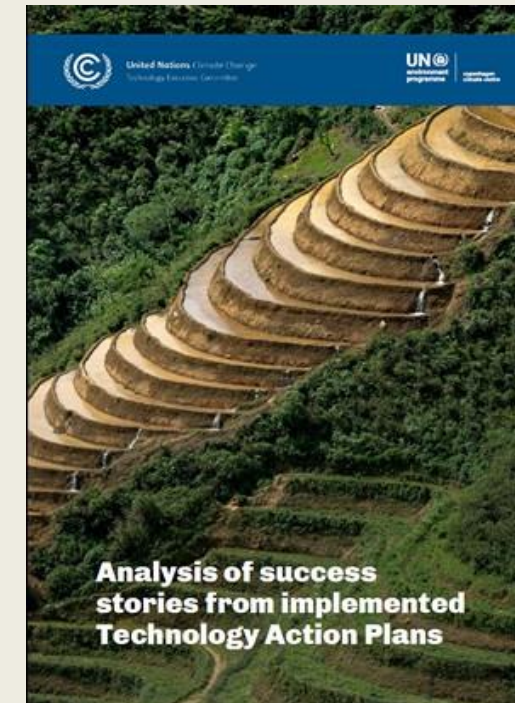
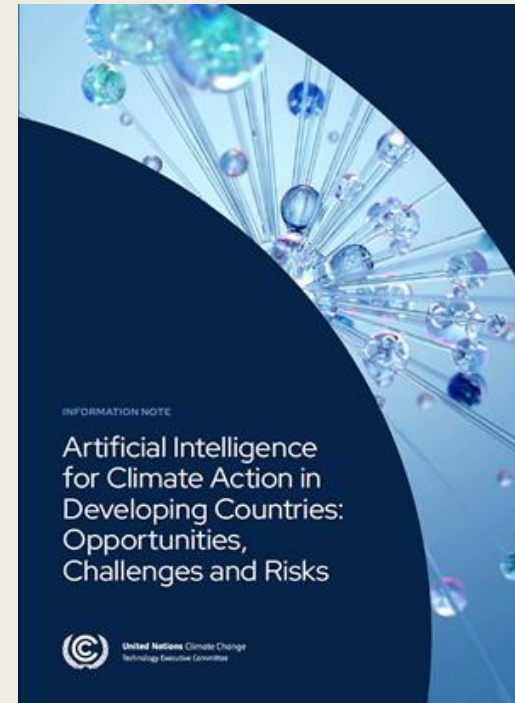
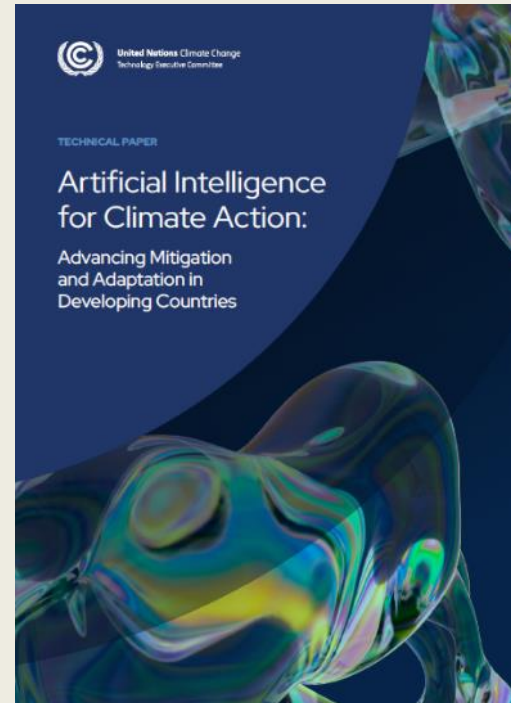
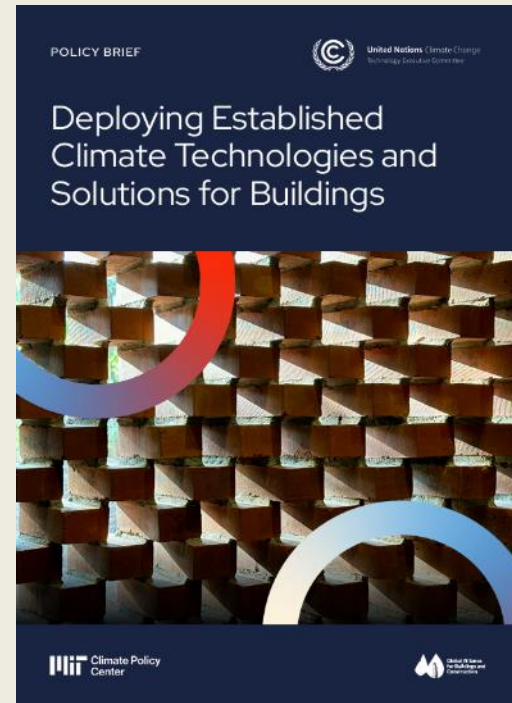
# Technology Executive Committee (TEC)



