

Integrated Railway Systems for Cities and Mega Events

TERADA Yoshimichi

Vice-Minister for Transport, Tourism and International Affairs,
MLIT (Ministry of Land, Infrastructure, Transport and Tourism)

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1. Railway Investment and Impact in Japan

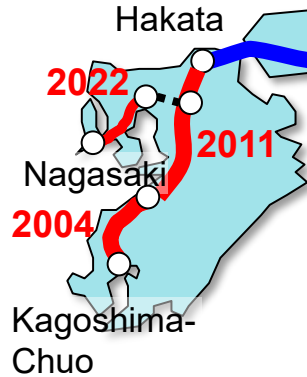
2. Mega-Events and Railway Operation

1. Railway Investment and Impact in Japan

Shinkansen Network

Maximum Operation Speed: **320km/h**
Total Length in Operation: **approx. 3,200km**
Year of Inauguration: **1964**

Kyushu Shinkansen



Sanyo Shinkansen



1975

Hokuriku Shinkansen



2024
2015

Tokaido Shinkansen



2015

1997

1964

2016

Linear Chuo Shinkansen (Partially Under Construction)



Hokkaido Shinkansen (Under Construction)

Sapporo

Shin-Hakodate Hokuto

2010

2002

Tohoku Shinkansen



2010

2002

Niigata

Sendai

1982

1982

Kanazawa

Tsuruga

Shin-Osaka

Nagoya

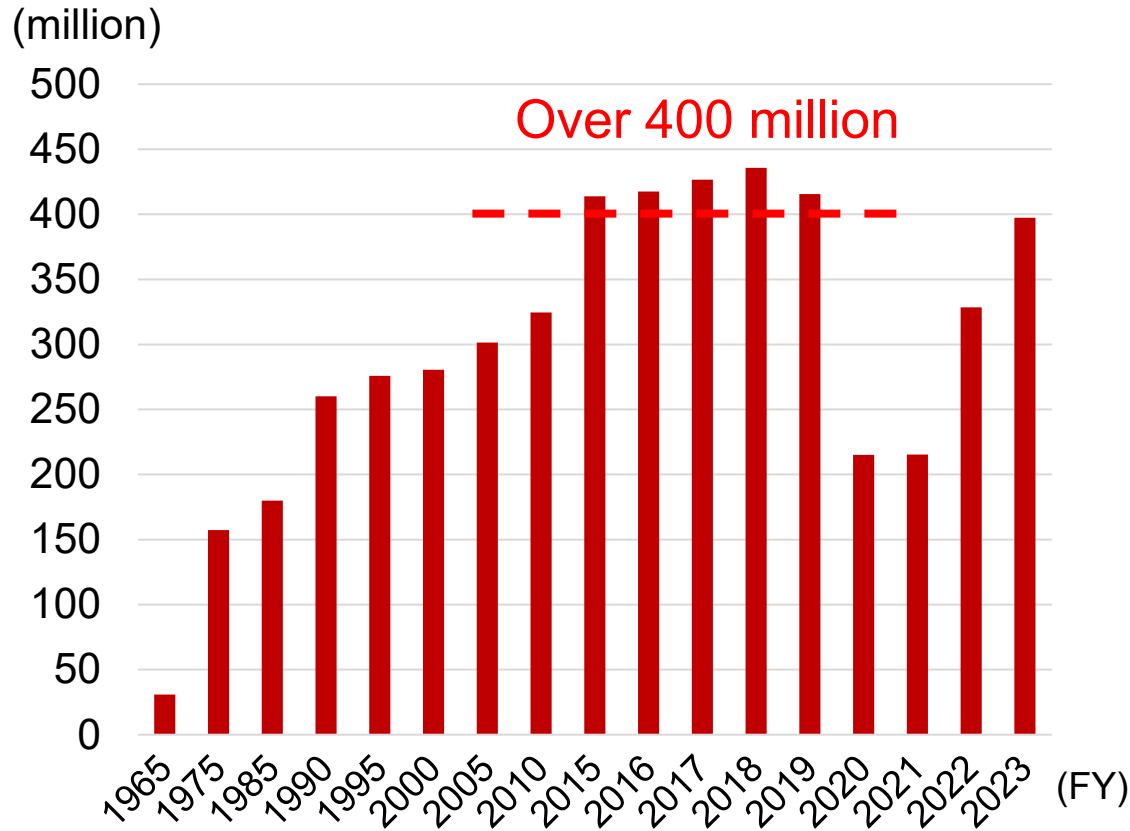
Tokyo

Shin-Aomori

Hachinohe

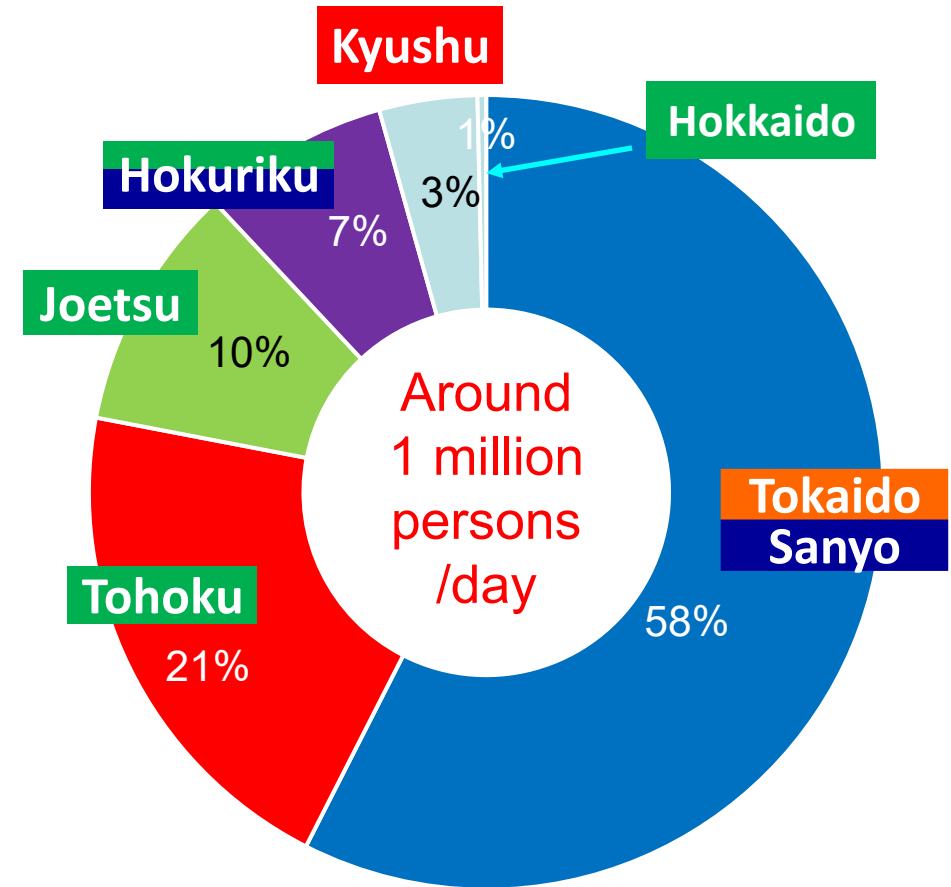
Morioka

Trend of the Number of Passengers



Source: Railway Bureau, MLIT

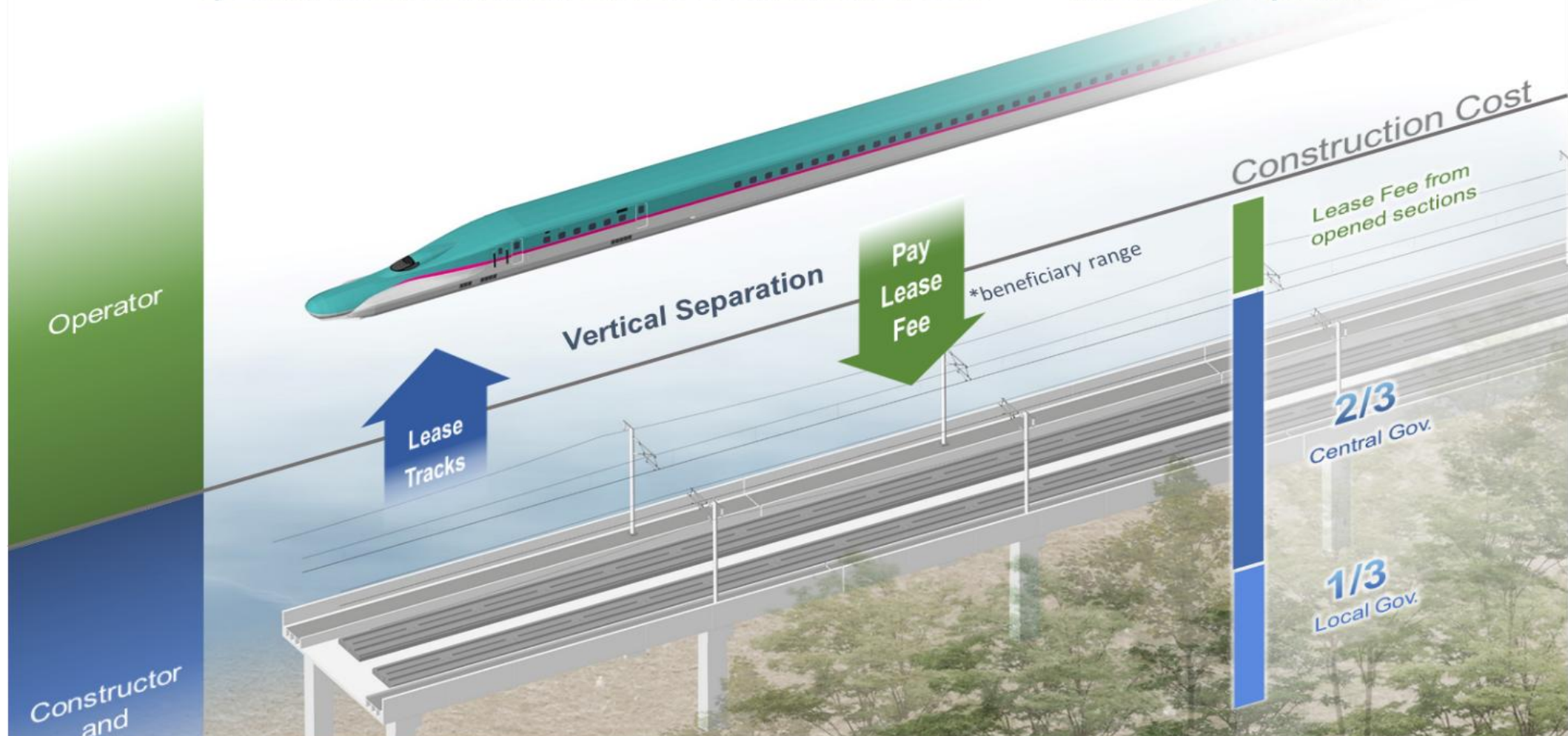
Average Daily Passengers (FY2023)



