

INTERNATIONAL WEBINAR
CLIMATE CHANGE AND URBAN RESILIENCE

CONNECTING THE *GLOBAL* *NETWORK* OF THOUGHTS

WEDNESDAY, OCT 16, 2024
13.00 - 16.00 (GMT+7)



GEBZE
TECHNICAL UNIVERSITY



GTU-mimHUB
Mimarlık Fakültesi Araştırma Platformu
Faculty of Architecture Research Hub



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Prologue

Urban resilience is the capacity of a city's systems, institutions, businesses, and communities to survive, adapt, and thrive in the face of chronic stresses and acute shocks.

It involves maintaining continuity, adapting to changes, and transforming to enhance sustainability. To achieve resilience, cities must holistically assess their capacities and risks, focusing on engaging vulnerable populations. In a world of environmental, socioeconomic, and political uncertainty, resilience has become a critical goal for urban areas, which now serve as both hubs of resource consumption and innovation, and laboratories for resilience strategies.

The rapid pace of modern urban change is fueled by climate change, technological advancements, the swift flow of information, and evolving geopolitical conditions. These changes impact regions differently, shaped by their distinct contexts.

Climate change has caused significant and increasingly irreversible damage to terrestrial, freshwater, cryospheric, and marine ecosystems, with mass mortality events on land and in the ocean. Species loss has been driven by extreme heat, and some ecosystems, such as those affected by glacier retreat and permafrost thaw, are nearing irreversible change. Climate change has also undermined food and water security, slowing agricultural productivity growth globally over the past 50 years, especially in mid- and low-latitude regions. Ocean warming and acidification have harmed fisheries and shellfish aquaculture, and roughly half of the global population now faces severe water scarcity for part of the year due to climatic and non-climatic factors.

The Pilar Tunas Nusa Lestari Foundation initiated this webinar in collaboration with the West Java Office of Environment, Restor. Eco, the Human Settlement Expert Group of SAPPK ITB, and Gebze Technical University in Turkey as a collaborative effort to strengthen dialogue, enhance cooperation, and inspire innovation in urban resilience. Experts from diverse fields will share their insights, successes, and challenges in addressing climate change, its impacts on cities, health, and food security while highlighting the importance of social cohesion and collective action.



Theme

This Webinar will address disaster safety and economic resilience in cities and requires community initiatives, experimental research on climate change and urban resilience, effective regulation, and good governance practices. Additionally, it involves protecting regional ecosystems and urban biodiversity, as well as ensuring the impartial production and distribution of knowledge."

The webinar will feature two panels: one on **“Mapping the Issue”** and another on **“Discussing Practices & Experiences”**. Each panel will invite four experts and practitioners from different countries and professions, with discussions led by two additional experts. The goal is to establish a shared platform for future collaboration."

The first panel will map the issues by discussing:

- 1.Environmental degradation and urbanization,
- 2.Health, food security, and green ecosystem,
- 3.Governance and collaboration,
- 4.Disaster, safety, and economic resilience of a city.

Urbanization, as a major social transformation, significantly impacts local, regional, and global environments through complex processes, exacerbating issues like habitat loss, pollution, and resource strain. While urban ecosystems are crucial for climate adaptation and mitigation, they face threats such as non-native species, rising sea levels, and changing species' phenology. Addressing these challenges requires strong governance, improved planning, people-centered policies, and environmental integration to build sustainable cities and mitigate the adverse effects of intensive urban growth.

The second panel will discuss the Practices & Experiences by discussing:

- 1.Community Initiatives and Experimental Research on Climate Change and Urban Resilience.
- 2.Regulation and Good Governance Practice on Climate Change
- 3.The Regional Ecosystem and Urban Biodiversity.
- 4.The Impartial Knowledge Production and Distribution

Community-based initiatives and experimental research foster a synergistic environment where participants collaboratively address meaningful problems. This transdisciplinary approach involves multiple stakeholders and prioritizes innovative partnerships with active community involvement. Effective and sustainable climate change solutions require regulatory governance supported by citizen participation in political processes. Urban biodiversity is shaped by factors such as city size, age, and context, influencing species diversity and adaptation. To meet the urgency of today's challenges, knowledge production must embrace novel methods and openness, ensuring that it addresses the needs and goals of society.



