



*Side-Event of the 10<sup>th</sup> World Water Forum – Bali, Indonesia 20-25 May 2024*

**International Workshop on  
Building Smart and Resilient Cities and Communities in Asia and the Pacific:  
Role of Policy Makers and Planners of Local Government**

21-23 May 2024, Bali, Indonesia

**1. Introduction**

Water is the essence of life and a fundamental part of wellbeing. Communities lacking reliable access to pure water face immense threats in fulfilling their basic needs and maintaining their health and well-being. Many regions in the world suffer from water scarcity which can lead to different disasters-droughts, food losses, famine, and illness. On the other hand, however, excessive water could cause calamities- storm surges, heavy rains, and floods which cause loss of life, infrastructural damage, displacement of communities, and contamination of water resources. Global warming and climate change are escalating the frequency and severity of such events, posing severe threats to our cities and communities. According to the Global Risks Report 2023, environmental and socioeconomic crises, particularly natural disasters and extreme weather events, biodiversity loss and ecosystem collapse, and failure to mitigate climate change are viewed as major global challenges for a sustainable future<sup>1</sup>.

The Asia-Pacific is the world's most populous and fastest-growing region in the world. Almost 60% of the world's population lives in the region<sup>2</sup>. In the next 30 years, the Asia Pacific region is expected to experience substantial urban expansion and economic growth. It is estimated that the region's economic output will be over half of global investment, commerce, and GDP.<sup>3</sup> With this rapid population growth, urbanization, and economic prosperity, Asia and Pacific cities are dealing with a complex set of interconnected challenges such as haphazard urban expansion and growing motorization, aging infrastructure, rising inequalities, urban segregation, environmental degradation, natural disasters, and climate-related crises.

Studies show that the most environmentally risky cities are also located in Asia and the Pacific.<sup>4</sup> In recent years, climate change-induced disasters have posed an increasingly serious threat to the region. More than 140 disaster events occurred in the region in 2022 alone, resulting in over 7,500 fatalities, affecting over 64 million people, and imposing an estimated US\$57 billion in economic damage<sup>5</sup>. Water-induced disasters are prominent in Asia and the Pacific. Among the 140 disasters, 81 were linked to weather, climate, and water, with flood and storm events accounting for over 83% of them<sup>6</sup>. In a business-as-usual scenario, about 1 billion urban residents may face multiple extreme hazards in the region by 2030<sup>7</sup>. Therefore, there is an urgent need to build Asia and Pacific cities and communities safer, resilient, livable, and sustainable.

<sup>1</sup> <https://www.weforum.org/publications/global-risks-report-2023/digest/>

<sup>2</sup> [https://www.worldometers.info/world-population/asia-population/#:~:text=Asia%20Population%20\(LIVE\)&text=The%20current%20population%20of%20Asia,of%20the%20total%20world%20population](https://www.worldometers.info/world-population/asia-population/#:~:text=Asia%20Population%20(LIVE)&text=The%20current%20population%20of%20Asia,of%20the%20total%20world%20population)

<sup>3</sup> Strategy Paper: Sustainable and Inclusive Urbanization in Asia Pacific | United Nations Development Programme (undp.org)

<sup>4</sup> <https://www.unescap.org/kp/2022/transport-and-communication-bulletin-asia-and-pacific-no-92-environmental-sustainability>

<sup>5</sup> <https://www.unescap.org/news/disaster-emergency-underway-asia-and-pacific-risks-outpace-resilience-warns-new-un-study>

<sup>6</sup> <https://reliefweb.int/report/world/state-climate-asia-2022>

<sup>7</sup> <https://unhabitat.org/asia-and-the-pacific-region>

The Sendai Framework for Disaster Risk Reduction acknowledges the critical need to build cities and communities safe and resilient through disaster risk reduction. The New Urban Agenda reaffirms our global commitment to the SDGs as a crucial step for realizing sustainable development. Goal 11 of the 2030 Agenda aims to transform our world by making cities and human settlements inclusive, safe, resilient, and sustainable. In this context, the smart city model has emerged as a popular solution to address complex sets of urban challenges and build cities and communities safer, resilient, and sustainable through smart governance, technologies, and innovative solutions. Smart cities integrate physical infrastructures and human assets/systems with digital technologies within a built environment to deliver better facilities and services for improving the quality of life.

