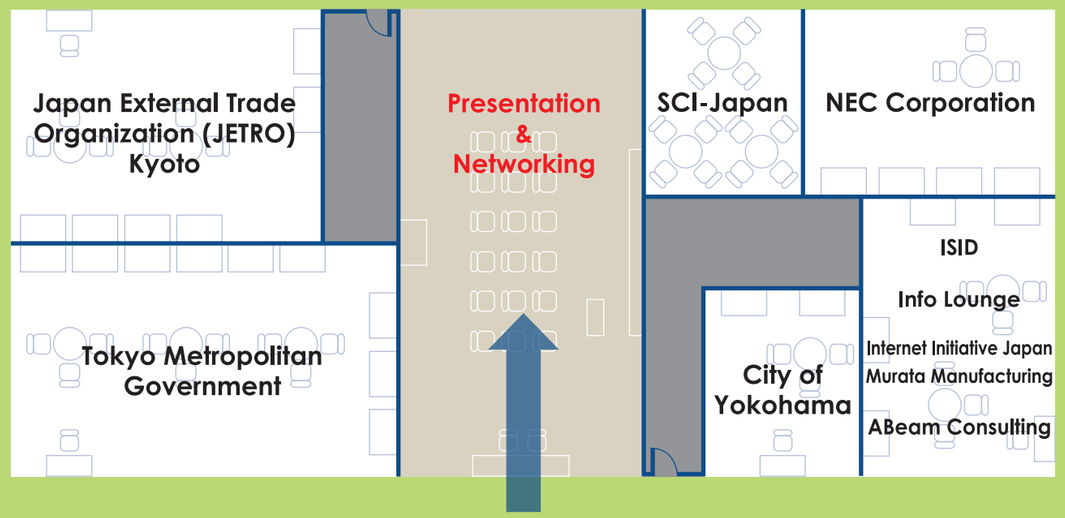
SMARTCITY
EXPO WORLD CONGRESS

15 - 17 NOVEMBER 2022
BARCELONA & ONLINE

Digital Garden City Nation Initiative

Japan Pavilion Booth Layout



Presentation Stage “Digital Garden City Theater”

* Please check the program (P.3 & P.4) and enjoy networking

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Vision for a Digital Garden City Nation:

Achieving Rural-Urban Digital Integration and Transformation

Organized by Smart City Institute Japan

Greeting from Smart City Institute Japan

Smart City for Coexistence with Nature

Smart City Institute Japan
Representative Director
Noriyuki Yanagawa

As Smart City Institute Japan, we will be exhibiting at the Japan Pavilion at Smart City Expo World Congress 2022 in Barcelona. I am looking forward to communicating with leaders and experts of smart cities around the world. We would like to introduce our initiatives on Japan's smart cities and the Liveable Well-Being City Index (LWCI) developed by SCI-Japan.

Smart cities aim to create liveable cities through the use of data and technology. But in addition, urban development that approaches carbon neutrality is important. This momentum is growing in the world as a result of the COVID-19, but it is also a trend that exists before the COVID-19, especially in Europe. When I met the people of Europe, I had the experience of discussing smart cities not only from the viewpoint of using data but also from the viewpoint of building environmentally friendly cities and communities.

Nevertheless, given that the way of living in harmony with nature and the development of cities have taken root in Japan as a culture, we believe that the concept of environmentally-friendly cities and towns can be disseminated to the world with the concept originating in Japan. It is important for smart cities to tackle climate change, including those aspects, and to address the issue as a country with traditional considerations for the environment.

The LWCI Indicators will be one of the important KPI for the Japanese cities to implement the Digital Garden City National Initiative as LWCI has been endorsed by the Japanese Government. We would like to deepen our collaboration with the cities around the world so that LWCI can be utilized together not only in Japan but also in cities around the world to enhance the well-being of citizens.

SCEWC introducing Japan Pavilion Stand for the first time

"Digital Garden City Nation Initiative for Regional Well-Being with Open innovation"

Smart City Institute Japan (SCI-Japan) is a private sector-led non-profit organization that was founded in October 2019 by Mitsubishi UFJ Research & Consulting, a think tank and a consulting firm, and NIKKEI, Asia's leading economic media group. SCI-Japan is leading knowledge and public-private-academic partnership platform to promote the expansion and advancement of smart cities in Japan and the world with over 590 members and global partners.

SCI-Japan will organize "Japan Pavilion" at Smart City Expo/World Congress 2022 in Barcelona for the first time, having their members' exhibits from local governments and private sectors under the Japan's smart cities vision "Digital Garden City Nation Initiative for Regional Well-Being with Open Innovation.

1) Focal points of Japan Pavilion

- Disseminating information on Japan's smart city initiatives to world smart city leaders to promote "City-to-City" collaboration for people-centric sustainable smart city and climate neutral society,
- Introducing smart city initiatives in Japan, which aims to promote citizen's "Well-Being" in the region through a human-centered, participatory, and public-private co-creation business model.

