

International Forum on Smart Cities: Housing for Future



 **28 Feb 2024 (WED)**
8:30 am (MYT)

EXECUTIVE SUMMARY

In an era defined by urbanization, our cities are at a crossroads. At the Smart City – Housing for Future forum, we'll chart the course for the future of housing in smart cities. Imagine a city where your home is not just a place to live but a dynamic, responsive entity that caters to your needs and contributes to the greater good. Together, we'll examine the pivotal role that government policy & incentives, innovation & technology, sustainability & impact, play in building communities that are not just smarter but also more resilient and equitable. Our exploration into smart housing solutions is not just about gadgets and gizmos; it's about creating cities that are more livable, sustainable, and responsive to the needs of their residents

OBJECTIVES:

- To knowledge exchange, Facilitate the sharing of insights, research findings, and best practices related to smart housing in the context of future cities.
- To establish a platform where Asia Pasific university partners can collaboratively discuss and showcase their ongoing efforts in the realm of Smart City development, encompassing various aspects such as design, expectations, financial planning, regulatory frameworks, the creation of new smart cities, and the transformation of existing urban areas into smart cities. The primary focus will be on Smart City initiatives within Asia Pasific nations.

KEYNOTE SPEAKER PROFILE

YBHG. DATIN PADUKA TPR. NORAINI ROSLAN

IMdm. Noraini Roslan is the Datuk Bandar of Klang Royal City Council. She is the First Lady Mayor of Klang. Klang has a population of around 1.0 million people and house of the biggest port in Malaysia. Klang is the Royal Town of the State of Selangor.

She was the President of the PEMSEA Network of Local Governments for Sustainable Coastal Development (PNLG), whose role is to promote Sustainable Development Strategies and actions including for the Seas of East Asia (SDS-SEA) on pollution reduction, waste management and environmental preservation. Mdm. Noraini Roslan holds a Masters in Regional Planning from the University of North Carolina at Chapel Hill, North Carolina, U.S.A, and Bachelor of Science (Magna cum Laude) Urban and Regional Planning from East Carolina University, North Carolina, U.S.A. She has been mayors for 3 municipalities / city since 2011 namely Kuala Selangor District Council, Hulu Selangor District Council and the Mayor of Subang Jaya City Council.

Mayor Noraini Roslan has 20 years diverse experience in urban planning and her determination in sustainable development has bring her to the national & International level as presenter such as; The Localise SDGS Final Conference(UCLG ASPAC) (2021), UCLG Executive Bureau Under The Title : Care At The Heart Of Local Service Provision For An Inclusive Recovery (2021), 10th World Urban Forum Abu Dhabi (2020), Inclusive City Investment Agenda : Developing Countries Urbanization Challenge (UN), Malaysia Urban Forum (2020), Smart Cities Live 2020 - Cities Are Listening : Dialogue On A Smart Recovery In The Post Cov id -19 (UCLG), Gender Responsive and Participatory Budgeting Mayors Forum (URBANICE), 5th Asean Mayors Forum 2019 (Bangkok), Asia Pacific Urban Forum 7 (APUF7) 2019 (Penang), Hamamatsu International Summit on Intercity Collaboration 2019 (Hamamatsu City, Japan), 1st UN Habitat Assembly (UN Habitat) (Nairobi, Kenya) (2019), Localizing The Sustainable Development Goals (UCLG) (Seville, Spain) (2019) and Malaysia Urban Forum (Kuala Lumpur).

On January 2022, Mayor Noraini Roslan was invited virtually to be one of the speaker in the Asean Mayors Forum, Global-Regional Coherence Asia -Pasific Region (Asean City Leaders Dialogue) in Jakarta and Feminist Municipalism: Empowering Women Local Leaders as Pathway for The Achievement of The SDGs (66th Commission on the Status of Women) through webinar online in Madrid. In June 2022, she has received the invitation to join the World Urban Forum 11th in Poland.

In September 2022 she was one of the panel for the Global South-South Development Expo 2022 that was held in Bangkok, Thailand by the UN-Habitat. On the 6th October 2022, Mayor Noraini Roslan was invited to be one of the speaker for the 6th Selangor ASEAN Business Conference 2022 that was held in Kuala Lumpur Convention Centre, Malaysia.

ASEAN Mayors Forum (AMF) Consultative Meeting 2022 that was held on October 2022 Hosted by East Java Province, Indonesia have invited Mayor Noraini Roslan to be one of the speaker.

Her extensive experience and knowledge has made her to be one of the 7th United Cities and Local Governments (UCLG) World Congress-Daejeon Korea 2022 speakers and panelists in the discussion held throughout the congress from 10th October 2022 -14th October 2022.

