

Aiming for Sustainable Development and a Decarbonized Society through City-to-City Cooperation



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City of Yokohama

Outline of Yokohama City

Location of Yokohama City



Population: 3.77 million (2022)

Households: 1.78 million (2022)

Area: 435km²



- 横浜市は約377万人の市民が生活する日本で2番目に大きい都市です。
- 東京の羽田国際空港から車や電車で30分程度でアクセスできます。
- これまで、様々な都市課題に直面してきましたが、課題を克服しながら発展を続けてきました。

Challenges Caused by Urbanization



- ・横浜市の歴史について紹介します。
- ・横浜市は、1859年に横浜港が開港し、わずか160年強で現在の街へと発展してきました。
- ・横浜市は、1950年代から1960年代にかけて、急激な都市化により、人口が急増し、インフラ不足や環境の悪化など深刻な都市問題を経験しました。
- ・急激な人口増加に伴い、これら写真にあるような交通渋滞や大気汚染、洪水、ゴミ問題などの課題も生まれてきました。
- ・このような都市課題を克服することで、私たちは優れたノウハウと専門知識を得ました。



Packaging Yokohama's Strengths → Exporting it overseas

Public Sector Experience in City Development



Private Sector Technologies and Services

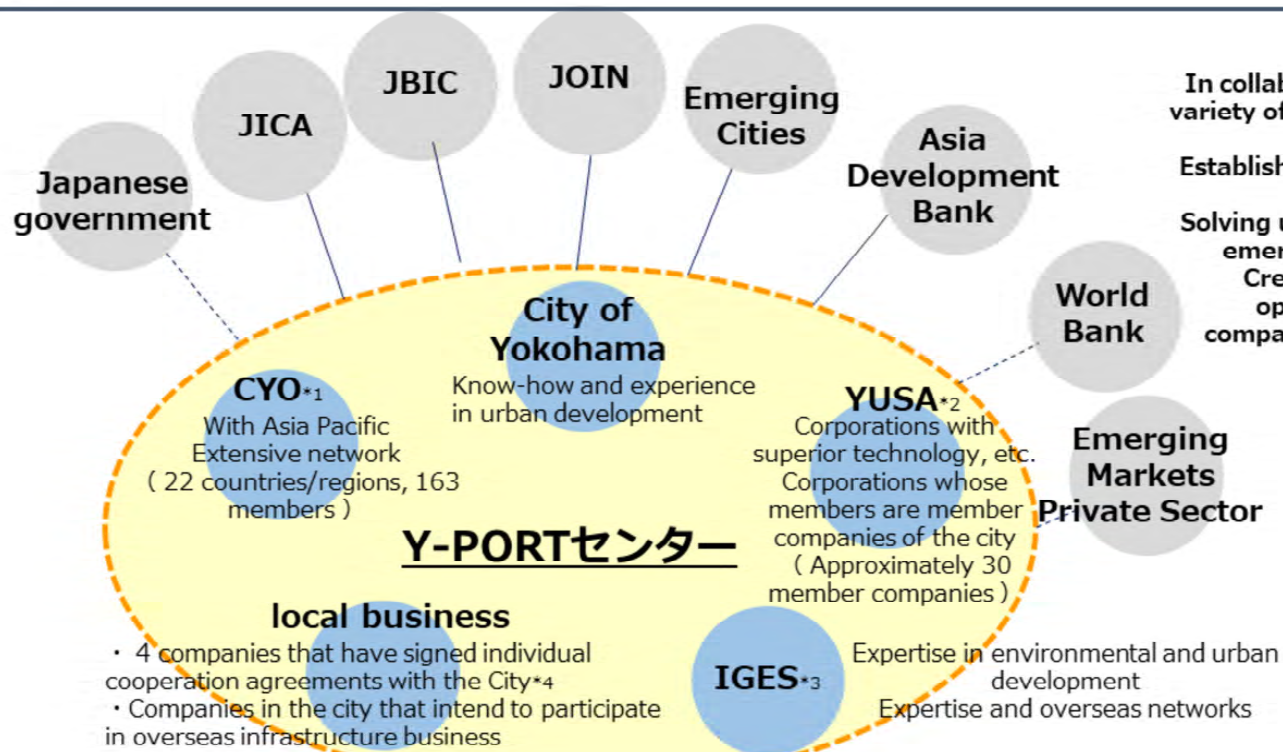


Platform for exporting Yokohama's city development expertise as a comprehensive package, established by the City's International Affairs Bureau in 2011