2) "Digital Garden City Theater"

- Video Message from Mr. Taro Kono, Minister for Digital Transformation
- Announcement of "Liveable Well-Being City Indicators (LWCI)" as KPI of Regional Well-being Goal in Digital Garden City Nation Initiative
- Dialogue or Start-up pitch session between Japan and other countries/cities.
  e.g. Catalonia, Barcelona, UK, Finland, Holland, Denmark
- Business matching opportunities in exhibition area and networking space
- Japan Night (Invitation Only)

3) Exhibitors List

- Tokyo Metropolitan Government
- JETRO Kyoto / Kyoto Prefecture / ATR
- City of Yokohama
- NEC Corporation
- ISID
- Info Lounge
- Internet Initiative Japan / Murata Manufacturing
- ABeam Consulting
- Smart City Institute Japan (SCI-Japan)

Please visit SCI-Japan Web site

Japan Pavilion Event Program

＊Program is subject to change without notice.

DAY 1 NOVEMBER 15 (TUESDAY)

Time	Speakers	Title and Speakers
10:00 - 10:45	**Smart City Institute Japan**	**Liveable Well-Being City Indicator (LWCI) A New Smart City Approach from Japan** Takehiko Nagumo, Executive Managing Director, SCI-Japan
11:00 - 11:30	**Tokyo Metropolitan Government** (Exhibitor)	**Toward Tokyo's Future** Tokyo Metropolitan Government, Takehiko Nagumo, SCI-Japan
11:30 - 12:00	**NEC Corporation** (Exhibitor)	**NEC's vision of smart cities towards sustainable society** Mr. Koji Kikuchi, Senior Director, Cross-Industry Unit, NEC Corporation, Takehiko Nagumo, SCI-Japan
12:00 - 12:30	**JETRO Kyoto, Kyoto Prefecture, ATR** (Exhibitors)	**Overview of Kyoto Startups** Mr. Sho, JETRO Kyoto, Mr. Suzuki, ATR, Mitsufuji Corporation, KYOTO's 3D Studio, KBCols, Takehiko Nagumo, SCI-Japan
12:30 - 12:45	**Internet Initiative Japan, Murata Manufacturing** (Exhibitors)	**Data supply chain across the border** Internet Initiative Japan, Murata Manufacturing, SCI-Japan
12:45 - 13:00	**Yokohama International Affairs Bureau** (Exhibitor)	**Introduction to smart city initiatives by City of Yokohama** Yokohama International Affairs Bureau, SCI-Japan
13:00 - 13:45	**Barcelona - Japan Joint Event**	**City-to-City collaboration for co-creation of smart city business model** Barcelona City, Takehiko Nagumo, SCI-Japan
13:45 - 14:00	**ABeam Consulting** (Exhibitor)	**How data can turn into new ideas for Smart Cities** Mr. Satoshi Tachibana, Executive Officer, Principal, Digital X Innovation Sector Leader, Digital Technology Business Unit, ABeam Consulting, SCI-Japan
14:00 - 14:30	**Tokyo Metropolitan Government** (Exhibitor)	**Toward Tokyo's Future** Tokyo Metropolitan Government, SCI-Japan
14:30 - 14:45	**ISID** (Exhibitor)	**Decision-making platform, accelerating Zero Carbon City scenario with collaboration among local-government, businesses, and citizens (Shizuoka City case)** Mr. Tatsuya Nakata, Senior Consultatnt, Ms. Moeri Hara, Consultatnt, ISID, SCI-Japan
14:45 - 15:15	**Kyoto Prefecture** (Exhibitor)	**Smart City Initiatives in Kyoto** Mr. Akimasa Yamashita, Vice Governor, Kyoto Prefecture Takehiko Nagumo, SCI-Japan
15:15 - 15:30	**Info Lounge Corporation** (Exhibitor)	**How to improve your open data more valuable using Datashelf Management Suite** Mr. Masaki Hidano, Info Lounge Corporation CEO, SCI-Japan
15:30 - 16:00	**NEC Corporation** (Exhibitor)	**NEC's success cases in Europe** Mr. Jose Luis Mate, General Manager, NEC Europe Ltd. Takehiko Nagumo, SCI-Japan
16:00 - 16:45	**Finland - Japan Joint Event**	**LWCI and Tampere collaboration** Mr. Teppo Rantanen, Mrs. Outi Valkama, Takehiko Nagumo, SCI-Japan
16:45 - 17:15	**Presentation by Cabinet Office, Super Cities** (Osaka Prefecture, Tsukuba City)	**Efforts of Super Cities Leading Digital Garden City Initiative** Mr. Kenji Matsuno, Cabinet Office, Mr. Fujimitsu, Tsukuba City, Mr. Miyata, Osaka Prefecture, Takehiko Nagumo, SCI-Japan
17:30 - 19:00	**Japan Night (Invitation Only)**	**Co-organized by Consulate-General of Japan in Barcelona** **"Japanese Sake" arranged by Yashima**

＊Program is subject to change without notice.

