



21 - 22 SEPT 2021 | 9am - 5pm (GMT+8)

REIMAGINING CITY TRANSFORMATION



Smart Living



Smart Mobility



Smart Government



Smart Economy



Smart People



Smart Digital Infrastructure



Smart Environment

Co-Organised by:



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OVERVIEW

Reimagining City Transformation

Cities around the world are reimagining the future, using the pandemic as an opportunity to come up with urban solutions that will make live better and more prepared for crisis. They are aspiring to create greener spaces in their urban areas, improve connectivity, reduce congestion, focus on sustainability, be more adaptive and smarter with technology and materials.

As people have been forced inside, out of schools and workplaces as well as away from one another, new challenges have been presented. Life may not return to the way it once was. Cities will

need to adapt to a new reality and there are no universal solutions.

The hosting of the fourth edition of Cities 4.0 will once again provide the governments, municipalities, urban planners, developers, urban futurists, solution providers and innovators an interactive platform converge and discuss on methods and best practices to re-imagine our fundamental relationship with the cities, the opportunities to work outside their normal methods.

Key themes of Cities 4.0

- Rethinking Urban Development In A Post Pandemic World
- High Density Development With Low Density Activities – The Way Forward
- Edge-Computing-Enabled Smart Cities: Reshape The City Experience
- From Smart Cities To Connected Communities
- Harnessing Technologies To Transform Disaster Readiness
- Development Of Greener And Cleaner Cities
- New Traffic Patterns And Healthy Mobility
- Decoding The Low-Touch Economy
- Strategies In Developing Secondary Cities Into Smart City



KEY ELEMENTS OF SMART CITIES



SMART SOLUTIONS

E-Governance and Citizen Services

- 1 Public Information, Grievance Redressal
- 2 Electronic Service Delivery
- 3 Citizen Engagement
- 4 Citizens – City's Eyes and Ears
- 5 Video Crime Monitoring

Waste Management

- 6 Waste to Energy & fuel
- 7 Waste to Compost
- 8 Waste Water to be Treated
- 9 Recycling and Reduction of C&D Waste

Water Management

- 10 Smart Meters & Management
- 11 Leakage Identification, Preventive Maint.
- 12 Water Quality Monitoring

Energy Management

- 13 Smart Meters & Management
- 14 Renewable Sources of Energy
- 15 Energy Efficient & Green Buildings

Urban Mobility

- 16 Smart Parking
- 17 Intelligent Traffic Management
- 18 Integrated Multi-Modal Transport