Source: Railway Bureau, MLIT

Shinkansen Construction Scheme

Operator doesn't shoulder burden of construction cost ⇒ Sustainable Operation

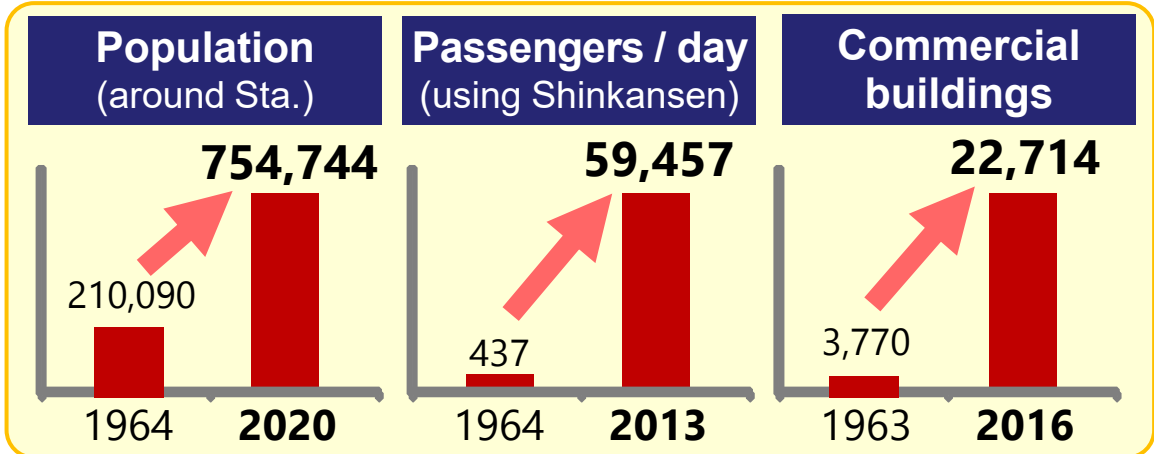


Business scheme

Land Acquisition	JR TT	Rolling Stock	JR
Civil Work		Operation	
E & M		Maintenance	

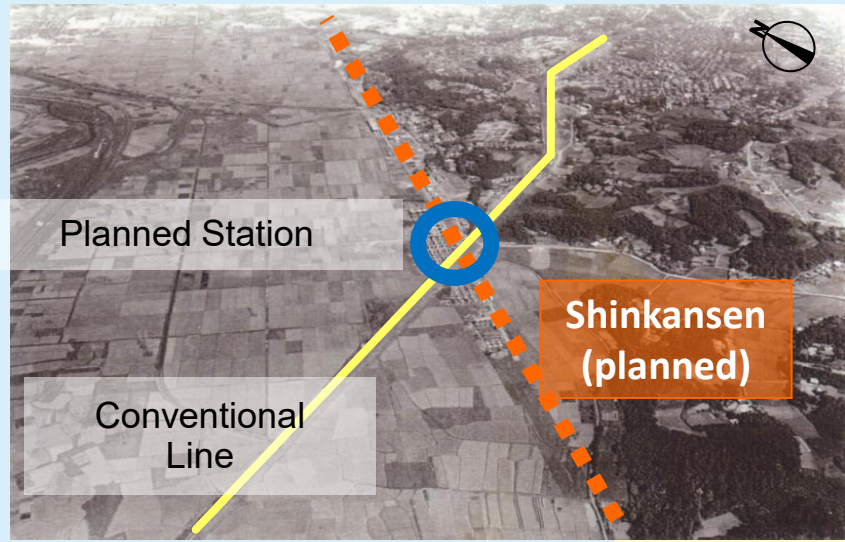
*JR TT: The Japan Railway Construction, Transport and Technology Agency

Shin-Yokohama – Before/After



Source: Census, Yokohama City Stats

Before (1962)



