

Smart Mobility & TOD in Vietnam

NIPPON KOEI

Takuhiro Gyotoku

Urban Development Dept. / Private Business Dept.



NIPPON KOEI

No.1 International Engineering Company in Japan

Business Area

Consulting
Business

NIPPON KOEI

Urban &
Spatial
Business

Energy
Business



Civil Engineering x Construction
Urban development

DIGITAL TRANSFORMATION **CREATE FUTURE**
NIPPON KOEI'S DIGITAL TRANSFORMATION



GYOTOKU Takuhiro 行徳 拓宏

-Smart City Planner

-Professional Engineer (Urban & Regional Planning), Japan

2013- Master Course of Kyushu Univ.
(Urban & Environmental System Landscape Lab.)

2015- NK Urban Development Dept.

2017- NK Domestic Dept. Transport / Regional Planning

2019- NK Urban Dev. Dept. / Private Business Promotion Dept.
Yokohama Urban Solution Alliance

Working at

South-East Asia, Japan (VN, Thai, Philippines, Indonesia, Myanmar, Malaysia, etc.)

Main Projects:

- Philippine Clark Green New City, 3,600ha (M/P)
- Indonesia Deltamas City, 3,200ha (B/D)
- Indonesia MaaS Project
- Thailand Smart Complex (MP)
- Thailand Smart City (MP, FS)
- Vietnam Metro line 1 TOD (MP), Digital Platform and MaaS (FS)
- Vietnam Smart Industrial Park (FS), Industrial Park (B/D)
- Vietnam Smart Condominium (FS)
- Myanmar Thilawa SEZ, 2,500ha (M/P B/D D/D)
- Thilawa Smart TOD M/P
- Japan: Regional Transportation Projects
- Japan: Yokohama Smart City Integrator



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Background: Urban & Transport & Smart in Japan / Vietnam

Urban Development

Japan



Source: Ministry of Land, Infrastructure, Transport and Tourism

Public Transport

公共交通機関

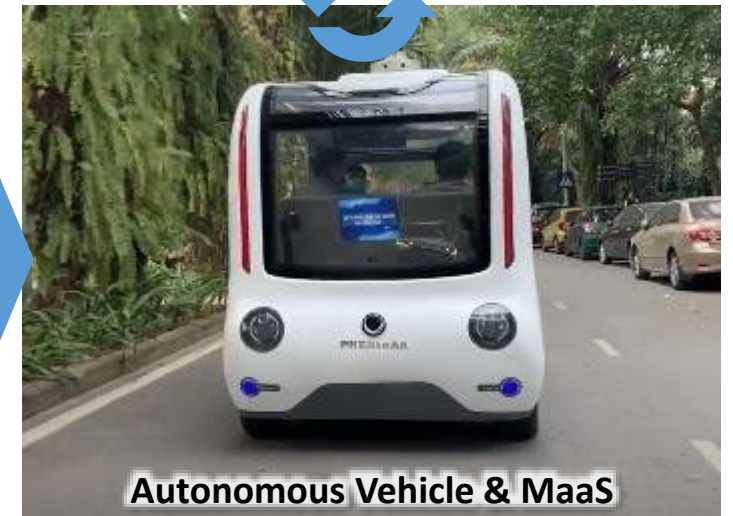


Source: Ministry of Land, Infrastructure, Transport and Tourism

Smart Mobility(Autonomous/MaaS)



