APCTT
Asian and Pacific Centre
for Transfer of Technology
ESCAP

वैज्ञानिक और औद्योगिक अनुसंधान विभाग
Department of
Scientific and Industrial Research

TECHNOLOGY AND INNOVATION CONCLAVE 2.0

28 - 30 JANUARY 2026

Jointly organized by

Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Government of India, and
Asian and Pacific Centre for Transfer of Technology (APCTT) of the
United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

Theme: **AI for Climate Action and Resilience**

Venue: Main Auditorium and Arnav Hall
Ministry of Earth Sciences (MoES), Prithvi Bhavan, Lodi Road, New Delhi, India

INTRODUCTION AND BACKGROUND

Technology and innovation play a crucial role in enabling countries to achieve sustainable development. The accelerated usage of innovative technologies depends on enabling innovation ecosystems, national capacities and institutions for scale-up, adoption and absorption, linkages to access financing and technical support, and cross-border cooperation and networking for technology transfer. Countries in the Asia-Pacific region are making increasing efforts to strengthen policy frameworks, develop innovative technologies, build technical capacities, enhance access to innovations, scale up and commercialize innovative technologies.

Technology has helped immensely to boost access to information and has supported changes that have transformed our lives forever. Further, digital technologies are intricately related to opportunities and challenges faced by youth. Emerging technologies such as Artificial Intelligence (AI) can help enhance education, create innovative opportunities and promote socio-economic development. Youth are also agents of change, innovation and creative ideas. The innovative potential of young people, combined with the power of technology, is proving to be a powerful force on the road to achieving the 2030 Sustainable Development Goals.

In this regard, the **Technology and Innovation Conclave (and Exhibition)** is jointly organized by the Department of Scientific and Industrial Research (DSIR), Government of India and the Asian and the Pacific Centre for Transfer of Technology (APCTT) of UN ESCAP to provide a high-level platform on emerging technologies to bring together young researchers and innovators, policy makers and regulators, entrepreneurs, and the young people interested in STEM activities, in one space for exploring innovations, sharing information and building partnerships for SDGs across Asia-Pacific. It is envisaged that using this platform, stakeholders from member States may: 1) share experience and good practices, 2) exchange knowledge and ideas, 3) showcase promising innovations and applications, 4) jointly deliberate and explore enabling policies, strategies and incentives, and 5) explore opportunities and foster cross-border collaboration to harness the potential of innovative and emerging technologies.

The Technology and Innovation Conclave is planned as an annual event – focusing each year on a specific thematic area or sector related to emerging technologies. The Technology and Innovation Conclave 1.0 was held in September 2024 in New Delhi. Considering its success and relevance, the Technology and

Innovation Conclave 2.0 will be organized at a larger scale on 28-29 January 2026 with site visits organized on 30 January 2026.

ABOUT TECHNOLOGY AND INNOVATION CONCLAVE 1.0

Technology and Innovation Conclave 1.0 was organized jointly by APCTT and DSIR in New Delhi in September 2024. The focus was on - Energy storage and green hydrogen technologies. The event facilitated the exchange of learnings and good lessons on the developments, challenges and opportunities for innovations and start-ups in the participating countries (Bangladesh, China, India, Islamic Republic of Iran, Malaysia, Nepal, Philippines, Republic of Korea, Russian Federation, Thailand and Vietnam). It brought together about 90 participants - policymakers and government officials, science and technology professionals, young innovators and entrepreneurs, and representatives from research and development institutions and academia.

An exhibition was organized at the Conclave featuring innovations of young innovators from 11 member states. These included innovations from Bangladesh Council of Scientific and Industrial Research (BCSIR) (Bangladesh); the Iranian Research Organization for Science and Technology (IROST) (Islamic Republic of Iran); the Technology Application and Promotion Institute of the Department of Science and Technology (DOST-TAPI) and CHRG EV Technologies, Inc. (Philippines); Huject Company (Republic of Korea); the Russian House of International Scientific and Technical Cooperation Association (RH ISTC) and the V.I. Il'ichev Pacific Oceanological Institute (Russian Federation); the Battery and New Energy Science and Technology Factory (UVOLT) (Thailand); and different organizations in India.

