

Our Innovation at Osaka Station

West Japan Railway Company(JR-WEST)
Seigo Mizuno



Connect more. Spring into the future.

1. Who is “JR-West” ?

2. Osaka Station Area Development (Umekita area)

3. Our initiatives at Osaka station



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Who is “JR-West” ?

■ **JR-WEST** Established : April 1, 1987

Our business

- **Transportation** (railways, buses, ships)
- **Real estate** (shopping centers, rental and sales)
- **Distribution** (merchandise sales, restaurants, department stores)
- Others (travel agency, etc.)

■ Key Figures

FY ended March 31, 2025

✓ Employees

- 21,665 (JR-West)
- 45,450 (JR-West Group)

✓ Total length of tracks

4,897.5 km



✓ Subsidiaries

145



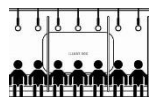
✓ Stations

1,150



✓ Passenger-kilometres

54,975 million



✓ Rolling Stocks

6,303

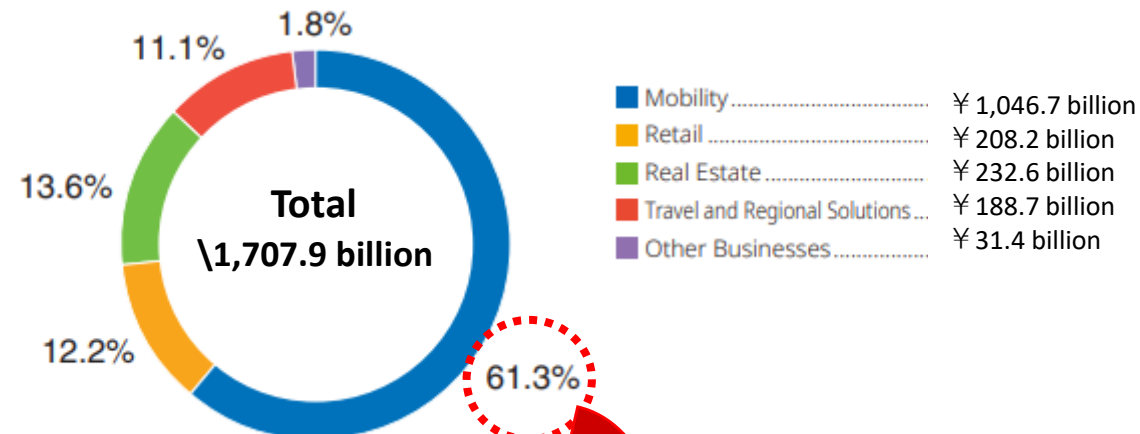


✓ Passengers

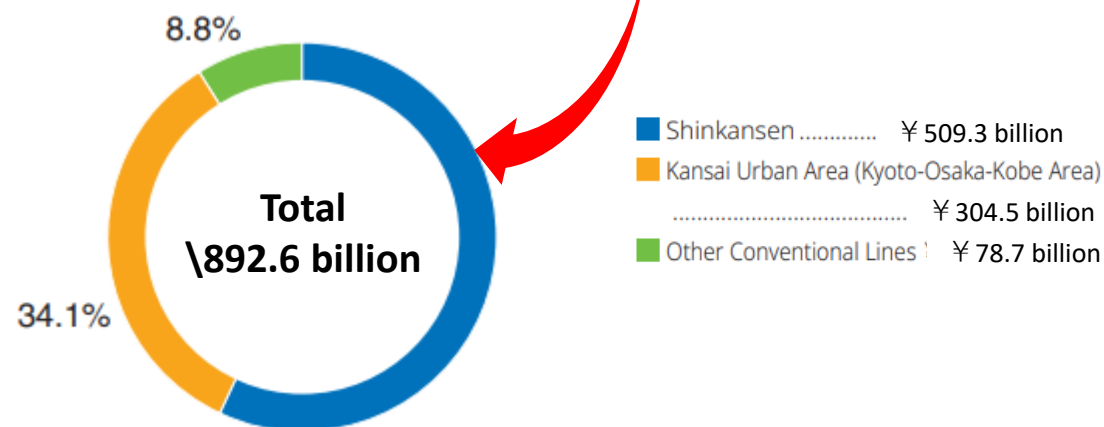
1,758 million/year

■ Revenues(consolidated)

reference values, as of Oct. 2025 1 EUR = 175 JPY



- Railway Revenues



Who is “JR-West” ? - “Japanese National Railways (JNR)” and “JR-West”

