Cities 4.0

23 - 24 September 2019
Hotel Istana, Kuala Lumpur, Malaysia

UNLOCKING FUNCTIONAL & SUSTAINABLE CITIES

An International Conference & Exhibition
On Cities & Digital Transformation

Fees are HRDF claimable

20 CCD points for CIDB Certified Contractors

9 CPD for Members of The Board of Engineers Malaysia

6 CPD for Members of board of Quantity Surveyor Malaysia

3 CCD for Members of Board of Architects Malaysia

2 CPD for Members of Malaysian Institute of Planners

Co-Organised by:

Confexhub — Thought Leader Network Solutions

HumanLife Advancement Foundation

Knowledge Partners:

FROST & SULLIVAN

THE GLOBAL CATALYST

www.cities4pointzero.com

WELCOME MESSAGE

We can observe today that Smart Cities have entered a new phase. City planners and leaders are not only embracing digital solutions to improve the efficiency and functionality of their cities, but are also taking technologies directly into the lives of their residents thus providing a more liveable and responsive smart space.

In Malaysia, digital solutions have seamlessly moved into the development of our cities. The objective is to develop functional, resilient and sustainable cities that support economic competitiveness, social cohesion and environmental sustainability. If all these are achieved, Malaysians will enjoy a better quality of life.

There are several components to the Smart Cities. One of the goal is to use digital technologies to build a *Smart Environment* that is capable of providing improved and better system of transportation, utilities, education and healthcare that can reach out to all Malaysians.

Then, through *Smart Governance*, we will be embedding ICT such as Big Data, Artificial Intelligence (AI) and Blockchain into our public services that we envisage will increase efficiency, improve transparency and usage of data for better decisions and deliver a better quality of life.

Next is to usher in *Smart Economy* by creating a competitive, innovative and diverse economic market place.

Besides that, the promotion of *Smart Living* is to emphasise on low-carbon, safe and convenient living for all age groups. Finally, all this will lead to a group of *Smart Citizens* who are technologically skilful, flexible and resilient to the challenging circumstances.

I am pleased to note that Confexhub and Human Life Advancement Foundation will once again host the second edition of CITIES 4.0 Conference & Exhibition.

It should be able to provide an excellent platform for authorities and municipalities to enhance their knowledge on digital adoption and transformation.

In turn, global innovative technology and services providers will share their latest innovations and solutions that can help transform and enhance

Malaysian cities. This I believe will facilitate co-operation and partnership building between Malaysian and regional companies.

On that note, I wish to extend a very warm welcome to all exhibitors, delegates and visitors. I hope you will find the CITIES 4.0 Conference & Exhibition fruitful and meaningful.

Thank you.

DR MAHATHIR BIN MOHAMAD
May 2019

OVERVIEW

Unlocking Functional & Sustainable Cities for All

By 2050, over 70% of the world population will be living in cities covering less than 2% of the earth's surface. Never had city been so challenged and the trend continues to grow. And, this rise to many issues like rising inequality, environmental pollution, infrastructure access, traffic congestion, mobility, safety and health of residents are only a few examples.

Cities of the future should be hyper connectives, technologically equipped and smart; to improve the life of its residents. The development and combination of new technologies such as the Internet of Things, Big Data and Artificial Intelligence offer a multi and fast solution to transform cities to promote economic development, improve infrastructure & environment, enhance public services, engage with citizens and optimize costs of managing public assets.

Smart City utilises technologies and connected data sensors to enhance and become powerful in terms of infrastructure and city operations. This includes monitoring and managing of public assets, transportation systems, citizens, power plants, water supplies, information systems, civil bodies, and other community services. As per the new study from Navigant Research, the global market for smart city services is expected to reach $225.5 billion within the next decade.

The hosting of the second edition of Cities 4.0 in Kuala Lumpur is to provide an interactive platform for governments, municipalities, urban planners, developers, urban futurists, solution providers and innovators to converge and make positive impact in shaping resilient and sustainable cities.

Key themes of Cities 4.0

• Digital Transformation – Big Data, IoT, Augmented Analytics, Digital Twins, Cyber Forensic, Privacy, Blockchain
• Smart Governance – e-Government, Data Transparency, Public Safety
• Smart Economy – Cashless City, Machine learning, Smart Space, Connected Factories
• Smart Environment – Infrastructure, Connectivity, Transportation, Water & Waste, Energy
• Smart Living – Smart Home, Ride Share, Autonomous, Smart Wearables, Smart Health
• Smart Citizen – Inclusion, Engagement, Immerse Experience

This will be the best place for city leaders and business innovators to connect and collaborate in planning and implementing successful smart city projects.