Annual Forum PEMSEA Network of Local Government (PNLG) 2022 that was held in Tangerang, Indonesia has Invited Mayor Noraini Roslan as one of the speaker in the Forum that was held in October 2022.

In March 2023, her extensive experience continues to be appreciated when she was invited by The International Observatory of Participatory Democracy (IOPD), UCLG Women and the City of Rio de Janeiro to be one of the speaker for the event in a virtual session. With great honor, once again she was invited to the First Session of The 2023 UCLG ASPAC Executive Bureau Meeting 'Inter-Municipal Cooperation for Resilient and Sustainable Cities' that was held in Kathmandu, Nepal. She was one of the speaker for the three days meeting started on 11th April 2023 - 13th April 2023.



SPEAKER'S PROFILE

TPR. CHE RASID BIN CHE SEMAN

TPr. Che Rasid bin Che Seman is the Director of Central Zone Project Office of the Federal Department of Town and Country Planning Malaysia (PLANMalaysia) - a department under the Ministry of Housing and Local Government that oversees and regulates land use planning and development in Malaysia.

With 30 years of working experience in PLANMalaysia, he is responsible for the formulation and implementation of national policies and guidelines related to town and country planning and the formulation of various Development Plans (Structure and Local Plans) for the physical development of the country.

In line with the emerging need to manage cities in smarter ways, he plays an important role in overseeing and mainstreaming the Smart City Agenda as an advisory role to 155's Local Authorities in preparing the Smart City Blueprint/Action Plans, developing National Smart City Platform under Malaysia Urban Observatory for data sharing and data integration on Big Data Analytics, developing Smart City Standards and Smart City Recognition mechanism to recognize the efforts of Local Authorities in implementing Smart Cities apart from organising smart city awareness programs locally and internationally.



ASSOC. PROF. TPR. MOHAMED JAMIL BIN AHMAD

Mohamed Jamil bin Ahmad was born in Padang Rengas Perak in 1953 and went to King Edward VII primary and secondary school Taiping. He graduated with a Bachelor of Geography (Hons) from University of Malaya in 1976 and furthered his Master Degree in Urban and Regional Planning from University of Strathclyde, Glasgow in 1979.

The recognition and his immense knowledge on town and country planning is due to his involvement from 1979 till 2005 as Deputy Director of Training Department, Director of Town Planning Department in Ipoh Municipal Council, Assistant Manager for Ipoh Structure Plan Unit, Director in Department of Town and Country Planning in Perlis and Penang, Deputy Director in Spatial Department, Principal Assistant Secretary in Federal Territory Development and Klang Valley Planning Division in Prime Minister 's Department and Director for R&D Department PlanMalaysia. He was also involved in the campus planning of University of Kebangsaan Malaysia Sabah, preparation of planning and development guideline for Malaysia condominium, planning for sports complex in Kangar, NKRA lab member on crime reduction and had involved in vast research of land planning and development. He was a NKRA lab member in Crime and a Senior Vice President in Iskandar Regional Development Authority prior to his retirement. Currently, he is a visiting lecturer at the Dept of Urban & Regional Planning Faculty of Built Environment University of Malaya. He is a member of the Town Planners Board as well as the Malaysian Institute of Planners's Council of Advisers (2017-2019).

He was also the Chief Editor to many planning journals including the Coffee Table Book entitled "Taiping- Life and Soul" published by the Plan Malaysia or Federal Town and Country Planning Department in 2005.



SPEAKER'S PROFILE

DR. SASMOKO

Sasmoko is a postdoctoral fellow under the guidance of Prof. Chung-Jen Tseng at the Graduate Institute of Energy Engineering, National Central University (NCU), Taiwan. He holds a PhD from NCU. His research interests include pyrolyzer, fuel cell, water electrolyzer, and steam reformer. He is currently working in an energy technology laboratory covering various low-carbon technologies. In 2018, his lab received a project to plan a white energy house, and it was successfully built in 2019 at the Mechanical Engineering, NCU. Fuel cells, photovoltaics, and steam reformers are installed to meet electricity demands. This house design has become one of the campus icons and has also been applied to remote areas in Taiwan.