The United Nations Centre for Regional Development (UNCRD), with the support of the Ministry of Land, Infrastructure, Transport, and Tourism (MLIT), the Government of Japan, has been organizing a series of capacity-building workshops on smart cities to support developing countries in Asia and the Pacific. In this connection, as an integral part of the 10<sup>th</sup> World Water Forum, the International Workshop on Building Smart and Resilient Cities and Communities in Asia and the Pacific: Role of Policy Makers and Planners of Local Government and the special session on the International Conference of Local and Regional Government in the framework of the formal local government process will be co-organized by the UNCRD and the United Cities and Local Governments Asia-Pacific (UCLG ASPAC) from 22 to 23 May 2024 in Bali, Indonesia.

## **2. Objectives**

The main objective of the International Workshop on Smart and Resilient City is to provide technical assistance and support to urban policymakers, planners, and city officials, particularly from developing countries including the least developing countries (LDCs), landlocked countries, and small island developing states (SIDS) to enhance their capacity in better addressing SDG 11 (Make Cities and Human Settlements Inclusive, Safe, Resilient and Sustainable) through smart city solutions and measures. The workshop emphasizes showcasing exemplary practices and case studies especially related to the implementation of smart water management and disaster risk reduction technologies and solutions.

## **3. Participants**

It is expected that the International Workshop will be attended by approximately 50 participants, including governors, mayors, policymakers, planners, and officials from local and regional governments from Asia and the Pacific.

## **4. Date and Venue**

The International Workshop will take place on the 21<sup>st</sup> and 23<sup>rd</sup> of May 2024 while the Local and Regional Governments (LRGs) Forum will be on 22<sup>nd</sup> of May 2024 in Bali, Indonesia. Both are held in conjunction with the 10<sup>th</sup> World Water Forum.

The venue will be as follows:

- The International Workshop 1<sup>st</sup> day, 21 May 2024: Courtyard Hotel, Nusa Dua Bali
- Local and Regional Governments (LRG) Forum, 22 May 2024: Singaraja 2, Bali Nusa Dua Convention Center (BNDCC)
- The International Workshop 2<sup>nd</sup> day, 23 May 2024: Kintamani 7, Bali Nusa Dua Convention Center (BNDCC)

## **5. Language**

The language of the Workshop is English.

## 6. Programme Agenda (Provisional)

### 21 May 2024: Courtyard Bali Nusa Dua Resort

**The International Workshop on Building Smart and Resilient Cities and Communities in Asia and the Pacific: Role of Policy Makers and Planners of Local Government**

*(see the provincial agenda below although the schedule is subject to change)*

### 22 May 2024: Bali Nusa Dua Convention Center

**The Local and Regional Governments Forum organised by UCLG World**

*(separate agenda will be made available by UCLG World)*

### 23 May 2024: Bali Nusa Dua Convention Center

**The International Workshop on Building Smart and Resilient Cities and Communities in Asia and the Pacific: Role of Policy Makers and Planners of Local Government**

