Telecommunication
Development Bureau (BDT)

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Geneva, 18 September 2026

- Administrations of ITU Member States from Asia and the Pacific
- National Regulatory Authorities in Asia and the Pacific
- ITU-D Sector Members, Associates, and Academia in Asia and the Pacific region
- International and United Nations Organizations in Asia and the Pacific region

Subject: **Invitation to the Workshop on "AI-Powered Early Warning Systems: Building Resilient Infrastructure for All", 1 – 3 December, Bangkok - Thailand**

Dear Sir/Madam,

I am pleased to invite your organization to participate in the workshop on "AI-Powered Early Warning Systems: Building Resilient Infrastructure for All," to be organized from 1-3 December 2026 in Bangkok, Thailand.

The workshop is being organized by the International Telecommunication Union (ITU) and hosted by the Office of the National Broadcasting and Telecommunications Commission of Thailand (NBTC), to support regional efforts to strengthen people-centred, inclusive and technology-enabled early warning systems. As the Early Warnings for All initiative approaches its 2027 milestone, the workshop will enable Asia-Pacific stakeholders to assess achievements, set future technology and innovation priorities, and develop measurable regional actions for the period to 2030.

The workshop will address the integration of artificial intelligence across the early warning value cycle, including risk and vulnerability mapping, hazard forecasting, resource optimization and mapping for last mile early warning dissemination. The workshop will connect these applications with the institutional and technical systems required for effective warning dissemination, including the Common Alerting Protocol, Cell Broadcast, resilient data centers, infrastructure sharing and cross-sector data partnerships.

The workshop is intended for mid- to senior-level representatives of ICT Ministries, regulators, telecommunications operators, digital infrastructure providers and other relevant institutions from across the Asia-Pacific region. All relevant documents, such as the event draft programme (see also **Annex 1**), registration form, and practical information for participants, can be accessed on the ITU event website at http://itu.int/go/AI-EWS .

Fellowships

To encourage participation of eligible countries, with priority to Landlocked Developing Countries (LLDCs), one full fellowship may be granted per eligible Member State, subject to availability of funds. Applications from Low Income Developing countries and Least Developed countries (LDCs) from Asia and the Pacific may also be

considered based on eligibility of funds. Full fellowships will cover the cost of air ticket (one return economy class ticket by the most direct/economical route from the country of origin to the meeting venue), and appropriate daily subsistence allowance intended to cover accommodation, meals and incidental expenses. Member States shall cover the remainder of the cost of the participation.

Member States are encouraged to select their candidates taking into consideration the inclusion of persons with disabilities and persons with specific needs, bearing in mind gender balance. The duly validated fellowship request form (**Annex 2**) and its annexes, if any, must be returned to the Fellowships Service by e-mail to fellowships@itu.int or by fax: + 41 22 730 57 78, by **16 October 2026** at the latest. Registration prior to submitting the fellowship request is mandatory.

Should you need further information or assistance, please do not hesitate to reach out to Mr. Aamir Riaz, (aamir.riaz@itu.int) for any questions you might have.

I look forward to the active participation of your Administration/Organization in this event.

Yours faithfully,

(signed)