TECHNOLOGY AND INNOVATION CONCLAVE 2.0

Technology and Innovation Conclave 2.0 (and Exhibition) is planned as a high-level international event for 3 days to be held at the Ministry of Earth Sciences at New Delhi in India.

The theme of the Conclave 2.0 is '**Artificial Intelligence (AI) for Climate Action and Resilience'.**

Artificial Intelligence has emerged as a powerful tool in addressing the multifaceted challenges of climate change. With its unmatched capacity for processing extensive datasets and deriving actionable knowledge, and providing innovative solutions to complex problems, AI is becoming a formidable ally in our endeavour to mitigate and adapt to climate change impacts. The transformative potential of AI lies in supporting climate change adaptation and mitigation measures across the Asia-Pacific region, with particular focus on innovative applications in hydro-climatology, energy, agriculture, disaster, and extreme heat conditions. It is important to be cognizant of both opportunities and challenges related to AI.

The United Nations has established several initiatives to harness AI for climate action. Several UN agencies are/have taken initiatives on AI including AI for Good by the International Telecommunication Union (ITU), AI for Sustainable Development by UNDP, Children and AI Initiative by UNICEF & World Economic Forum, AI4ClimateAction Initiative by the UNFCCC Technology Mechanism, and using AI technology for disaster preparedness by ESCAP.

APCTT too has taken various initiatives to raise awareness and sensitisation on AI among member States in Asia and the Pacific. In 2024, APCTT brought out a special issue of its flagship periodical Asia-Pacific Tech Monitor focussing on "Artificial Intelligence for climate change mitigation and adaptation: opportunities and challenges," The issue featured articles presenting insightful discussions on innovative applications and case studies from the region. In recent years, APCTT's activities and events have focussed on AI applications for climate resilience highlighting the importance of regional cooperation, knowledge sharing, and capacity building to effectively harness AI's potential in combating climate change across the Asia-Pacific region.

The Government of India has actively shown interest and taken several steps in AI adoption in various fields such as climate change predictive models, agricultural transformation, renewable expansion and addressing environmental issues. In India's forests, AI-powered drones identify illegal logging activities, aiding conservation efforts. Additionally, AI systems track deforestation, greenhouse gas emissions, and other environmental changes, enabling timely interventions. In India's Himalayan region, AI-driven models predict glacial melt rates, informing water resource management strategies for millions reliant on downstream rivers. Similarly, in coastal areas, AI helps assess vulnerabilities to rising sea levels, supporting adaptive urban planning. India has also launched the India AI Mission to establish an ecosystem for catalysing AI innovation through strategic programs and partnerships across the public and private sectors.

Young researchers, innovators and entrepreneurs can play a key role in creating solutions that use AI for climate action. Through innovation and leadership, youth are developing solutions to climate change that have the potential to drive real progress on the ground. These could range from using satellite data to monitor Air Pollution (e.g. BlueSky Analytics (India); predict disasters (e.g. One Concern (USA); use AI for enhancing agriculture productivity (e.g. Fasal (India) for IoT based irrigation sensors); track carbon credits (e.g Pachama (USA). Some youth-led initiatives (e.g. Goodera) use AI to develop games and education to support communities in adaptation.

The ecosystem to support young innovators and entrepreneurs for climate action can be strengthened by all key players - Governments, R&D institutions, industries and investors. The Conclave will provide a platform to build capacities, provide networking opportunities, and identify and support measures to develop and scale up AI solutions for climate resilience across the Asia-Pacific region.

OBJECTIVE OF THE CONCLAVE

The Technology and Innovation Conclave 2.0 and Exhibition is designed as a high-level event with participation of more than 150 participants from the Asia-Pacific (including young innovators from APCTT Governing Council countries and observer states who will present their innovations). It is expected to be attended by senior Ministers from relevant departments of Government of India, and senior representatives from APCTT's Governing Council member countries along with other relevant UN agencies (including ITU and UNESCO).

