SMART CITIES
KNOWLEDGE SILO BREAKER

March 2021

Recent Activities

ICT-based Response to Covid-19: Solutions and Experiences from Korea

Organized jointly with the WBG Korea Office, the webinar provided an overview of Korea's experience in using ICT and open data to fight against COVID-19 in realms of health, education and contact tracing system.

Key takeaways from the webinar are:

- **Open/big data can be used for efficient city management and social service delivery in times of a pandemic:** In Korea, open data is used for sharing information with the public through mobile applications and web services; and collaboration across multiple public and private entities led to the development of an effective Covid-19 contract tracing system and K-Quarantine solutions. The existing ICT infrastructure in Korea also facilitated a transition to a hybrid education model combining online and face-to-face learning after Covid-19.
- **Data privacy is a critical concern and robust regulations must be in place** for defining who has the authority to access, use and safeguard data.
- **Covid-19 as a global crisis can be turned into an opportunity to build regulatory and institutional systems**, which were strengthened in Korea through SARS and MERS pandemics. Likewise, online education and other social services can be an opportunity to address digital divide.

Presentations and Recording

Collaboration with the Tokyo Development Learning Center

9th Smart City Conference: World Bank Session on Pathways to Sustainable Urban Development

9th Asia Smart City Conference (ASCC) was held virtually on January 18th, 2021. The theme for this year's conference was "Building smart cities aiming for carbon neutrality through city to city collaboration under the influence of COVID-19", following Japan's pledge made in 2020 to achieve net carbon neutrality by the year 2050.

Mansha Chen, Toru Hashimoto, Victor Mulas and Gayatri Singh presented global practices and Japanese expertise (© TDLC)

Tokyo Development Learning Center (TDLC) in collaboration with the Global Smart City Partnership Program organized a World Bank session. The event focused on how smart city solutions can be applied to developing countries in order to achieve sustainable urban development under the COVID-19 pandemic. World Bank urban specialists as well as a city official from Yokohama discussed key considerations and lessons learned when adopting new technologies and smart solutions to address urban challenges.

Gayatri Singh presented World Bank's City Planning Lab project in Indonesia which aims to strengthen local governments' data foundation and leverage digital intelligence within existing urban systems to strengthen evidence-driven planning for creating livable cities for all residents. Mansha Chen drew on their challenge on capacity building in a new project in Dhaka, Bangladesh to support integration of city management services under a common ICT framework. In a dialogue with Victor Mulas, Toru Hashimoto from City of Yokohama, explained how Yokohama, in collaboration with private sector and its citizens took on six major redevelopment projects and three area developments and succeeded in transforming the city via PPP collaboration.

Summary | Event Page

Reinventing Cities with Technology after COVID-19: Unpacking Ideas from Japan

Tokyo Development Learning Center (TDLC) hosted a side event at the Smart City Expo World Congress (SCEWC) which was organized as an innovative edition under the name Smart City Live (#SCLive2020) last November. The session featured major Japanese smart cities-Yokohama, Fukuoka, and Kobe- and representatives of Japan's private sector to unpack their thinking and to draw new insights applicable for cities to thrive in a post-COVID new reality. Drawing on the knowledge of the World Bank's expertise on smart cities and disruptive technologies, the session showcased emerging solutions to tackle these new urban challenges in developing countries and across the world.

Ryosuke Toura (left) from Tokyu Corporation and Victor Mulas (right) from TDLC © WBG

Ryosuke Toura, Executive General Manager of Tokyu's Shibuya emphasized that as pandemic hit a big impact on rail traffic, entertainment and commercial areas, the city developer should rethink the re-development approach. "With COVID-19, you need to really think about the resilience of cities and towns. For one thing, offices and houses must be in closer proximity to each other" he said.

While the Japanese cities covered a broad range of topics—including data visualization, AI, transport, and open-source data—they agreed on one thing: the need to engage citizens in order to realize smart city goals. "In developing smart cities, you need to think about the technical coordination among different

stakeholders. At the same time, you need to consider the deregulation of the existing framework" said Tak Nagumo, Executive Director of Smart City Institute Japan.

