

Outline of Yokohama

Location of Yokohama



Population: 3.77 million (2022)

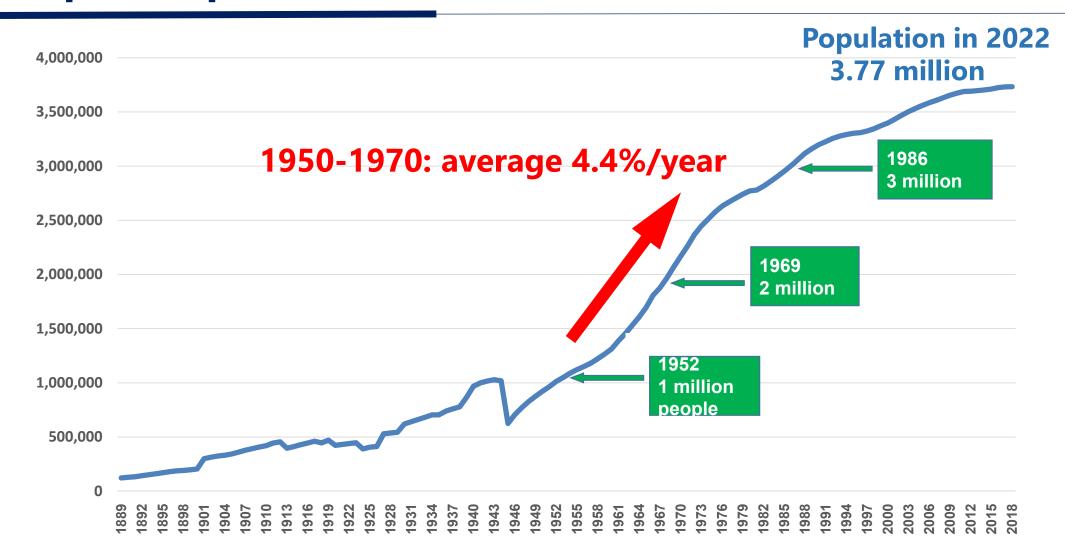
Households: 1.78 million(2022)

Area: 435km





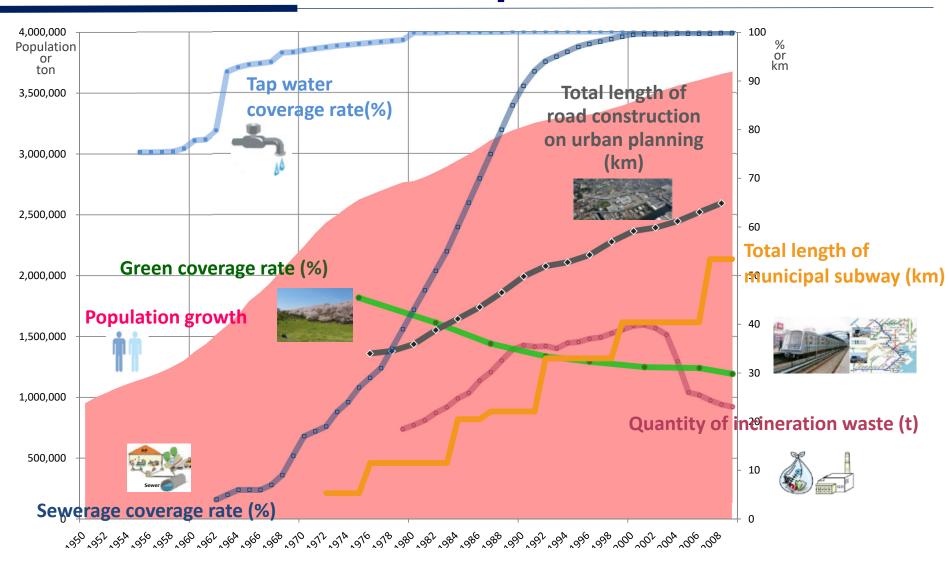
Rapid Population Growth



Challenges Caused by Urbanization



Urban Infrastructure Development



Yokohama Urban Development





Public Sector Experience in Urban Development





Private Sector Technologies and Services







Yokohama Urban Smart Solution

Platform for exporting Yokohama's urban development expertise as a comprehensive package, established by the City's International Affairs Bureau in 2011