*(see the provincial agenda below although the schedule is subject to change)*

<b>Day 1: 21 May 2024 (Tuesday)</b> <b>Courtyard Hotel, Room Krisan 2 &amp; 3</b>	
12:00-13:00	<b>Registration</b>
13:00-14:00 (60 min)	<p><b>Opening Session</b></p> <p><i>Facilitator: Dr. Bernadia Irawati Tjandradewi, Secretary General, UCLG ASPAC</i></p> <p>Welcome Remarks by:</p> <ul style="list-style-type: none"> <li>• <b>Mr. Dakila Carlo Cua</b>, President of the United Cities and Local Governments Asia Pacific (UCLG ASPAC)   Governor of Quirino Province   President of the Union of Local Authorities of the Philippines (5 min)</li> </ul> <p>Opening Address by:</p> <ul style="list-style-type: none"> <li>• <b>Mr. Uğur İbrahim Altay</b>, Mayor of Konya, Turkey   President of UCLG</li> <li>• <b>Dr. Kazushige Endo</b>, Director of United Nations Centre for Regional Development (UNCRD) (5 min)</li> <li>• <b>Mr. Kenichi Kawamura</b>, Senior Vice President of Japan International Corporation Agency (JICA) (5 min)</li> <li>• <b>Ms. Diana Kusumastuti</b>, Director General of Human Settlements of the Ministry of Public Works and Housing, Indonesia (5 min)</li> <li>• <b>Mr. Onodera Seiichi</b>, Deputy Minister for International Projects of Ministry of Land, Infrastructure, Transport and Tourism, Japan (Video, 5min)</li> <li>• <b>H.E. Mr. Agus Harimurti Yudhoyono</b>, Minister for Agrarian Affairs and Spatial Planning/ National Land Agency, Indonesia (replaced by <b>Ir. Virgo Eresta Jaya</b>, M. Eng. Sc., Director General of Survey and Mapping for Land and Spatial Affairs) (5 min)</li> </ul> <p><b>Group Photograph for All Speakers</b></p>
14:00-14:15 (15 min)	<p><b>Scope, Objective, and Contexts of the Workshop</b></p> <ul style="list-style-type: none"> <li>• <b>Dr. Ganesh Raj Joshi</b>, Expert of UNCRD-DSDG/UN DESA (10 min)</li> </ul>

	Q & A: (5 min) <b>Group Photograph All Participants</b>
14:15-14:45	Coffee/tea Break
14:45-16:00 (1hr 15 min)	<p><b>Session I: Introductory Session on Building Smart and Resilient Cities and Communities: Role of Policy Makers and Planners</b></p> <p><b>Facilitator: Dr. Kazushige Endo</b>, Director of UNCRD</p> <ul style="list-style-type: none"> <li>• <b>Presentation 1:</b> Building Smart and Resilient Cities and Communities: Role of Policy Makers and Planners – <b>Dr. Ganesh Raj Joshi</b>, Expert of UNCRD (15 min)</li> <li>• <b>Presentation 2:</b> Japanese Experience for Building Smart and Resilient Cities and Communities – <b>Ms. Shikiko Tatsushima</b>, Deputy Director of International Policy Division, MLIT, Japan (15 min)</li> </ul> <p><b>City Cases: Presentation by cities</b></p> <ul style="list-style-type: none"> <li>• <b>Presentation 1:</b> The Role of Local Government of Makassar in Building Smart and Resilience City – <b>Mr. Mohammad Ramdhan Pomanto</b>, Mayor of Makassar, Indonesia (15 min)</li> <li>• <b>Presentation 2:</b> <b>Mr. Jee Hyung-jae</b>, Director General of Environment and Water Resources Bureau, Daegu City, South Korea (15 min)</li> </ul> <p>Open Discussion and Q &amp; A: (15 min)</p>
16:00-16:30	Coffee/tea Break
16:30-18:00 (1h 30 min)	<p><b>Session II: Integrated Urban Development Approach for Smart and Resilient Cities in the Context of Water Security and Prosperity</b></p> <p><b>Facilitator: Dr. Bernadia Irawati Tjandradewi</b>, Secretary General, UCLG ASPAC</p> <ul style="list-style-type: none"> <li>• <b>Presentation 1:</b> Integrated Basin-wide Development in Central Japan – <b>Prof. Masao Yamada</b>, Professor of Nagoya City University   Director General of Nagoya Environmental Future Institute   Former Vice Mayor of Nagoya City (15 min)</li> <li>• <b>Presentation 2:</b> Building Smart and Resilient cities in the Context of Water Security and Prosperity – <b>Dr. Makio Ishiwatari</b>, Senior Advisor of JICA   Visiting Professor of the University of Tokyo (15 min)</li> <li>• <b>Presentation 3:</b> Water digital transformation: deterioration diagnosis of water pipes utilising artificial satellite and AI by public-private partnerships in Toyota City – <b>Mr. Toshiki Okada</b>, Director of DX promotion, Planning Division, Waterworks and Sewer Department, <b>Mr. Yusuke Matoba</b>, Chief Executive Officer, Fracta, Inc., <b>Mr. Satoru Tateishi</b>, TENCHIJIN, INC. (15 min)</li> </ul> <p><b>Mayors Dialogue (40 min.)</b> All participating Mayors, Vice-Mayors and City Leader will participate in the dialogue.</p>
18:15-19:30	<b>Networking Reception</b> (hosted by UCLG ASPAC at Courtyard Hotel)