Summary | Recording | Event Page

Data, Privacy & the Cities of Tomorrow:
Data Governance in an Age of Disruptive Distributed Technology

The panel - organized jointly with the Transport Economics, Policy and Data GSG brought together a depth of experience to tackle one of the most controversial subjects in data today: What is effective data governance in an age of disruptive distributed technology?

As we move into a new era of disruptive technology in smart cities and mobility, one thing is clear: the importance of data governance as governments try to balance both corporate and government objectives. The use of data is most efficient in places that have strong data governance and transparency requirements. This means private data should always be used in a transparent way, being very specific about the objectives and uses and making sure that all data is private by design, as has been our use of mobile phone data for origin-destination estimation. Data collection will continue to be critical for efficient service delivery, but it must respond to a specific need and be governed through institutional mechanisms that ensure contextual value, necessity, and privacy.

E-Learning

Coming Up!

A Virtual Knowledge Exchange on Smart Cities
(April 12 - May 07, 2021)

The virtual event will be structured around four thematic areas: Green, Smart, Development and Vision.

The sessions will explore how smart city development and innovation can engage the residents, business and visitors, facilitate collaborative and open leadership, work across sectors and systems, and use data and technologies in integrated way. Every session will introduce various perspectives and cases of smart cities from all around the world.

Enroll Now

Green: Smart solutions for greening cities
Live Webinar April 13, 2021
8-9:30am ET | 12-1:30pm GMT | 9-10:30pm Korea
Self-Paced Week 1

Smart: What makes a City and its citizens 'Smart'?
Live Webinar April 20, 2021
8-9:30am ET | 12-1:30pm GMT | 9-10:30pm Korea
Self-Paced Week 2

Development: Global Smart City Projects for Development
Live Webinar April 27, 2021
8-9:30am ET | 12-1:30pm GMT | 9-10:30pm Korea
Self-Paced Week 3

Vision: Future of Smart Cities
Live Webinar May 4, 2021
8-9:30am ET | 12-1:30pm GMT | 9-10:30pm Korea
Self-Paced Week 4

E-Learning Course on Smart City

Cities, as the crucible and the hub of human innovation and advancement, face critical changes in their fundamental role. Through a smart city, the global community has strived to converge and integrate environmental, digital, bio, and financial technologies to solve various urban problems. It is imperative to understand the true value and implementational practicality of key technologies in their full depth for their deployment in the construction of new smart cities or in the regeneration of legacy cities to advanced smart ones in the right way.

[Enroll Now](#)

In Case You Missed

Smart Cities KSB at a Glance

4th Round Just-in-time Technical Assistance and Operational Support for Smart City/Technical Driven COVID-19 Response

The Global Smart City Partnership Program (GSCP) has launched the 4th Call for EOI for World Bank Group project teams seeking technical support for project preparation, implementation, and engagement with clients on smart cities and technology-driven COVID-19 response. 15 projects from various GPs including Transport, Digital Development, Urban, Energy, and IFC were selected for the support. The global experts matched with the teams and have been providing Technical and Operational Support for the teams and client countries GSCP is moving to Phase 2 and will launch the 5th Call for EOI for i) Just-in-time Technical Assistance (JIT) and ii) Operational Support (OS) in April 2021.

If you have any questions regarding the program, feel free to contact gscp@worldbank.org

Around the WBG

GPURL Live Session: A Frank Conversation about Cities Data and Technology

The strong proponents of smart cities have hailed the Covid-19 pandemic as the long-awaited lubricant to accelerate the materialization of smart cities. In the other camp are those who perceive smart city enthusiasts as wearing rose-colored tech glasses, while ignoring the questions of how technology interacts with broader social and political challenges. Against this backdrop, this session brought together experts with divergent perspectives on cities and technology.

Recording and Presentations (TBA here)

New App: Advanced Practices for Environmental Excellence in Cities (APEX)
An investment planning tool for green cities

Recently developed by IFC, APEX app allows city planners to make cities more sustainable in four key areas—energy, water, waste, and public transport. It harnesses the insights from advanced green practices around the world to show what these practices mean for your city, based on your local context. A beta version of the app is available to city leadership and currently being piloted on IFC's client cities. Once the design is finalized, the complete version will be simple, free, and accessible to everyone—from casual audiences to serious users.