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

Endorsed by :

Green Building Council of Sri Lanka

HKGBC 香港綠色建築議會 Hong Kong Green Building Council Limited

Hong Kong Logistics Association 香港物流協會

ippf Independent Power Producers Forum

Malaysia Heavy Construction Equipment Owners' Association

MUDAS Malaysia UAV Drone Activist Society

RSS Robotics Society of Singapore

FMHMBA The Federation Of Malaysia Hardware, Machinery & Building Materials Dealers' Association

Media Partners :

ABC Journals • ABC Malaysia • ABC Research House • asia RESEARCH NEWS • ASIANNGO Funds | Partnerships | Learning • AsiaPacific INFRASTRUCTURE • AUSTRALIAN CYBERSECURITY MAGAZINE • Business1.com • CARGO Connections

CHIEF IT www.chiefIT.me • ChinaGoAbroad Where China Meets the World 中国与世界接轨之此 • CONSTRUCTION SHOWS • DATAFLOQ • Drones & Robotics DRASTIC news.com • freightbook • GEOSPATIAL WORLD

GREEN JOURNAL • GREENMATCH • Greenplus • i-Proclaim.my • Janaloka • MySECURITY MEDIA • OXFORD BUSINESS GROUP

Palindrome • Next Automation Technology • PROJECT CARGO NETWORK • SKYNET • SME • SMART CITIES SURVEILLANCE CCTVBuyersGuide.com • THE PROPERTY TIMES.in www.thepropertytimes.in

Trade Asia www.e-tradeasia.com • TYN MAGAZINE • UFO Universal Freight Organisation

GLOBAL URBANISATION RATE

Almost all population growth in the next 40 years will be absorbed by cities in the developing world

GLOBAL URBAN-RURAL POPULATION BILLIONS

Developed Countries
Developing Countries

Rural
Urban
Rural
Urban

10
8
6
4
2
0

1950 1960 1970 1980 1990 2000 2010 2020 2030 2040

GLOBAL URBANISATION %

100

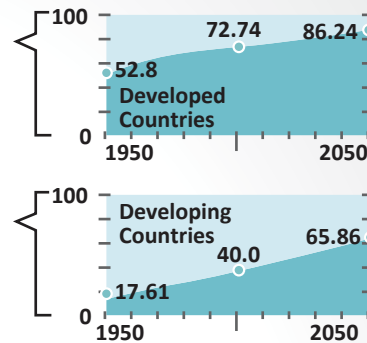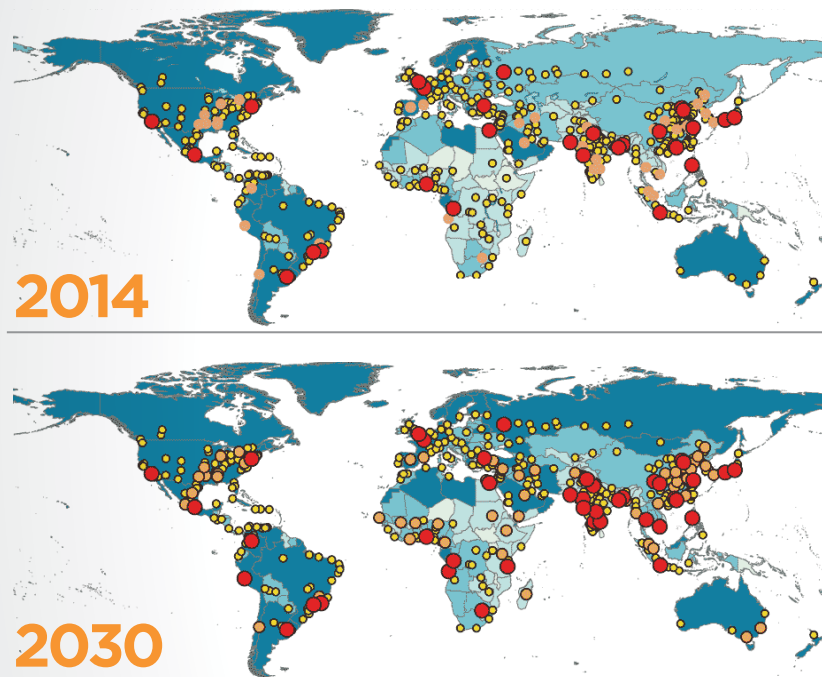72.74   86.24

