



## The 8th Asia Smart City Conference Preliminary Report

The Asia Smart City Conference (ASCC) is an international conference that brings together representatives from Asian cities, national governments, international organizations, academic institutions, and private companies with the aim of establishing a knowledge hub for Smart Cities. At this conference, representatives from cities will share their visions for growth as well as their current challenges and needs; private companies and academic institutions will propose innovative solutions; international organizations will offer programs to support efforts by cities and private companies; and various best practices from around the world will be shared.

The 8th Asian Smart Cities Conference was held on October 8th through 11th, 2019. The theme of the event was “Creating business opportunities through the market place: the Role of a knowledge hub in promoting business matching,” and the conference served as a place for key persons to gather and share information about Smart City Initiatives. The event provided participants with opportunities for mutual understanding and networking through a variety of activities including presentations and exhibits from cities and businesses on confronting urban issues, a “Business Matching Stage” that connected cities and businesses, six themed sessions on Smart City development, site visits for guests from abroad and more. “The Yokohama Declaration” was launched as a result of the 8th ASCC in the Closing Panel on October 10th.

This year’s ASCC was part of a collaborative “Asia Smart City Week” (ASCW) that included the ASEAN Smart City Network High Level Meeting (ASCN) hosted by the Ministry of Land, Infrastructure, Transport and Tourism and the Launch Meeting of the Global Smart Cities Alliance on Technology Governance (GSCA) hosted by the Cabinet Office Government of Japan and the World Economic Forum Center for the Fourth Industrial Revolution Japan. Through this collaboration, ASCC sent a strong message from Yokohama to provide information about our initiative for Smart Cities both domestically and internationally.

There were approximately 850 participants at the three ASCW meetings (ASCC, ASCN, and GSCA).



## The 8th Asia Smart City Conference and Events Overview

Dates	<p>October 8 (Tue) through 11 (Fri), 2019</p> <ul style="list-style-type: none"> <li>➤ ASCC and ASCN joint hosted Infrastructure Site Visit Tours on 11<sup>th</sup> (Fri)</li> <li>➤ ASCC was held in collaboration ASCN and GSCA as ASCW.</li> </ul>
Organizer	City of Yokohama
Co-organizers	World Bank Tokyo Development Learning Center (TDLC), Asian Development Bank Institute (ADBI)
Supporters	Cabinet Office, Government of Japan/Ministry of Foreign Affairs of Japan/ Ministry of Finance, JAPAN/ Ministry of Land, Infrastructure, Transport and Tourism/ Ministry of the Environment, Government of Japan/ Institute for Global Environmental Strategies (IGES)/ Japan International Cooperation Agency (JICA) Yokohama/ Yokohama City University/ CITYNET
Venue	InterContinental Yokohama Grand
Overall Theme	Creating business opportunities through the market place - the Role of a knowledge hub in promoting business matching -
Number of Countries and Cities	57 cities, 20 countries (ASCW)
Cities (City names in alphabetical order)	<p>&lt;Overseas&gt; Bandar Seri Begawan (Brunei), Bundung (Indonesia), Bangkok (Thailand), Banyuwangi (Indonesia), Barisal (Bangladesh), Barcelona (Spain), Battambang (Cambodia), Cagayan de Oro City (Philippines), Cebu City (Philippines), Chonburi (Thailand), Colombo Municipal Council (Sri Lanka), Da Nang (Viet Nam), Davao City (Philippines), DKI Jakarta (Indonesia), Johor Bahru (Malaysia), Kuala Lumpur (Malaysia), Kuching (Malaysia), Lalitpur Metropolitan City (Nepal), Luang Prabang (Laos), Makassar City (Indonesia), Mandalay (Myanmar), Mandaue City (Philippines), Nay Pyi Taw (Myanmar), Palmerston North (New Zealand), Phnom Penh City (Cambodia), Phuket (Thailand), San Fernando City (Philippines), Sarawak (Malaysia), Siem Reap (Cambodia), Sidoarjo Regency (Indonesia), Suva City (Fiji), Toronto (Canada), Ulaanbaatar (Mongolia), Vientiane (Laos), Yangon (Myanmar)</p> <p>&lt;Japan&gt; Aizuwakamatsu City, Utsunomiya City, Osaka City, Osaka Prefecture, Kakogawa City, Kashiwa City, Kamakura City, Kawasaki City, Kitakyushu City, Kobe City, Saitama City, Sapporo City, Takamatsu City, Tsukuba City, Tokyo Metropolitan Government, Toyota City, Hiroshima Prefecture, Fukuoka City, Fujieda City, Maizuru City, Masuda City, Yokohama City</p>
Governments, International Organizations, Academic Institutions, Companies etc. (Only ASCC moderators and speakers)	<p>&lt;Overseas&gt; National Disaster Management Office (Fiji), ASEAN Secretariat, The World Bank, Asian Development Bank, iTakuei Land Trust Board (TLTB), Digital Economy Promotion Agency (Thailand), etc.</p> <p>&lt;Japan&gt; Cabinet Secretariat of Japan, Ministry of Land, Infrastructure, Transport and Tourism (Japan), World Bank Tokyo Development Learning Center (TDLC), Asian Development Bank Institute, ICLEI Japan, Keio University, CityNet, Japan Smart Community Alliance (JSCA), Smart City Institute Japan, World Economic Forum Centre for the Fourth Industrial Revolution (Japan), WWF Japan, Institute for Global Environmental Strategies (IGES), Yokohama City University, etc.</p> <p>&lt;Private sector&gt; AMATA CORPORATION PCL., IKEA Japan, NEC Corporation, OYO International Corporation, JVCKENWOOD Corporation, JFE Engineering Corporation, The Johnan Shinkin Bank, ShinMaywa Industries, Ltd, Slush Tokyo, TAKENAKA CORPORATION, DeNA Ltd, Nikken Sekkei LTD, Nippon Suido Consultants Co., Ltd, Finetech Co., Ltd., Fujitsu, Plantec Consulting, MACNICA, Inc., Mobile Innovation Co., etc.</p>