Cosmas Luckyson Zavazava
Director

Annex 1: Draft Programme
Annex 2: Fellowship Application form

Annex 1

Draft Programme

AI-Powered Early Warning Systems: Building Resilient Infrastructure for All

1 -3 December 2026
Bangkok, Thailand

DAY 1:	
09h30-10h00	**Introduction and Opening** To provide an overview on EW4All progress, workshop objectives and the post-2027 consultation.
10h00-10h15	**Group picture**
10h15-11h15	**Session 1a: Developing a People-Centred National Alerting System** This session would provide a comprehensive overview of how modern technology and international standards can transform a nation's early warning capabilities. While establishing the fundamental need for robust, Multi-hazard Early Warning Systems (MHEWS) as a critical component of disaster risk reduction, the session would highlight the technical and policy architecture required to build a national, interoperable alerting framework. Session would address the adoption of the Common Alerting Protocol (CAP) —an international standard for emergency data exchange as an alert dissemination approach to ensure message consistency across all channels. This is complemented by an in-depth look at Cell Broadcast (CB) technology, examining its unique advantages for reaching every mobile device in a geographically targeted area instantly, without network congestion or the need for pre-registration.
11h15-11h30	**Break**
11h30-12h30	**Session 1b: Enabling Cell Broadcast at National Level: Regulatory Frameworks, Technical Specifications, and Implementation Pathways** The session would examine the regulatory prerequisites for CB implementation, including designating an authoritative alert aggregating agency, mandating mobile network operator participation, and addressing liability protections. The session would also cover the core technical architecture requirements and the implementation options for Cell broadcast. The session would also address critical operational considerations, including geo-targeting accuracy, multi-language support, device compatibility, and public testing.

Annex 2

ITU Fellowship Application Form
Full Fellowship – Regular Budget

This form serves as your application for a fellowship to support your participation in:

Title: Workshop on "AI-Powered Early Warning Systems: Building Resilient Infrastructure for All"

City/Country: Bangkok, Thailand

Dates: 1-3 December 2026

Fellowship type: Full. See section 1 below for further details.

Deadline for application: 16 October 2026 (23:59 hours, Geneva, Switzerland). Any application received after this deadline will not be considered.

Selection Criteria

- Refer to the corresponding invitation letter for further information on the selection criteria.
- Fellowship awards for this event are governed by the **Policy for awarding fellowships for events and activities funded through the ITU regular budget**.
- To ensure good governance in the use of fellowships, any **one individual may not be awarded more than one full fellowship, or two partial fellowships in a financial year**. In this respect, the amount granted to any one individual **shall not exceed ten thousand (10 000) Swiss Francs** in a financial year.
- Member States wishing to apply for an ITU fellowship **must not have any type of debt** related to the contributions derived from their contributory unit, except those who have agreed to a repayment plan and are in compliance with their obligations.
- **Highest-ranking officials** (Head of State, Head of Government, Minister, Vice-Minister, Secretary of State or equivalent, high-ranking diplomats) shall **not be considered** for fellowships.

How to fill out this form

- All questions marked with * are mandatory.
- Please print all pages of this form and complete the signature sections.

How to submit this signed form (and any relevant documents)

- Email: fellowships@itu.int or Fax: +41 22 730 57 78

ITU will only consider requests that meet all the above requirements

Conditions

1. A **Full fellowship** offer for this activity includes the following:	one (1) return economy class air ticket by the most direct/economical route from the country of origin to the location of the activity/event, AND a subsistence allowance to cover accommodation, meals and incidental expenses. (Other costs will not be covered as part of this fellowship award)

Personal Information

2. Country *	
3. Name of Administration *	
4. Gender *	☐ Female ☐ Male ☐ Prefer not to say
5. Email address *	
6. Phone number *	

Passport Information

7. Family/Last Name *	
8. Middle Name	
9. First/Given Name *	
10. Date of Birth (DD/MM/YYYY) *	
11. Place of Birth (City, Country) *	
12. Nationality *	
13. Passport Number *	
14. Passport Date of Issue (DD/MM/ YYYY) *	
15. Passport Date of Expiry (DD/MM/YYYY) *	
16. Passport Place of Issue/Issuing Authority *	

Education and Work Experience

17. Job title *	
18. Highest level of education completed *	☐ Doctorate Degree of Post Doctorate studies ☐ 2nd University Degree (Master or equivalent) ☐ 1st University Degree (Bachelor or equivalent) ☐ Technical Diploma (or equivalent) ☐ High school diploma ☐ Other
19. Field of Studies *	
20. Number of years of relevant work experience *	☐ 1-5 years ☐ 6-10 years ☐ 11-15 years ☐ 16-20 years ☐ More than 20 years
21. Briefly describe your current work functions * (provide separate documents or CV as necessary)	
22. Describe your experience in relation to the activity * (provide separate documents or CV as necessary)	
23. Upon return to your country, how will you make use of the knowledge acquired during the activity * (provide separate documents or CV as necessary)	