Vietnam



TOD / MaaS / Smart City Overall Architecture

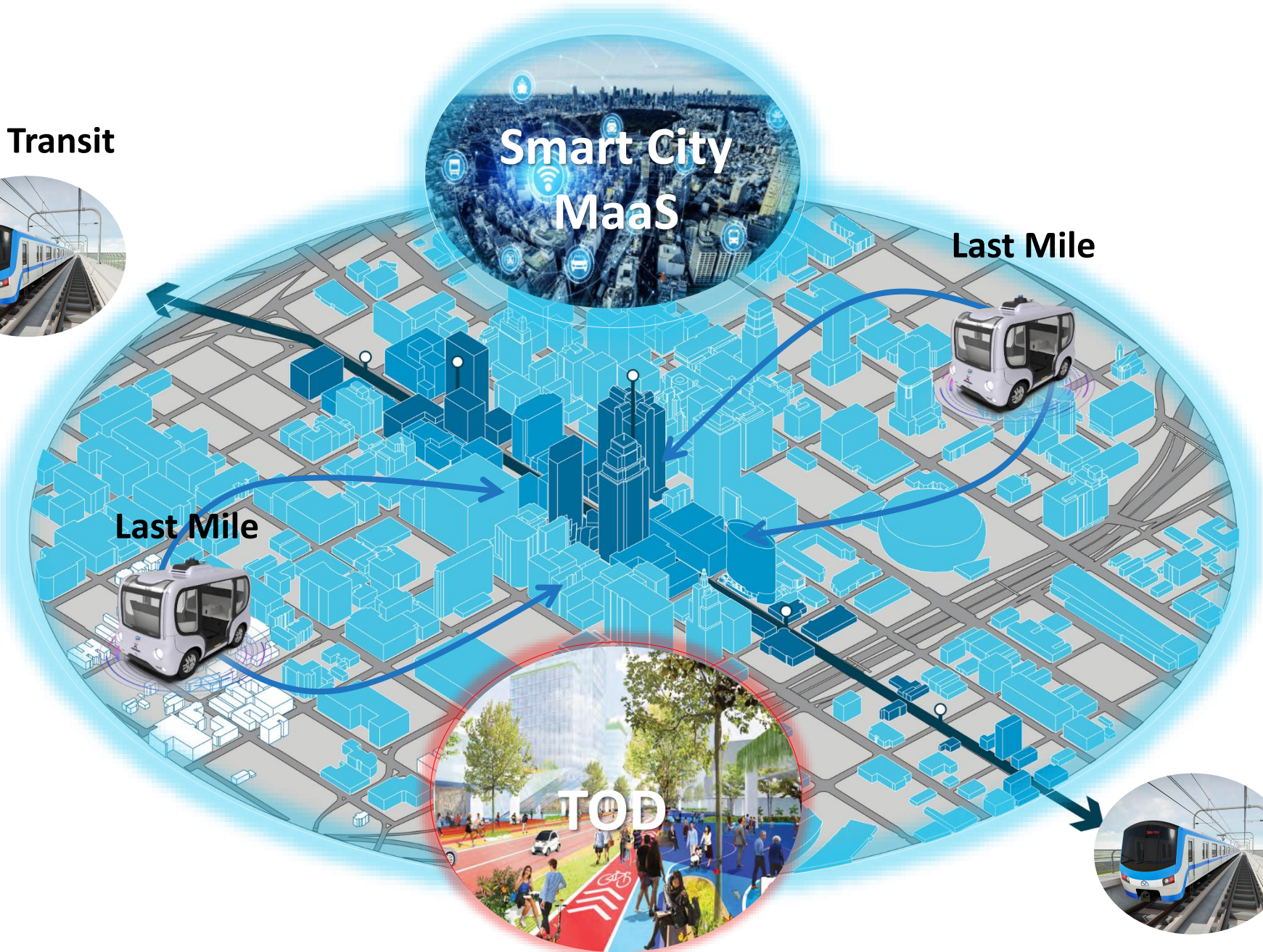
Mass Transit



Last Mile

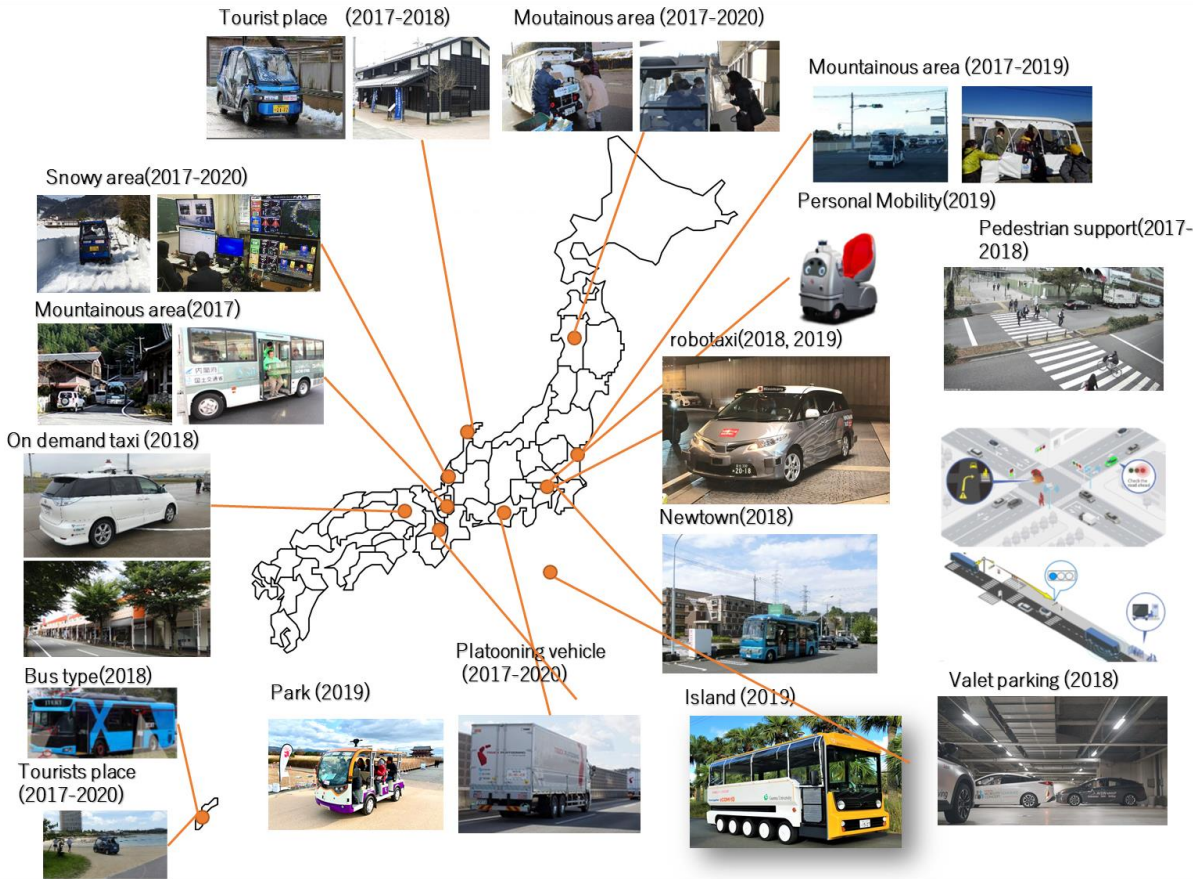


Last Mile



Autonomous Vehicle Projects by 2025 in Japan

- Level 4 AV (no operator inside, only remote monitoring) in more than 40 places **by 2025 in Japan's Target.**
- City of Sakai **started AV operation for the first time as local government in Japan.**
⇒ **3 Big Impacts: 11,000 people used, Visitors increased, Economic Impact 5 million USD**
- Nippon Koei is supporting lots of Autonomous test running projects as the consultant.



Autonomous Driving Test Running supported by NK

Fist Installation in Japan

Metro Line 1 Project in Ho Chi Minh City, Vietnam

- HCM MRT Line 1, which will operate in 2024, is a 19.7km MRT line that connects the center and suburbs of Ho Chi Minh City. (2.2 km underground section, 17.5 km elevated section)
- Japan is focusing on exporting infrastructure for developing countries. The development of public transportation networks is one of the most important sector.
- Nippon Koei is working for MRT Line 1 as General Consultant (Survey, Plan, Desing, Tender, CS) from 2008-2024.