## ASCW Schedule

	October 8, 2019 (Tuesday)	October 9, 2019 (Wednesday)	October 10, 2019 (Thursday)	October 11, 2019 (Friday)
ASCW	-Opening -Reception		-Reception	
ASCC	-Business Matching Stage (four sessions [a-d] and exhibition)	-Business Matching Stage (two sessions [e,f] and exhibition)	-Opening -Thematic Sessions (six sessions [1-6]) -Closing -Business Matching Stage (exhibition only)	-Infrastructure Site Visit Tours (hosted by ASCC and ASCN)
ASCN	-Opening -Sectoral Workshops (six sessions)	-Symposium -Business Matching Session -Business Exhibition -Closing		
GSCA		-Launch Meeting		

### ..... ASCC Summary .....

**Tuesday, October 8**

**9:30-10:15 Opening Ceremony for Asia Smart City Week (ASCW)**

For the opening of Asia Smart City Week (ASCW), representatives from the organizers of the relevant meetings gave opening remarks.

*ASCN Organizer and the Representative of the Government of Japan*

Mr. Hiroto Izumi, Special Advisor to the Prime Minister of Japan

*ASCC Organizer and the Representative of Cities*

Ms. Fumiko Hayashi, Mayor, City of Yokohama

*ASCN Organizer and the Representative of ASEAN*

Dr. Aladdin Rillo, Deputy Secretary-General for ASEAN Economic Community

*ASCC Co-organizer*

Mr. Michael Barrow, Director General, Private Sector Operations Department,  
Asian Development Bank

*ASCC Co-organizer*

Mr. Masato Miyazaki, Special Representative in Japan, The World Bank



## October 8-10 ASCC Business Matching Stage

10:30-17:00 October 8 and 10:00-17:00 October 9 and 10:

The Business Matching Stage held 31 presentations on six urban issues (transportation, disaster management/disaster risk reduction, water and wastewater treatment, smart energy, waste, and smart city development) that covered urban development challenges as well as technologies and know-how for companies to solve their own problems. The Stage also featured an exhibition area for companies and provided business matching opportunities for cities in emerging countries, international organizations and Japanese companies to promote the realization of sustainable urban development. Through the business matching application "Jublia", around 60 business matches were made over the three days.

