

Agenda item 9 (b) ii. Technology Mechanism Initiative on AI for Climate Action

Technology Mechanism AI Climate Application Hub

Technology Executive Committee, 29th meeting and TEC-CTCN AB Joint session
17-19 and 20 September 2024, Bonn, Germany



Bill Wright, Chair, Enterprise Neurosystem
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Background

- At the last joint session in April 2024, the TEC and the CTCN AB agreed to develop the Technology Mechanism AI Climate Application Hub in partnership with Enterprise Neurosystem to serve as repository for AI powered open-source climate solutions, including entries from the AI Innovation Grand Challenge.
- Enterprise Neurosystem developed a pilot AI Climate Application Hub for further guidance by the TEC and the CTCN AB at this session.

Enterprise Neurosystem: Site Development and Advisory Team



Sheeba Prakash
IBM – Enterprise Data



Prajwal Ratnaparkhe
B.A. Marathwada University



Anindita Das
IBM – Cloud IaaS



Abhay Ratnaparkhi
IBM - AI, Automation and Data



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Chair, Enterprise Neurosystem



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Objectives

- AI has a great potential to support climate action by enabling accurate predictions, optimizing resource use, and improving decision-making. The challenge for developing countries in using AI for climate action lies in limited access to data, technology, and expertise.
- The rise of generative AI has resulted in huge volumes of synthetically generated data on the web, and challenges with searching and finding appropriate datasets, models, software libraries and tools to build AI solutions.
- The AI Climate Application Hub aims to address these challenges by providing free resources and AI models curated by AI scientists and climate technology experts, including applications proposed under the AI Innovation Grand Challenge.
- The AI Climate Application Hub will include
 - Open data sets for AI-powered climate solutions
 - Open-source AI tools to help build these solutions
 - Open-source AI models to assist with climate change analysis and action
 - Knowledge products on AI for climate action

DEMO

Next Steps

- Joint Taskforce on Digitalization to reflect comments from TEC and CTCN Advisory Board Members
- UNEP, UNFCCC and Enterprise Neurosystem to define and agree on legal and operational aspects (governance system) and quality assurance (selection criteria and due diligence) to select the AI applications to be featured on the platform.
- Enterprise Neurosystem to present progress at the next joint session of the TEC and CTCN Advisory Board in April 2025

Thank you.