52.8
Developed
Countries

0
1950   2050

100

Developing
Countries

40.0   65.86

17.61

0
1950   2050
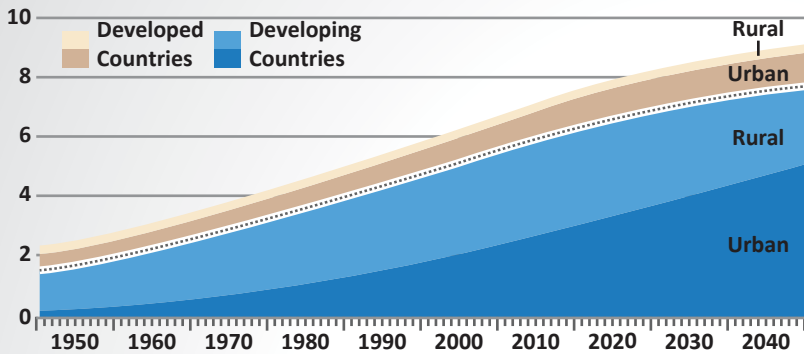
WORLD'S LARGEST URBAN CENTERS

2014

2030

DISTRIBUTION OF WORLD URBAN POPULATION BY AREA (%)

1950   2009   2050

60
50
40
30
20
10
0

Africa: 4, 12, 20
Asia: 31, 50, 54
Europe: 38, 16, 9
Latin Am. & Caribbean: 9, 13, 10
North America: 15, 8, 6
Oceania: 1, 1, 1

Percentage urban

0-25%   25-50%   50-75%   75-100%

City population Millions

1-5   5-10   +10
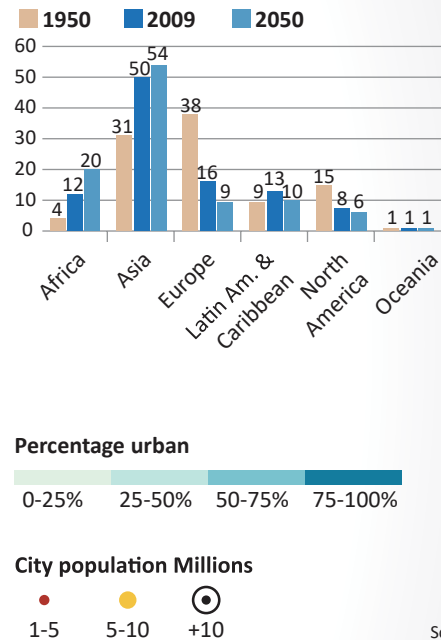
Source: UN DESA

RURAL TO URBAN MIGRATION (1950 TO 2100)

71% — 29% — 1950
62% — 38% — 1975
53% — 47% — 2000
42% — 58% — 2025
33% — 67% — 2050
24% — 76% — 2075
16% — 84% — 2100

RURAL   URBAN
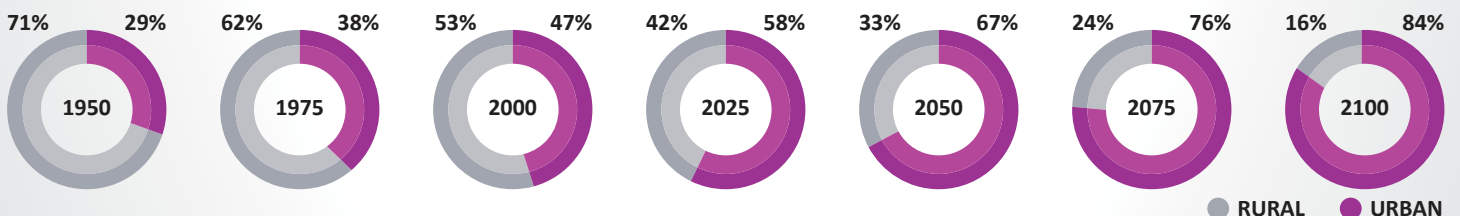
A WORLD IN TRANSITION

2.5 BILLION Population increase in African cities between 2010 and 2100

1.5 BILLION Population decrease in rural parts of Asia between 2010 and 2100

MEGACITIES (10+ MILLION) OVER TIME

1970 (2)
1990 (10)
2011 (23)
2025 (37)
2030 (43)

Source: UN DESA

SMART CITIES MARKET INFO

A big market, 3.3 Trillion $ in 2025

Smart City Market by Segments, Global, 2025

Smart Building
Market Value: $248.65 billion
CAGR: 4.1% (2012 – 2025)
China and India are the fastest growing market by Japan and Korea

Smart Healthcare
Market Value: $348.51 billion
CAGR: 8.8% (2012-2025)
North America to dominate the smart healthcare market with more than 50% share by 2025, followed by Europe