History

1872 Tokyo(Shinbashi)-Yokohama

1949 Japanese National Railways



1987 Privatisation

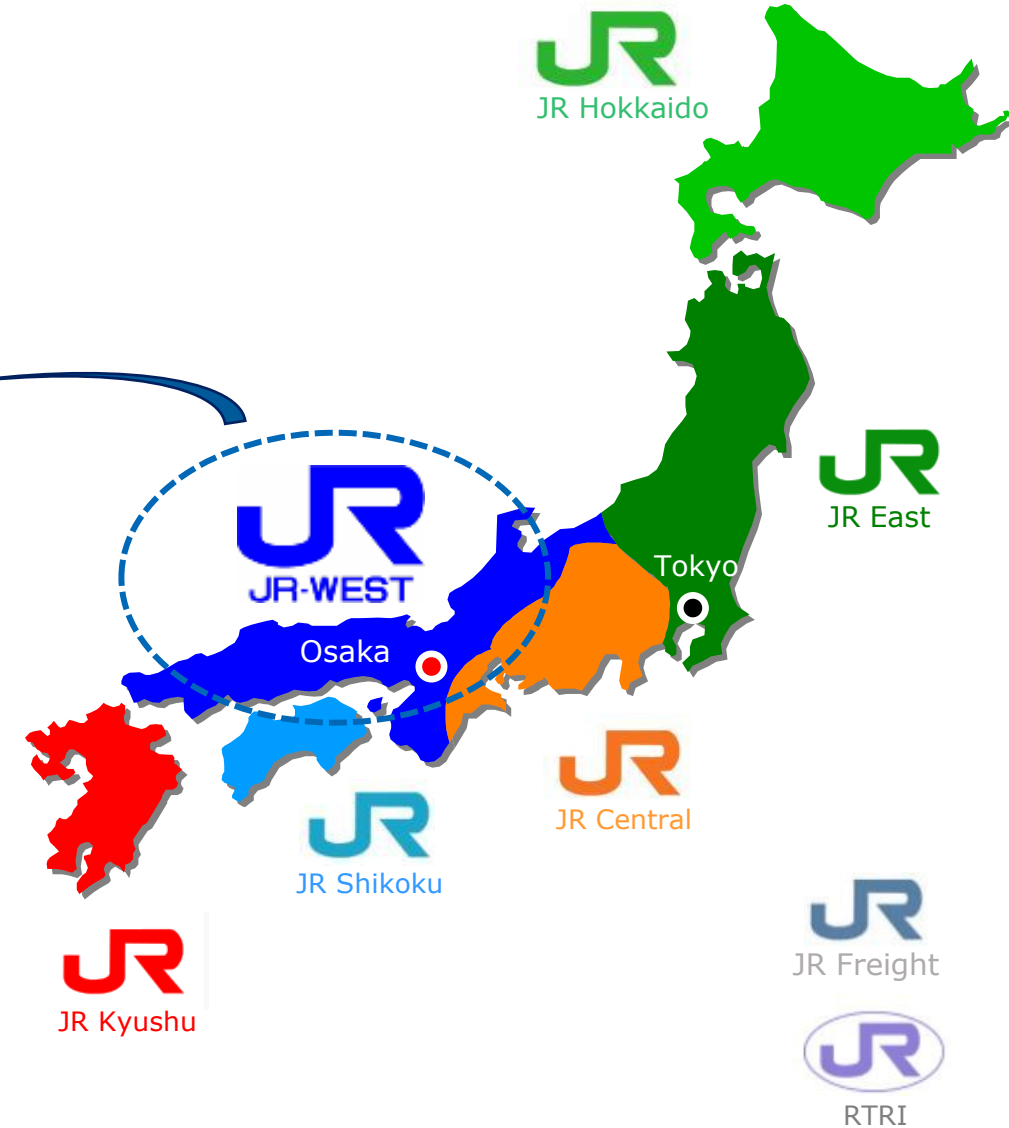
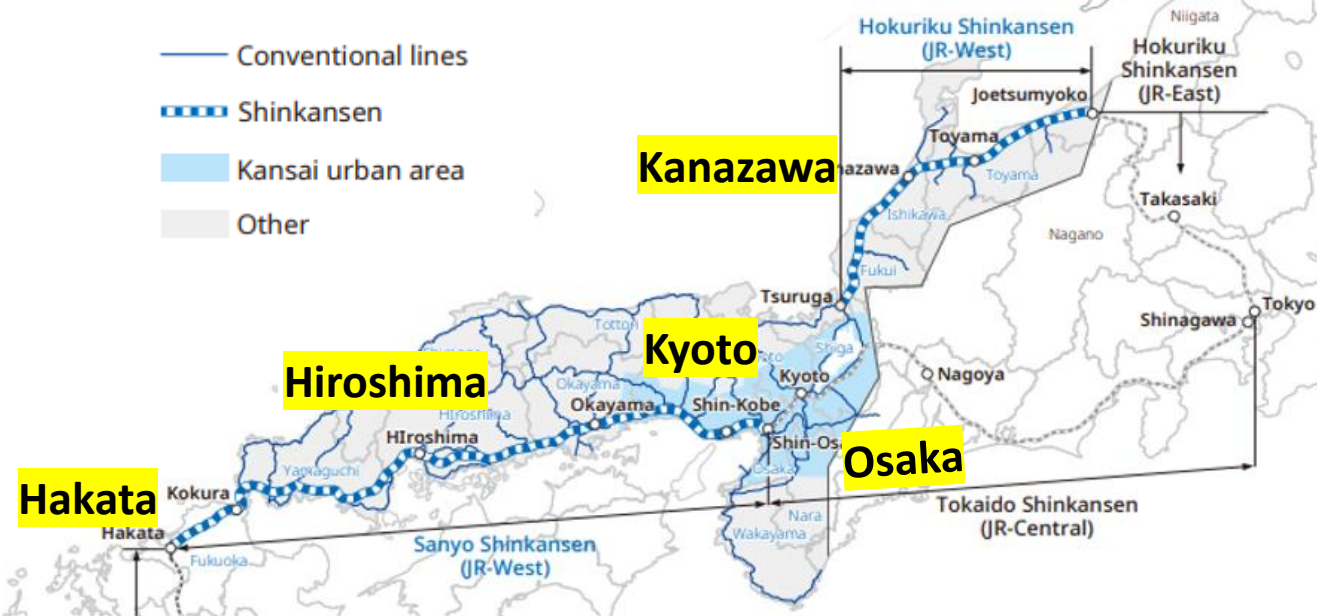
➔ 6 Passenger Companies