The deliberations around the three days would be on (1) role of innovation and technology collaboration for sustainable development – the regional scenario and national policy frameworks; (2) young innovators and entrepreneurs as agents of change – opportunities and challenges, (3) thematic discussions on AI for climate action and resilience – developments in Asia-Pacific, (4) innovative applications of AI for climate action and resilience – sharing of innovations and experiences, (5) scope for linkages, cross-border initiatives and regional cooperation (including issues pertaining to technology transfer).

The overall aim of the Technology and Innovation Conclave 2.0 is to:

1. Enhance awareness and knowledge sharing among young entrepreneurs, policy makers, innovators and other stakeholders through facilitated exchange of learnings and good lessons on the developments, challenges and opportunities for innovations in use of Artificial Intelligence for climate action and resilience.

2. Bring out recommendations on affordable and available innovative AI tools for creating better policy regimes and strengthening regional cooperation for integrating AI tools in for addressing climate change and meeting the sustainable development goals.

3. Provide a platform for young innovators from the various participating member States in the Asia-Pacific region to showcase their innovations (in AI technologies), meet and learn from peers, and help in the exchange of knowledge and lessons for scaling up their innovations.

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AGENDA

DAY 1: 28th JANUARY 2026 (WEDNESDAY) Indian Standard Time (GMT+5:30)	
09:30 – 10:30 AM	**REGISTRATION OF PARTICIPANTS**
10:30 – 11:00 AM	Seating of Participants
11:00 – 11:20 AM	**Inauguration of the Exhibition by Dr. Jitendra Singh, Honourable Minister of State (I/C) for S & T and Earth Sciences, Government of India**
11:00 - 11:05 AM	Inauguration of the Exhibition by Honourable Minister
11:05 - 11:20 AM	Walk around of the Innovations / Exhibition and Interaction with the Young innovators from member States
11:20 – 14:00 PM	**HIGH LEVEL INAUGURAL SESSION OF TECHNOLOGY AND INNOVATION CONCLAVE 2.0**
11:20 - 11:25 AM	Introduction by MC and Lamp Lighting
11:25 – 11:30 AM	Welcome remarks **Dr. Vipin Chandra Shukla**, Scientist-G, Department of Scientific and Industrial Research , Ministry of Science and Technology, Government of India
11:30 – 11:40 AM	Inaugural message – **Dr. Preeti Soni,** Head, Asian and Pacific Centre for Transfer of Technology (APCTT), United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)
11:40 – 11:45 AM	Special Remarks – **Mr. Stefan Priesner**, UN Resident Coordinator India
11:45 – 11:55 AM	Special address and Welcome – **Dr. N. Kalaiselvi,** Secretary, Department of Scientific and Industrial Research (DSIR), Government of India and Director General, Council of Scientific and Industrial Research (CSIR)
11:55 – 12:00 PM	Special Address– **Ms. Armida Salsiah Alisjahbana,** Under-Secretary-General of the United Nations and Executive Secretary, Economic and Social Commission for Asia and the Pacific (ESCAP) (Video Message)
12:00 - 12:15 PM	Special Address by Guest of Honor– **Dr. M. Ravichandran**, Secretary, Ministry of Earth Sciences (MoES), Government of India
12:15 – 12:25 PM	(i) Announcement of **Hackathon Winners** (ii) Announcement of DSIR-APCTT's new initiative "**SANKALP (संकल्प)**: Synergy for Advanced Networks, Knowledge, and Academia–Industry Learning Progress" Lecture Series
12:25 – 12:55 PM	Address by Chief Guest – **Dr. Jitendra Singh**, Honourable Minister of State (I/C) for S & T and Earth Sciences, Government of India
12:55 – 13:00 PM	Vote of Thanks – **Dr. Anoop Singh**, Scientist-E, Department of Scientific and Industrial Research (DSIR), Ministry of Science and Techmology, Government of India
13:00 – 13:05 PM	**GROUP PHOTO**
13:05 – 14:00 PM	**LUNCH BREAK**
14:00 – 15:35 PM	**TECHNICAL SESSION 1:** **AI Technologies for Climate Action and Resilience:Opportunities and Challenges** **Moderator: Dr. G. Krishna Murthy, Former Scientist-G, Ministry of Electronics and Information Technology (MeitY), Government of India**
14:00 – 14:15 PM	**Keynote Address:** Dr. P.C. Panchariya, Director, Central Electronics Engineering Research Institute (CEERI), Pilani (Tbc)
14:15 - 14:25 PM	Dr. (Ms.) Sudha Sivadas, (Policymaker, Malaysia), Principal Assistant Secretary,