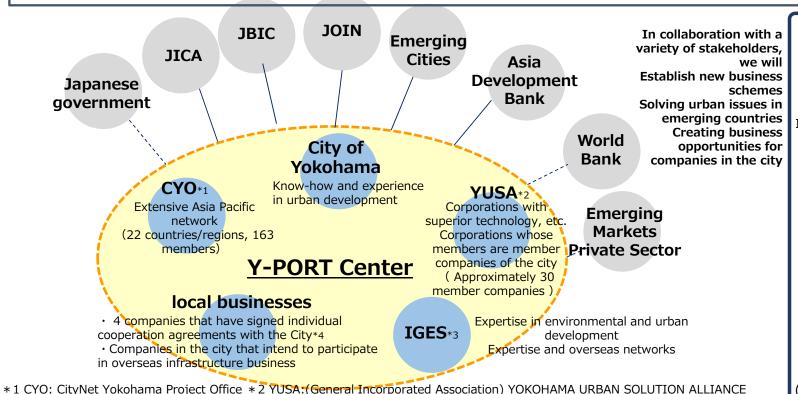
明日をひらく都市

OPEN X PIONEER

YOKOHAMA

Y-PORT Project Implementation Structure

- Launched in 2015 as a platform for promoting infrastructure business through public-private partnerships
- Established the Office of Public-Private Partnerships in 2017 as a center for collaboration. (Staff of International Cooperation Division and Ippan Shadan YUSA office are always present.)
- Cooperation with government agencies, international organizations, and companies in the city through partnership agreements





^{*3} IGES:(public interest incorporated foundation) Institute for Global Environmental Strategies *4 companies : July JFE Engineering Corporation, Chiyoda Corporation, Hitachi, Ltd.



International Cooperation Division, International Affairs Bureau, City of Yokohama



YUSA (General Incorporated Association) YOKOHAMA URBAN SOLUTION ALLIANCE



Y-PORT Center Public-Private Partnership Office Opened in July 2017

(Yokohama International Organizations Center 6F)

Yokohama Urban Solution Alliance (YUSA)





























































As of 1st June, 2023

City of Yokohama

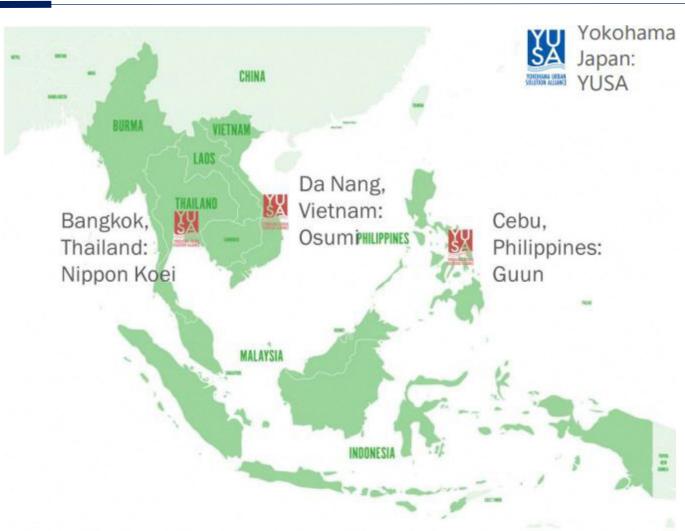


Cooperation Agreement between YUSA and City of Yokohama, 2017

Yokohama Urban Solution Alliance (YUSA) YOKOHAMA

Opened three overseas offices in collaboration with member companies in Bangkok, Thailand; Da Nang, Vietnam; and Cebu, Philippines (July 2022).

Overseas offices provide local coordination, marketing, and proposals for feasibility study schemes to support YUSA member companies in their overseas expansion.