IR. DR. MARANATHA WIJAYANINGTYAS

Maranatha Wijayaningtyas is an Assistant Professor at the best private technology university in East Java, Indonesia, namely the National Institute of Technology (ITN) Malang and is also a construction and property business professional with over twenty years of experience. As a lecturer, Maranatha has done a lot of research, published in reputable journals, and has been active as a speaker at international forums since 2011. Meanwhile, as a professional who specialises in project management and property appraisal, she is also responsible as an appraiser and assessor in training related to construction management, property valuation and digital marketing. Maranatha is a powerful force in the workplace and uses her positive attitude and tireless energy to encourage others to work hard and succeed.



PROF. SARA J. WALKINSON

Sara is a chartered building surveyor and Australia's first female professor of property. She is a member of RICS (Royal Institution of Chartered Surveyors) and API (Australian Property Institute). Sara worked in professional practice in the UK from 1984 to 1991 before transitioning to academia. Her transdisciplinary research program sits at the intersection of sustainability, urban development and transformation, with a focus on green cities and preparing our urban environments for the challenges of climate change. Recent projects include development of a STAR (Sustainable Temporary Adaptive Reuse) Toolkit, the use of virtual reality to assess customer willingness to invest in residential green infrastructure, the development of a prototype wallbot to inspect and monitor high-rise green walls, and the performance evaluation of hempcrete wall panels. Sara engages in trans-disciplinary research with colleagues from engineering, science, health, and business as well as built environment disciplines. She has led multi-national and national project teams. Sara is currently Visiting Professor/Adjunct Professor Massey University New Zealand, School of Built Environment 2022 -24, Visiting Professor University of Technology Malaysia (UTM) - 2023 and Visiting Professor Royal Institute of Technology Stockholm (KTH) 2022-2024.



SPEAKER'S PROFILE

PROF. IR. DR. KHOO HOOI LING

Prof. Khoo Hooi Ling is currently holding the Professor position in the Department of Civil Engineering of Lee Kong Chian Faculty of Engineering and Science in the Universiti Tunku Abdul Rahman (UTAR) Sungai Long Campus. She has more than 20 years of experience in the traffic engineering and transportation related studies. She obtained her Bachelor and Master degrees in Civil Engineering from the University of Malaya and she earned her PhD degree from the National University of Singapore. Prof. Khoo's research interest is in transportation system optimization, travel demand management, travel behaviour modelling, public transportation, and traffic safety. She has more than 100 publications in refereed journals and conference proceedings. She is a Professional Engineer with Practicing Certificate recognized by the Board of Engineer Malaysia. Prof. Khoo has involved in many consultancy projects that relate to traffic impact assessment, traffic simulation and modelling, and township masterplan assessment. She is currently the Advisor of the Institution of Engineers Highway and Transportation Engineering Technical Division, and a fellow member of IEM and AAET.



MS. XU TING

Ting Xu, Lecturer/Engineer, is currently employed at Xi'an Eurasia University as a lecturer specializing in real estate. She obtained her Master's degree from Nottingham Trent University in the United Kingdom and is currently pursuing a Ph.D. at Malaysia University of Science and Technology, focusing on real estate research. With a background of 5 years of service at a Fortune Global 500 real estate development company, she has actively participated in and led numerous large-scale real estate development projects. Her primary research areas include tourism real estate, customer preferences, and sustainable development in the real estate sector.



ASSOC. PROF. SR. DR. CHOONG WENG WAI

Sr. Dr. CHOONG WENG WAI is an Associate Professor at the Department of Real Estate, Faculty of Built Environment and Surveying, Universiti Teknologi Malaysia (UTM). He is a Registered Valuer, Registered Estate Agent, and Registered Property Manager, all of which are endorsed by the Board of Valuers, Appraisers, Estate Agents, and Property Managers (BOVAEP) Malaysia. His research niche focuses on behavioural studies and the environment. He has been appointed as the team leader by the United Nations Development Programme (UNDP) for the development of Environmental Performance Index for Vietnam; Project leader for development of nationwide guidance document and nudge guidelines to conduct effective environmental program for the Department of Environment (DOE) Malaysia, Ministry of Environment and Water (KASA); Technical committee to establish Environmental Performance Index (EPI) for Malaysia by the Ministry of Natural Resources and Environment (NRE); Sub-team leader and subject matter expert for the development of Kuala Lumpur Low Carbon Blueprint (community and environmental behaviour section) and National Sewerage Action Plan (Public Awareness section), he is also the co-investigator for the Global Challenges Research Fund (GCRF) Water Security and Sustainable Development Hub project at Malaysia. Choong's contributions have been recognised by industry and academia, and he has been named as the Top Research Scientist Malaysia (TRSM) by the Academy of Science Malaysia and a Royal Institution of Surveyor Malaysia (RISM) Excellence Award for Contribution towards Sustainability.