	Technology and Strategic Application Division, Ministry of Science, Technology and Innovation *AI & Climate Change Malaysia: Building the Skills that Drive Sustainable Solutions*
14:25 - 14:35 PM	Mr. Phattharapong Duangkham (Innovator, Thailand), RIFFAI, Thailand *Harnessing AI and Satellite Intelligence for Environmental Monitoring*
14:35 - 14:45 PM	Dr. Sanjeev Kumar Singh, Chief Scientist, CSIR- Central Building Research Institute (CSIR-CBRI), Roorkee
14:45 – 14:55 PM	**Q & A and Moderator's remarks**
14:55 – 15:05 PM	Ms. Anastasia Ryabukhina, (Policymaker, Russian Federation), RH ISTC, Moscow *Digital Platforms for Technology Transfer – Case of APTPP*
15:05 – 15:15 PM	Dr. Changbeom Choi, (Policymaker, Republic of Korea), Hanbat University, Republic of Korea, *Transformative R&EI as a Policy Mechanism for AI-enabled Climate Action*
15:15 – 15:25 PM	Dr. Achuta Nand Shukla, Scientist-E, Ministry of Environment & Forests and Climate Change (MoEFCC), Government of India, New Delhi
15:25 – 15:35 PM	**Q & A and Moderator's remarks**
15:35 – 15:45 PM	**TEA BREAK**
15:45 – 18:00 PM	**TECHNICAL SESSION 2:** **AI in Action: Case Studies from Asia-Pacific for Climate Action and Resilience** **Moderator: Shri Deepak Bagla, Mission Director, Atal Innovation Mission (AIM), NITI Aayog, Government of India. (Tbc)**
15:45 – 16:00 PM	**Keynote Address:** Shri Sanjiv, Joint Secretary, I/c PDC-DPIIT, Ministry of Commerce & Industry, Government of India (Tbc)
16:00 – 16:10 PM	Ms. Esmat Kishani Farahani, (Innovator, Iran), Assistant Professor, Iranian Research Organization for Science and Technology *AI and Hyperspectral Imaging for Climate Resilience*
16:10 – 16:20 PM	Mr. Ting Yang Ling, (Innovator, Malaysia), CGPT Consulting SDN, Kuala Lumpur *Carbon GPT- Simplifying Sustainability*
16:20 – 16:30 PM	Dr. (Ms.) Arnida Lailatul Latifa, (Innovator, Indonesia), Researcher, Research Organization for Electronics and Informatics, National Research and Innovation Agency *Accelerating Climate Understanding through AI*
16:30 – 16:40 PM	**Q & A and Moderator's remarks**
16:40 – 16:50 PM	Dr. N. Anandavalli, Director, CSIR-Structural Engineering Research Centre, Chennai *AI for Climate Action and Resilience: CSIR-SERC's Role*
16:50 – 17:00 PM	Mr. Bin Li, (Innovator, China), CTO - Solid Electric Co. Ltd. *AI, Green Energy and Climate*
17:00 – 17:10 PM	Mr. Umesh Yadav, (Innovator, Nepal), Nepal Bureau of Standards & Meteorology *Building Climate Resilience in Nepal: Technology and Success Story*
17:10 – 17:20 PM	Mr. Hyunho Park, (Innovator, Republic of Korea) *AI Pathways for Climate Action*
17:20 – 17:30 PM	Dr. Mohit Verma, Principal Scientist, ASTaR Laboratory, CSIR-SERC, Chennai *AI-Driven Engineering for Climate Resilient Infrastructure*
17:30 – 18:00 PM	**Q & A and Moderator's remarks**
END OF DAY 1	