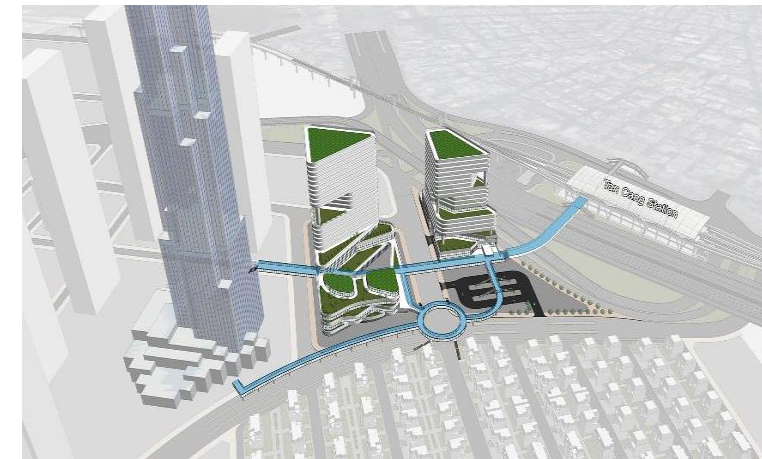
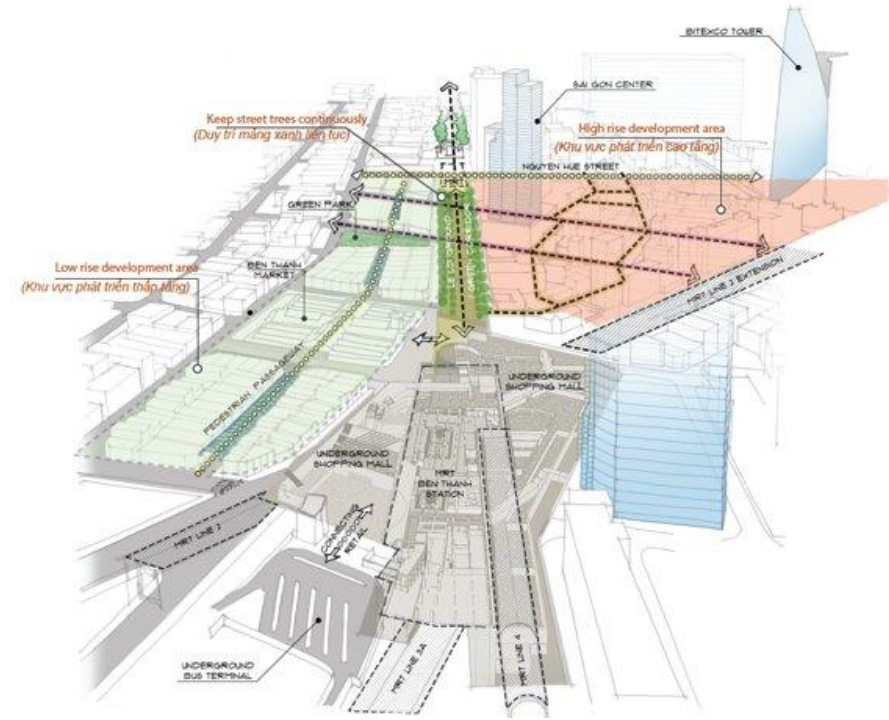
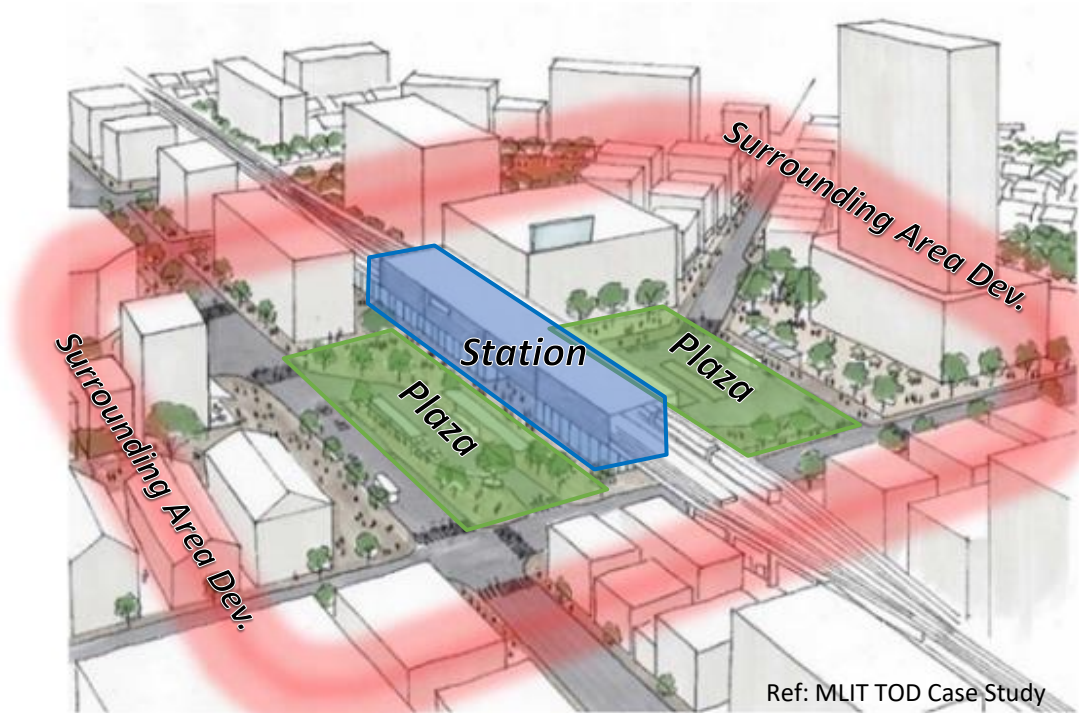
Map (19.7km)