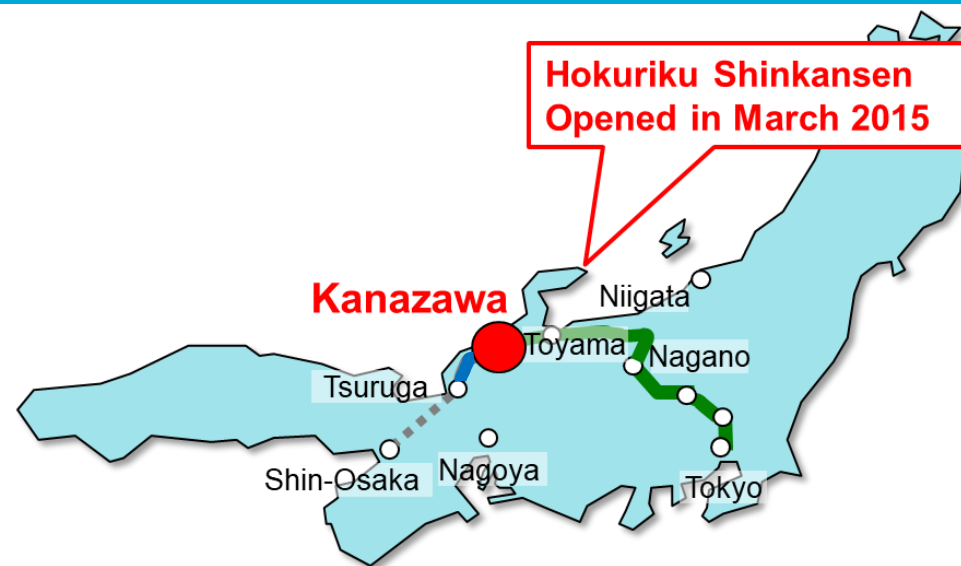
After (2012)



Impacts of Shinkansen – Kanazawa

Tokyo – Kanazawa Route (454 km)

Time Saved from Opening:
 3 hrs 47 min ➔ 2 hrs 28 min (▽79 min)



Impacts of Shinkansen

Station Area

Land Value

(2014-2015)

+17%

Hotels

(2014-2018)

+127%

Source: MLIT, Kanazawa city

Prefectures

Economic Effect

(2015, estimated)

USD 437 mil

(Consumption by tourists,
Ishikawa Prefecture only)

Exchange Rate: 1 USD = 155 JPY (as of Feb 2026)

Source: Development Bank of Japan

Tourists (TTL)

(2014-2015)

+16%

(Ishikawa Prefecture only)

Int'l Tourists

(2014-2015)

+50%

(Ishikawa, Toyama, and Fukui Prefecture)

Source: Ishikawa Prefecture, Japan Tourism Agency

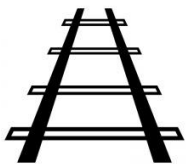
Overview of Tsukuba Express



Photo: Tsukuba Express



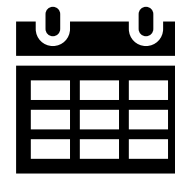
Source: Tsukuba Express



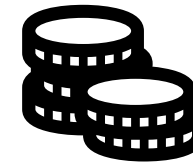
Total Length
58.3km



Travel Time
45 minutes
(Akihabara – Tsukuba,
at shortest)



Opened
2005



Construction Cost
USD 5.2 billion

Exchange Rate: 1 USD = 155 JPY (as of Feb 2026)

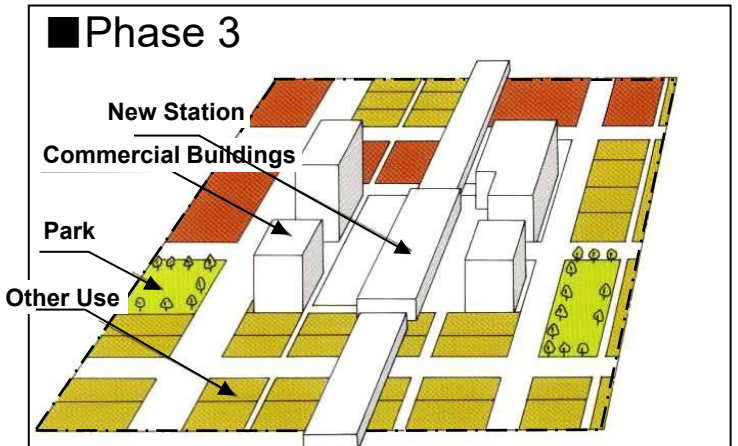
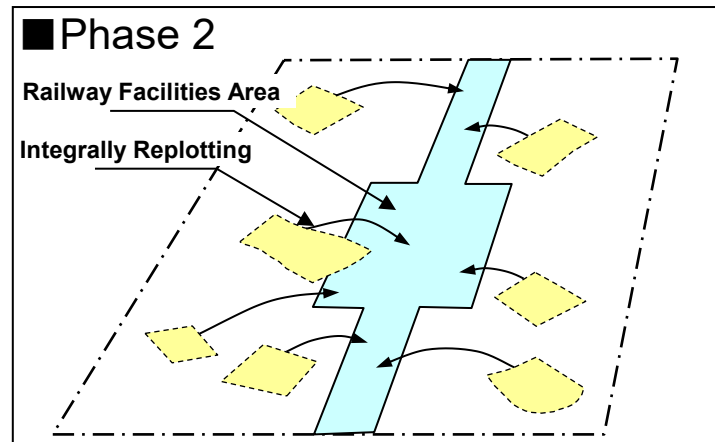
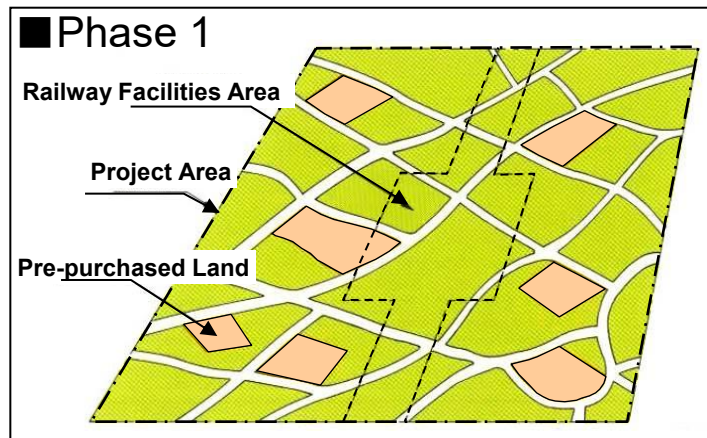
Construction Funding Scheme