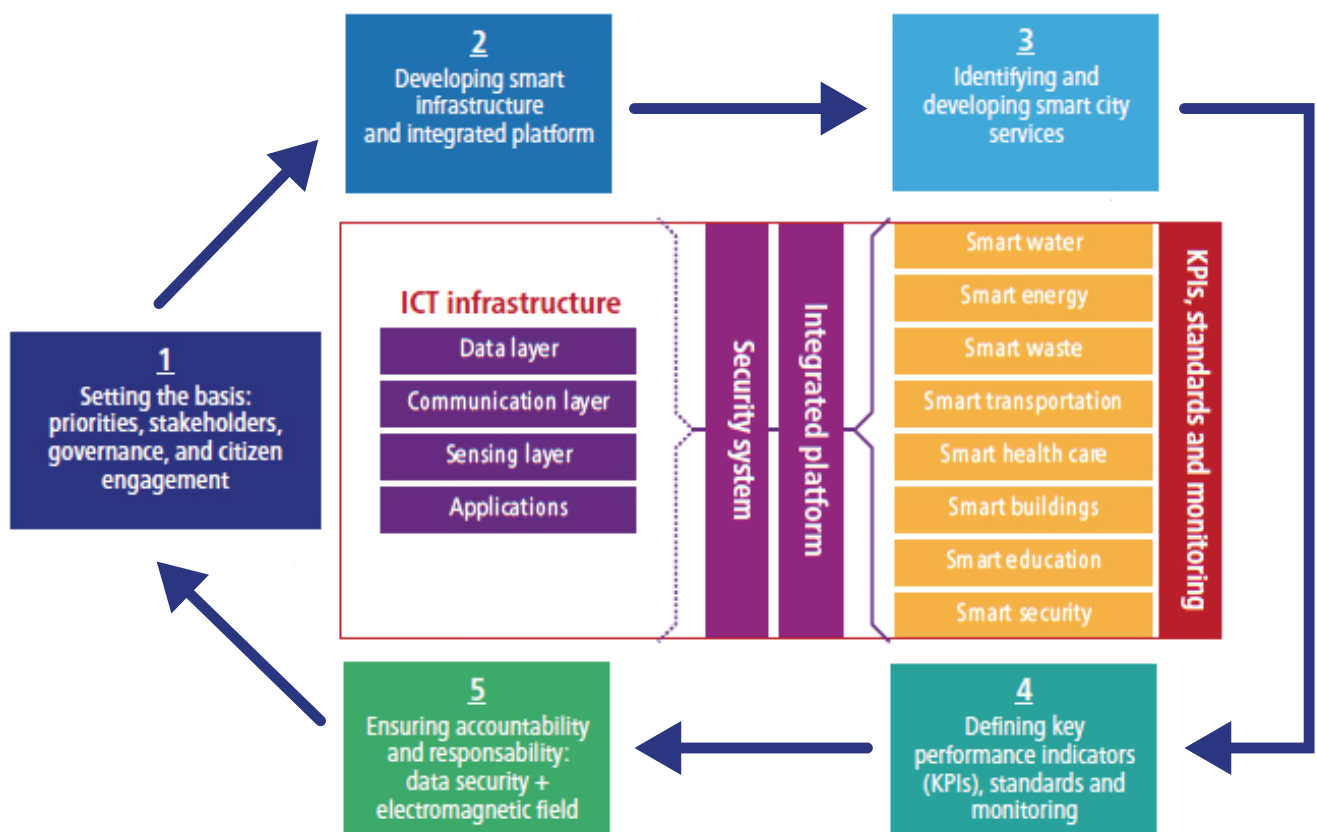
Others

- 19 Tele-Medicine & Tele Education
- 20 Incubation/Trade Facilitation Centers
- 21 Skill Development Centers