DAY 2 November 16(Wednesday)

Time	Speakers	Title and Speakers
10:00 - 10:45	**UK - Japan Joint Event**	**Utilization of Open Data and Protection of Privacy** UK Government, Takehiko Nagumo, Executive Managing Director, SCI-Japan
11:00 - 11:30	**Tokyo Metropolitan Government** (Exhibitor)	**Toward Tokyo's Future** Tokyo Metropolitan Government, SCI-Japan
11:30 - 12:00	**NEC Corporation** (Exhibitor)	**NEC's vision of smart cities towards sustainable society** Mr. Koji Kikuchi, Senior Director, Cross-Industry Unit, NEC Corporation, SCI-Japan
12:00 - 12:30	**JETRO Kyoto, Kyoto Prefecture, ATR** (Exhibitors)	**Overview of Kyoto Startups** Mr. Sho, JETRO Kyoto, Mr. Suzuki, ATR, Mitsufuji Corporation, KYOTO's 3D Studio, KBCols, Takehiko Nagumo, SCI-Japan
12:30 - 12:45	**Internet Initiative Japan, Murata Manufacturing** (Exhibitors)	**Data supply chain across the border** Internet Initiative Japan, Murata Manufacturing, SCI-Japan
12:45 - 13:00	**Yokohama International Affairs Bureau** (Exhibitor)	**Introduction to smart city initiatives by City of Yokohama** Yokohama International Affairs Bureau, SCI-Japan
13:00 - 13:45	**Finland - Japan Joint Event**	**AuroraAI initiative and regional implementation with Tampere** Business Tampere, Takehiko Nagumo, SCI-Japan
14:00 - 14:15	**ABeam Consulting** (Exhibitor)	**How data can turn into new ideas for Smart Cities** Mr. Satoshi Tachibana, Executive Officer, Principal, Digital X Innovation Sector Leader, Digital Technology Business Unit, ABeam Consulting, SCI-Japan
14:15 - 14:45	**Tokyo Metropolitan Government** (Exhibitor)	**Toward Tokyo's Future** Tokyo Metropolitan Government, SCI-Japan
14:45 - 15:00	**ISID** (Exhibitor)	**Decision-making platform, accelerating Zero Carbon City scenario with collaboration among local-government, businesses, and citizens (Shizuoka City case)** Mr. Tatsuya Nakata, Senior Consultatnt, Ms. Moeri Hara, Consultatnt, ISID, SCI-Japan
15:00 - 15:30	**JETRO Kyoto, Kyoto Prefecture, ATR** (Exhibitors)	**Overview of Kyoto Startups** Mr. Sho, JETRO Kyoto, Mr. Suzuki, ATR, Mitsufuji Corporation, KYOTO's 3D Studio, KBCols, Takehiko Nagumo, SCI-Japan
15:30 - 15:45	**Yamate Planning Cabin** (Exhibitor)	**XR solution for urban planning with citizen. It is able to manipulate the digital twin with tangible interface** Mr. Kimikazu Kataoka, Yamate Planning Cabin CEO, SCI-Japan
15:45 - 16:15	**NEC Corporation** (Exhibitor)	**Data Spaces and FIWARE – the case for a new data economy** Dr. Ernö Kovacs, Senior Manager, Data Ecosystems and Standards, NEC Laboratories Europe, Takehiko Nagumo, SCI-Japan
16:30 - 17:00	**Graduate School of SDM, Keio University**	**Human Resource Development of Smart City Architect** Mr. Seiko Shirasaka, Professor, Mr. Makoto Yamasaki, Project Assistant Professor, Ms. Urara Satake, Project Assistant Professor, Graduate School of SDM, Keio University SCI-Japan
17:00 - 17:30	**Joint Event with World Economic Forum**	**Japan Community** Mr. Rushi Rama, World Economic Forum, Cities in Japan, SCI-Japan
17:45 - 19:00	**Japan Night (Invitation Only)**	**Co-organized by Consulate-General of Japan in Barcelona** **"Japanese Sake" arranged by Yashima**

DAY 3 November 17(Thursday)

