



The 1st International Conference on Disaster Risk Management for Strengthening Resilience and Sustainability in Communities 2025 (ICDRM2025)

Theme

“Strengthening Integrated Disaster Management to Empower Communities and Sustainability in Disaster Risk Reduction”

1. Background and Rationale

Over the past decade, the world has faced increasingly frequent and severe disasters, particularly those related to climate change such as floods, droughts, and storms, which have had profound impacts on lives, economies, and the environment. According to the UNDRR’s Global Assessment Report 2024 (GAR2024), although disaster-related mortality rates have decreased, the number of people affected has increased by 71%, and the global economic losses from disasters averaged around 0.3% of GDP during 2015–2023. Thailand, one of the countries most at risk, especially in the southern region, continues to face recurring floods that severely affect livelihoods and local economies. For example, in 2024, floods impacted over 550,000 households across eight provinces. This situation highlights the urgent need for effective and context-specific disaster management systems. In response, a group of southern universities—Thaksin University, Prince of Songkla University, Narathiwat Rajanagarindra University, and Yala Rajabhat University—have collaboratively advanced community-centered, area-based disaster management strategies. These include YRU’s “3T Model” (Awareness, Community Preparedness, and Network Preparedness), NRU’s application of Post-Disaster Needs Assessment (PDNA), and the use of geospatial technology to manage flood-prone areas in coordination with government agencies. While many of these innovations are still in development, they reflect the universities’ potential to serve as “academic hubs,” integrating knowledge, technology, and local partnerships in a participatory and systematic manner. However, insights from a regional university network meeting in March 2024 also identified key limitations, such as fragmented local governance structures, redundant government mechanisms, and long-term funding constraints. These challenges have led to the proposal of The 1st International Conference on Disaster Risk Management for Strengthening Resilience and Sustainability in Communities 2025

(ICDRM2025) under the theme “Strengthening Integrated Disaster Management to Empower Communities and Sustainability in Disaster Risk Reduction.” The conference aims to provide a platform for exchanging knowledge, lessons learned, and community-level innovations in prevention, preparedness, response, and sustainable recovery. It also seeks to strengthen the role of universities as “catalysts for change” in connecting interdisciplinary approaches for collaborative and systematic disaster risk management. ICDRM2025 will mark the beginning of a broader integrated disaster management network, scaling from local practices in southern Thailand to national and international levels, contributing to policy design, risk governance, and long-term community resilience—aligned with the Sustainable Development Goals (SDGs) and Thailand’s national disaster security strategy.

2. Objectives

2.1 To promote cross-sectoral collaboration and create a platform for the exchange of knowledge, case studies, and opportunities for knowledge development to enhance community-level disaster and emergency management outcomes.

2.2 To disseminate research, projects, activities, and strategies that respond to community needs in disaster and emergency management.

2.3 To share innovative ideas and best practices that foster integrated collaboration and strengthen communication and cooperation between agencies and communities for more effective disaster and emergency management.

2.4 To draw lessons from past experiences and share practical findings, technologies, and innovations that can be applied to improve disaster and emergency management practices at the community level.

3. Project Coordinators:

3.1 Thaksin University

3.2 Prince of Songkla University

3.3 Narathiwat Rajanagarindra University

3.4 Yala Rajabhat University

3.5 Program Management Unit for Area-Based Development (PMU A)

4. Participants

Faculty members, researchers, students, community members, civil society representatives, as well as experts from both domestic and international backgrounds. This includes university networks working on disaster management in the northern region, northeastern region, and interested individuals from government agencies and private sectors, totaling approximately 200 people.

International Networks:

- University of Kitakyushu, Japan (Prof. Dr. Takaaki Kato)
- Saint Louis University, United States of America (Dr. Joanne Langan)
- Hong Kong Polytechnic University (Prof. Dr. Alice Yuen Loke)
- Universiti Malaysia Kelantan (UMK)
- University College TATI (UC TATI)
- Universiti Teknologi Malaysia (Dr. Khamarrul Azahari Razak)
- Asian Institute of Technology (Associate Professor Dr.Indrajit Pal)

5. Date, Time, and Venue of the Conference

The conference will be held from July 17-18, 2025, at the Prem Auditorium, Thaksin University, Songkhla Campus, Mueang District, Songkhla Province.