**United Nations** Climate Change  
Technology Executive Committee

The Technology Executive Committee (TEC) focuses on identifying policies that can accelerate the development and transfer of technologies that foster low-emission and climate-resilient development.

# TEC Policy Briefs and Knowledge Products



# #AI4ClimateAction Initiative

# Key Milestones

Jun 2023

**Launch of the AI for Climate Action Initiative**

Nov 2023  
(COP 28)

**COP and CMA decisions on AI for Climate Action & Ministerial Event**

Nov 2024  
(COP 29)

**First TEC knowledge product on AI for Climate Action  
AI Innovation Grand Challenge Award 2024  
UNFCCC-KOICA Climate Future Partnership**

July 2025

**TEC technical paper on AI for climate action**

Oct 2025

**TEC AI for Climate Action Forum 2025 (Virtual & Dar es Salaam, Tanzania)**

Nov 2025  
(COP 30)

**AI for Climate Action Award 2025**



## ► Objectives of the #AI4ClimateAction Initiative

- Explore opportunities of AI for advancing & scaling up transformative climate action in developing countries, with a focus on LDCs and SIDS
- Address challenges & risks posed by AI, including energy consumption, data security & digital divide

► In 2023, Parties to the UNFCCC and the Paris Agreement requested the TEC and the CTCN to implement the #AI4ClimateAction Initiative and to enhance awareness of AI and its potential role in accomplishing climate technology priorities identified by developing countries (9/CP.28, 1/CMA.5 and 14/CMA.5).



**United Nations** Climate Change  
Technology Executive Committee

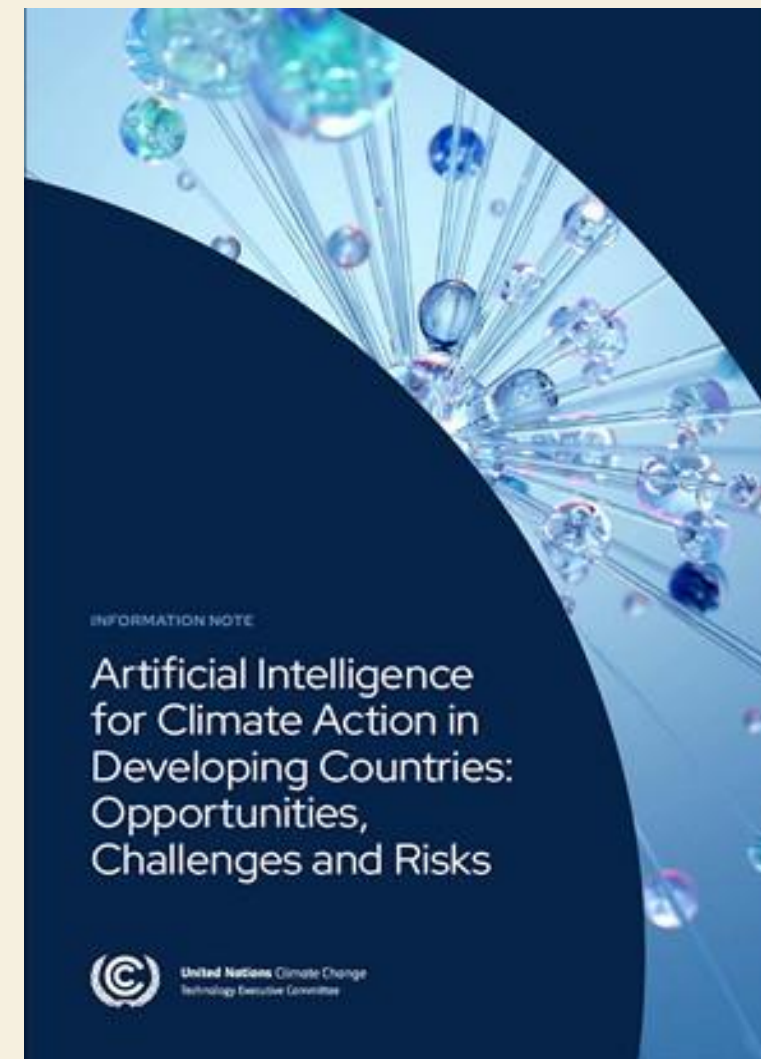


# Knowledge Products on AI for Climate Action



## Technical Paper on AI for Climate Action

Comprehensive technical analysis for policymakers, practitioners, and researchers navigating opportunities, challenges and risks of the use of AI for climate action in developing countries, with a focus on least developed countries (LDCs) and small island developing States (SIDS).