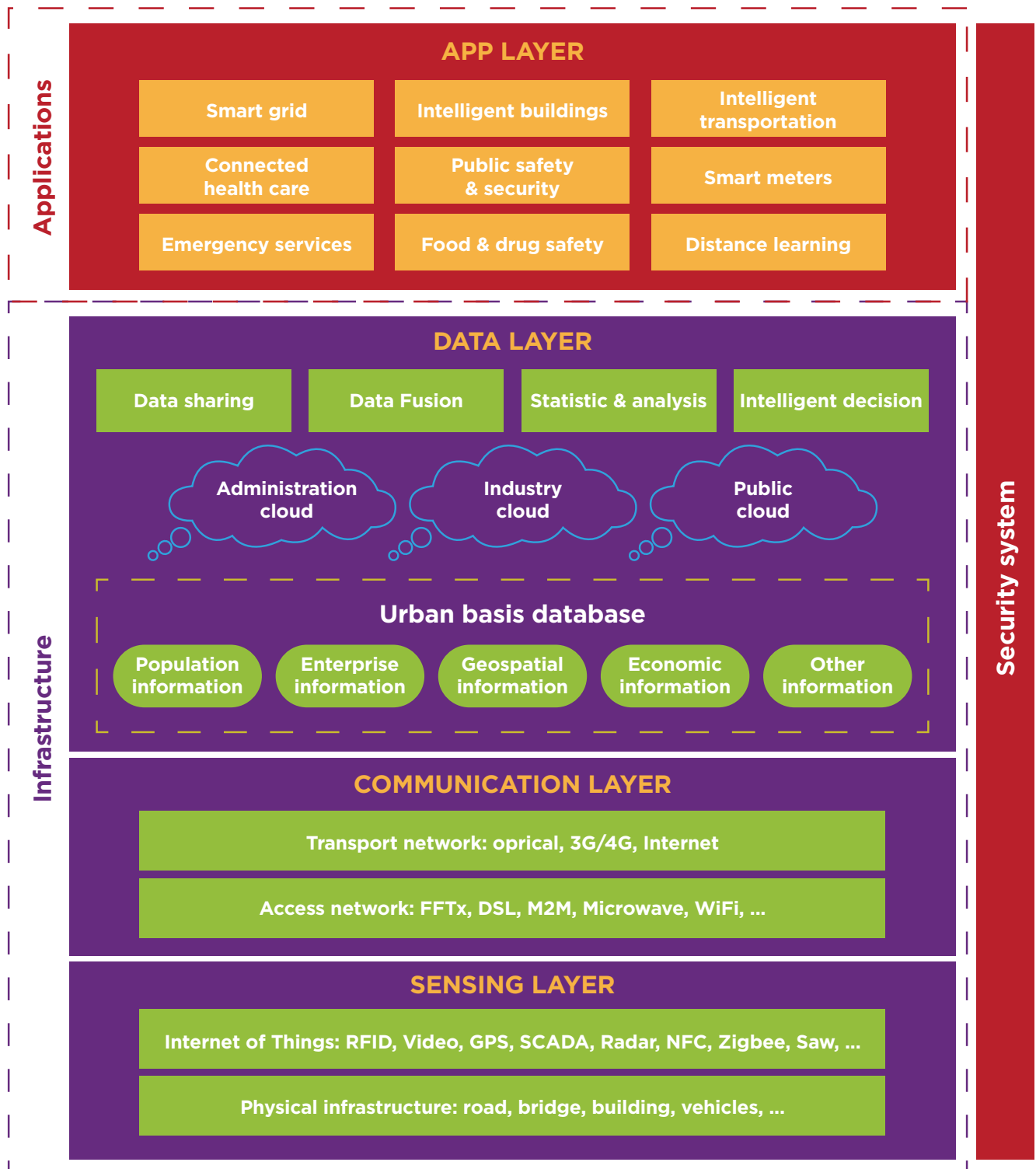
SMART CITY OPPORTUNITIES AND CHALLENGES



SMART CITY FRAMEWORK



ARCHITECTURE OF A SMART SUSTAINABLE CITY



► PROGRAM

DAY ONE : 21 SEPTEMBER 2021, TUESDAY

OPENING CEREMONY

9:00AM	INTRODUCTORY REMARKS Datuk Dr. Abdul Aziz S.A. Kadir, Chairman, Confexhub Group
9:05AM	SPECIAL ADDRESS *Tan Sri Dr. Ahmad Tajuddin Ali, FASc., FIEM, P.Eng., Joint-Chairman (Industry), Malaysian Industry-Government Group for High Technology (MIGHT)
9:10AM	INAUGURAL ADDRESS AND LAUNCH OF CITIES 4.0 2021 CONFERENCE AND EXHIBITION *YB Datuk Hajjah Zuraida Binti Kamaruddin, Minister, Ministry of Housing and Local Government of Malaysia
9:35AM	SPECIAL ADDRESS 1 *YBhg. Datuk Zainal Abidin Bin Abu Hassan, Secretary General, Ministry of Housing and Local Government
10:00AM	SPECIAL ADDRESS 2 *YBrs. Dr. Raslan Bin Ahmad, Senior Vice President, Malaysian Industry-Government Group for High Technology (MIGHT)
10:20AM	MALAYSIA SMART CITIES LEADERS' FORUM *Moderator: Dr. Siti Muhaza Sheikh Zainal, Undersecretary of Policy and Inspectorate Division, Ministry of Housing and Local Governments, Malaysia
11:50AM	End of Session

PLENARY SESSION

The Covid-19 pandemic has transformed the way we live our lives. Physical distancing and isolation, work and study from home, low-touch and contactless services are being practiced across communities and economies; and it is becoming a norm. Cities around the world will need to rethink the methods and principles of designing cities of the future that will be more digitally connected, in order to be more prepared for future crisis; adopting the concept of low density activities, low-touch economy, transition towards greener, smarter and inclusive development move towards self-sufficient neighbourhood.

12:20PM	Plenary Address 1: Rethinking Urban Development in A Post Pandemic World
12:45PM	Plenary Address 2: High Density Development with Low Density Activities – The Way Forward
1:10PM	Plenary Address 3: Inclusive, Green and Smart: A New Urban Paradigm Shift
1:35PM	Plenary Address 4: Implementing Low-Touch Economy: Is Your City Ready?
2:00PM	Plenary Address 5: Implementation of Standards for Smart Cities through Star Rating System
2:25PM	Open Forum: Questions and Answers
2:45PM	End of Session

► PROGRAM

SESSION ONE : FROM SMART CITIES TO CONNECTED COMMUNITIES

As hubs of human activity, interaction and connection, cities around the world have been hit hard by the impacts of COVID-19. The pandemic has resulted us experiencing different level of isolation and lack of connectedness. There is a shift from physical engagement to online space and new challenges have been presented. This Session will look into how cities need to improve connection by strengthening the digital infrastructure to facilitate remote working and schooling, and socio-economic activities as part of the business-as-usual design, development, operation and maintenance of our cities.

3:00PM	Paper 1: Enhancing City Performance and the Wellbeing of Citizens through Ubiquitous Connectivity
3:25PM	Paper 2: A Sensable City: Deployment of Mobile Sensors for Urban Monitoring
3:50PM	Paper 3: Seamless Virtual Network for Undisrupted Continuity of Business
4:15PM	Paper 4: End-to-end Connectivity Solutions for Remote Schooling
4:40PM	Open Forum: Questions and Answers
5:00PM	End of Session

► PROGRAM

DAY TWO : 22 SEPTEMBER 2021, WEDNESDAY

SESSION TWO: HARNESSING TECHNOLOGIES TO TRANSFORM DISASTER READINESS

In an era of sudden terror attacks, pandemics, and natural disasters, countries must remain alert to counter any emergencies, which could bring devastating consequences. This session will look into how cities use emergency management strategy to better protect the people and mitigate emergencies. The session will also discuss on some of the technological advances including remote sensing, usage of drone, big data and other tools that governments could review and adopt into their response strategies.