### **【Exhibitors】**

ShinMaywa Industries, Ltd.  
JVCKENWOOD Corporation  
JFE Engineering Corporation  
Finetech Co., Ltd.  
TAKENAKA CORPORATION  
NEC Corporation  
MACNICA, Inc.  
Japan Smart Community Alliance (JSCA)  
Mobile Innovation Co., Ltd.  
Japanese Public Organizations  
OYO International Corporation



## <Business Matching Stage Thematic Sessions>

Tuesday, October 8

### 10:45-12:15 BS-a. Transportation

Mr. Seng Vannak, Director of Administration, Phnom Penh Capital City, Cambodia

Ms. Marica Ratuki, Principal Engineer, Strategic Planning Unit, Ministry of Infrastructure, Transport, Disaster Management and Meteorological Services, Fiji

Mr. Marlo D. Ocleasa, Head, City Planning and Development Office-Department, Mandaue City, Philippines

Mr. Datu Haji Safri Bin Haji Zainudin, Permanent Secretary, Ministry of Infrastructure and Port Development, Sarawak, Malaysia

Mr. Hideki Tanaka, Manager, Global Marketing Group, New Business Development Department, DX Business Division, JVCKENWOOD Corporation

Mr. Hirofumi Yoshitani, Director, Global Business Planning & Promotion Corporate Sales and Marketing Department II, NTT DOCOMO, Inc.



### 13:30-15:00 BS-b. Disaster Management/Disaster Risk Reduction

Ms. Kerry Megan Mara, Special Administrator/City Councillor, Suva City Council, Fiji

Hon. David F. Tumulak, Office of Councilor, Cebu City Government, Philippines

Mr. Purushottam Khadka, City Counselor, Lalitpur Metropolitan City, Nepal

Ms. Reluya, Lakambini G., Mayor, Organization LGU-SAN FERNANDO, Philippines

Mr. Takayoshi Yokoyama, Assistant Manager, Global Marketing Group, New Business Development Department, DX Business Division, JVCKENWOOD Corporation

Mr. Ryo Miyazaki, President, OYO International Corporation



**15:00-16:00 BS-c. Water and Wastewater Management**

Ms. Nor Fazilah Mohd Razali, Senior Vice President, Technology and Innovation,  
Iskandar Regional Development Authority (IRDA), Malaysia

Mr. Hisashi Toyohara, Manager, Global Sales Dept Gr.1 sect, Sales & Marketing Dept. Fluid Division,  
ShinMaywa Industries, Ltd.

Mr. Tatsuya Tobe, Assistant Manager, Business Planning & Promotion Department, Corporate Planning  
Headquarters, Nihon Suido Consultants. Co.,Ltd.

Dr. Pham Ngoc Bao, Senior Policy Researcher, Natural Resources and Ecosystem Services,  
Institute for Global Environmental Strategies (IGES)



**16:00-17:00 BS-d. Smart Energy**

Mr. Truong Quang Trung, Chief of the Industrial Promotion, Technical and Energy Consultation  
Department, Danang Industry and Trade Promotion Center, Da Nang, Viet Nam

Mr. Masaomi Wakisaka, Director, Smart Infrastructure Business Promotion Office, MACNICA, Inc.