➔ 1 Freight Company

Railway business model (6 Passenger Companies)

- Own almost all their rail infrastructure
- Operate and maintain as a fully integrated model

- Conventional lines
- ▬ Shinkansen
- Kansai urban area
- Other



1. Who is “JR-West” ?

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The logo for WEST (West Japan Railway Company) is displayed in a light blue, stylized font, tilted diagonally upwards to the right. The letters are bold and modern, with a slight shadow effect.

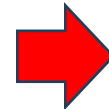
What is the area around Osaka station?

Umekita Area (Area around Osaka station)

- Former **JR Umeda Freight Terminal** site (~24 ha) north of Osaka Station
- Redevelopment launched after **site closure in 2013**
- **Phase 1: Grand Front Osaka**(mixed-use area), opened **April 2013**
- **Phase 2: Grand Green Osaka**(mixed-use area around a huge park), **partial opening in 2024**, full completion around **2027**

JR Osaka station

- 700k-800k+ passengers/day
- ~200 trains/hour (peak)
- 15 platforms, multi-directional hub



3 Key Features of Our Station-Area Development

- ① Community Development and Urban Value Creation
- ② One of the Largest Transportation Hubs in Western Japan
- ③ Future Station, Sustainable and Innovation Demonstration

① Community Development and Urban Value Creation



Osaka station
~New station-access facility in Umekita~
Mar 2023 Open



Quoting from "UR"

Quoting from "UR"

① Community Development and Urban Value Creation

Real estates developments that JR West was involved in Station-Centered for Community



**Ino Gate Osaka
(2024.7-)**

A 23-story office tower above Osaka Station, hosting thousands of workers with direct rail access, dining, and modern workspaces.