Construction Cost (USD 5.2 bn)			
Non-interest-bearing Loans: 80%		Investment and Other: 20%	
Central Government USD 2.1 bn (40%)	Local Governments USD 2.1 bn (40%)	Investment USD 0.7 bn (14%)	Debt USD 0.3 bn (6%)

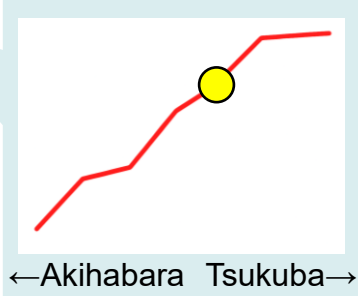
Exchange Rate: 1 USD = 155 JPY (as of Feb 2026)

Land Acquisition Methods

Integrated land readjustment project based on “Act on Special Measures concerning Comprehensive Advancement of Housing Development and Railway Construction in Metropolitan Areas”



Kashiwanoha – Campus Station (No.13)



20 years later

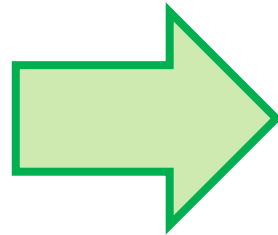
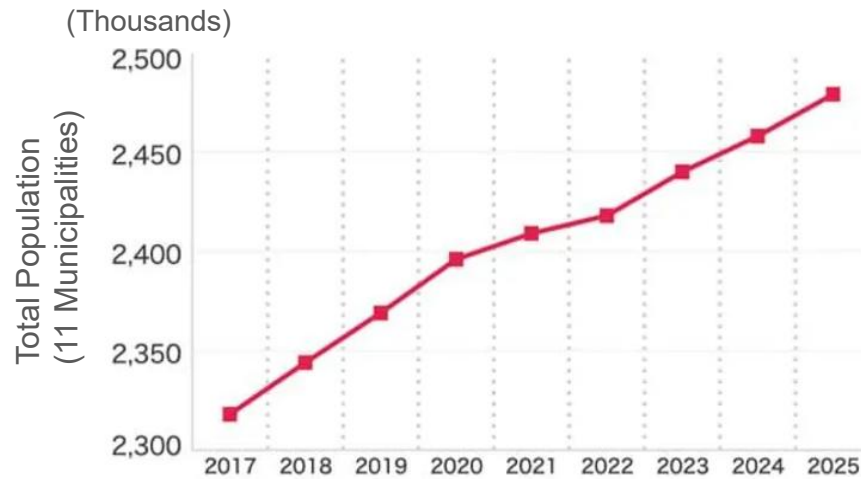
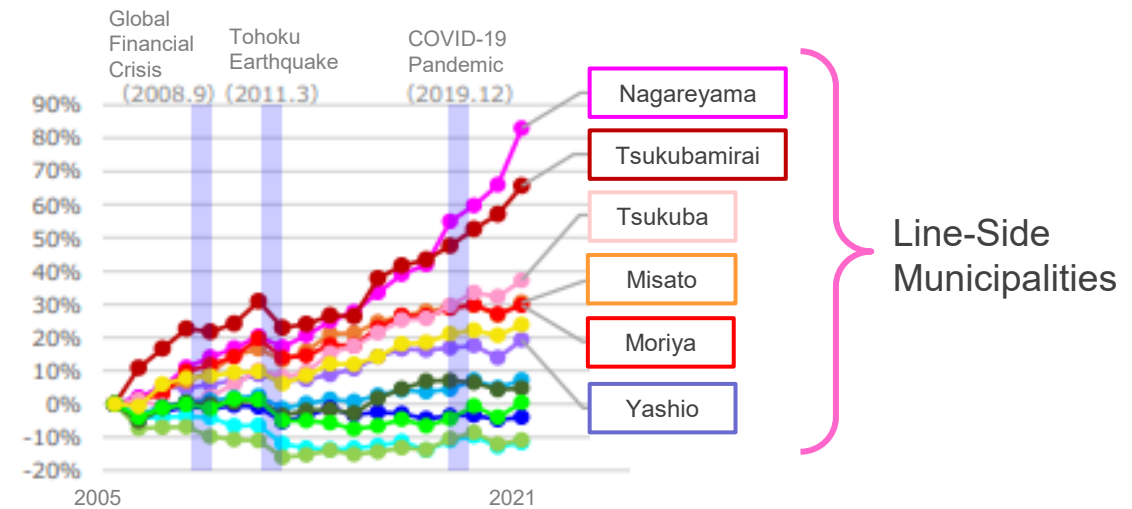


Photo: Tsukuba Express



Population Trends in 11 Municipalities along the Line

Source: Tsukuba Express



Property Tax Changes in Line-side Municipalities

Source: Railway Bureau, MLIT

2. Mega-Events and Railway Operation

Recent Mega Events in Japan

Tokyo 2020 Olympic
& Paralympic Games

EXPO 2025 Osaka, Kansai

GREEN × EXPO 2027

Establishment of dedicated committees to examine and formulate transport plans

Members

Organizer

Academic Experts

Relevant Ministries

Local Governments

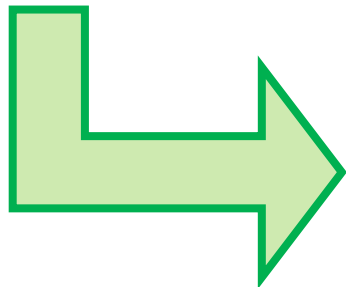
Police

Economic Organizations

Industry Associations

Various Transport Operators (roads, railways, buses, taxies, etc.)