[Presentation on Waste Management]

Mr. Najiran Syamsuddin, Head of Department of Economic and Cooperation. City Government of  
Makassar, Indonesia



**Wednesday, October 9**

**11:30-12:30 BS-e. Waste**

Mr. Faishal Hasboon, Health Officer, Barisal City Corporation, Bangladesh

Mr. Yugi Sukriana, Public Policy Team, City of Bandung, Indonesia

Ms. Araceli G. Barlam, Officer In Charge, Local Government Unit of Mandaue City, Philippines

Mr. Ari Suryono, Head of Cooperation Division, Sidoarjo Investment and One-stop integrated License Service, Government of Sidoarjo Regency, Indonesia

Mr. Ilangange Dharmawardhana, Chief Municipal Veterinary Surgeon, Colombo Municipal Council, Sri Lanka

Mr. Gen Takahashi, General Manager, Business Development, Overseas Administration Department, JFE Engineering Corporation

Mr. Motoyuki Okada, President and CEO, Finetech Co., Ltd.



**16:00-17:00 BS-f. Smart City Development**

Mr. Najiran Syamsuddin, Department head, Department of Economic and Cooperation, Government of Makassar, Indonesia

Ms. Tserendulam Shagdarsuren, Director, Healthy City Network of Mongolia, Ulaanbaatar, Mongolia

Mr. LE Son Phong, Vice Director, Department of Information and Communication, Da Nang City, Vietnam

Mr. Kimihiro Nakamura, Chief Consultant, Electrical Engineer IoT Consulting Section, Nikken Sekkei LTD

Dr. Taro Fujimoto, Leader for Alliance group, Fujitsu and Smart Community Department, Japan Smart Communication Alliance (JSCA)

Dr. Kentaro Nagata, Senior Manager, Energy Business Development Office, DeNA., Ltd



Thursday, October 10

**9:30-9:45 Introduction to ASCC**

Toru Hashimoto, Executive Director for Development Cooperation Department, in the City of Yokohama’s International Affairs Bureau introduced the objectives and expected impacts to be generated by the 8<sup>th</sup> ASCC as follows.



- 1) Creation of a market place to gather information and people who work in urban development overseas; envisioning urban development and growth; proposals for innovative solutions by the private sector and academics; sharing of policies by international organizations that financially support public-private partnerships; and various best practices around the world
- 2) Strengthening of knowledge hubs for solving urban challenges
- 3) Creation of new business and solutions

**10:00-12:00 Session 1: Meet up with Smart Urban Solutions**

A world café style discussion (Interactive group discussion) on information exchange between Asian cities and the private sector on six specific urban issues, namely waste, water and wastewater treatment, smart energy, transportation, disaster management/disaster risk reduction, and smart city development to match city needs with the best solutions. The group discussion was facilitated by experts on urban challenges in Asia and smart city development, and the facilitators shared a summary of each group discussion at the end of the session.

<Group Discussion Moderators>

1. Waste: Ms. Mary Jane Ortega, Special Advisor for Y-PORT Center
2. Water and Wastewater Treatment: Mr. Sanjay Joshi, Principal Urban Development Specialist, Asian Development Bank
3. Smart Energy: Mr. Togo Uchida, Director, ICLEI Japan
4. Transportation: Mr. Yoshimitsu Kaji, Councillor for Kamakura city and Advisor for Plantec Consulting
5. Smart City Development: Dr. Alfonso Vegara, Special Advisor for Y-PORT Center
6. Disaster Management/Disaster Risk Reduction: Mr. Kendra Hirata, Director, CITYNET Yokohama Project Office





## 10:00-12:00 Session 2: Disruptive Technology and City Development

Organizer: World Bank Tokyo Development Learning Center (TDLC)

This session discussed possibilities and challenges of implementing disruptive technologies in city development. Special attention was paid to the public-private partnership initiatives to deploy these disruptive technologies.