Metro Line 1

Transit Oriented Development Survey for HCM Metro Lone 1, Vietnam

- Transit Oriented Development is a planning strategy that aims to concentrate jobs, housing, and services around public transport stations, which create livable and sustainable lifestyle.
- NK studied a development plan along the HCM metro line 1, and the infrastructure development plan in front of the station and inside the station
- Prepared the future direction of Japan's support for TOD-type urban development.



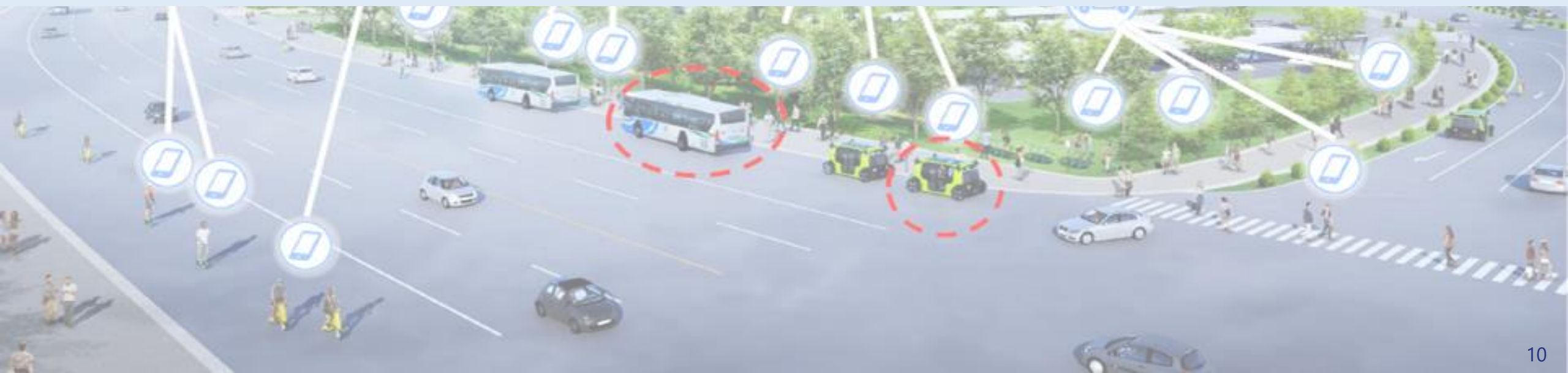
TOD Concept



Image of MaaS App



Binh Duong Smart Mobility





MIDORI PARK
Town House "HARUKA"
Condominium "The VIEW"