DAY 2 : 29th JANUARY 2026 (THURSDAY)	
09:00 – 10:10 AM	**TECHNICAL SESSION 2: TO BE CONTINUED** **Moderator: Prof. Pradeep Kumar Ramancharla, Director, CSIR- Central Building Research Institute (CSIR-CBRI), Roorkee (Tbc)**
09:00 – 09:10 AM	Mr. Kamlesh Daga, Managing Director, Plasti Surge Industries Pvt Ltd., Amravati, Maharashtra (Tbc)
09:10 – 09:20 AM	Mr. Behzod Ibrohim ugli Tolibov, (Innovator, Uzbekistan), Chief Specialist, Agency for Innovative Development, Tashkent
09:20 – 09:30 AM	Mr. Shchegolkov Artem, (Innovator, Russian Federation), Chief Operating Officer, COO-LLC (Drone Solutions) *Use of Unmanned Aerial Systems for Monitoring Natural, Agro-Engineering, and Infrastructure Facilities*
09:30 – 09:40 AM	**Q & A and Moderator's remarks**
09:40 – 09:50 AM	Mr P.A.D.S. Nilmantha Wijesekara, (Innovator, Sri Lanka), Lecturer, University of Ruhuna *Ensuring Truth in Early Warnings: A Dynamic Security Framework for Climate IoT*
09:50 – 10:00 AM	Dr. Liu Dongbo, (Innovator, China), Department of Science and Technology of Hunan Province *AI Empowering CMNT: A New Path for Sustainable Health Development*
10:00 – 10:10 AM	**Q & A and Moderator's remarks**
10:10 – 11:05 AM	**TECHNICAL SESSION 3:** **Policy Frameworks and Governance Mechanisms for AI in Climate Action and Resilience** **Moderator: Ms. Kavita Bhatia, Scientist-G & GC, MeitY & Chief Operating Officer (COO), India AI Mission. (Tbc)**
10:10 – 10:25 AM	**Keynote Address:** Dr. Prabhat Kumar, Horticulture Commissioner, DA&FW and Mission Director, NBHM, Ministry of Agriculture and Farmers Welfare, Government of India (Tbc)
10:25 – 10:35 AM	Ms. (Dr.) Dongyang Zhang (Policymaker, China), Project Coordinator, the Administrative Center for China's Agenda 21, National Natural Science Foundation of China, Beijing
10:35 – 10:45 AM	Ms. Nongnuch Chunbandhit, (Policymaker, Thailand), Director, International Cooperation Strategy Group, Office of the Permanent Secretary- Ministry of Higher Education, Science, Research and Innovation *Thailand's Approach to Governing AI for Climate Action and Resilience*
10:45 – 10:55 AM	Ms. Nur Anis Hadiyati, (Policymaker, Indonesia), Director of AI Ethics and Governance at the Indonesian Artificial Intelligence Industry Association (KORIKA) *AI for Climate Action in Indonesia: Current Practices, Policy Gaps and Emerging Opportunities*
10:55 – 11:05 AM	**Q & A and Moderator's remarks**
11:05 – 11:15 AM	**TEA BREAK**
11:15 – 12:45 PM	**TECHNICAL SESSION 3: TO BE CONTINUED**
11:15 – 11:25 AM	Mr. Caezar Angelitoe Estioko Arceo, (Policymaker, Philippines), Chief Science Research Specialist / Division Manager, Invention Development Division, DOST-TAPI, Manila
11:25 – 11:35 AM	Mr. Mardonbek Madrimovich Hajiev, (Policymaker, Uzbekistan), Chief Specialist, Agency for Innovative Development, Tashkent