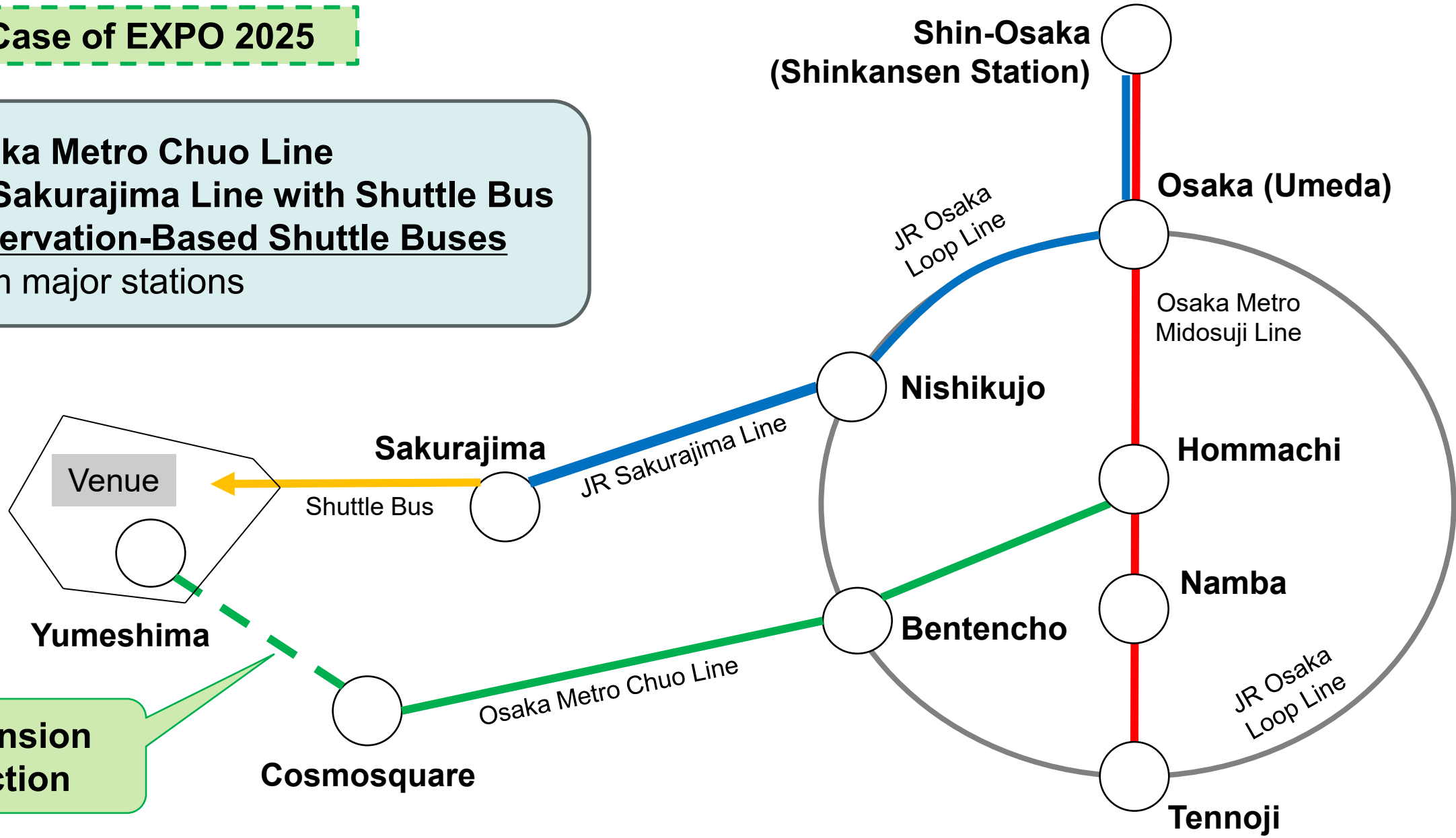
etc.