Smart Transportation
Market Value: $ 351.13 billion
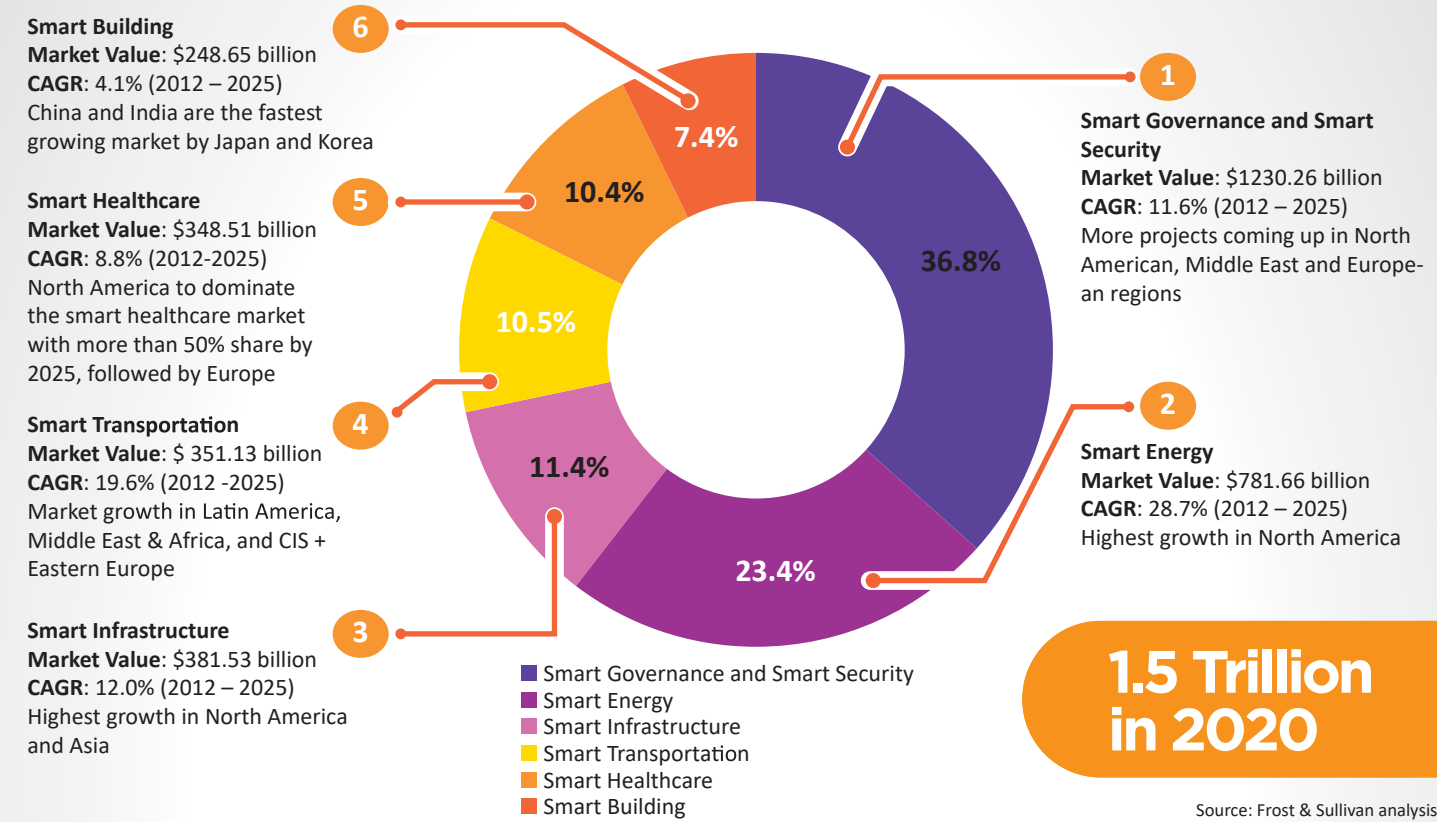**CAGR**: 19.6% (2012 -2025)
Market growth in Latin America, Middle East & Africa, and CIS + Eastern Europe

Smart Infrastructure
Market Value: $381.53 billion
CAGR: 12.0% (2012 – 2025)
Highest growth in North America and Asia

Smart Governance and Smart Security
Market Value: $1230.26 billion
CAGR: 11.6% (2012 – 2025)
More projects coming up in North American, Middle East and European regions

Smart Energy
Market Value: $781.66 billion
CAGR: 28.7% (2012 – 2025)
Highest growth in North America

Pie chart percentages: 36.8%, 23.4%, 11.4%, 10.5%, 10.4%, 7.4%

Legend:
- Smart Governance and Smart Security
- Smart Energy
- Smart Infrastructure
- Smart Transportation
- Smart Healthcare
- Smart Building