9:00AM	Paper 5: Integrating Advance Technologies for An Effective Disaster Recovery Plan
9:25AM	Paper 6: Mitigating the Impacts of Disaster with Remote Sensing
9:50AM	Paper 7: Deployment of Drones for Real-time Data Collection, Monitoring, Search and Rescue
10:15AM	Paper 8: Tackling Flood and Water Scarcity with Sponge City Technology
10:40AM	Open Forum: Questions and Answers
11:05AM	End of Session

*This Program is subjected to change and for updated program, please logon on to www.cities4pointzero.com Program @ 25 January 2021

► PROGRAM

DAY TWO: 22 SEPTEMBER 2021, WEDNESDAY

SESSION THREE: GREEN URBANISM FOR A GREENER FUTURE

Climate change is expected to bring even more challenges - physical, environmental and health-related - in the coming years. Cities around the world are reimagining the future, using the pandemic as an opportunity to come up with urban solutions that will create liveability in the context of healthier lifestyles, economic viability and sustainable for their citizens. This session will look into sustainability from the angle of efficient usage of natural resources, urban farming for food security, low-carbon economy and circular-economy.

11:20AM	Paper 9: Balancing Urban Development and Efficient Use of Natural Resources
11:45AM	Paper 10: Expanded Green Network for Urban Farming for Advancing Food Security
12::10PM	Paper 11: Developing Cities that Recycle, Manage Waste and Use of Renewables
12:35PM	Open Forum: Questions and Answers
12:55PM	End of Session

SESSION FOUR: NEW TRAFFIC PATTERNS AND HEALTHY MOBILITY

Many cities seen a significant reduction in vehicles on the road since the pandemic. Yet, there has been a surge in car rental and e-hailing, which points to an uptick in car commutes by those who fear contracting the virus on public transport. This trend threatens to undo the painstaking efforts to encourage usage of public transportation in order to limit inner-city air pollution due to car travel. This session will discuss on new and innovative mobility modes including non-motorised connectivity, mixed-used streetscapes, pedestrian-scale street, driverless and autonomous transportation system and green transportation infrastructure.

1:20PM	Paper 12: Assess and Communicate Traffic Flow, Congestion and Safety through AI and Sensors-enabled Devices
1:45PM	Paper 13: A Move to Driverless and Autonomous Public Transportation
2:10PM	Paper 14: Modifying Existing Road Infrastructure to Facilitate Active Transportation
2:35PM	Open Forum: Questions and Answers
2:55PM	End of Session

► PROGRAM

SESSION FIVE: DECODING THE LOW-TOUCH ECONOMY

Even if the world returns to a more familiar state after the end of the pandemic, contactless and low-touch economy model is there to stay and will influence the way we do business. This session will address how e-commerce, delivery-economy, gig-economy and last-mile ecosystem will be the contributor to economic resiliency of a smart city

3:10PM	Paper 15: Making Cashless Economy A Reality in Smaller Cities: The Practical Applications
3:35PM	Paper 16: Enriching E-Services with Artificial Intelligence for Customised and Enhanced Experiences
4:00PM	Paper 17: Driving Growth in Retail Businesses with Low-Touch Technologies
4:25PM	Paper 18: On-demand Fleet Management Solutions: Empowering Low-touch Economy
4:50PM	Open Forum: Questions and Answers
5:05PM	INDUSTRY LEADERS FORUM
6:05PM	CITIES 4.0 CONFERENCE 2021 ENDS

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REASONS WHY YOU SHOULD NOT MISS THIS



UNDERSTAND THE FUTURE TRENDS

Hear from inspiring urban futurist and business innovators on new technologies & applications



DISTINGUISHED PRESENTERS

Renowned best practitioners, industry leaders and innovators sharing insights



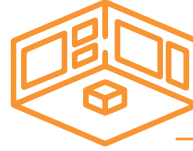
PREMIUM NETWORKING

Unrivalled networking and exchange of experiences across 15+ countries



COMPREHENSIVE CONTENT

Updated information reflecting your most concerned issues in developing smart, resilient and sustainable cities



EXTENSIVE SHOWCASE

Discover new and innovative technologies and services within cities for social good, sustainability, resilience and equity