Time	Speakers	Title and Speakers
10:00 - 10:30	**Tokyo Metropolitan Government** (Exhibitor)	**Toward Tokyo's Future** Tokyo Metropolitan Government, Takehiko Nagumo, SCI-Japan
10:30 - 10:45	**Internet Initiative Japan, Murata Manufacturing** (Exhibitors)	**Data supply chain across the border** Internet Initiative Japan, Murata Manufacturing, SCI-Japan
10:45 - 11:00	**Yokohama International Affairs Bureau** (Exhibitor)	**Introduction to smart city initiatives by City of Yokohama** Yokohama International Affairs Bureau, SCI-Japan
11:00 - 11:30	**Joint Event with FIWARE Foundation**	**Implementation of FIWARE in Japan** FIWARE Foundation, Takehiko Nagumo, SCI-Japan
11:30 - 11:45	**NEC Corporation** (Exhibitor)	**NEC's vision of smart cities towards sustainable society** Mr. Koji Kikuchi, Senior Director, Cross-Industry Unit, NEC Corporation, Takehiko Nagumo
11:45 - 12:00	**Denmark - Japan Joint Event**	**Toward cooperation between living labs in Japan and Nordic Countries** Ms. Mika Yasuoka-Jensen, Mr. Jacob Norman Hansen, BloxHub Takehiko Nagumo, SCI-Japan
12:30 - 13:00	**ABeam Consulting** (Exhibitor)	**How data can turn into new ideas for Smart Cities** Mr. Satoshi Tachibana, Executive Officer, Principal, Digital X Innovation Sector Leader, Digital Technology Business Unit, ABeam Consulting, SCI-Japan
13:00 - 13:15	**Tokyo Metropolitan Government** (Exhibitor)	**Toward Tokyo's Future** Tokyo Metropolitan Government, Kazunari Kudo, SCI-Japan
13:15 - 13:45	**ISID** (Exhibitor)	**Decision-making platform, accelerating Zero Carbon City scenario with collaboration among local-government, businesses, and citizens (Shizuoka City case)** ISID, SCI-Japan
13:45 - 14:00	**Info Lounge Corporation** (Exhibitor)	**How to improve your open data more valuable using Datashelf Management Suite** Mr. Masaki Hidano, Info Lounge Corporation CEO, SCI-Japan
14:00 - 14:15	**NEC Corporation** (Exhibitor)	**Data Spaces and FIWARE – the case for a new data economy** Dr. Ernö Kovacs,Senior Manager, Data Ecosystems and Standards, NEC Laboratories Europe, Takehiko Nagumo, SCI-Japan
15:00 - 16:30	**ATR** (Exhibitor)**, Catalonia**	**Kyoto & Catalonia Startup Ecosystem Showcase! '- KGAP+ Batch9 ACCIO Challenge -'** ATR (Exhibitor) , Catalonia, SCI-Japan
16:45 - 17:00	**SCI-Japan Closing**	**SCI-Japan Closing** Mr. Noriyuki Yanagawa, Representative Director, Takehiko Nagumo, SCI-Japan

Tokyo Metropolitan Government

"Sustainable High City Tech Tokyo" for Stronger Intercity Collaboration

Vice Governor of Tokyo
Manabu Miyasaka

Humankind is now facing two major threats: infectious diseases and the climate crisis. The whole world shares the common challenges of overcoming these two crises, carving a bright future, and leaving an abundant planet to following generations.

With it said that 70 percent of the world's population will be residing in cities by 2050, the roles that cities must play are growing increasingly important.

To fulfill this responsibility, based on Future Tokyo: Tokyo's Long-Term Strategy, with a focus on turning risk into opportunity, the Tokyo Metropolitan Government has launched initiatives in the areas of "green" and "digital." These take up the huge challenge of making Tokyo, a megacity with a population of 14 million, resilient against the threat of infectious diseases and climate change without stopping its functions, and becoming a sustainable city that is chosen by the world.

Key to this is urban infrastructure. Japan is one of the world's most earthquake-prone countries, and because it is surrounded on all sides by ocean, it is also at very high risk of damage from floods and storms such as typhoons. The lives and assets of our people have been protected by a robust urban infrastructure that has been built up over many long years. While firmly maintaining this foundation, we are substantially upgrading it through the power of digital technology. This is the enormous project that the Tokyo Metropolitan Government is now undertaking.

Crucial here is stronger intercity collaboration. The Tokyo government will take the initiative in sending out to the world various ideas and technologies for overcoming challenges, and with other cities of the world, strive to find solutions to global urban issues. Under the concept of SusHi Tech Tokyo, an acronym of Sustainable High City Tech Tokyo, we will hold big international events in February 2023. These include City-Tech.Tokyo, an international event that will gather companies and investors from Japan and abroad to support startups in taking up challenges, and a meeting of city leaders for G-NETS, a new international network that was established under the initiative of Tokyo. Both events will focus on the role of cities from now on, and aim to go beyond national borders so that we can, together with the many participants, carve our future.

With your participation in these events, I hope we can together take the first steps toward this goal. Be sure to keep your eyes on Tokyo.

City-Tech.Tokyo

HIGHLIGHT

At our booth, we are broadly introducing the current situation of Smart Tokyo, from digital initiatives aiming for an urban OS in Tokyo with our sights on the advent of a data-driven society, to physical measures for enhancing urban resilience and building a robust infrastructure in preparation for natural disasters.

[Best practices in central Tokyo]

Areas introduced here are smart city developments led by the private sector, which are being promoted under the support of the Tokyo Metropolitan Government.