1.5 Trillion in 2020

Source: Frost & Sullivan analysis

ASEAN SMART CITIES NETWORK Pilot Cities

Mandalay
Nay Pyi Taw
Yangon
Ha Noi
Luang Prabang
Vientiane
Da Nang
Bangkok
Chongburiuri
Siem Raep
Battambang
Phnom Penh
Ho Chi Minh City
Phuket
Manila
Cebu City
Davao City
Kota Kinabalu
Bandar Seri Begawan
Kuala Lumpur
Johor Bahru
Singapore
Kuching
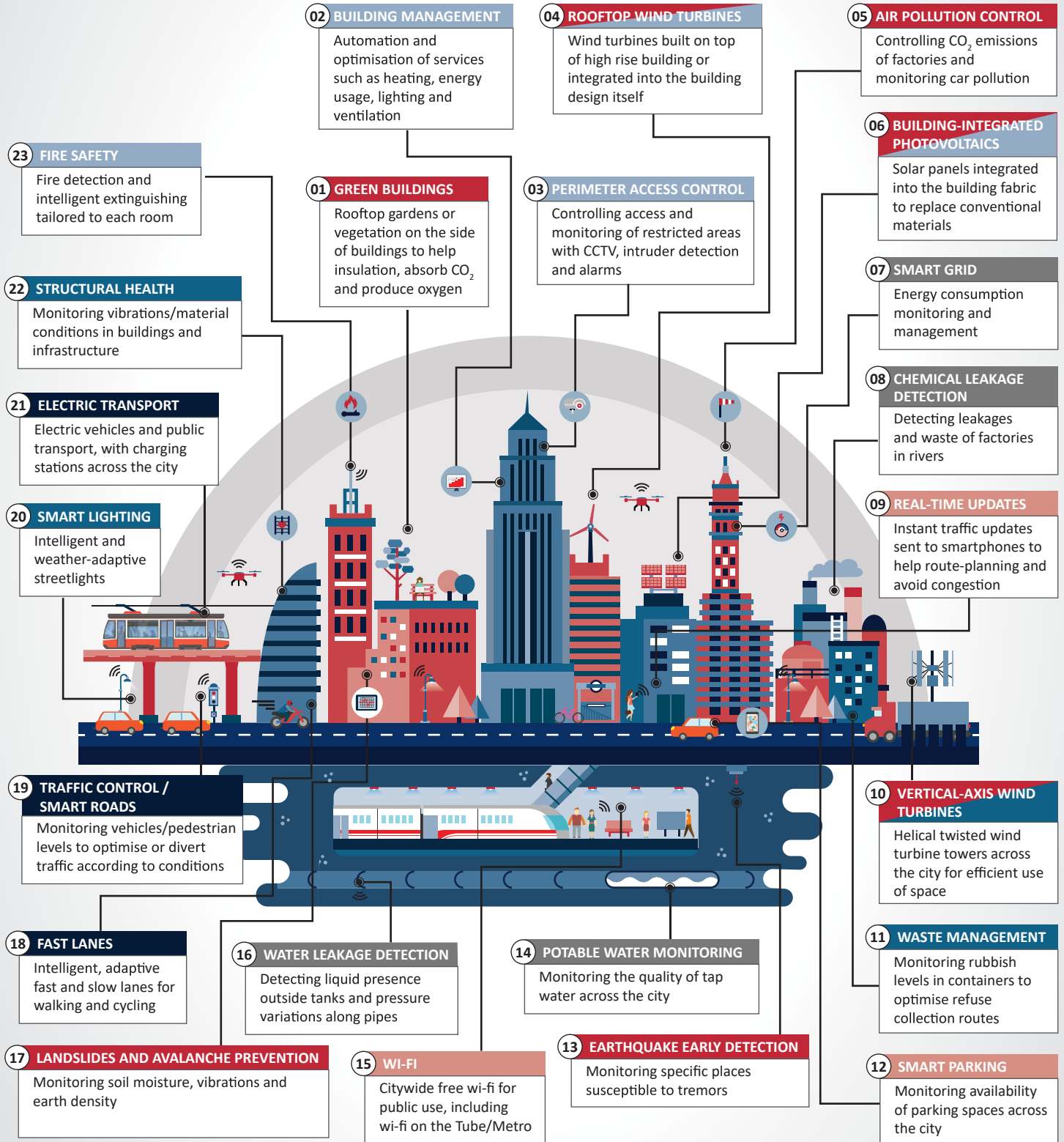Makassar
DKI Jakarta
Banyuwangi

Source: ASEAN Secretaria

SMART SOLUTIONS FOR SMART CITIES

Smart monitors and controls across all aspects of city life are set to transform the urban landscape

- Transport
- Environment
- Buildings
- Infrastructure
- Utilities
- Life

02 BUILDING MANAGEMENT
Automation and optimisation of services such as heating, energy usage, lighting and ventilation

04 ROOFTOP WIND TURBINES
Wind turbines built on top of high rise building or integrated into the building design itself

05 AIR POLLUTION CONTROL
Controlling CO_2 emissions of factories and monitoring car pollution

06 BUILDING-INTEGRATED PHOTOVOLTAICS
Solar panels integrated into the building fabric to replace conventional materials

23 FIRE SAFETY
Fire detection and intelligent extinguishing tailored to each room

01 GREEN BUILDINGS
Rooftop gardens or vegetation on the side of buildings to help insulation, absorb CO_2 and produce oxygen