- Collaboration among relevant agencies and organizations
- Toward smooth and efficient mobility

In the Case of EXPO 2025

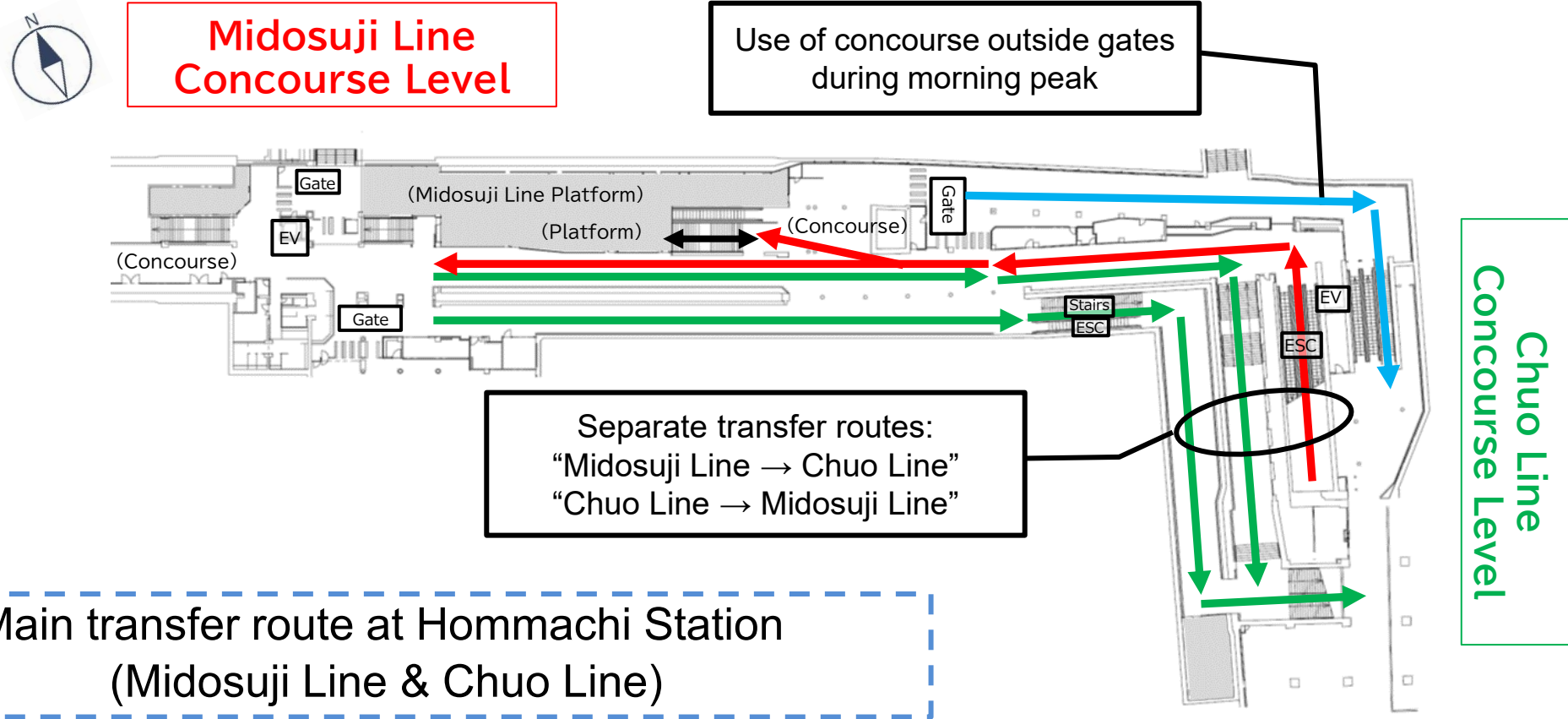
- **Osaka Metro Chuo Line**
- **JR Sakurajima Line with Shuttle Bus**
- **Reservation-Based Shuttle Buses** from major stations



Extension Section

In the Case of EXPO 2025

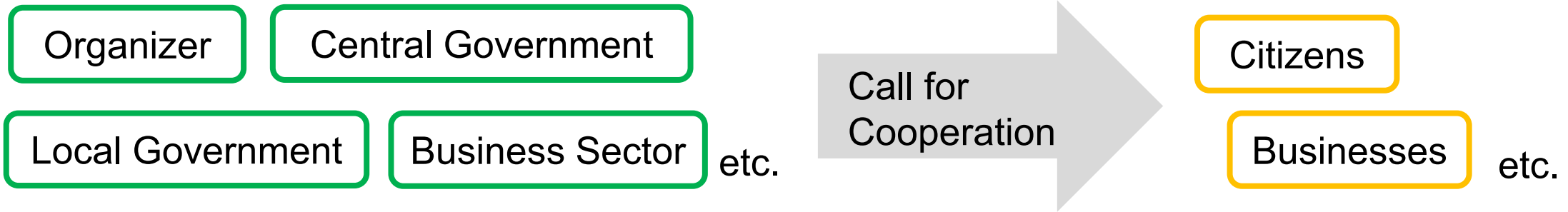
- The Expo Association, police and railway operators working together
- Deployment of security staff, guide signs, and pavement markings



*Excerpt from the Fifth Edition of The Expo 2025 Osaka, Kansai, Japan Specific Policy on Visitor Transportation (Action Plan), partially adapted by MLIT.

Travel Demand Management (TDM):

An effort to prevent excessive concentration of travel demand and ease congestion by promoting changes in travel behavior



Railway-related Measures



- Remote work
- Staggered working hours
- Changes in commute routes
- Promoting online meetings
- Adjusting meeting and business appointment times etc.



Promoting Station Barrier-free Improvements

Barrier-free Act

Promoting barrier-free measures through both hardware and software

Hardware

Basic Policy (MLIT Notification)

Specific Goals etc.