- Otemachi/Marunouchi/Yurakucho area (Mitsubishi Estate)
- Takeshiba area (Tokyu Land Corporation, Softbank)
- Toyosu area (Shimizu Corporation)

A vision for the future Tokyo Bay Area

[Startups]

Anticipations are held on startups as the flagbearers opening Tokyo's future. With the aim to be the most startup-friendly city in the world, Tokyo is providing various opportunities to startups.

- Psychic VR Lab
- TBM

Psychic VR Lab TBM

[Tokyo Bay eSG Project]

A program that aims for a Smart Tokyo further into the future is the Tokyo eSG Project. This envisions community development in the Bay Area 50 to 100 years into the future. It aims for sustainable urban development that integrates a prosperous economy and the richness of nature full of greenery and the waterfront. We plan to hold an event in spring 2024 that will allow people to catch a glimpse of this future of Tokyo.

Please enjoy experiencing the Tokyo of today and in the future.

TOKYO METROPOLITAN GOVERNMENT

Tokyo Metropolitan Government
2-8-1 Nishishinjuku, Shinjuku-ku, Tokyo, Japan
URL: https://www.metro.tokyo.lg.jp/english/index.html

Japan External Trade Organization (JETRO) Kyoto

Kyoto's Endless Effort towards Achieving a Better Smart City

Kyoto Prefecture, especially Keihanna Science City (located south of Kyoto Prefecture and has more than 150 research, educational, and cultural facilities in an open innovation center), has accumulated advanced basic research in collaboration with industry, academia, and local government.

This huge Science City has an environment that makes it possible to conduct demonstration projects with the participation of local residents. Taking full advantage of the above environment and using ICT, we Kyoto are making endless efforts to achieve a better smart city.

Since 2014, Keihanna Science City has hosted the annual Kyoto Smart City Expo. This event synthesizes information on advanced initiatives and provides a forum for BtoB and BtoG (Business to Government) exchanges between local governments and private enterprises from all over Japan. It also supports business creation through global open innovation with events such as pitch meetings, ideathons and hackathons featuring both Japanese and overseas startups.

We also have a plan called "Digital Garden City Nation Initiative" that will expand smart life services such as user behavior change, health promotion, and consumption promotion by developing wearable devices (smart watches) and digital signage and linking services.

HIGHLIGHT

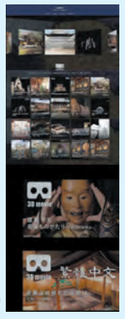
Kyoto Startups : Creative and Sustainable Solutions

Our Kyoto booth introduces efforts of Kyoto Prefecture and its startups towards achieving the sustainable city. We hope that you all will gain an overview of Kyoto startups and better understanding of Kyoto's investment environment.

We have three companies with strong ties to Kyoto in our booth.

KYOTO's 3D STUDIO Inc. uses 3D technology to preserve Kyoto's historically important cultural properties in a sustainable way. They provide solutions and online digital content services to the cultural properties having trouble securing independent financial resources for preservation and restoration.

3D scan of 13C Buddhist statue (Important Cultural Property)



One-stop online viewing service website "TANBOW"

Mitsufuji Corporation, originally established as a factory of Nishijin obi (sash), transformed into an IoT company. Their wearable products have an end-to-end solution called "hamon" that consists of woven smart-wear with silver-metalized fiber named AGposs. It gives useful insights on the wearer's health conditions.

This wearable product gives information on the wearer's health condition

Silver metalized fiber named AGposs

KBCols, one of the startups that participated in KGAP+ (acceleration program in Kyoto), produces sustainable natural colors from small living safe micro-organisms. Microbes which are omnipresent in nature (and not visible to naked eye), are sourced by KBcols through their technology to get natural colors of choice.

Final Outfits designed using KBCols bio-colors in collaboration with Dutch Fashion house "Hui Le Kes"

KBCols Bio-colors in powder form (Final product)

We hope you all will get to know more about Kyoto as a "Startup Capital" and the initiatives of Kyoto startups through our booth.

JETRO
Japan External Trade Organization

Japan External Trade Organization (JETRO) Kyoto
RM308, 78 Kankoboko-Cho, Muromachi Higashi-Iru, Shijo-Dori, Shimogyo, Kyoto, 600-8009, Japan
URL : https://www.jetro.go.jp/jetro/japan/kyoto/ E-mail : KYO@jetro.go.jp

NEC Corporation

Social implementation and advanced future with broad range of NEC's Smart City solutions

NEC Corporation
Development Division
Smart City Business
Managing Director
Yuji Onoda

NEC has been working closely with many local governments in the world and introducing our wide range of Smart City solutions.