Cyclical Schemes for the Expansion of Business in Infrastructure YOKOHAMA

City-to-City Collaboration 2. Ties with Companies 3. Sharing Information
Promotion of urban solutions and infrastructure business -







Encouraging and strengthening city-to-city collaboration YOKOHAMA

Cities that have signed a MoU on Technical Cooperation for Sustainable Urban Development with Yokohama

Bangkok



- ➤ Bangkok Master Plan on Climate Change
- Installation of rooftop solar generators and energy management systems at factories

Da Nang

- ➤ Da Nang Urban Development Action Plan
- > Energy efficiency diagnostic service for hotels, factories, etc.
- Installation of high-efficiency pumps at Da Nang Water Supply facility

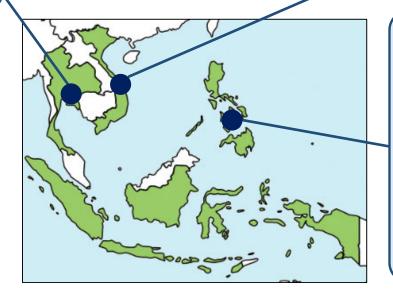




Joint Development/Smart City Projects through collaboration with YUSA

Formation of joint development/smart city projects through collaboration with YUSA based on requests for cooperation from private developers in the ASEAN region.





Cebu



- ➤ Mega Cebu Roadmap 2050
- Waste plastic recycling
- High-efficiency treatment of septage

12



Cooperation with Companies in Yokohama

明日をひらく都市 **OPEN X PIONEER** YOKOHAMA

By overseeing 79 surveys and verification projects, the City of Yokohama has contributed to the business of local companies, which received 24 business orders.

City-to-City Collaboration and **Municipal Plan Formulation**

Survey and Verification

Building and Expanding Business

Bangkok

Support for Planning and technical implementation



- JICA promotion of overseas expansion of SMEs
- MoEJ's overseas promotion of waste management and recycling industry
- MoE1's 1CM-related business feasibility study project
- JICA private sector proposal-based promotion and verification project
- MoEJ's' Innovation creation project for emerging countries



Finetech

Supply of electricity via solar panels on facilities (JCM)



KOEI

Overseas branch, conducting survey of proper disposal and recycling of IT equipment

Da Nang

Support for Planning and technical implementation

Cebu

Support for

technical

Planning and



Yokohama Water

Implementation of high efficiency water supply pumps at the water treatment plant (JCM)



OSUMI

Overseas office, offering energy efficiency evaluation and consultation services



Construction of sludge treatment plant



Detail design and construction management



GUUN

Recycle plant, producing alternative fossil fuels



International Presence

Broader and stronger network via Asia Smart City Conference 44 cities and governmental organizations from overseas (2023)

Leadership among Asian cities







Role models for inter-city collaboration

Bangkok

Da Nang

Cebu















Showcase of companies expanding infrastructure abroad







Examples of commercialization of projects assisted by Y-PORT



SME





(1) Waste plastic recycling in Metro Cebu, Philippines: Guun Co., Ltd. (Kanazawa Ward)



SME

SME

Large

13 SHREET

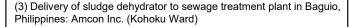


SME





(2) Installation of high-efficiency pumps at Da Nang Water Supply in Da Nang, Vietnam: Yokohama Water Co., Ltd. (Naka Ward)





SME







(4) Supply of electricity to factory in Bangkok, Thailand from rooftop solar generator and advanced energy management system: Finetec Co., Ltd. (Midori Ward)



(5) Water leak detection training for Bangalore Water Supply and Sewerage Board staff in Bangalore, India: Suidou Technical Service Co., Ltd. (Asahi Ward)











(6) Consultation in support of smart city development at industrial park for Amata Corp. in Chonburi, Thailand: YUSA (Naka Ward)



YUSA





17 (6-17-1-17) 1944/161-17

(7) Consultation in support of smart industrial park development planning for private sector in Chachoengsao, Thailand: YUSA (Naka Ward)