Read more...
Go to the website

IDENTIFY INVESTMENTS
suitable for green
financing

DEVELOP STRATEGIES
for the long-term
(e.g., climate action plans)

ASSESS AND TRACK
the performance of
your city

Geo-powering Cities for Resilience - *City Planning Labs*
City Planning Labs (CPL) team organized this session at the UR2020 Global Conference to share their experience on how geospatial data ecosystem is key to creating more resilient, sustainable and smarter cities. During the session, participants were introduced the flagship Municipal Spatial Data Infrastructure (MSDI) approach and the four pillar Institutional-People-Data-Systems (IDPS) Framework which is used geo-powering the cities. CPL also showcased several of their technological innovations such as One Data Portal that offers a centralized data system that reduces fragmentation across agencies. The session concluded with a global panel of experts, including Liyang Lim (Deputy Director, Singapore Land Authority), Marcelle Hattingh (Director, Corporate Geo-Informatics (CGIS), City of Johannesburg) and a private sector partner working with cities in Mexico, Carmen Valdez (Senior Urban Expert and Coordinator, CAPSUS). They discussed how they have successfully operationalized the spatial data infrastructure approaches in Singapore, South Africa, and Mexico, respectively and why cities need to invest in municipal spatial data infrastructure.

Future World Vision: Mega City 2070 - *RDRM GSG*
Jerry Buckwalter from the American Society of Civil Engineers (ASCE) presented the Future World Vision project (a world constructed in a real-time 4-D computer simulation model): putting engineers in a position to anticipate and prepare for future changes using data-driven, in-depth scenario planning analysis. This system has the potential to help ensure that the decisions we make, in building high-tech, resilient, and sustainable communities of the future, optimize desirable outcomes while avoiding undesirable and unintended consequences.

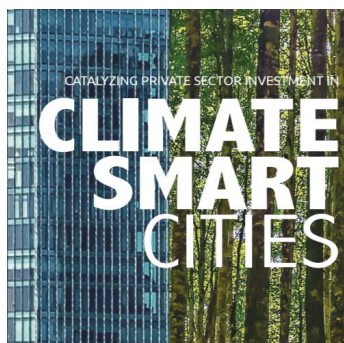**Digital Innovation 2020: Moving Beyond the Hype** - *World Bank Singapore*
Technology buzzwords like IoT, Smart Cities, PropTech & 5G, rarely live up to the hype. In this webinar, Charles Reed Anderson - one of Asia's leading technology industry innovators and thought leaders explained the ecosystem challenges that hold the industry back and the emerging market drivers that

are creating the next wave of opportunities. The session focused on the following topics: (i) Smart Cities 2020: A New Way Forward, (ii) 5G, IoT & the Path to Ecosystem Collaboration, (iii) Smart Buildings & the Future of Work in a post-COVID World.
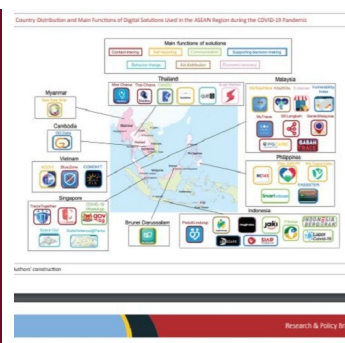
Publications

[Technology Transfer and Innovation for Low-Carbon Development](#)

[Catalyzing private sector investment in climate smart cities](#)

[UNDP Playbook on Smart Urban Innovations - Archetypes from Global Cities](#)

[Leveraging Digital Solutions to Fight COVID-19: Lessons from ASEAN Countries](#)

In the News

[• Singapore is building a 42,000-home eco 'smart' city](#)

Promising 42,000 new homes across five residential districts, the eco-town of Tengah -- the Malay word for "middle," though it's in the island's western region -- will be the 24th new settlement built by Singapore's government since World War II. It is, however, the first with centralized cooling, automated trash collection and a car-free town center, which conservationists hope offers a roadmap for slashing carbon emissions in the Southeast Asian city-state.

[• Japan's human-centred smart cities enhancing well-being](#)

In Japan, there are plans to create a new type of human-centered smart society. They're calling it, Society 5.0. Aizuwakamatsu and Arap are two towns that have adopted the latest technologies to solve existing problems and improve people's well-being.

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