Participants

the core of this webinar is the global network of Pilar Tunas Nusa Lestari Foundation, which aims to be connected to work on common issues namely climate change and urban resilience for the first time. The network is:

- **The Stunting Prevention Network:** Claudia (The Netherlands), Melissa Chew (Malaysia), Anna Toure (Senegal), Esther (Uganda), Myanmar, India. Dr. Santi Puti, Dr Ilsa, Ny Utton, Dr. Dadan, Fathimah
- **The Climate Change Network:** Karsten Winnemuth, Ella von der Haide (Germany), Dominique Lamkli (Switzerland), Leung Mee Ping (Hongkong/Japan), Winifredo Dagli (Philippines), Denniz (Turkey) Angga Dwiartama, Dr. Setiawan Wangsaatmaja, Dr Prima, Dr. TheMaria, Vitorini , Ginggi S.H., Ismal , Annisa, Kamil Muhammad, Donny (Mongabay)
- **The Housing and Settlement Network:** Caro Van den Hole (Belgia), Ronny Schmidt (Belgia) Alis Nurdini, Dr. Iendra, Dr. Basuki Dwisusanto, Dr. Maryoko, Dr. Yuri Hermawan P, Haidar, Dr. Budi Faisal
- **The Urban Network:** Rita Padawangi, Ph.D (Singapore), Dr. Darren Leung (Hongkong), Yudi (France), Juelling (Amsterdam), Sibarani Sofyan, Dr. Woerjantari, Didi Ruswandi, Tammi Lasmini, Dr. Mulya Amri, Dr Ilham, Dr Ratna, Dr. Winarna , Dr. Dwi Heriawan, Dr. Dian Irawati, Real Rich Sjarief

This webinar will invite a diverse group of participants, including experts, practitioners, media, businesses, and government representatives, spanning multiple generations. By doing so, it aims to broaden the discussion and expand its impact on the subject and related cases



Rundown

Time	Duration	Activity	
13.00 - 13.05	5'	Opening	
13.05 - 13.15	10'	Keynote Speech 1.	Sibarani Sofian MUDD, B. Sc (Urban+, Indonesia)
13.15 - 13.25	10'	Keynote Speech 2.	Zeynep Deniz Yaman Galantini, Ph.D (Gebze Technical University, Turkey)
13.25 - 13.30	5'	Introduction to Plenary	MC
13.30 - 14.30	60'	Panel 1. Mapping the Issue	<p>Moderator: Reza Prima, Tunas Nusa Foundation</p> <p>Discussant: Alfa Surayya (Business Partner of Tunas Nusa); Ronny Smedts (LUCA School of Arts, Belgium)</p>
		<p>Environment Degradation and Urbanization,</p> <p>Urbanization, a major modern social transformation, profoundly affects the local, regional, and global environment through complex social, economic, and environmental processes. Research and policy increasingly recognize the potential of urbanization and cities as key contexts for developing solutions.</p>	Yuti Ariani Fatimah, Ph.D (Department of Sociology at the University of Cambridge)
		<p>Health, Food Security, and Green Ecosystem</p> <p>Urban ecosystems, rich in biodiversity and crucial for climate change adaptation and mitigation, are significantly impacted by climate change and urbanization. Key threats include competition from non-native species, rising sea levels affecting salt marshes, drought impacts on wetlands, and shifting species' phenology due to more frequent early springs.</p>	Ramalis Sobandi, Ph.D (Tunas Nusa Foundation)

