

Announcement of Semi-finalists for the 2025 Asian Climate-SDG Technology Innovation HackathOn

The inaugural Asian Climate-SDG Technology Innovation HackathOn for Next-generation (ACTION): Safeguarding Human Health in the Climate Crisis is jointly organized by Tsinghua University, The University of Hong Kong, and the National University of Singapore. With strong support from the World Meteorological Organization (WMO), the World Health Organization (WHO), the Asian Universities Alliance (AUA), and the International Competency Development Committee, the Hackathon aims to inspire innovative research among young scholars in the fields of climate change and health, providing youth wisdom and solutions to advance global sustainable development.

Since the hackathOn's launch in May 2025, the organizing committee has received over 40 high-quality proposals from 14 universities. These submissions span multiple research directions within climate change and health, reflecting the deep engagement and research enthusiasm of students across participating institutions.

During the preliminary review, the expert panel conducted a comprehensive evaluation of the submitted entries and selected 12 teams to advance to the next stage of the hackathOn. The list of semi-finalists is announced as follows.

Semi-finalists of the 2025 Asian Climate-SDG Technology Innovation Hackathon
(Sorted by the first letter of the university name)

Number	University	Team	Project
1	Beijing Institute of Technology	Guardians of Ecology, Agriculture and Health	EcoSkyNet-Reusing weather radars to track migrants for 24-hour disease warning
2	Indian Institute of Technology Bombay	SustainX	A novel automated solution for reducing soiling in PV systems: A water-free solution enhancing worker safety
3	Nanjing University	Sentinella Finder	Project Sentinella: Integrated Digital Twin System for Hyperlocal Flood and Dengue Risk Forecasting
4	Nanjing University	VitalAegis	Heat Health Guardian System for Solitary Elderly
5	National University of Singapore	CRISPair	CRISPair Diagnostics(CRISPair)
6	National University of Singapore	Mosquito Sentinel	Real-Time Mosquito Surveillance and Early Warning System
7	The University of Hong Kong	SafeRoute Group	SafeRoute Map
8	The University of Tokyo	HydroBeetle	HydroBeetle
9	Tsinghua University	AtmosLink	AtmosLink
10	Tsinghua University	IceLink	An urban-scale shared cooling system for delivery riders
11	United Arab Emirates University	Thermochemical group	HeatGuard Bio-Paint
12	Universiti Malaya	PINK CROWS	SahaPatch: A Climate-Smart Microalgae Wearable for Urban Outdoor Workers of Asia

Introduction to Review Experts
(Sorted by the initial letter of the surname)

Experts from International Organizations



Dr. Mainak Chatterjee - Health Specialist in Climate and Environmental
Health, UNICEF China



Ms. Americana Chen -Youth Affairs Coordinator,
UNESCO Hong Kong Association



Mr. Ben Churchill - Director, Regional Office for Asia and the South-
West Pacific, WMO



Mr. Xiaopeng Jiang - National Professional Officer, WHO Representative
Office in China



Dr. Liang Zhao - Project Coordinator, WWF China

Industry Experts



Ms. Yali Wang - Head of Corporate Social Responsibility (CSR) Strategy,
Meituan



Dr. Peng Zhong - Director, Social Innovation, Bayer Foundation

Academic Experts



Dr. Wenjia Cai - Professor, Tsinghua University



Dr. Paul Lester Carlos Chua - Climate-Health Modelling Specialist,
University of Tokyo



Dr. Ho Kim - Professor, Seoul National University



Dr. Jason Kai Wei Lee - Director, Heat Resilience and Performance Centre; Chair, WHO-WMO GHHIN Southeast Asia Heat Health Hub; Yong Loo Lin School of Medicine, National University of Singapore



Dr. Shihui Zhang - Assistant professor, Renmin University of China

In the next stage of the hackathOn, the organizing committee will assign one-on-one mentors to the semi-finalist teams to help them optimize their proposals. An online defense session will be held in late September, and the teams that advance to the final will be granted the opportunity to conduct a roadshow in Hong Kong and participate in the COP30 conference.

The organizing committee extends its sincere gratitude to all experts and scholars who participated in the review process and expresses its appreciation for the strong support from all partner universities. The successful progress of this hackathOn demonstrates the heightened awareness among Asian youth regarding global climate change and health issues, while also reflecting the outstanding achievements of universities in cultivating innovative talent.

Let us collectively anticipate the outstanding contributions of young innovators in addressing global climate change and health challenges, as they contribute the wisdom and solutions of Asian youth to advancing the building of a community with a shared future for mankind.

Organizing Committee of the Asian Climate-SDG Technology Innovation HackathOn

August 2025