Barrier-free Improvements

[Goal] Barrier-free access at all stations

- **Railway stations with over 3,000 passengers/day**
- **Railway stations with over 2,000 passengers/day (Basic Plan)**

[Progress] [As of the end of FY2024]

- **Stations with level-difference removal: approx. 94%**
(3,371 Stations/3,577 Stations)



Elevator



Accessible restroom



Interior-line tactile blocks

Installation of Platform Screen Doors

[Goal] Accelerating the installation of platform screen doors at high-priority stations

- All railway stations: **4,000 platforms**
- **Railway stations with over 100,000 passengers/day: 900 platforms**

[Progress] [As of the end of FY2024]

- All railway stations: **2,830 platforms** (1,190 Stations)
- **100,000+/day stations: 621 platforms** (195 Stations)



Platform Screen Door



*Target development period: FY2026 to FY2030

Software

Barrier-free Mindset

Strengthening measures to build public understanding and promote action

- Strengthening barrier-free education with schools
- Promoting proper use of elevators, priority seats, and related facilities



Experience supporting visually impaired users

Barrier-free Fare System

Fare scheme supporting barrier-free upgrades

Subsidy Program

Subsidies for installing elevators, platform screen doors, and other facilities

Tax Incentives

Reducing maintenance and operating costs through property tax relief

Strengthening initiatives for safe and secure transportation beyond the Games

Barrier-Free Initiatives

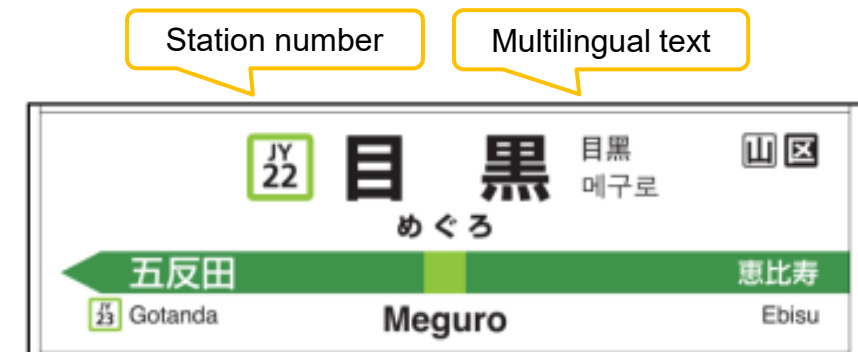
- Promoting installation of elevators, platform screen doors, and other facilities
- Enhancing software-based guidance and support efforts
- Introducing wheelchair accessible open spaces on the Shinkansen



Photo: JR Central

Other Initiatives

- Introducing station numbering
- Strengthening multilingual guidance
- Enhancing security measures
- Strengthening disaster prevention measures (e.g., earthquakes and flooding)



Source: JR East Press Release



Official Mascot
Tunku Tunku

GREEN×EXPO 2027 – YOKOHAMA, Japan



Dates: **March 19 – September 26, 2027**

Location: **Yokohama, Japan**

Visitors: Admission-paying visitors : Over 10 million

Theme:

~Scenery of the Future for Happiness~

Experience:

- ✓ Stunning gardens & floral landscapes
- ✓ Global horticultural culture
- ✓ Evening strolls & seasonal beauty
- ✓ Pursuing well-being through agriculture and food
- ✓ Special bonsai exhibition from Imperial Household Agency



Main Garden

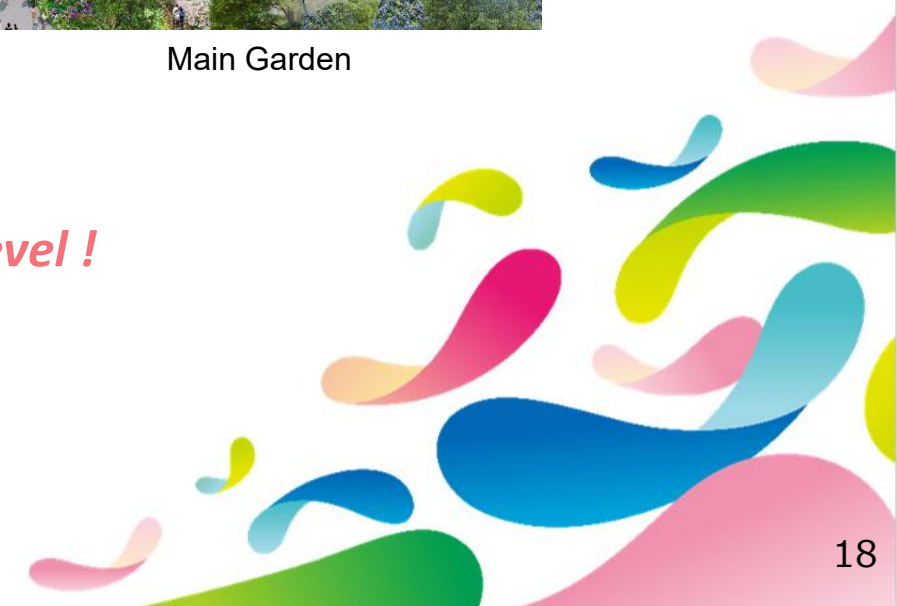
Join us in Japan for International Horticultural Expo of the highest level !



Japanese Garden



Satoyama Village



Thank you



**EXPO
2027**

YOKOHAMA JAPAN



Official Mascot
Tunku Tunku