**JP Tower
(2024.7-)**

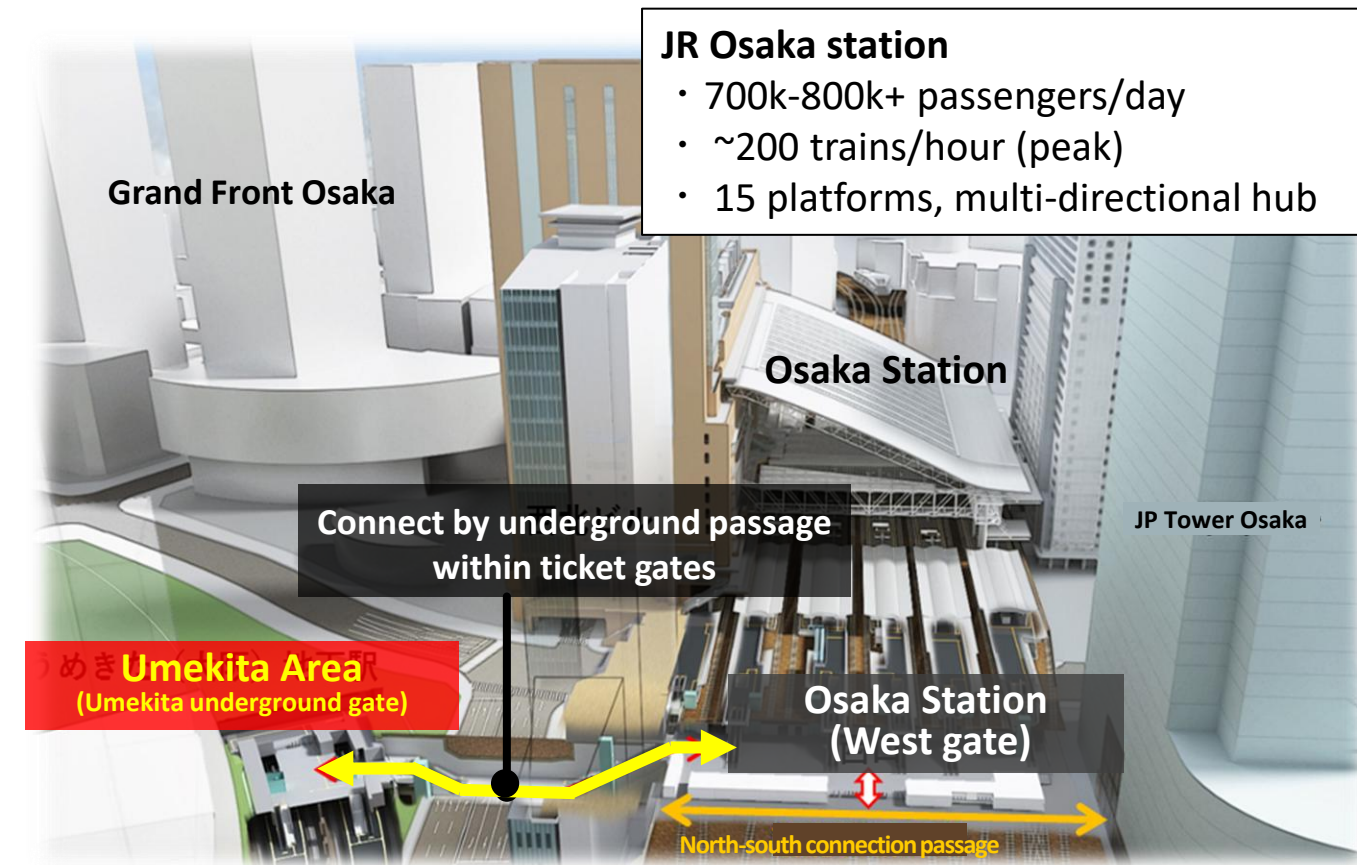
A 39-story landmark complex with large-scale retail (KITTE), offices, hotel, and theater, attracting millions annually near Osaka Station.