6. Conference Format

- Oral presentations of research works in 4 fields: Empowering Communities and Local Wisdom for Disaster Risk Reduction, Science, Technology, and Innovation for Disaster Management, Climate Change, Environmental Risks, and Sustainable Recovery, and Governance, Policy, and Multi-Stakeholder Collaboration in Disaster Management.

- Exhibitions under the 4 main themes of the Disaster Management Platform: Disaster preparedness, Disaster prevention, Disaster response, and Post-disaster recovery.

7. Event Schedule

Duration	Activity
Now – July 6, 2025	Oral presentation submissions are now open via Google Form: https://forms.gle/HzFGE6xSo2wmcMVM7 The selected works will be published in an Abstract Book and a Proceeding Book.
By July 17, 2025	The Abstract Book will be available for publication on the website: www.iri.tsu.ac.th
By August 17, 2025	The Proceeding will be available for publication on the website: www.iri.tsu.ac.th
July 17-18, 2025	Academic Conference on Oral Presentations and Exhibition of the Disaster Management Platform.

Note: Participants may choose to submit only an abstract (to be published in the Abstract Book) or a full research paper (to be published in the Proceeding Book).

8. Submission Process

Presenters are required to submit their abstracts via google form: [google form: https://forms.gle/HzFGE6xSo2wmcMVM7](https://forms.gle/HzFGE6xSo2wmcMVM7)

9. Academic Presentation Tracks

The International Conference will be organized into 4 thematic presentation tracks:

1. Empowering Communities and Local Wisdom for Disaster Risk Reduction

This track focuses on community engagement and the use of local knowledge in disaster management. Topics include public and vulnerable group participation in disaster planning; the roles of community leaders, local organizations, and religious institutions; the application of indigenous knowledge and cultural practices in disaster response; community-based case studies from various regions; the development of sub-district/district-level networks and cooperation mechanisms; and other related issues.

2. Science, Technology, and Innovation for Disaster Preparedness and Early Warning

This track explores the role of academic institutions in promoting disaster management at the levels of recovery and growth from crises (Resilience and Anti-fragility), application of scientific and technological innovations in disaster readiness and alert

systems. Topics include the use of geospatial technology (GIS), IoT, and AI for forecasting and early warning; community-level disaster risk databases; the design of disaster-resilient infrastructure such as schools, residential buildings, and roads; the development of applications or alert systems for remote areas; the integration of local innovations with modern technologies; and other related topics.

3. Climate Change, Environmental Risks, and Sustainable Recovery

This track focuses on the intersection of climate change, environmental vulnerabilities, and long-term recovery strategies. Topics include the impacts of climate change on coastal communities, forests, and agricultural areas; socio-economic analyses of evolving disaster risks; sustainable natural resource management to mitigate disaster effects; post-disaster environmental restoration—such as mangroves, water sources, and ecosystems; strategies for livelihood restoration in affected communities; mental health and psychological preparedness for populations post-disaster; and other related issues.

4. Governance, Policy, and Multi-Stakeholder Collaboration in Disaster Management

This track explores frameworks for disaster governance and inclusive collaboration. Topics include the development of provincial and national policies integrated with community-based planning; the role of local administrative organizations in disaster risk management; coordination mechanisms among government sectors, civil society, and academia; strategies for mobilizing and managing funding for prevention and recovery; approaches for monitoring, evaluation, and capacity-building of local agencies; and other related issues.

10. Conference Registration

Individuals (students, faculty members, researchers, academics both from within and outside Thaksin University) can register to participate in the conference via Google Form: urlkub.co/SivY11. For further inquiries, please contact Assist. Prof. Dr. Chokchai Mueanmas, Research and Innovation Institute, Thaksin University, Phatthalung Campus at 074-609600 ext. 7235, mobile (+66)8-3536-6199, or via email: chokchai@tsu.ac.th

11. Expected Benefits

11.1 To provide a platform for international dissemination of disaster management research, enhancing academic and societal impact.

11.2 To foster knowledge exchange and collaboration among researchers, public and private sectors, through shared experiences, innovations, and technologies.

11.3 To strengthen inter-university research networks for the practical application of disaster management knowledge.

11.4 To promote the development of innovative solutions addressing disaster-related challenges at both local and global levels.

11.5 To support multi-sector collaboration in formulating effective and sustainable disaster management policies and practices.