It was back in 2011 when NEC had started contributing to development of FIWARE in Europe, since we had recognized the benefits of the opensource software. We have integrated FIWARE into NEC City OS and Centralized City Operation Center. We have delivered them to several cities. NEC City OS becomes a foundation for Smart City with data exchange platform role across domains, such as healthcare, mobility, tourism, disaster management, etc. NEC also provides various services for each domain, consultation for Smart City planning, and more.

Currently, Smart City is in a transition phase from pilot to social implementation. In order to make sure the transition, NEC has recently established a new consortium, called Smart City Social Implementation consortium. Public-private cooperation there will mature Smart City eco-system. In addition to that, NEC has established a FIWARE iHub as the first one in East Asia.

With our Smart City solutions, we are aiming to support to build three important pillars for each city: revitalization of local economic circulation, improvement of QoL for residents and visitors, and resolution of region-specific issues. Those will raise well-being level in each city.

In Japan, digital garden nation cities initiative by government is encouraging a large number of cities to start implementing Smart City solutions. With our Smart City solutions, as well as insights from our long and deep experience in the market, NEC is leading to expand social implementation of Smart City.

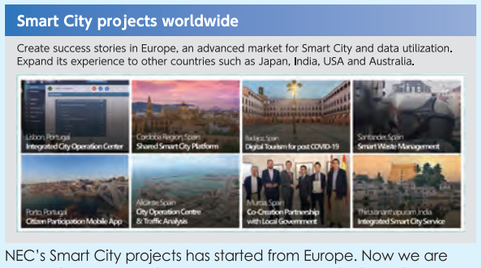
Our belief is that every region has their own unique value, and Smart City solutions will help to preserve them and evolve them using benefit from our advanced digital technology and successful collaboration experiences. We hope you will find our exhibition exciting and get connected for creating sustainable future together.

HIGHLIGHT

NEC's Vision of Smart City

NEC hold vision to contribute every cities to evolve with their own unique value as foundation for our Smart City activities

Smart City implementation in the global market



NEC's Smart City projects has started from Europe. Now we are expanding those achievements to other countries including Japan

We are welcome you with our four exhibitions at NEC booth in Japan pavilion.

1. **Smart City vision and it's future**
   Introduction to future of Smart Cities with society and life in metaverse, and advanced simulation by digital twin. You will see how future society may look like with advancement of digital technology.
2. **Implemented use cases in Japan**
   Use cases of Smart City solutions for disaster management, mobility, healthcare, tourism, asset maintenance, and more, to solve regional issues through close collaboration with local governments. We also present our consultation services for financial feasibility for Smart City operations.
3. **Implemented use cases in other countries**
   Use cases in cities based on our successful experiences in global market.
4. **FIWARE iHub in Japan**
   Introduction to newly established FIWARE iHub in Japan, and NEC City OS, which give strong support for social implementation of Smart City.

\Orchestrating a brighter world
NEC

NEC Corporation
7-1, Shiba 5-chome Minato-ku, Tokyo 108-8001 Japan
URL : https://www.nec.com/en/global/insights/smart_city.html E-mail : sc_pr@cros.jp.nec.com

OPEN YOKOHAMA

Establishing a knowledge hub for smart city management

The City of Yokohama, in collaboration with international research institutions, inter-city networks, and leading private firms in Yokohama, has established the Y-PORT Center to provide smart urban solutions to cities in Asia and the world.

What Y-PORT Center offers

1. Providing best available urban solutions and practical smart urban management knowledge to cities in emerging economies.
2. Co-creating urban solutions through dialogue with private firms with cutting-edge technologies, cities, and global think tanks.
3. Enhancing communications with and gaining support from the government of Japan and donor agencies in the area of smart urban development.

Y-PORT CENTER
Yokohama Urban Smart Solution

Y-PORT Center Office
Yokohama International Organizations Center 6F,
1-1-1 Minatomirai, Nishi-ku, Yokohama, 220-0012,JAPAN
URL：https://yport.city.yokohama.lg.jp/en
E-mail：ki-yport@city.yokohama.jp

Zero Carbon Yokohama

Climate Change Policy Headquarters City of Yokohama

Since April 2015, we established the association to achieve an energy recycling city, named "Yokohama Smart Business Association (YSBA)", with major companies including Toshiba Energy Systems & Solutions Corporation, TEPCO Energy Partner, and so on.

With this Association, we are working to operate energy management systems, promote new initiatives, and develop technologies and systems we have cultivated over the years.

We are working through public-private partnerships to construct business models.

In Minato Mirai 21, central business district of Yokohama, we have strived to achieve net-zero CO_2 emissions from electricity consumption by 2030, utilizing public private partnership.