<b>Day 2: 22 May 2024 (Wednesday)</b> <b>Bali Nusa Dua Convention Center (BNDCC), Room Singaraja 2</b>	
09:30-18:00	Local and Regional Governments Day organised by UCLG World at Bali Nusa Dua Convention Center (BNDCC), Room: Singaraja 2
<b>End of Day 2</b>	
<b>Day 3: 23 May 2024 (Thursday)</b> <b>Bali Nusa Dua Convention Center (BNDCC), Room Kintamani 7</b>	
9:00–10:00 (1h)	<p><b>Session III: Disaster Risk Reduction and Management for Building Resilient Cities and Communities</b></p> <p><b>Facilitator:</b> Dr. Kazushige Endo, Director of UNCRD</p> <ul style="list-style-type: none"> <li>• <b>Presentation 1:</b> Kumamoto City Initiatives for a Sound Water Cycle and River Basin Disaster Management: Creating a New Water Culture – <b>Mr. Kazufumi Onishi</b>, Mayor of Kumamoto City Government, Japan (15 min)</li> <li>• <b>Presentation 2:</b> Flood Mitigation on Water related Issues: Case of Samarinda – <b>Mr. Andi Harun</b>, Mayor of Samarinda, Indonesia (15 min)</li> <li>• <b>Presentation 3:</b> Smart DRR Solutions by <b>Mr. Yoshihiro Katsuhama</b>, NIPPON KOEI CO., LTD., <b>Mr. Hiroshi Okada</b>, PACIFIC CONSULTANTS CO., LTD. (10 min)</li> </ul> <p>Open discussion and Q &amp; A (20 min)</p>
10:00-10:30	Coffee/Tea Break
10:30–12:00 (1h 30 min)	<p><b>Session IV: Group Exercise on Integrated Urban Development Approach for Smart and Resilient Cities in the Context of Water Security and Prosperity</b></p> <p><b>Facilitator:</b> Dr. Ganesh Raj Joshi, Expert, UNCRD-DSDG/UN DESA  <b>Dr. Charlie Hargroves</b>, Associate Professor, Curtin University, Australia and  <b>Dr. Scott Dwyer</b>, Research Director, Institute for Sustainable Futures (ISF), University of Technology Sydney, Australia</p> <p>Focusing on knowledge, innovation, smart technologies, and solutions</p> <p><b>City Presentations: Exemplary practices and case studies related to the implementation of smart water management and disaster risk reduction technologies and solutions.</b></p> <p>City Presentations/City Showcases: Participating cities and local governments will share their cases</p>
12:00-13:00	Lunch Break for Networking
13:00–14:15 (1h 15min)	<p><b>Session V: Sustainable Sanitation and Water Finance and Transparent Governance</b></p> <p><b>Facilitator:</b> Dr. Marcelino Pandin, Advisor of UCLG ASPAC</p>