### <Moderator>

Mr. Victor Mulas, Senior Program Officer, World Bank Tokyo Development Learning Center (TDLC)

### <Speakers>

Mr. Kazufumi Fujimoto, Director, Planning, Planning & Coordination Department,  
General Affairs & Planning Bureau, Fukuoka City Government

Dr. Shigenori Tanabe, Ph.D., Director, New Business Promotion Division, Kobe City Government

Ms. Emiko Murakami, Director of Business Promotion,  
Kitakyushu Asian Center for Low Carbon Society, City of Kitakyushu

Mr. Kosuke Adachi, Director for Policy Division, Policy Bureau, City of Yokohama

Mr. Yoto Eguchi, Director for 3R Promotion Division, Resources and Waste Recycling Bureau,  
City of Yokohama



**10:00-12:00 Session 3: SDGs Business Seminar -Incorporating SDGs/Environmental Management into the Mainstream of Corporate Activities-**

This session introduced the good practices of private companies and organizations that have advanced initiatives in SDGs and environmental management and shared the importance of incorporating such perspective into the mainstream of corporate management with the participants.

<Speakers>

Mr. Yosuke Ikehara, Climate and Energy Project Leader Conservation Division, WWF Japan

Ms. Kazumi Noyama, Store Manager, IKEA Kohoku, IKEA Japan

Mr. Hideo Uehara, SME Support Department General Manager/Support Division Division Director,  
The Johnan Shinkin Bank

Mr. Shuhei Okuno, Deputy Director-General, Climate Change Policy Headquarters, City of Yokohama



#### 13:15-15:15 Session 4: Role of Knowledge Hub for Smart Urban Solution

Using the opportunity of the Paris Agreement and SDGs, the concept of planetary boundaries has been widely shared, and the expectations for smart cities as places to create concrete solutions are growing. On the other hand, it is time for us to revisit the vision and role of smart city. This session discussed the role of knowledge hubs through the panel discussion, aiming to solve various urban problems and support sustainable city development.

<Moderator>

Dr. Alfonso Vegara, Special Advisor for Y-PORT Center

<Speakers>

Ms. Lena Ng, Chief Investment Officer, AMATA CORPORATION PCL.

Mr. Victor Mulas, Senior Program Officer, World Bank Tokyo Development Learning Center (TDLC)

Mr. Yuta Hirayama, Project Specialist, IoT, Robotics and Smart City, World Economic Forum,  
Center for the Fourth Industrial Revolution Japan

Mr. Pracha Asawateera, Vice President, Digital Economy Promotion Agency (DEPA) Southern,  
Thailand

Ms. Daniela Schmidt, Urban Development Specialist, Asian Development Bank

Mr. Toru Hashimoto, Executive Director for Development Cooperation Department,  
International Affairs Bureau, City of Yokohama



**13:15-15:15 Session 5: Smart Technology for Efficient and Effective Infrastructure Planning and Service Delivery**

Host: Asian Development Bank (ADB)

Urbanization has provided most cities with opportunities for growth and innovation. However, many cities face challenges constraining their capacity to deliver services and limiting the realization of a more sustainable and liveable future. This session discussed relevant, practical, and innovative technological solutions for cities to facilitate efficient and effective infrastructure planning and service delivery, therefore improving the quality of life and liveability for residents.

<Moderator>

Ms. Jie Bai, Urban Development Specialist, Asian Development Bank

<Speakers>

Ms. Reijeli Taylor, Manager, Strategic Planning, Change Management & Special Projects,  
iTakuei Land Trust Board (TLTB), Fiji

Dr. Wanglin Yan, Professor, Faculty of Environment and Information Studies, Keio University

Mr. Sanjay Joshi, Principal Urban Development Specialist, Asian Development Bank

Mr. Yuji Tsutsui, Director, City Planning Survey and Information Office, City Planning Division,  
City Bureau, Ministry of Land, Infrastructure, Transport and Tourism

Mr. Yoshimitsu Kaji, Councillor for Kamakura city and Advisor for Plantec Consulting



**13:15-15:15 Session 6: Yokohama Youth Event 2019 "The Role and Potential of the Startup Ecosystem"**

Host: Yokohama City University

This session focused on "the potential of the startup ecosystem in emerging countries" for the purpose of developing the next generation of young leaders in Yokohama, and consisted of presentations from students of Yokohama City University, followed by an open discussion and a keynote speech from guest experts.