**Umekita Green Place
(2025.3-)**

A green-themed commercial complex(GFA: 9,200 m²), featuring greenery, cafes, dining, and retail spaces in central Osaka.

② One of the Largest Transportation Hubs in Western Japan



JR Osaka station

- 700k-800k+ passengers/day
- ~200 trains/hour (peak)
- 15 platforms, multi-directional hub

- Promote travel from Kansai International Airport, Japan's main gateway, to the Osaka Station area and its surroundings.
- Ensure clear and convenient access routes to the Umekita area around Osaka Station.



No-transfer through service
Osaka ↔ KIX Airport (Mar 2023~)



(1) Sustainable

1) Advanced solar cells (Flexible perovskite solar cell)



- **World's first planned installation in a publicly accessible facility**
- Lightweight and bendable solar cells
- On-site demonstration tests measuring solar irradiance and power output

2) Horizontal recycling of used PET bottles



- Used PET bottles are recycled into new PET bottles (horizontal recycling)
- Quality is maintained without downcycling
- Contributes to resource circulation and CO₂ reduction



3) Green Space Development

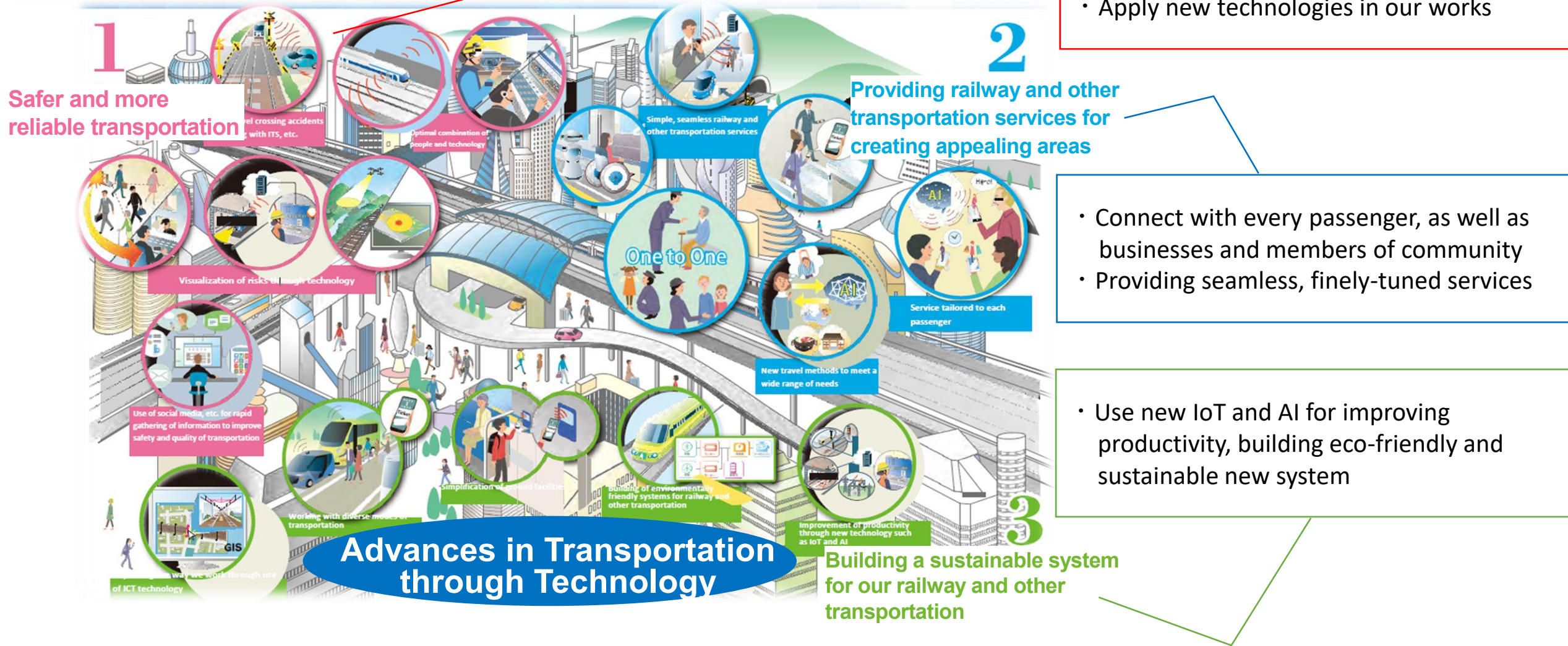
- Plaza greenery: ~1,500 m²; rooftop & wall greening: ~1,000 m²
- Approx. 30% green coverage and ~40 t/year CO₂ absorption
- ~10% reduction in rainwater runoff compared to paved areas