(8) Construction of Yen Xa wastewater treatment plant in Hanoi, Vietnam: JFE Engineering Corp. (Tsurumi Ward)





SME





(9) Delivery of water improvement system to hotel in Zamyn-Üüd, Mongolia: Toshi Kogyo Co., Ltd. (Minami Ward)

Examples of commercialization of projects assisted by Y-PORT



SME









YUSA











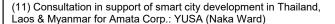
YUSA







(10) All-in-one energy efficiency support services for private-sector factories etc. in Da Nang, Vietnam: Osumi Co., Ltd. (Seya Ward)



(12) Consultation in support of smart city development in Quang Ninh, Vietnam for Amata Corp.: YUSA (Naka Ward)





YUSA









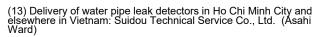


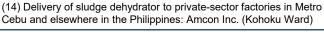
SME





(15) Energy efficiency improvement for water intake pumps in Ho Chi Minh City, Vietnam through installation of inverters: Yokohama Water Co., Ltd. (Naka Ward)

























(16) Consultation in support of smart city development in Thailand, Laos, Myanmar & Vietnam for Amata Corp.: YUSA (Naka Ward)

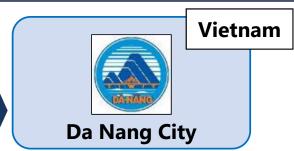


(19) Installing sterilization equipment (autoclave) to a large-scale vaccination site for COVID-19 in Metro Cebu. Philippines: Guun Co... Ltd. (Kanazawa Ward)

City-to-City Collaboration with Da Nang City

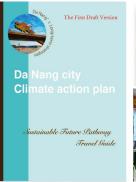
- In 2022, Da Nang became the first municipality in Vietnam to announce its goal of achieving carbon neutrality by 2050.
- Yokohama, in cooperation with Da Nang, is promoting an city-to-city collaboration project supported by the Ministry of Environment for the formation of JCM projects.
- In addition, Yokohama, JICA, and YUSA member companies are working together to conduct surveys and technical cooperation on energy conservation, waste, and sewage treatment.





Major recent cooperation in the field of climate change

- Supporting the formulation of the "10-Year Environmental Plan" (2021-2030)
- Supporting the establishment of carbon management system
- Developing smart and sustainable urban planning strategies
- Education for climate change





City-to-City Collaboration with Metro Cebu

- In Metro Cebu, JICA, Yokohama, and YUSA member companies are working together to improve waste management by promoting recycling of organic waste and waste plastics, and to construct a sludge treatment facility.
- In order to create packaged solutions (disaster relief, material recycling, and water wise use) in line with local needs, we are working to promote exchange among companies and create matching opportunities with Metro Cebu stakeholders.



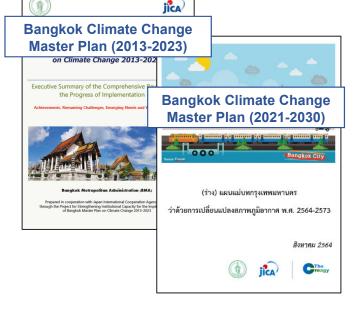
City-to-City Collaboration with the Bangkok Metropolitan Administration (BMA)

- The City of Yokohama, in collaboration with JICA, has been supporting the Bangkok Metropolitan Administration's climate change measures for about 10 years.
- On November 15, 2023, an important step towards reducing worldwide carbon emissions was made at the 12th Asia Smart City Conference as the joint declaration, "Yokohama Declaration: Asian Cities Together Towards Zero Carbon", was announced.
- A city-to-city collaboration project was launched in 2023, supported by the Ministry of Environment of Japan for the formation of JCM projects.