<Moderator>

Mr. Kendra Hirata, Director, CITYNET Yokohama Project Office

<Keynote Speaker>

Dr. Pitchaya Sirivunnabood, Capacity building and training economist,  
Asian Development Bank Institute

<Commentators>

Dr. Shreyas P. Bharule, Research associate, Asian Development Bank Institute

Dr. Pitchaya Sirivunnabood, Capacity building and training economist,  
Asian Development Bank Institute

Ms. Haruka Furukawa, CEO of Slush Tokyo

Mr. Nobuaki Saito, Deputy Director of New Industry Creation Division, Economic Affairs Bureau,  
City of Yokohama



### 15:30-17:00 Closing Panel

Through the discussions that took place at ASCC and ASCW as a whole, experts in the field of sustainable Smart City development were able to share insights on the role of Smart Cities in tackling global issues and their potential for the future. These discussions contributed to the creation of a “market place” where information can be shared, and facilitated dialogue on Smart City development efforts and the future of the Asian Smart Cities Conference. This session also included the report from the Youth Session (session 6) and the launch of the Yokohama Declaration that summarized the discussions that took place at the 8<sup>th</sup> ASCC.

- Closing Panel (Part 1): the moderators of sessions 1-5 shared what was discussed in each session.

<Moderator>

Dr. Bindu Nath Lohani, Special Advisor for Y-PORT Center

<Speakers>

Ms. Mary Jane Ortega, Special Advisor for Y-PORT Center

Mr. Victor Mulas, Senior Program Officer, World Bank Tokyo Development Learning Center (TDLC)

Mr. Shuhei Okuno, Deputy Director-General, Climate Change Policy Headquarters, City of Yokohama

Dr. Alfonso Vegara, Special Advisor for Y-PORT Center

Ms. Jie Bai, Urban Development Specialist, Asian Development Bank



- Closing Panel (Part 2): This session covered the overall findings of the discussions that took place throughout ASCC and ASCW.

<Moderator>

Dr. Bindu Nath Lohani, Special Advisor for Y-PORT Center

<Speakers>

Mr. Koichi Akaishi, Vice-Minister for Innovation Policy, Cabinet Secretariat

Ms. Mary Jane Ortega, Special Advisor for Y-PORT Center

Dr. Alfonso Vegara, Special Advisor for Y-PORT Center

Mr. Masato Nobutoki, Executive Advisor, Smart City Institute Japan

Mr. Pracha Asawateera, Vice President, Digital Economy Promotion Agency (DEPA) Southern, Thailand

Mr. Victor Mulas, Senior Program Officer, World Bank Tokyo Development Learning Center (TDLC)

Mr. Chul Ju Kim, Deputy Dean (Capacity Building and Training and Special Activities), Asian Development Bank Institute



<Comments from Cities>

Mr. Jonas C. Cortes, Mayor of Mandaue City

Dr. Vallop Suwantee, Chairman of Advisors to Governor of Bangkok,  
Bangkok Metropolitan Administration



■ The Report from the Youth Session (Session 6)



■ Launch of the Yokohama Declaration

Ken Akaoka, Director General, International Affairs Bureau, City of Yokohama presented the  
Yokohama Declaration. (p.17)



Networking Event (Reception/Networking lunch)



**Friday, October 11<sup>th</sup>: Infrastructure Site Visit Tours**

**ASCN and ASCC joint organized the Infrastructure Site Visit Tours.**

**Tour A Food recycling/biogas generation plant (Yokohama City: J Bio Food Recycle Co.,Ltd.)**



**Tour B Sustainable Residential Development (Yokohama City: Kohoku New Town)**



**Tour C Open Innovated R&D Hub (Kawasaki City: Tonomachi King Skyfront)**





## **8th Asia Smart City Conference “Yokohama Declaration”**

For the past eight years, the Asia Smart City Conference (ASCC) has continuously set a goal to enhance city-to-city collaboration and promote partnership among cities and related international institutions to achieve smart and sustainable urban growth in Asia.