- こうした課題解決への挑戦を通して、行政には都市開発の知識、経験が、そして企業にはそれに関わる技術の蓄積が進みました。
- そこで、横浜市は、これらの貴重な経験やノウハウを、横浜の強みとして応用し、国際協力やインフラ整備への貢献に取り組むこととし、Yokohama Partnership of Resources and Technologies、略してY-PORT事業を2011年より進めています。

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



* 1 CYO: CityNet Yokohama Project Office * 2 YUSA: (General Incorporated Association) YOKOHAMA URBAN SOLUTION ALLIANCE
 * 3 IGES: (public interest incorporated foundation) Institute for Global Environmental Strategies * 4 companies: JGC Global Corporation, JFE Engineering Corporation, Chiyoda Corporation, Hitachi, Ltd.

International Cooperation Division, International 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 Center for Cooperation 6F)

- ・ Y-PORT事業の中心となるのは、横浜市、市内企業を中心とする企業グループのYUSAなどです。
- ・ 横浜市とYUSAは、連携協定を結んでおり、2017年にはY-PORTセンター公民連携オフィスを開設し、同じオフィスで活動することによって連携を強化しています。
- ・ 日本政府やJICA、国際金融機関などからサポートを受け、新興国都市に対して横浜の都市づくりのノウハウや市内企業の技術を提供しております。

Y-PORT's major activity locations

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 factory

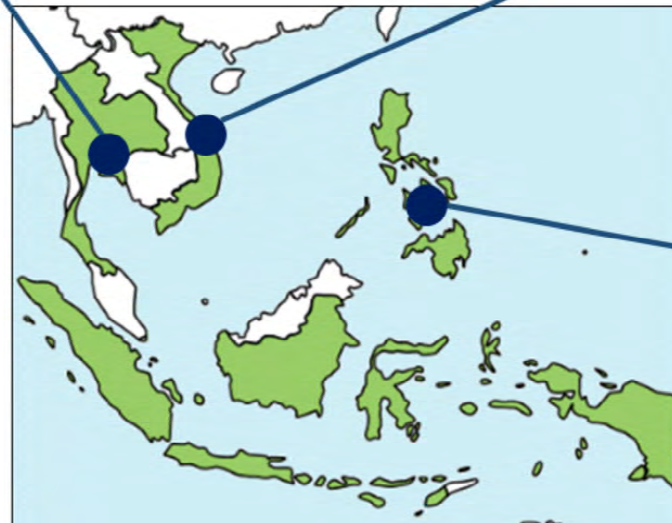
Da Nang

- 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

- ・ Y-PORT事業の主な活動エリアは、「持続可能な都市の発展に向けた技術協力に関する覚書」を結んでいる、タイ・バンコク都、ベトナム・ダナン市、フィリピン・セブです。
- ・ これらの都市とは、二都市間で協力関係を構築して進めているエリアです。

Consistent Support from Upstream Planning to Commercialization



integrated approach from planning to realization



Metro Cebu development vision & roadmap: Formulated with support from Yokohama & JICA



Metro Cebu Urban Development Forum



JICA support for Japanese SMEs' overseas business development (Demonstration test of sludge dewatering system by Amcon Inc., a Yokohama-based SME)



Project for the Septage Management of Metro Cebu Water District: Grant-in-aid through collaboration with local government

- ・私たちのアプローチは、パートナー都市と街づくりの将来像を共有することです。
- ・このスライドは、パートナー都市との間で計画段階から事業化までを一貫してサポートしていくことを示しています。
- ・これは、フィリピンのセブ島で実施したのですが、私たちは、都市マスタープランの策定を支援し、対話、調査、実証実験を経て、インフラビジネスの推進に参画しました。