Major recent cooperation in the field of climate change

- Implementing comprehensive review of "Bangkok Climate Change Master Plan (2013-2023)"
- Developing "Bangkok Climate Change Master Plan (2021-2030)"



The 12th Da Nang Urban Development Forum 2024

♦Participants

- **-Yokohama side: 64 people** (City of Yokohama, **JICA**, YUSA, companies, OECC, Yokohama National University, Consulate General of Japan in Da Nang, WB, ADB, UNSCAP)
- -Da Nang side: Approximately 30 people (Da Nang City People's Committee, Department of Planning and Investment (DPI), Hi-tech Park and Industrial Zones (DHPIZA), Department of Natural Resources and Environment (DONRE), etc.)
- -Business Matching Seminar: 150 people (online and face-to-face)

♦ Programme

15th January (Mon) Thematic Meeting Sessions

Theme 1: Eco Industrial Park

Theme 2: Solid Waste Management

Theme 3: Smart City Development

Theme 4: SDGs/VLRs (Voluntary Local Reviews)

16th January (Tue)

- Business Matching Seminar
- Courtesy Call
- Main Forum

Session 1: Keynote Speech

Session 2: Report on the results of the each session and comments

from related organizations

17th January (Wed)

- Site visit (transportation, port, waste management)
- · VLR Workshop



Examples of Urban Solutions by Yokohama at the Forum

明日をひらく都市 OPEN×PIONEER YOKOHAMA

Eco Industrial Park:

- -Introducing carbon management system and decarbonization technology in eco industrial parks
- -Demonstration project for high-efficiency blowers at wastewater treatment plants
- -Demonstration project of water quality improvement equipment in collaboration with universities

Solid Waste Management:

-Policy recommendations for improving waste management in accordance with legal revision

Smart City Development:

- -Traffic improvement using new traffic counting system and signal control system
- -Recommendations for Urban Resilience through Flood Control and JICA Projects



Business Matching Seminar

- Co-organized by YUSA, JPRSI (Japan Platform for Redesign: Sustainable Infrastructure) and Da Nang YBA (Young Business Association)
- 7 companies presented their technologies and had productive discussions with the Da Nang side.



12th Asia Smart City Conference (ASCC)



The Result of the 12th Asia Smart City Conference at Y-SHIP 2023 YOKOHAMA

- ◆ Mayor Yamanaka, as a board member of the Global Covenant of Mayors for Climate and **Energy** and a member of the OECD Champion Mayors for Inclusive Growth, jointly declared with the Governor of Bangkok a strong partnership with Asian cities for decarbonization, endorsed by 43 overseas cities and government institutions.
- Approximately **30 sessions, mainly in the green transformation field**. Discussions by 50 diverse and distinguished speakers invited from Japan and abroad.
- ◆ In cooperation with the WB and the ADB, 102 people from overseas cities visited Japan to discuss urban development and exchange business with 28 companies at their exhibition booths. Japanese companies and 23 foreign companies (from the Philippines and Vietnam) made business pitches in the areas of water business, energy, and waste management.

Outline of the event

Date: November 14 (Tuesday) - 15 (Wednesday), 2023

Number of participants: 2,000 on-site participants/approx. 700 online viewers

Participating countries: Approx. 50 countries

[Main Session] Joint Declaration on Decarbonizing Asia

(Joint Declaration on Decarbonization by the City of Yokohama and Bangkok Metropolitan Administration)

- ◆ Joint declaration, "Yokohama Declaration: Asian Cities Together Towards Zero Carbon" was announced, proposed by the City of Yokohama, Japan and the Bangkok Metropolitan Administration, Thailand
- ◆ Joint Declaration endorsed by **43 participating cities and organizations** from across Asia



Speech by Mayor of Yokohama



Joint Declaration by the City of Yokohama and Bangkok Metropolitan Administration

Conducting Sessions in Collaboration with Diverse Institutions

- ◆ 102 participants from 44 overseas cities and institutions attended the conference in collaboration with the ADB, ADBI, and the World Bank TDLC, which are the joint operators of the conference.
- ◆ Sessions organized by Smart City Institute, IGES, CityNet, and the City of Yokohama.
- ◆ The ADB and ADBI held a session on "Urban Management to Achieve Carbon Neutrality" and the World Bank held a session on "Designing Livable and Prosperous Cities".