SORA gardens
Condominium



hikari
Commercial Facility

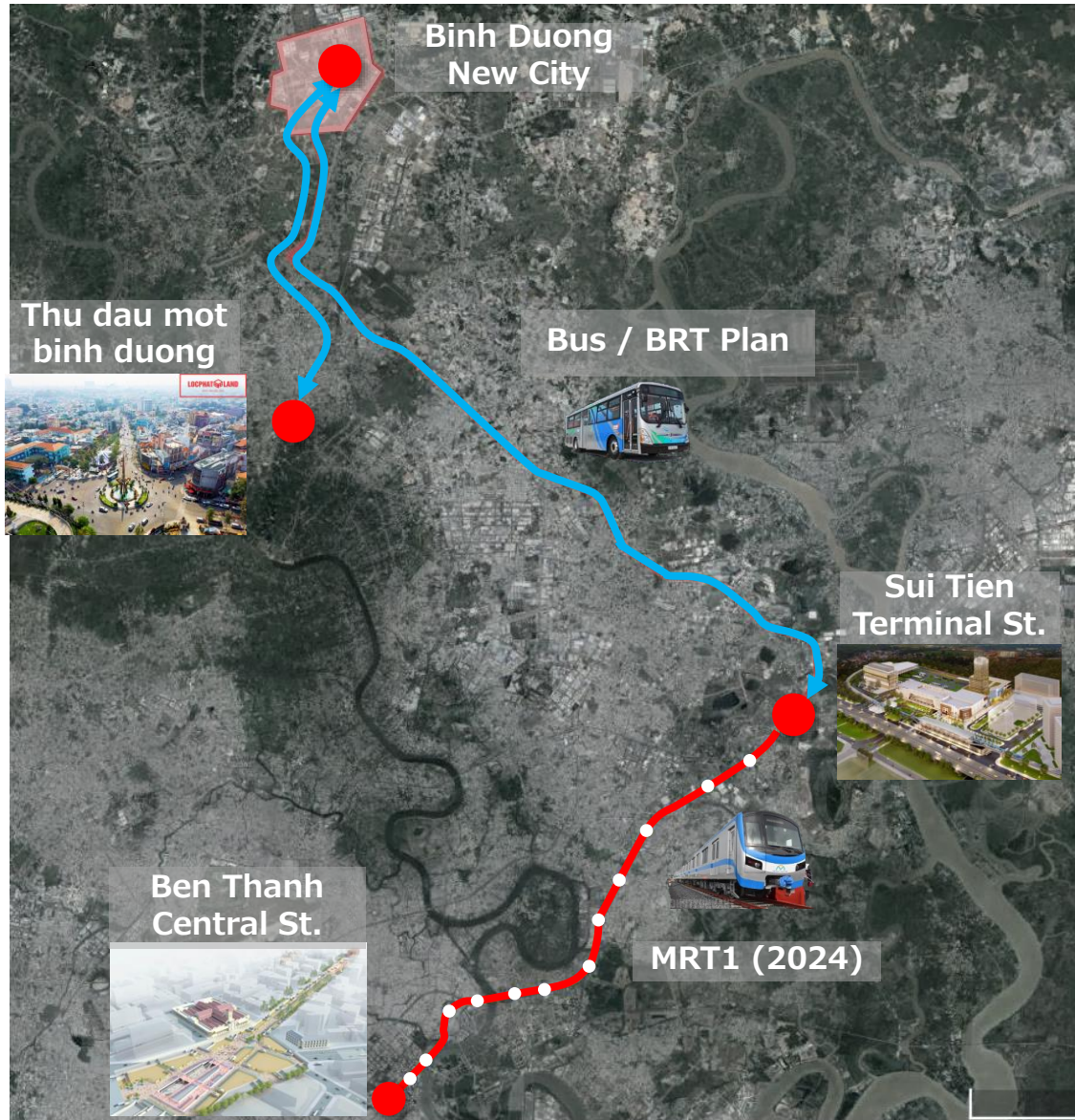


KAZE SHUTTLE
Public Transportation



- 2012 Establishment BECAMEX TOKYU CO., LTD.
- 2014 Start public bus service "KAZE SHUTTLE"
- 2015 Complete the first condominium "SORA gardens"
- 2015 Open the commercial facility "hikari"
- 2017 Complete the Town House "MIDORI PARK HARUKA"
- 2019 Complete the condominium "MIDORI PARK The VIEW"

Binh Duong MaaS & Smart City Vision



Inter-city Transportation & TOD



Transportation in Binh Duong New City



October 2022: Autonomous Test running in Binh Duong New City

- First test running in public road in Vietnam



You Tube: Prime Minister's Office of Japan Realize Sustainable Societies through Quality Infrastructure in Vietnam



Source : https://www.youtube.com/watch?v=rpdRnxcX_IY

Prime Minister's Office of Japan Channel



Thank you very much

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