Climate Change Policy Headquarters
City of Yokohama
6-50-10 Hon-cho, Naka-ku, Yokohama 231-0005 Japan
URL：https://www.city.yokohama.lg.jp.e.sj.hp.transer.com/city-info/yokohamashi/org/ondanka/
E-mail：on-chosei@city.yokohama.jp

ABeam Consulting®

We provide solutions and innovates new value for Smart Cities

Future smart cities will require the innovation of new value for consumers through the evolution of industries such as Energy and Mobility, and the usage of digital technologies such as Digital Twin and AI. Thanks to our many years of consulting experience, ABeam Consulting possesses the knowledge of a wide range of industries and the solutions utilizing the latest technologies such as the data-driven solutions that expand business and ideas and the services developing the digital and ICT platform. We will continue to provide solutions creating new value, while establishing new industrial models and implementing Digital Twin platforms.

Build Beyond As One.
– We strive to be a creative partner.

With 4,100 consultants in Japan and 2,800 in overseas offices, ABeam and global alliance partners provide truly comprehensive services.

ABeam Consulting Ltd.
Digital Technology Business Unit DXI Sector
Contact info JPABDGTLTechDXI@abeam.com

iSiD

Decision-making platform, accelerating Zero Carbon City scenario among local-government, businesses, and citizens

The transition to carbon neutral largely depends on the success of Zero Carbon City. The acceleration of Zero Carbon City require local government, businesses, and citizens to work together in various sectors.

ClimateOS is a collaborative decision-making platform for cities to deliver an easy to understand shared and data-driven Climate Action Plan that attracts funding & financing.

This session will cover the case study of ClimateOS in one of Japanese cities.

ClimateOS | Decision-making platform for Zero Carbon City

ClimateOS platform designed for local governments to plan, simulate and execute their climate transition to enable cities to plan toward net-zero carbon dioxide.

Information Services International-Dentsu, Ltd. (ISID)
2-17-1, Konan, Minato-ku, Tokyo 108-0075, Japan
URL: https://www.isid.co.jp
E-mail: g-zerocarbon@group.isid.co.jp

INFO LOUNGE

Create a future of a city through utilizing data

Datashelf – Open Data Management Suite

Nowadays it became common that lots of cities provide their open data. However, some cities aren't managing it. You may find files with problems, such as broken links, not valid format, etc. We'll introduce how to improve data quality using Datashelf.

Tangible Interface XR – Urban Planning Platform

On the urban planning processes, it is necessary to listen to the opinion of variety of citizens and build up a common image of the future of a city. Our solution supports those processes by tangible interface that linked to the digital twin and AR.

Open data with improved quality and inter-operability can be used to solve many problems

We offer a variety of solutions that improve data quality and interoperability, and develop solutions using those data and new technologies.

Info Lounge Corporation
2F Centar Stage Building, 47-7 Chigasakichuo Tsuzuki-ku,
Yokohama-shi, Kanagawa 224-0032, Japan
URL: https://info-lounge.jp

IIJ Internet Initiative Japan

muRata INNOVATOR IN ELECTRONICS

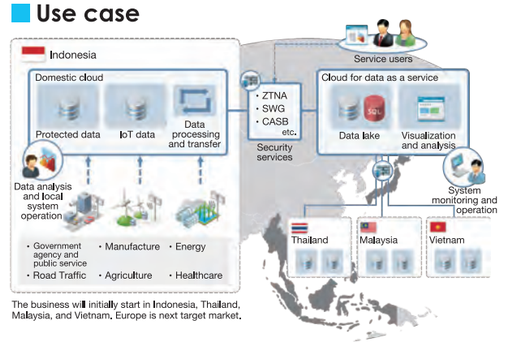
Global IoT Data Service Platform

An IoT platform that enables companies to expand their data businesses globally, providing features such as sensors and cloud services, and offering support in data analysis and sales.

We will develop a high-quality platform with guaranteed security for mainly Japanese companies developing in local markets mainly in Southeast Asia.

Both Murata and IIJ will capitalize on our technology and knowledge and experience to promote implementation of data business in Southeast Asia through the development of an IoT platform, eventually realizing a global data supply chain.

Use case



The business will initially start in Indonesia, Thailand, Malaysia, and Vietnam. Europe is next target market.

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Vision for a Digital Garden City Nation:
Achieving Rural-Urban Digital Integration and Transformation

To maintain future prosperity in the outlying regions of Japan and to encourage many people around the world to gain a deeper understanding of and connection with the country's rural areas, Prime Minister Kishida has put forward his Vision for a Digital Garden City Nation, which aims to achieve rural-urban digital integration and transformation.

* * *

Ⅰ Building digital infrastructure

90% 5G coverage

The first is the building of digital infrastructure that stretches to every corner of the country, comprising the following four goals: 1. The completion, in roughly three years, of a digital superhighway using submarine cables surrounding the islands of Japan; 2. The building of more than a dozen regional data centers in about five years; 3. Making optical fiber a universal service by 2030, with 99.9% coverage of households, and; 4. Achieving 5G coverage for 90% of the Japanese population by the end of fiscal 2023 (March 31, 2024).

The Tsuruoka Science Park, located among the beautiful rural scenery surrounding Tsuruoka City in Yamagata Prefecture in northern Honshu, is home to research institutes and venture companies that continue to create innovative technologies.