	<ul style="list-style-type: none"> <li>• <b>Presentation 1: Dr. Emil Dardak</b>, President of Eastern Regional Organisation for Planning and Human Settlements (EROPH)   Vice Governor of East Jawa (Feb 2019-Feb 2024) (15 min)</li> <li>• <b>Presentation 2: Mr. Kalanidhi Devkota</b>, Executive Director of the Municipal Association of Nepal (MuAN), Nepal (15 min)</li> <li>• <b>Presentation 3:</b> How SWOPS – Sanitation Operators’ Partnerships- support sustainable sanitation - <b>Ms. Anne Bousquet</b>, Programme Management Officer, Urban Basic Services Section of UN-Habitat (15 min)</li> <li>• <b>Presentation 4:</b> Polder and Pump System with Flood Gate in Mitigating Flood: Case of Palembang – <b>Mr. Akhmad Bastari</b>, Department of Public Works and Spatial Planning of Palembang (15 min)</li> </ul> <p>Open discussion and Q&amp;A (15 min)</p>
14:15-15:15 (1h)	<p><b>Session VI: Localizing SDGs</b></p> <p><b>Facilitator: Dr. Bernadia Irawati Tjandradewi</b>, Secretary General of UCLG ASPAC</p> <ul style="list-style-type: none"> <li>• <b>Presentation 1:</b> Our Comprehensive Conservation Initiatives for Lake Biwa - Lessons Learned from the Mother Lake in Japan – <b>Mr. Nobuhiko Miwa</b>, Director General for Lake Biwa Policies and MLGs Promotion of Shiga Prefecture, Japan (15 min)</li> <li>• <b>Presentation 2:</b> SDG Monitoring and Evaluation Tools – <b>Ms. Nana Inaguma-Urakami</b>, Researcher of UNCRD-DSDG/UN DESA (15 min)</li> <li>• <b>Presentation 3:</b> Smart Governance: Cascading SDGs to Local Chief Executives – <b>Ms. Cynthia Falcotelo-Fortes</b>, Secretary-General, League of Municipalities of the Philippines/ Mayor of the Municipality of Barcelona, Province of Sorsogon, the Philippines (15 min)</li> </ul> <p>Open discussion and Q&amp;A (15 min)</p>
15:15-15:30	Coffee/Tea Break
15:30-17:00 (1h 30 min)	<p><b>Session VII: Group Exercise</b></p> <p><b>(1) Disaster Risk Reduction and Management for Making Resilient Cities and Communities</b></p> <p><b>(2) Sustainable Water Finance and Transparent Governance</b></p> <p><b>Facilitator: Dr. Ganesh Raj Joshi</b>, Expert, UNCRD-DSDG/UN DESA, <b>Dr. Bernadia Irawati Tjandradewi</b>, Secretary General of UCLG ASPAC <b>Dr. Charlie Hargroves</b>, Associate Professor, Curtin University, Australia and <b>Dr. Scott Dwyer</b>, Research Director, Institute for Sustainable Futures (ISF), University of Technology Sydney, Australia</p> <ul style="list-style-type: none"> <li>• Focusing on knowledge, innovation, and solutions</li> <li>• Presentation from the Groups (5 min per Group)</li> </ul> <p><b>City Presentations: Exemplary practices and case studies related to (1) Disaster Risk Reduction and Management for Making Resilient Cities and Communities and (2) Sustainable Water Finance and Transparent Governance</b></p> <ul style="list-style-type: none"> <li>• City Presentations/City Showcases: Participating cities and local governments will share their cases.</li> </ul>

<b>17:00-17:45</b>	<b>Evaluation of the Training Workshop</b>
17:45-18:00 (15 min)	<b>Closing Session</b> Remarks: <ul style="list-style-type: none"> <li>• <b>Dr. Kazushige Endo</b>, Director of UNCRD (5 min)</li> <li>• <b>Dr. Bernadia Irawati Tjandradewi</b>, Secretary General of UCLG ASPAC (5 min)</li> </ul>

## 7. Reference Materials

Reference materials for the Workshop on Building Smart and Resilient Cities and Communities in Asia and the Pacific: Role of Policy Makers and Planners of Local Government can be found as follows.

On the UNCRD website

- [Smart Cities](#)
- [Smart Mobility and Transport](#)
- [Water-related Disaster Risk Reduction](#)
- [ASEAN Smart City Planning Guidebook](#) (This guidebook was published by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) in Japan in consultation with the ASEAN Smart Cities Network (ASCN) and the ASEAN Secretariat)

On UCLG ASPAC website

- <https://uclg-aspac.org/advocacy/sustainable-development-goals-sdgs/>
- [Localise SDGs Indonesia \(localisesdgs-indonesia.org\)](https://localisesdgs-indonesia.org) (in Bahasa only)

## 8. Contact for Further Information

For the International Workshop on Building Smart and Resilient Cities and Communities in Asia and the Pacific: Role of Policy Makers and Planners of Local Government, 21-23 May 2024

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