ADB · ADBI session

WB TDLC session

CITYNET session

GX Business Networking Meetings and Exhibit Booths

- ◆ GX Business ExchangeOn November 14 and 15, a total of 23 Japanese and overseas companies (from the Philippines and Vietnam) made presentations for business matching in the fields of water business, energy, waste management, etc.
- ◆ Corporate exhibit boothsUnder the themes of "Green Transformation", "Cutting-edge Technology," "Urban Solutions," and "Innovation," a total of 28 exhibitors, including embassies, domestic and foreign companies and organizations, local companies, and start-ups, displayed booths on both days, creating a diverse business exchange.







Exhibit booths

Collaboration with local universities

- Presentation of Joint Proposals on Urban Issues by Students from Yokohama City University and Overseas Universities: Yokohama City University students presented the results of their joint proposal on urban issues with Southeast Asian universities at the IACSC (International Academic Consortium for Sustainable Cities) established by Yokohama City University. In addition, JICA staff participated as reactors and shared their knowledge from the perspective of international cooperation and urban development practice.
- Student volunteers: 20 student volunteers from Yokohama City University



Student Presentation



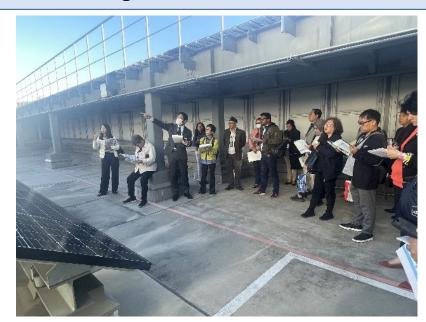
Comments by JICA



Participants at the venue₂₈

Tour of Yokohama City Urban Infrastructure Facilities

♦ **Site Tour for Invited Overseas Cities:** About 100 participants from invited cities visited facilities in Yokohama as part of four different courses. In the Minato Mirai 21 district, which has been certified as a "Decarbonization Leading Area", participants learned about efforts to create a model for decarbonization, and at a sewage treatment plant and sludge recycling facility in Tsurumi Ward, they learned about recycling-oriented society technologies, thereby communicating Yokohama's urban infrastructure technologies to the world.



Green Energy Facilities of Yokohama City Hall



Yokohama's Water Circulation Technology

Humanitarian Aid to Sister City in Ukraine

明日をひらく都市 OPEN×PIONEER YOKOHAMA

Cooperation with Odesa city toward various cooperation with Yokohama companies and JICA.

1Provision of Mobile Water Purifiers, Winter clothes

Provide emergency assistance that meets local needs.



2Restoration of Kindergarten Support in cooperation with citizens and Yokohama companies is

Support in cooperation with citizens and Yokohama companies is being considered and prepared.



3Free rental of Medical Containers

YUSA, Sansei Corporation, and Odesa city signed a Memorandum of Understanding (May 2023)



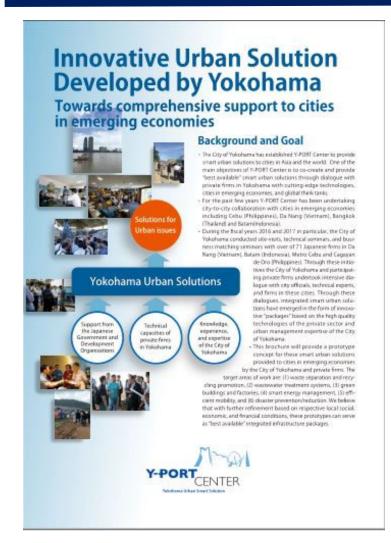


4Technical Cooperation for Infrastructure Reconstruction

Signing of Memorandum of Understanding (March 2023), Conducting site visits and face-to-face consultations.



Establishing a knowledge hub: Y-PORT Center





Please visit our website:

•https://yport.city.yokohama.lg.jp/



Development Cooperation Division, International Affairs Bureau City of Yokohama, Japan

Email: ki-yport@city.yokohama.jp