Event Schedule

8.00am – 8.30am	Participants attendance (Sponsorship Montage)
8.30am – 9.00am	Welcome Speech by Organising Chairperson (Head of Master Programme), Sr Dr Elia Syarafina binti Abdul Shakur (Video Recorded); and Sponsorship Montage
9.00am – 9.10am	Opening Speech by UTAR Vice President (R&D and Commercialisation), Prof Ts Dr Faidz bin Abd Rahman
9.10am – 9.30am	Keynote Speaker by YBhg. Datin Paduka TPr. Noraini binti Roslan (Datuk Bandar, Majlis Bandaraya Diraja Klang)
9.30am – 9.40am	Group Photo Promotional Program (Master of Real Estate Development [MRED])
9.40am – 10.20am	Session A: Government Policy and Incentive 9.40am – 10.00am Speaker 1: TPr. Che Rasid Che Seman (Director of Central Zone Project Office, PLANMalaysia (Ministry of Housing & Local Government)) Title: Smart Housing in Smart Cities: Transforming Urban Living 10.00am – 10.20am Speaker 2: Assoc Prof TPr Hj. Mohamed Jamil (Universiti Malaya, Malaysia) Title: Smart Housing in the Malaysian Context: Reality Check Moderator: Prof. Sr. Dr. Anuar bin Alias
10.20am – 10.30am	Q&A Session and Summary by Moderator

<p>10.30am – 11.10am</p>	<p>Session B: Innovation and Technology</p> <p>10.30am – 10.50am Speaker 1: Dr Sasmoko (National Central University, Taiwan) Title: CFD Analysis of a National Central University White Energy House</p> <p>10.50am – 11.10am Speaker 2: Ir Dr Maranatha Wijayaningtyas (Institut Teknologi Nasional, Malang, Indonesia) Title: Smart Home with IoT-Based Application: Continuing Trends and Challenges in Indonesia</p> <p>Moderator: Dr. Goh Hong Lip</p>
<p>11.10am – 11.20am</p>	<p>Q&A Session and Summary by Moderator</p>
<p>11.20am – 11.25am</p>	<p>Break Promotional – Sponsorship</p>
<p>11.25am – 12.05pm</p>	<p>Session C: Sustainability and Impact</p> <p>11.25am – 11.45am Speaker 1: Prof Sara J. Wilkinson (University of Technology Sydney, Australia) Title: Resilient, Smart, Sustainable & Affordable: Housing for the Future.</p> <p>11.45am – 12.05pm Speaker 2: Ir. Prof Dr Khoo Hooi Ling (Universiti Tunku Abdul Rahman, Malaysia) Title: Shared Space Street as An Urban Design Concept Promoting Active Transportation</p> <p>Moderator: Mr. Low Chin Kian</p>

12.05pm – 12.15pm	Q&A Session and Summary by Moderator
12.15pm – 12.55pm	<p>Session D: Consumer Perspectives</p> <p>12.15pm – 12.35pm Speaker 1: Ms Xu Ting (Xi'an Eurasia University, China) Title: Urban Digital Twin Technology Based On Customer Application</p> <p>12.35pm – 12.55pm Speaker 2: Assoc Prof Sr Dr Choong Weng Wai (Universiti Teknologi Malaysia, Malaysia) Title: Exploring Consumer Choices: Determinants Impacting the Selection of Smart and Sustainable Housing Options</p> <p>Moderator: Sr Dr Chin Hon Choong</p>
12.55pm – 1.05pm	Q&A Session and Summary by Moderator
1.05pm – 1.15pm	Closing Remarks by UTAR Representative, Dean, Dr Pok Wei Fong
1.15pm – 1.30pm	Sponsors' Quiz
1.30pm	End

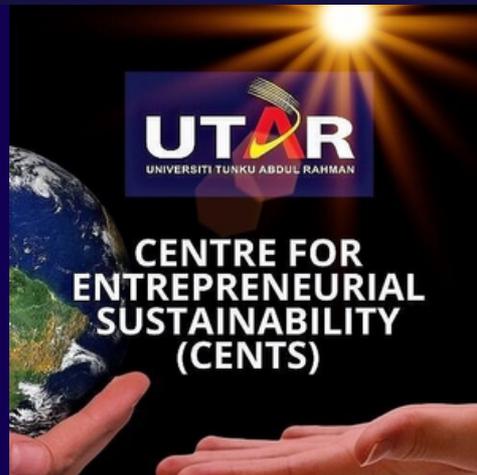
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EVENT SPONSORSHIP



Mr Lim Kok Kuan
MRED student