This year, the ASCC was held in an expanded format as a part of Asia Smart City Week to attract a wider audience interested in smart cities to an open forum. It consisted of three simultaneous events: the ASEAN-Japan Smart Cities Network High Level Meeting, hosted by Japan’s Ministry of Land, Infrastructure, Transport and Tourism; the launch meeting of the Global Smart Cities Alliance on Technology Governance, hosted by the World Economic Forum Centre for the Fourth Industrial Revolution Global Network and the Government of Japan; and the ASCC.

The 2019 Conference focused on “Creating business opportunities through the market place: the Role of a knowledge hub in promoting business matching.” We discussed the impact of new exponential technologies on cities, as well as essential topics ranged from water, waste, transport, energy efficiency, resilience, and smart city development that involves people at all levels.

In specialized sessions during the Conference organized by the Asia Development Bank (ADB) and the Asia Development Bank Institute (ADBI), the Tokyo Development Learning Center (TDLC) of the World Bank, and the City of Yokohama, the discussions highlighted on integrated urban development, shared knowledge on innovative technologies, and explored future directions. These conversations encouraged participants to recognize the importance of forward-looking beyond national borders to learn from each other. The following ideas emerged from the Conference:

1. Participants reaffirmed the commitment to international targets such as the Sustainable Development Goals (SDGs), the New Urban Agenda under HABITAT III, Sendai Framework for Disaster Risk Reduction, and the Paris Agreement under Conference of the Parties (COP21) to the UNFCCC. As the international community accelerates towards realizing sustainable growth, we see cities working together to achieve the ambitious goal of carbon neutrality. With a pronounced rise in urban populations worldwide, cities are playing increasingly important roles in directly supporting the lives of citizens. Cities should proactively engage citizens by enabling platforms for participatory planning alongside with the public-private collaboration for innovative solutions that enable inclusiveness and an improved quality of life for Livable Cities. We should also consider cities as a laboratory or “Urban Lab” to identify the changing dynamics of the cities and needs of their citizens.

2. Smart cities in Asia, especially those in emerging economies, still face fundamental urban challenges in providing clean water, disposing of waste water and solid waste, supplying stable energy, and developing effective transport systems. The importance of high-quality infrastructure to address these issues deserves increased recognition. In addition, cross-cutting issues such as technology governance and technological innovation e.g., artificial intelligence (AI), industrial revolution 4.0 and 5.0, the internet of things (IoT), robotics, block chain etc., as well as co-creating effective and innovative urban solutions should be discussed to determine their impacts on city development.
3. City management expertise has been treated as tacit knowledge, as each city has substantively different sets of geopolitical parameters. The Conference emphasized that growing ICT capacity makes "open" and "big" data more available to cities and the private sector, and at the same time managing cities will become even more complex due to ICT development, and new smart technologies will reveal a potential to become a service business. These trends provide opportunities to establish business modalities such as CMaaS (City Management as a Service). This approach makes elements of expertise in city management transferrable.
4. The Conference recognized the power and potential of the private sector in achieving development goals to co-create sustainable cities and circular economy. In emerging economies, the private sector has started to take leading roles in area-wide urban development and introduction of innovative smart urban solutions. City leaders as well as relevant international institutions should provide facilitative platforms to engage citizens through this new movement.
5. The importance of knowledge hubs such as the Y-PORT Center and other venues for mutual learning were discussed. We will continue to strengthen peer-to-peer learning through digital platforms such as the Asia Smart City Alliance (ASCA), pursue further city collaboration among our development partners, and utilize these opportunities as ideal venues to exchange ideas, experiences, and innovations and make them available to concerned parties.

We will report the content of this Yokohama Declaration to the 7<sup>th</sup> Asia Pacific Urban Forum (APUF7), to be convened in Penang, Malaysia between on 15-17 October 2019, and to other relevant international conferences.