Additional Information

24. Have you already benefited from fellowship(s) during the current year? *	☐ No	☐ Yes - Provide the activity name(s)/year(s):
25. Describe any accessibility or specific needs you may have (optional)		

Conditions and Applicant Signature

In signing and submitting this form, I certify that I have read the following conditions and accept them in their entirety. *	Please agree to all conditions. ☐ I hereby certify that the statements in this application are true and complete * ☐ If selected for a fellowship, I undertake to attend the entire event * ☐ If selected for a fellowship, I undertake to inform ITU whenever there are changes in my availability that will affect the terms of my ITU award *
Applicant Signature *	Date (DD/MM/YYYY) * :

National Designated Focal Point Signature

This application shall be duly signed and authorized by the national designated focal point and/or a senior officer from the Administration/Member State.

Full name *: Job title *: Email *:	Signature * Date (DD/MM/YYYY) * :
Stamp of the Administration/Member State *	

12h30-14h00	**Break**
14h00-15h15	**Session 2a: Responsible AI for inclusive Emergency Preparedness** This session will explore how artificial intelligence can strengthen emergency preparedness and anticipatory action across the early-warning value chain, while ensuring that its use remains responsible, transparent and people-centred. It will include discussions on how AI can help shift from reactive operations to data-driven foresight can be achieved. The session will highlight how emerging AI applications can transform risk into actionable intelligence: probabilistic hazard forecasting; automated trigger systems that enable pre-emptive humanitarian action before a crisis peaks; and dynamic resource logistics platforms that optimize personnel, supplies, and financial allocation in real-time. A particular focus will be placed on warning dissemination and communication, where AI can help translate, simplify and adapt authoritative warning messages for different languages, audiences and accessibility needs; support more targeted and location-specific communication; optimise the use of multiple dissemination channels based on connectivity and reach; and analyse feedback, public response and misinformation to improve future warning strategies.
15h15-15h30	**Break**
15h30-15h50	**Session: Infrastructure Sharing – A Solution for affordable and resilient Connectivity** Administrations, especially in Landlocked Developing Countries (LLDCs), face a fundamental digital connectivity challenge i.e. dependence on robust connectivity to access global markets with constrained geography. High transit costs, reliance on neighbouring infrastructure, and limited backhaul capacity create a connectivity bottleneck that affects economic growth. This session positions infrastructure sharing as the primary solution to these challenges. By moving from isolated digital infrastructure development to collaborative models, LLDCs can overcome their geographic disadvantages. The discussion will focus on how shared fibre corridors can reduce the exorbitant costs of landlocked backhaul, how co-investment in cross-border transmission lines can eliminate duplication, and how regional infrastructure pools can provide LLDCs with affordable access to submarine cables. The session will demonstrate that infrastructure sharing is not merely an efficiency tool, but a strategic necessity for shared regional prosperity.
15h50-16h15	**Session 3: Supporting data enabled MHEWS through partnerships (world Café style)** The effectiveness of multi-hazard early warning systems depends not only on access to timely and reliable data, but on the ability to turn that data into trusted intelligence,