03 PERIMETER ACCESS CONTROL
Controlling access and monitoring of restricted areas with CCTV, intruder detection and alarms

07 SMART GRID
Energy consumption monitoring and management

22 STRUCTURAL HEALTH
Monitoring vibrations/material conditions in buildings and infrastructure

08 CHEMICAL LEAKAGE DETECTION
Detecting leakages and waste of factories in rivers

21 ELECTRIC TRANSPORT
Electric vehicles and public transport, with charging stations across the city

09 REAL-TIME UPDATES
Instant traffic updates sent to smartphones to help route-planning and avoid congestion

20 SMART LIGHTING
Intelligent and weather-adaptive streetlights

19 TRAFFIC CONTROL / SMART ROADS
Monitoring vehicles/pedestrian levels to optimise or divert traffic according to conditions

10 VERTICAL-AXIS WIND TURBINES
Helical twisted wind turbine towers across the city for efficient use of space

18 FAST LANES
Intelligent, adaptive fast and slow lanes for walking and cycling

16 WATER LEAKAGE DETECTION
Detecting liquid presence outside tanks and pressure variations along pipes

14 POTABLE WATER MONITORING
Monitoring the quality of tap water across the city

11 WASTE MANAGEMENT
Monitoring rubbish levels in containers to optimise refuse collection routes

17 LANDSLIDES AND AVALANCHE PREVENTION
Monitoring soil moisture, vibrations and earth density

15 WI-FI
Citywide free wi-fi for public use, including wi-fi on the Tube/Metro

13 EARTHQUAKE EARLY DETECTION
Monitoring specific places susceptible to tremors

12 SMART PARKING
Monitoring availability of parking spaces across the city

THE EXHIBITION / SPONSORSHIP OPPORTUNITIES

Who Should Sponsor & Exhibit

Digital Infrastructure
- Antenna Systems
- Data Storage
- Network Infrastructure
- Terminals

Digital Solutions
- AR, MR and VR
- Artificial Intelligent (AI) Applications
- Cashless & Mobile Payment System
- Cloud Solutions
- Cyber Security
- Data & Algorithmic-based innovation
- Geospatial / GIS
- Intelligent Agents
- IoT and Big Data Integration
- Mobile Applications
- Robotics and Automation
- Unified Communication

Smart Cities Solutions
- Advanced Traffic Management
- Construction / Developers
- Disaster Management
- E-Government Solutions
- Electric Vehicle (EV) Infrastructure
- Energy and Water Management
- Engineering Firms
- Monitoring / Sensors / Beacons
- Renewables
- Smart Building Management
- Smart Home Solutions
- Smart Grid
- Surveillance / CCTV
- Urban Futurists
- Urban Mobility
- Smart Waste Management

Others
- Augmentation Analytics
- Advisory & Consulting
- Blockchain
- Financial Institutions
- Mobile Apps
- Research & Development
- Ride Share
- Skill Development Centre
- SMEs
- Start-ups & Entrepreneurs
- System Integrators
- Wearables

THE EXHIBITION / SPONSORSHIP OPPORTUNITIES

Be part of the flagship event focused on building a smart and digitised city

- Enhance your brand awareness
- Demonstrate your thought leadership
- Showcase your new products / services
- Generate new leads and foster relationships
- Establish industry goodwill

SPONSORSHIP PACKAGE

	Conference Passes	Exhibition Space	Logo on Website	Profile Listing
Titanium Sponsor	5	12sqm	✔	✔
Platinum Sponsor	3	6sqm	✔	✔
Gold Sponsor	2	6sqm	✔	✔
Silver Sponsor	2	6sqm	✔	✔
Luncheon Sponsor	2	6sqm	✔	✔
Refreshment			✔	✔
Conference Bag	2		✔	✔
Name Badge Lanyard			✔	✔
Advertisement (FPFC)				

EXHIBITION / SHOWCASE

Booth	
Standard Shell Scheme	6sqm
Display Kiosk	-

Contact us now to discuss customised sponsorship packages that will maximise your business opportunities at the event.