Ⅱ Developing and securing human resources with digital skills

2.3 million human resources

The second initiative is the development and securing of tech-savvy human resources. Aiming at the acquisition of powerful digital skills on the part of university students and those receiving vocational training, etc., the initiative will establish a program to annually train 450,000 personnel to be responsible for the promotion of digitalization in local regions, by the end of fiscal 2024 (March 31, 2025), reaching a total of 2.3 million by 2026.

Ⅲ Implementing digital services to solve rural issues

NEW digital services

The third initiative builds on the first two initiatives to provide new digital services. For example, the following goals will be being worked towards:
1. Realizing an agriculture sector by 2025 in which almost all farmers in the country will practice "smart agriculture" with advanced technology — including AI, robots, and IoT — for improved efficiency and productivity in the face of labor shortages due to an aging population
2. Implementing new mobility service initiatives across about 40% of local governments nationwide, such as setting up mobile clinics to eliminate medical disparities among regions.

Digital technology is being introduced into Japanese agriculture to improve the efficiency of farm work and the quality of products

Ⅳ Initiatives to leave no one behind

10,000 digitalization supporters

The fourth initiative will, in addition to the previous three initiatives, establish a human-resource support system to promote and realize a digital society where no one is left behind and where everyone can enjoy the benefits of digital technologies regardless of his or her age, gender, or geographical location, among other characteristics.

* * *

The above four initiatives, using digital technology, will realize new rural environments nationwide that are both convenient and attractive while maintaining their prosperity, and will revitalize Japan as a whole through the bottom-up growth emanating from such areas.

SOURCE: KIZUNA, the official e-magazine of the Government of Japan:
https://www.japan.go.jp/kizuna/2022/01/vision_for_a_digital_garden_city_nation.html

Takehiko Nagumo

Liveable Well-Being City Indicator
A New Smart City Approach from Japan

Smart City Institute Japan
Executive Managing Director
Takehiko Nagumo

Since its establishment in 2019, the Smart City Institute (SCI-Japan) has been advocating the importance of human-centric smart cities and community development. SCI-Japan has developed Japan's own evaluation system of well-being called the "Liveable Well-Being City Indicator (LWCI)" to further smart city development and improve citizen's well-being.

The introduction of the LWCI is a requirement for local governments to receive funding from the "Digital Garden City Initiative Promotion Subsidy". This Japanese government subsidy was introduced in FY 2022 for the national government to support local governments to use data technology and a data linkage platform for resolving local issues and revitalizing local economies. 27 regions (cities and prefectures) were selected as leading smart cities to receive the subsidy.

The LWCI was developed and introduced for the following purposes.

- Clarify "human-centric" principles in smart cities development.
- Visualize "Liveability" and "Well-being" from the viewpoint of citizens.
- Create opportunities for local governments to "refine originality" rather than compete their ranking.
- Introduce international frameworks such as WHO (World Health Organization).
- Utilize both objective and subjective data. Open and free.
- Use for EBPM (Evidence-based policy making) and wise pending in smart city development.

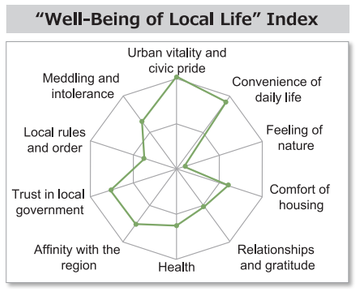
LWCI is a comprehensive evaluation tool of cities and the well-being of their citizens and is divided into three domains:

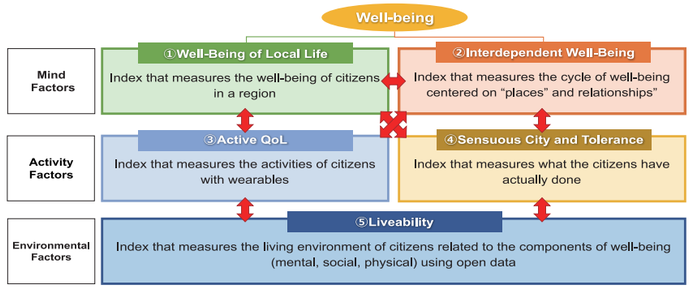
1) Subjective indexes of well-being (mind factors),
2) Indexes of activities (activity factors),
3) Living Environment Index (environmental factors).

There are two "subjective indexes of well-being" and two "indexes of activities". Thus, the LWCI is composed of five indexes measuring various aspects of citizens' lifestyle and well-being.

Both the open data of the "Living Environment Index" and the results of the survey conducted by SCI-Japan (for the "subjective indexes of well-being" and "indexes of activities") are published on our website.

We have started discussing introduction of the LWCI with Tampere City in Finland and hope that it will be used as a well-being framework by cities across the world. We look forward to discussing how we can collaborate with you on evaluating and improving the well-being of your city's citizens.





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