	authoritative warnings and timely action. Across the early-warning value chain, relevant information is distributed across many actors: public agencies generate hazard and risk information; telecommunications operators and technology companies hold connectivity, mobility and infrastructure data; humanitarian organizations contribute vulnerability and impact information; and communities provide essential local and traditional knowledge.This World Café-style session will explore how partnerships can connect these different sources of information into end-to-end warning systems, tracing the pathway from AI-supported analysis and decision support through institutional validation, Common Alerting Protocol (CAP), Cell Broadcast and complementary dissemination channels, public response and evaluation. Participants will consider both the technical and institutional conditions required to make this pathway work in practice. Particular attention will be given to governance, interoperability, the responsible use of private-sector data, integration of locally held knowledge, and sustainable operating models that move beyond short-term pilots. **Key Questions** - **AI based workflows:** How can AI-supported analysis be integrated into institutional workflows in ways that strengthen, rather than bypass, human validation, accountability and official warning authority? - **Innovation & Inclusion**: What new partnerships—especially with the private sector and civil society—can bring innovative data sources (e.g., mobile network data, social media trends, IoT sensors) into early warning systems, while ensuring they serve the most marginalized? • **Capacity & Localization**: How can partnerships strengthen local and national capacities to generate, analyse, and act on data—transforming communities from passive recipients to active participants in the warning chain? • **Sustainability**: What institutional, financing and operating models can ensure that data and technology partnerships become part of nationally owned MHEWS rather than remaining isolated pilots?
DAY 2:	
09h15-10h45	**Session 4: Country progress on MHEWS and pathways to 2030** Country presentations will examine progress across the full early-warning value chain, including the status of Common Alerting Protocol (CAP) implementation, Cell Broadcast and other public warning channels, the use of AI and digital technologies, available evidence on reach and effectiveness, institutional and financing arrangements, and priority milestones towards 2030. The session will also highlight practical lessons on what has enabled progress, where implementation gaps remain, and what types of technical assistance, partnerships and financing are needed to move from pilots or partial systems towards sustainable, nationally owned and people-centred MHEWS. 1. Country 1: XXX 2. Country 2: XXX

	3. Country 3: XXX
10h45-11h00	**Break**
11h00-12h30	**Session 4: Panel: Developing resilient future ready digital infrastructure** As countries accelerate their digital transformation journeys, the need for resilient, sustainable, and intelligent digital infrastructure has become more critical than ever. This session will explore how organizations and governments can build future-ready digital ecosystems by combining hybrid cloud, edge computing, AI-driven operations, and resilient data centre infrastructure. Particular attention will be given to the unique challenges faced by Landlocked Developing Countries (LLDCs), which often depend on neighbouring countries for international connectivity and face constraints in developing robust digital infrastructure. The discussion will examine how resilient data centres and Internet Exchange Points (IXPs) can reduce external dependencies, localize traffic, improve redundancy, and strengthen national digital sovereignty. Key themes will include leveraging AI for predictive maintenance and self-healing networks, ensuring sustainable and energy-efficient power infrastructure, enhancing resilience against threats and climate-related disruptions, and balancing the increasing demand for high-performance computing with environmental sustainability objectives. Moving beyond infrastructure deployment, the session will discuss how to design and operate digital infrastructure that is scalable, secure, adaptive, and climate-resilient, serving as the foundation for critical services such as financial systems, healthcare, government services, connectivity, and digital innovation.
12h30-14h00	**Break**
14h00-end	**From implementation to 2030: financing sustainable MHEWS and shaping the next phase of EW4All** This session will explore what is required to move from early-warning pilots and partial systems to sustained national implementation and long-term operation and then use those lessons to inform a strategic dialogue on the future of Early Warnings for All beyond 2027. The first part will focus on the real costs and institutional arrangements needed to operationalise MHEWS at scale. Discussion will cover capital and operating expenditure, procurement models, the role of mobile network operators and other private-sector partners, regional platforms and shared services, system maintenance, staff training, public testing and the recurrent costs required to keep warning systems functional over time.

	Short interventions from governments, donors, MNOs or tech partners: Two or three concise examples showing what implementation actually costs, what has been difficult to sustain, and where financing gaps remain. The second part will look ahead to regional priorities through 2030, considering how EW4All should evolve beyond its current 2027 horizon. The discussion will explore national ownership, inclusion, expansion of Cell Broadcast and other public warning systems, responsible use of AI, sustainable financing, stronger links to anticipatory action and clearer milestones for implementation. Moderated discussion on regional priorities through 2030, including: • nationally owned end-to-end MHEWS • universal and inclusive warning reach • expansion of Cell Broadcast alongside complementary channels • CAP interoperability • responsible AI across the warning value chain • sustainable financing models • measurable regional milestones to 2030 Participants identify the top five regional priorities to 2030 for Pillar 3 and, ideally, one or two measurable milestones for each.
Day 3	
All day	- **CB solutions CBE Thailand (MDES/NDMO)** - **Visit to AIT GIS center and AI Lab**