## Information Note on AI for Climate Action

Introduction to opportunities, risks and challenges of AI for climate action in developing countries, including in LDCs and SIDS.



# Global AI for Climate Action contests

The global AI contests identify and promote impactful solutions that use the power of AI for effective adaptation and mitigation action in developing countries.

## 2024 AI Innovation Grand Challenge

Global open-source AI competition seeking brilliant ideas to drive new applications for climate action

## AI Innovation Grand Challenge

Proposal submission deadline  
12 August 2024 23:59 EDT



On social media:  
#TEC #ClimateTech #AI4ClimateAction



## AI for Climate Action Award 2025



**AI for Climate Action Award 2026 to be launched in May!**

# AI Climate Application Hub

The TEC, CTCN and Digital Public Goods Alliance (DPGA) jointly launched the AI Climate Application Hub in the name of **Digital Public Goods for Climate Action** in April 2026 as part of the **#AI4ClimateAction** Initiative. The goals are to:

- Provide a platform that provides open-source materials so that developing countries can freely use them to enhance their AI-supported climate actions
- Identify solutions that funders and technology developers could consider supporting further
- Identify gaps where open-source solutions and DPGs do not yet exist
- Incentivize solutions to become DPGs
- Create greater understanding of how DPGs can be used to enhance climate action efforts

**DPGs for Climate Action**  
Advancing accessible and interoperable solutions for climate mitigation and adaptation

Digital public goods (DPGs) offer a way to accelerate climate action by lowering costs, reducing duplication, while enabling digital sovereignty and cooperation systems. DPGs can support a wide range of efforts, including climate monitoring, early-warning systems, mitigation planning, adaptation financing, and environmental accountability.

Tackling climate change demands solutions that are accessible, adaptable, and able to work together. The crisis affects many sectors—from extreme weather events risking livelihoods to land-use changes causing GHG emissions—so digital solutions must be accessible, adapted and connected across different contexts.

Building on global efforts to scale digital climate solutions, the collection aligns with initiatives such as the [Plan for Accelerated Solutions on DPGs](#), launched at COP30, and the Technology Mechanism Artificial Intelligence for Climate Action Initiative ([AI4ClimateAction](#)), launched in 2023.

In this context, the collection helps governments, multilateral institutions, civil society organizations, and other stakeholders more easily discover and adopt trusted, open solutions. It also supports funders and developers in identifying tools that can be sustained and scaled, while highlighting gaps where more interoperable solutions are still needed.

Co-stewarded by the [Climate Technology Centre and Network](#) (CTCN), [United Nations Framework Convention on Climate Change](#) (UNFCCC), and the DPGA Secretariat, the DPGs for Climate Action Collection is a curated set of digital public goods that are both technically ready and proven in real-world climate applications.

**How DPGs are identified: a framework built for climate outcomes**

To guide how DPGs are approved for the collection, the DPGA Secretariat—together with partners from across the DPG ecosystem—developed a Framework for Identifying Digital Public Goods for Climate Action. The framework is designed to surface solutions that are not only open, but also interoperable, reusable, and capable of contributing to measurable climate outcomes.

[Read more about the framework](#)

**Digital Public Goods**

- GeoPrism Registry (Software)
- Energy Access Explorer (Software)
- Prospect (Software)

Climate Framework Compliance



# TEC AI for Climate Action Forum 2025

The AI for Climate Action Forum 2025 was a curated gathering of policy-makers, climate technology leaders and experts exploring the opportunities, challenges and risk of AI for climate action and ways to harness locally led AI applications.

- **Strong focus on implementation in developing countries**
- **Thematic areas: disaster risk reduction, smart agriculture, energy decarbonization, etc.**
- **300 participants from around the world**



# TEC-KOICA Partnership on AI for Climate Action (2024-2027)



**United Nations** Climate Change  
Technology Executive Committee

# KOICA





**Thank you.**

**Pedro Ivo Ferraz da Silva**

**Chair of the UNFCCC Technology Executive Committee**