T: +603 2771 1668
F: +603 2771 1669
E: conference@confexhub.com

PROGRAM - 23 – 24 SEPTEMBER 2019

DAY ONE: 23 SEPTEMBER 2019, MONDAY

7:30AM	**Cities 4.0 Registration Begins** Venue: Hotel Istana, Kuala Lumpur
8:00AM	**Exhibition Opens** Venue: Hotel Istana, Kuala Lumpur
8:30AM	**Delegates Take Their Seats at Conference Ballroom** Venue: Hotel Istana, Kuala Lumpur
8:30AM	**Arrival of Distinguished Guests**
8:45AM	**Arrival of Guest of Honor**

OPENING CEREMONY

9:00AM	**INTRODUCTORY REMARKS** Datuk Dr. Abdul Aziz S.A. Kadir, Chairman, Confexhub Group
9:05AM	**WELCOME REMARKS** Mr. Junaidi Said, Chief Executive Officer, Human Life Advancement Foundation
9:10AM	**INAUGURAL ADDRESS AND LAUNCH OF CITIES 4.0 2019 CONFERENCE AND EXHIBITION**
10:10AM	Networking & Refreshments Break

PLENARY SESSION

10:40AM	**PLENARY ADDRESS 1: Building the Next Generation of Functional, Resilient and Smart Cities**
11:05AM	**PLENARY ADDRESS 2: Strategies for Envisioning the City of the Future and Managing the Transformation**
11:30AM	**PLENARY ADDRESS 3: The Key Enablers and Technologies for Smart City**
11:55AM	**PLENARY ADDRESS 4: Leveraging Digital Twins for City Transformation**
12:20PM	**PLENARY ADDRESS 5: Citizens Engagement Key to Successful Smart Cities**
12:45PM	Luncheon for Guest Speakers and Delegates

SESSION ONE: SPECIFIC, ACTION-ORIENTED SMART GOVERNANCE

1:45PM	**PAPER 1: 5th Generation of Smart Government – Criteria and Governance**
2:10PM	**PAPER 2: Smart Government Integrated Services for A More Seamless Customer Experience**
2:35PM	**PAPER 3: Exploit Conversational AI, IoT and Machine Learning to Deliver Personalised Digital Services to Citizens**
3:00PM	**PAPER 4: Embedding the Use of Blockchain in Smart Government to Increase Transparency & Security**
3:25PM	Open Forum: Comments, Questions and Answers
3:35PM	Networking & Refreshments Break

SESSION TWO: BUILDING SMART ECONOMY THROUGH DIGITAL TECHNOLOGIES

4:05PM	**PAPER 5: Industry 4.0 in Sustainable and Smart Cities**
4:30PM	**PAPER 6: Smart Cities and the Future of Supply Chain and Logistics**
4:55PM	**PAPER 7: Building A Digital Economy with Mobile Payments, e-Wallets, Contactless Payment and Digital Currencies**
5:05PM	Open Forum: Comments, Questions and Answers
5:15PM	End of Day 1

*This Program is subjected to change and for updated program,
please logon on to **www.cities4pointzero.com** Program @ 1 March 2019

PROGRAM - 23 – 24 SEPTEMBER 2019

DAY TWO: 24 SEPTEMBER 2019, TUESDAY

9:00AM   **Cities 4.0 Leadership Forum: Strategies in Developing Small and Medium Towns into Smart Cities**

10:30AM   Networking & Refreshments Break

SESSION THREE: EXPLOITATION OF TECHNOLOGIES IN SMART ENVIRONMENT

11:00AM   **PAPER 8: Imbedding Digital Technologies to Build Infrastructure to Ensure Smooth Functionality**

11:25AM   **PAPER 9: Reshape the Traffic and Urban Mobility with Advances**

11:50AM   **PAPER 10: The Role of Data and Advance Technologies in Urban Crime Prevention and Protect Public Safety**

12:15AM   **PAPER 11: Discover the Use of Technologies in Smart Utilities**

12:40PM   Open Forum: Comments, Questions and Answers

12:50PM   Luncheon for Guest Speakers and Delegates

SESSION FOUR: SMART LIVING: A BETTER & BALANCED LIFE

1:50PM   **PAPER 12: Future Home Technologies You Should Know in Advance**

2:15PM   **PAPER 13: The Future of Mobility: What are the Options?**

2:40PM   **PAPER 14: The Apps-Driven Life: How Smartphone Apps are Changing Our Lives**

3:05PM   **Open Forum: Comments, Questions and Answers**

3:15PM   Networking & Refreshments Break

SESSION FIVE: SMART CITIES FOR SMART CITIZENS

3:45PM   **PAPER 15: Digital Identity: What It Is, What It Isn't And What It Can Be**

4:10PM   **PAPER 16: eHealth and mHealth – The Smart Healthcare Solutions for Smart Cities**