City-to-City Collaboration with Da Nang City

- Last March, Da Nang City became the first municipality in Vietnam to announce its goal of achieving carbon neutrality by 2050.
- Yokohama City, in cooperation with Da Nang City, is promoting an city-to-city collaboration project supported by the Ministry of Environment for the formation of JCM projects.
- In addition, Yokohama City, 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

- Support the formulation of the "10-Year Environmental Plan" (2021-2030)
- Develop smart and sustainable urban planning strategies
- Education for climate change



- ベトナムのダナン市の事例を紹介します。
- 横浜市は、2013年にダナン市と「環境に配慮した持続可能な都市づくりに関する覚書」を締結し、環境省やJICAと連携しながら気候変動対策プランの策定などに協力してきました。
- こうしたなか、ダナン市は、2022年3月にベトナム国内の自治体として初めて2050年カーボンニュートラル達成目標を表明しました。

Project Cases in Da Nang city

Energy Saving Business

Yokohama based company started “All-in-one energy efficiency support services for private-sector factories etc. in Da Nang, Vietnam”

Installation of high-efficiency pumps at Da Nang Water Supply in Da Nang, Vietnam: Yokohama Water Company



Fostering Eco-industrial Parks in Da Nang city(in progress)



- ・横浜市と連携協定を結んでいるYUSAの市内会員企業が、簡易省エネ診断を行い、省エネ対策の提案を行いました。
- ・診断結果を受け、二国間クレジット制度資金支援事業を活用して、ダナン市の浄水場へ高効率ポンプを導入しました。
- ・現在は、省エネ対策前後のモニタリング、省エネ効果の見える化などのサービスを提供しています。
- ・また、工業団地では、エコ工業団地の実現に向けてエネルギー利用の最適化を推進中です。

Establishing a knowledge hub 《Y-PORT Center》

Innovative Urban Solution Developed by Yokohama

Towards comprehensive support to cities in emerging economies

Background and Goal

- The City of Yokohama has established Y-PORT Center to provide smart urban solutions to cities in Asia and the world. One of the main objectives of Y-PORT Center is to co-create and provide "best available" smart urban solutions through dialogue with private firms in Yokohama with cutting-edge technologies, cities in emerging economies, and global think tanks.
- For the past few years Y-PORT Center has been undertaking city-to-city collaboration with cities in emerging economies including Cebu (Philippines), Da Nang (Vietnam), Bangkok (Thailand) and Batam (Indonesia).
- During the fiscal years 2016 and 2017 in particular, the City of Yokohama conducted site-visits, technical seminars, and business matching seminars with over of 71 Japanese firms in Da Nang (Vietnam), Batam (Indonesia), Metro Cebu and Cagayan de Oro (Philippines). Through these initiatives the City of Yokohama and participating private firms undertook intensive dialogue with city officials, technical experts, and firms in these cities. Through these dialogues, integrated smart urban solutions have emerged in the form of innovative "packages" based on the high quality technologies of the private sector and urban management expertise of the City of Yokohama.
- This brochure will provide a prototype concept for these smart urban solutions provided to cities in emerging economies by the City of Yokohama and private firms. The target areas of work are: (1) waste separation and recycling promotion, (2) wastewater treatment systems, (3) green buildings and factories, (4) smart energy management, (5) efficient mobility, and (6) disaster prevention/reduction. We believe that with further refinement based on respective local social, economic, and financial conditions, these prototypes can serve as "best available" integrated infrastructure packages.

Y-PORT CENTER
Yokohama Urban Smart Solution

Please visit our website:

•<https://yport.city.yokohama.lg.jp/>

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Providing Smart Urban Solution to Cities through PPP and Dialogue

Y-PORT CENTER

Yokohama Urban Smart Solution

Establishing a knowledge hub for smart city management

The City of Yokohama, in collaboration with international research institutions, industry networks, and participating private firms in Yokohama, has established the Y-PORT Center to provide smart urban solutions to cities in Asia and the world. The Center actively undertakes collaboration with those agencies, public/private sector and urban center providers.

What Y-PORT Center offers

1. Providing best available urban solutions and providing smart urban management knowledge to cities in emerging economies.
2. Co-creating smart urban solutions through intensive dialogue with cutting-edge private firms, cities and global think tanks.
3. Delivering comprehensive support from the government of Japan and other agencies to the area of smart urban development.