Speakers & Moderators are in confirmation



Rundown

Time	Duration	Activity	
		<p>Governance and Collaboration</p> <p>Addressing urban challenges and opportunities demands strong governance, improved planning, and effective management, with a shift toward people-centered policies and broader integration of environmental concerns to enhance outcomes and build sustainable cities. (good governance principle).</p>	<p>Rita Padawangi, Ph.D, (SUSS Singapore)</p>
		<p>Disaster, Safety, and Economic Resilience of a City</p> <p>Intensive urban growth strains resources increases poverty as local governments struggle to provide services, and exacerbates pollution, which harms public health.</p> <p>Concentrated energy use, automobile emissions, and uncollected waste worsen air and water quality, while urban development heightens environmental risks like flash flooding. Pollution, habitat loss, and physical barriers also degrade urban tree cover and harm wildlife.</p>	<p>Emin Yahya Mentese, Ph.D (Anofa Engineering, Planning, and GIS, Turkey)</p>
14.30 - 15.30	60'	<p>Panel 2. Practices and Experiences</p>	<p>Moderator:</p> <p>Dr. Budiati Prasetiamartati (Konservasi Indonesia)</p> <p>Discussant:</p> <p>Judicaelle Dietrich (France) Moch. Donny (SAPPK, ITB)</p>
		<p>Community Initiatives and Experimental Research on Climate Change and Urban Resilience</p> <p>Community-based initiatives and experimental research is fundamentally relational, creating a synergistic environment where all participants grow and evolve as they collaboratively address community-defined and meaningful problems. Recognizing the need to involve multiple stakeholders as partners in tackling complex social issues reflects a transdisciplinary paradigm that prioritizes innovative and transformative research partnerships with active collaboration from community members.</p>	<p>Karsten Winnemuth (Connecting Ecosystem, Germany)</p>



Rundown

Time	Duration	Activity	
		<p>Regulation and Good Governance</p> <p>Practice on Climate Change The demand for swift, sustainable climate change solutions can be met through regulatory governance, which relies on active collaboration between the State and citizens. Effective strategies depend on citizen participation in political administration, and in today's era of transparency, citizens can influence the State and help establish public authority when they have the power to engage in elections, policy-making, and supervision</p>	<p>Nuket Ipek Cetin, Ph.D (Gebze Technical University, Turkey)</p>
		<p>The Regional Ecosystem and Urban Biodiversity</p> <p>While urban green spaces are still often viewed through the lens of patch-matrix concepts, significant progress has been made in understanding spatial heterogeneity at multiple scales and integrating it into biodiversity research. Urban characteristics like city size, age, and location significantly influence biodiversity, affecting taxonomic richness, species abundance, and the presence of threatened species. The surrounding species pool shapes a city's native biodiversity, and its context, including climatic zone and human adaptations, strongly impacts biodiversity responses to urbanization. Moreover, a city's age influences species diversity through local colonization and extinction dynamics.</p>	<p>Angga Dwiartama, Ph.D ITB, Indonesia</p>
		<p>The Impartial Knowledge Production and Distribution</p> <p>Knowledge production, distribution, and utilization can no longer follow conventional patterns given the rapid pace, complexity, and interconnectedness of natural, social, and geopolitical phenomenon. This pattern is sometimes also inequitable in the process of knowledge production and distribution. The urgent need for knowledge and innovation development requires openness, inclusivity and novel methods to ensure that knowledge evolves to meet the real needs and goals of society.</p>	<p>Prof. Dominique Lamli, FOA-FLUX, Switzerland</p>

Speakers & Moderators are in confirmation



Rundown

Time	Duration	Activity	
15.30 - 16.00	30'	<p>Roundtable Conclusion</p> <p>The concluding session aims to summarize the results of the two discussions and enhance them by identifying opportunities for deeper understanding and collaboration on climate change adaptation and mitigation across regions and interests. Upon completing all webinar sessions, participants and presenters' views and insights will be synthesized into a problem map, identifying key issues for stakeholders to address collaboratively across various levels. The map will also include recommendations for follow-up actions, such as expanding collaboration to connect the dots, optimizing global efforts, and prioritizing and sharing responsibilities among regions and actors.</p>	<p>Moderator:</p> <p>Ramalis Sobandi, Ph.D, Tunas Nusa Foundation, Indonesia</p>

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*Committee**

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Angga Dwiartama
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