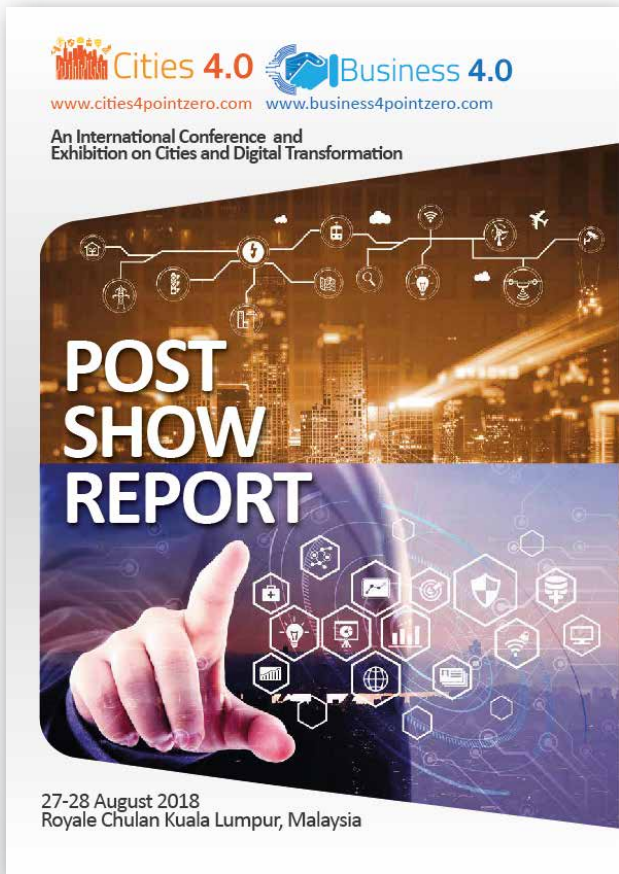4:35PM   **PAPER 17: Smart Education in Smart Cities and Smart Region**

5:00PM   End of Conference

*This Program is subjected to change and for updated program,
please logon on to **www.cities4pointzero.com** Program @ 1 March 2019

HIGHLIGHTS VIDEO

POST SHOW REPORT

Cities 4.0
www.cities4pointzero.com

Business 4.0
www.business4pointzero.com

An International Conference and
Exhibition on Cities and Digital Transformation

POST
SHOW
REPORT

27-28 August 2018
Royale Chulan Kuala Lumpur, Malaysia

Click here to Download

REGISTRATION FORM

Cities 4.0

Title ☐ Mr. ☐ Mrs. ☐ Ms. ☐ Dr. ☐ Others (specify) : _____

Name (as per passport)*

Name (to be appeared on conference badge)

Email*

Passport No.   Date of Issue D D / M M / Y Y Y Y

Country of Issue   Expiry Date   D D / M M / Y Y Y Y

Job Title*

Company*

Address*

City/State   Postcode

Country

Telephone*   Fax*

Mobile Number*

*(Please include country and area code)

FEE PER DELEGATE	1-2 DELEGATES	3 & ABOVE
EARLY BIRD (registration with FULL payment received before 1 July 2019)	USD 580	USD 500
NORMAL RATE (registration with FULL payment received before 1 August 2019)	USD 660	USD 580
WALK-IN FEE (registration with FULL payment received after 1 August 2019)	USD 750	

* fees are subjected to additional 6% SST

PAYMENT

Full payment is required with your Registration Form before the Conference day. Tax-Receipt will only be issued upon receipt of full payment.

*Conference registration fee includes lunch and refreshments. The Conference registration fee, however, does not include travel, accommodation and incidental costs.

All payments should be made in USD ($) by credit card, telegraphic transfer or cash only

All registrations by fax or post MUST reach us before 1 August 2019, after which late registrations will be considered as "WALK-INs" and subjected to "WALK-IN" fee.

PARTICIPATION TERMS AND CONDITIONS

Delegates may be substituted at any time, in writing, at NO extra charge.

Cancellations received in writing before 15 February 2019 will be refunded, less a 100 USD administrative fee. Cancellations received thereafter are not refundable.

Confexhub reserves the right to reschedule or cancel the conference, exhibition, cocktail reception, due to circumstances beyond their control and reserves the right to make changes to the conference program or speakers without prior notice.

Should the event and all its related activities be cancelled, curtailed or adversely affected by any cause not within the reasonable control of Confexhub including but not limited to war, fire, national emergency, labor dispute, strike, lock-out, civil disturbance, Act of God, or non-availability of premises for any reason, Confexhub shall be under no obligation to refund all or part of the sums paid by the delegate in respect of his/her participation in the workshop. Confexhub shall be under no liability to the delegate or any other person in respect of any actions, proceedings, claims, demands, losses (including consequential losses), costs or expenses whatsoever which may be brought against or suffered or incurred by the delegate as the result thereof.

PLEASE COMPLETE AND FAX BACK TO +603 2771 1669
For enquiries, please contact at +603 2771 1668 or email: conference@confexhub.com

Cambodia Indonesia Laos Malaysia Myanmar Philippines Singapore Thailand Vietnam