11:35 - 11:45 AM	Mr. Seyed Moslem Mousavi Dorcheh (Policymaker, Iran), Iranian Research Organization for Science and Technology, Tehran
11:45 – 11:55 AM	**Q & A and Moderator's remarks**
11:55 – 12:05 PM	Dr. Hewage Chithral Ambawatte (Policymaker, Sri Lanka), Chairman, National Engineering Research & Development Center, Ja-Ela *AI in Climate Action and Resilience- Srilanka: Policy Framework and Mechanism*
12:05 – 12:15 PM	Mr. Balaram Niraula, (Policymaker, Nepal) Joint Secretary, Office of Company Registrar *AI-Driven Climate Resilience for Nepal & Beyond*
12:15 – 12:25 PM	Prof. Vimal Mishra, Civil Engineering, IIT Gandhinagar (Tbc)
12:25 – 12:35 PM	Dr M V Ramana Murthy, Mission Director (DOM), Ministry of Earth Sciences, Government of India (Tbc)
12:35 – 12:45 PM	**Q & A and Moderator's remarks**
12:45 – 14:00 PM	**LUNCH BREAK**
14:00 – 15:35 PM	**SPECIAL SESSION:** **Enhancing the Role of Youth and Young Entrepreneurs to Promote AI Technologies for Climate Action and Resilience** **Moderator: Prof. Vivek Kumar, Head, The Centre for Rural Development and Technology (CRDT), IIT Delhi**
14:00 – 14:15 PM	**Keynote Address:** Prof. Bijendra Kumar, Professor, Department of Computer Science & Engineering, Netaji Subhas University of Technology (NSUT), New Delhi (Tbc) *Enhancing the Role of Youth and Young Entrepreneurs to Promote AI Technologies for Climate Action and Resilience*
14:15 – 14:25 PM	Ms. Meeta R. Lochan, Secretary, Department of Youth Affairs (Tbc) *Role of Youth and Young Entrepreneurs in AI*
14:25 – 14:35 PM	Ms. Cristina Macaraig, (Innovator, Philippines), Founder/ President of Wiredfield Philippines, Inc. *Decentralized Systems and AI-Driven Early Warning for Community-Level Disaster Resilience*
14:35 – 14:45 PM	**Q & A and Moderator's remarks**
14:45 – 14:55 PM	Hackathon Winner 1
14:55 – 15:05 PM	Hackathon Winner 2
15:05 – 15:15 PM	Hackathon Winner 3
15:15 – 15:25 PM	Mrs. Arpana Mishra, CEO, M/s. Drone-Tech Solutions Pvt. Ltd., Mumbai (Tbc)
15:25 – 15:35 PM	**Q & A and Moderator's remarks**
15:35 – 15:45 PM	**TEA BREAK**
15:45 – 17:00 PM	**TECHNICAL SESSION 4:** **Panel Discussion - Advancing Technology Transfer and Regional Cooperation on AI for Climate Resilience** **Moderator: Dr. Vipin Chandra Shukla, Scientist-G, DSIR**

Note: The Panel will respond to one question from three predecided questions – 5 minutes per panelist. Questions to be shared soon.

- Prof. Girish Kumar, Dean (R&D), DTU, New Delhi (Tbc)
- Dr. Sanjai Kumar, Scientist-E, Climate, Energy and Sustainable Technology (CEST) Division, Department of Science & Technology (DST), Government of India (Tbc)
- Dr. (Ms.) Sudha Sivadas, Principal Assistant Secretary, Ministry of Science, Technology and Innovation, Malaysia
- Ms. (Dr.) Dongyang Zhang, Project Coordinator, the Administrative Center for China's Agenda 21, National Natural Science Foundation of China

• Dr S. Naresh Kumar, Head and Principal Scientist, Environment Science Division, IARI, New Delhi (Tbc) • Dr. Praveen Malik, Chief Executive Officer (CEO), Agrinnovate India Limited, NASC Complex, New Delhi (Tbc)	
16:50 – 17:00 PM	**Q & A and Moderator's remarks**
17:00 – 18:00 PM	**CLOSING SESSION**
END OF DAY 2	

DAY 3 : 30th JANUARY 2026 (FRIDAY)	
On Day 3, a visit to the India Meteorological Department (IMD) on AI for Climate Action and Resilience will be undertaken.	
09:30 – 12:30 PM	**Field Visit to IMD on AI for Climate Action and Resilience**
12:30-13:30 PM	**Feedback from Participants and Close of Event**
13:30 – 14:00 PM	**LUNCH BREAK**
END OF DAY 3 AND CLOSE OF PROGRAMME	

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