BUSINESS OPPORTUNITY

Explore potential collaborations and with 300+ local and international industry stakeholders



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Logo & Profile on Digital Program Book	✓	✓	✓	✓	✓
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*Exhibition Package in A Glance

	Premium	Sponsor	Exhibitor
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WHO SHOULD SPONSOR / EXHIBIT:



Smart Government

Web-base / PBT e-governance applications

- HR system
- Finance system
- Acquisition system

Web-base / PBT e-services applications

- Complain system
- Hire purchase system
- License application system

GIS system

- Urban observatory
- GeoTransport
- GeoLicensing
- GeoBuilding
- GeoHealth
- GeoEngineering
- GeoLandscape
- GeoCommunity
- GeoSolidwaste
- GeoCoMs
- GeoEnforcement
- GeoRiver



Smart Mobility

- Pedestrian / bicycle lane including 'Glow in the dark' tracks
- Traffic Management
- Intelligent Transportation Management system (e.g. IT IS, command Centre) to improve standard and efficiencies of traffic flow
- Smart Traffic Light
- Smart Parking
- Parking Guidance Information System
- Parking Apps
- Smart Vehicles
- Electric Vehicle
- Charing Station
- Bike sharing
- Public Transport System
- E-ticketing
- Smart Terminal
- E-hailing
- Transit & Traffic Information System



Smart Digital Infrastructure

- Broadband provision: 4G/5G/WiFi
- In Building Coverage
- Community Internet Centre
- Telco towers
- Internet / communication infrastructure
- Personal Data Protection
- Cyber Security
- Firewall and antivirus applications



Smart Economy

- Digital Economy / cashless payment for public services through
- Online payment
- Mobile apps
- E-wallet
- Kiosk
- Smart Tourism
- Smart tourist Apps; e-ticket; e-book
- Smart Information
- Push Notification
- Live Streaming 360
- Virtual Tourist Guide



Smart Environment

- **Disaster Management**
 - Flood alert system & CCTV
 - Real-time data integration with command centre
- **Drone / UAV**
 - UAV-monitoring mosquito breeding control work for low-cost housing
 - UAV-investigation on illegal landfill and cleaning work planning
 - UAV-investigation on illegal building modification
- **Green space / Tree Planting**
 - Tree Planting campaign
 - Tree Inventory Web Application
- **Low Carbon Initiatives**
 - Car-Free Day
 - Smart Lighting
 - Building Retrofitting Programme
 - Solar building
 - Solar Lighting
- **Green Neighbourhood**
 - Green Neighbourhood Programme
- **Muninets**
 - MUNINet – Sustainable City Indicator
- **Environmental Management**
 - Smart Water Management
 - Air Pollution Monitoring System
 - Environment IoT Sensor
 - Smart Water Meter
- **Sustainable City**
 - Sustainable city planning, design and lifestyle
- **Waste Management**
 - Compost
 - 3R projects
 - Smart Bin
 - Smart Waste Management
 - GPS tracking for Garbage Truck
 - Waste-to-energy
 - Biogas
- **SPAH**
 - Rain Harvesting system



Smart Living

- Safe City / command Center / Integrated Operation Centre
- Safe city program
- CPTED
- CCTV
- Panic button
- Integrated Operation Center / Command Center
- Crime Prevention Community
- Smart sensors for vandalism
- Crime Mapping
- Dashboard / real time data
- Video Analytics
- Digital Health / Medical
- Health Apps (MySejahtera, Covidtrace, e-health, e-clinic)
- Telemedical Apps (geo location facilities, health information, tele-communication)
- Upgrading of Housing / Infrastructure
- Smart Building / Smart Home
- Building Retrofitting (solar, SPAH, LED Light, Park / landscape, 3R, roof top garden)
- Smart home system (sensors, solar panel, smart card access wi-fi, phone coverage, smart TV, CCTV, Home watch by smartphone)
- Smart Pole
- Public Park and Recreation
- Smart Public Park
- Urban Farming
- Solar-powered Farm
- Community Farm



Smart People

- Digital Information Board for public and tourist
- Local Agenda 21 Program
- Community Empowerment program
- Industry engagement program
- Digital library
- Digital learning & education
- LED display billboard

Cambodia • Indonesia • Laos • Malaysia • Myanmar • Philippines • Singapore • Thailand • Vietnam



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Cities 4.0 2021 Secretariat
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Suite 1707, 17th Floor, Plaza Permata, No. 6, Jalan Kampar, off Jalan Tun Razak, 50400 Kuala Lumpur, Malaysia

☎ +603 2771 1668

☎ +603 2771 1669

✉ conference@confexhub.com

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