







Concept Note and Programme

Workshop on ICT for Disaster Risk Management for Indonesian City Governments 5-9 July 2021 9:00AM (Amsterdam), 2:00 PM (Jakarta/Bangkok) / 4:00PM (Seoul)

Background

Asia and the Pacific is among the world's most disaster-impacted regions and the number of disasters caused by the natural hazards in the region has increased drastically in recent years. According to UNDRR's Global Assessment on Risk 2019, the risk is systemic and crises are cascading. Information and Communication Technologies (ICTs) have tremendous potential in disaster risk management due to their ability to instantly and continuously facilitate the rapid flow of information in real-time. The use of ICTs during all phases of disaster risk management presents substantial opportunities to reduce disaster risks, enhance resilience, and facilitate inclusive preparedness and response.

Local government, being first responder and the one responsible for community development, has a critical role to play in managing disaster risks, protecting citizens, and achieving community resilience. Recognizing the important role of the local government in disaster risk management, APCICT/ESCAP, in partnership with CityNet, will co-organize a virtual workshop on ICT for Disaster Risk Management for Indonesian City Governments, to be held during 5-9 July 2021 with the aim to equip local government officials with the essential knowledge and skills to understand the overall framework of disaster risk management and the practical use of ICTs in disaster mitigation and preventions, preparedness, response and recovery at the local level.

Objective:

By the end of the training, participants will:

- Be familiar with DRM and its associated terminologies, including the linkages between the Sendai Framework for Disaster Risk Reduction and the Sustainable Development Goals;
- Understand risk management planning and local government functions;
- Be able to identify the data necessary for DRM, such as remote sensing data, digital elevation data, thematic data, historical disaster data and be aware of the freely available satellite-based resources and products for emergency mapping;
- Understand steps for risk assessment and visualization of risks in an urban area;
- Applications of ICTs for Disaster Mitigation & Prevention, Disaster Preparedness, Disaster Response, and Disaster Recovery;
- Mainstreaming risk reduction in local governments activities.

Resource Persons

Prof. Cees van Westen, Department of Earth System Analysis (ITC), University of Twente Prof. Richard Sliuzas, Department of Urban and Regional Planning and Geo-Information Management, (ITC), University of Twente

Dr. Manzul Hazarika, Geoinformatics Center, Asian Institute of Technology

Mr. Syams Nashrullah, Geoinformatics Center, Asian Institute of Technology

Participant profile

The training is open to 25-30 local government officials from departments responsible for disaster management, urban planning, and other concerned agencies working on disaster risk reduction.

The participants are expected to provide inputs on the thematic areas of the Module and assessment on capacity development for disaster risk management.

Modality

The virtual meeting will be organized in 5 daily sessions of 3 hours via Zoom and materials will be stored in the CANVAS platform.

Contacts

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Workshop on ICT for Disaster Risk Management for Indonesian City Governments

Day	Time	Session	Торіс	Lecturer	Description	
4	(Jakarta)					
1	1:45-2:00 PM		Virtual training room opens for access to participants Housekeeping announcements			
	2:00-2:20	Inaugural	Opening Remarks:			
	PM	Session	 Mr. Geunhyeong Yim, CEO, CityNet Mr. Kiyoung Ko, Director, APCICT/ESCAP Mr. Jehak JANG, Ambassador for International Relations of Incheon Mr. I Gusti Ngurah Jaya Negar, Mayor of Denpasar (<i>TBC</i>) 20 min 			
	2:20 –5:00 PM	1	Course Introduction	Manzul Hazarika	Objectives, target audience and course contents.	
		2	30 min Risk management planning and local government functions	Richard Sliuzas	Short lecture and exercise on discussing DRM functions that local governments perform and the role	
			35 min		of ICT in these	
		BREAK – 15 min				
		3	Group discussion by individual city	Syams Nashrullah	Discuss the important DRM issues in their city	
		_	30 + 30 = 60 min	Managel Llagarity	latens affre	
		4	ICT for Disaster Risk Management	Manzul Hazarika	Interactive presentation.	
2	2:00-5:00 PM	1	30 min Introduction to Smart Disaster Management and Operating System 25 min	Mr. Jongsik Park	ICT Applications/ Examples	
		2	Applications of Remote Sensing and Thematic Data in DRM and Urban Space 35 min	Manzul Hazarika	Interactive presentation and discussion on data requirements for local governments	

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		3	Presentations from participants	To be discussed/ decided	Participants	
			20 min			
		BREAK – 15 min 4 Group Exercise Syams Web-search for				
		4		Nashrrullah	relevant data-	
		F	60 min	Manzul Llazarika	SOURCES.	
		5	Digital Elevation Model and Applications	Manzul Hazarika	ICT Applications/ Examples	
			25 min			
3	2:00-5:00 PM	1	Introduction to risk assessment	Cees van Westen	Interactive presentation	
			20 min			
		2	Risk Types and methods of risk	Cees van Westen	Look at different methods for risk	
			assessment		assessment and see in which case which method is	
			30 min		used.	
		3	Presentations from participants	To be discussed/ decided	Participants	
			20 min			
		BREAK – 15 min				
		4	Assignment on the use of risk information from the internet	Cees van Westen	Demonstration and exercise on InaRisk.	
		_	45 min	-		
		5	Decision Support Tools for risk assessment	Cees van Westen	Interactive presentation	
			20 min			
		6	Tutorial on Changing Risk analysis for decision making	Cees van Westen	Exploring an on-line handbook is to support the generation and application of	
					hazard and risk	
4	2.00 5.00	1	30 min	Monzul Hozorika	information.	
4	2:00-5:00 PM	1	ICT for Disaster Preparedness	Manzul Hazarika	ICT Applications/ Examples	
			35 min			

		0	Demonstration of				
		2	Demonstration of a DSS for disaster management	Manzul Hazarika	Web-based demonstration		
			15 min				
		3	Presentations from participants	To be discussed/ decided	Participants		
			20 min				
		BREAK – 15 min					
		4	Disaster Response	Manzul Hazarika	ICT Applications/ Examples		
			35 min				
		5	Demonstration of Sentinel Asia System	Manzul Hazarika	Web-based demonstration		
			20 min				
		6	Disaster Recovery	Syams Nashrrullah	ICT Applications/ Examples		
			20 min				
		7	Demonstration of a platform from Central Sulawesi	Syams Nashrrullah	Web-based demonstration		
			20 min				
5	2:00-5:00 PM	1	Mainstreaming risk reduction in local governments bodies	Richard Sliuzas	Short lecture based on work of Wamsler		
			30 min				
		2	Presentations from participants	To be discussed/ decided	Participants		
			30 min				
		BREAK – 15 min					
		3	Opportunities and barriers to mainstreaming.	Richard Sliuzas	Group based discussion on opportunities and barriers, and possible mainstreaming strategies also reflecting on Incheon Smart City		
			60 min		case		

4	Concluding session	Cees van Westen	Reflections on the course and way forward including other training possibilities.
	20 min		
5	End of workshop questionnaire	APCICT/CITYNET	Getting on-line feedbacks from participants
	20 min		