4) Net-zero CO₂ emissions from electricity use

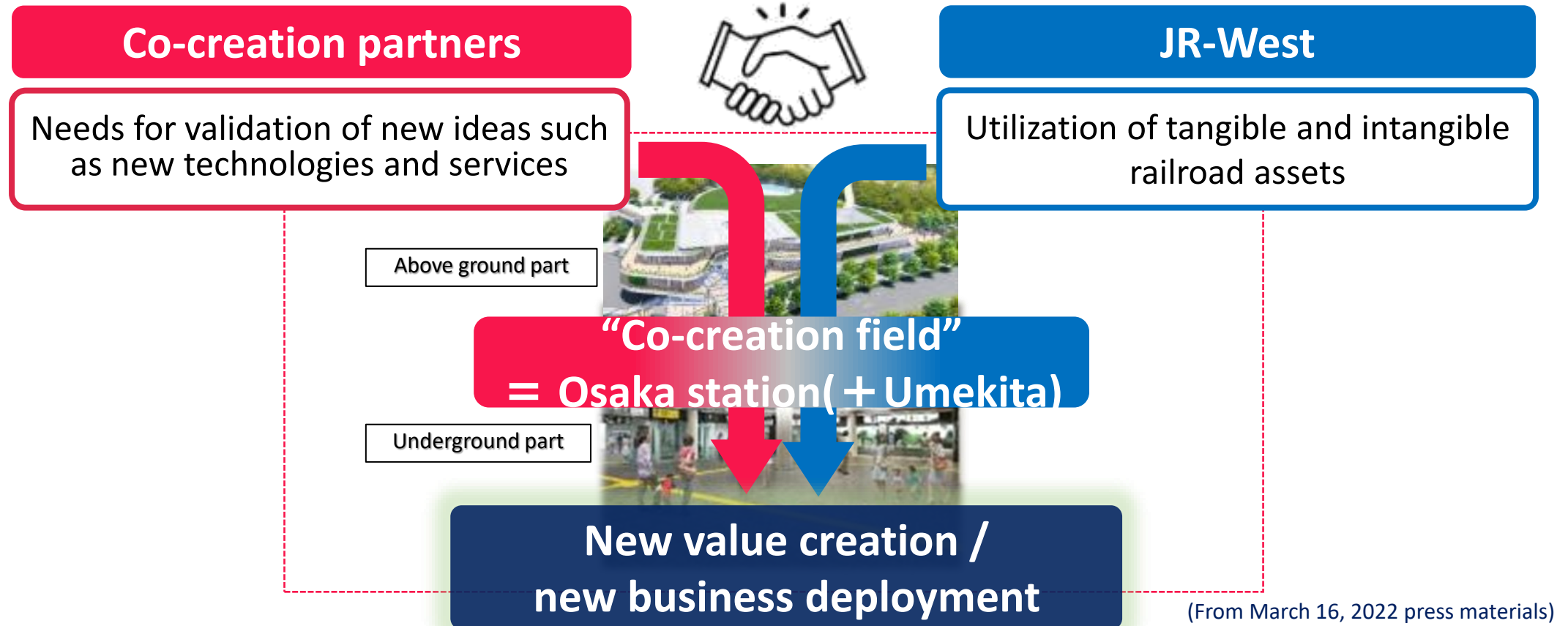
- **100% renewable electricity for the entire station**
- Covers both underground and above-ground facilities

(2) Innovation

Technology Innovation Vision



(2) Innovation



- ✓ Openly use of railroad assets and broadly collaborate with co-creation partners
- ✓ Form new co-creation relationships from the co-creation field

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Case1 : Facial Recognition Ticket Gates

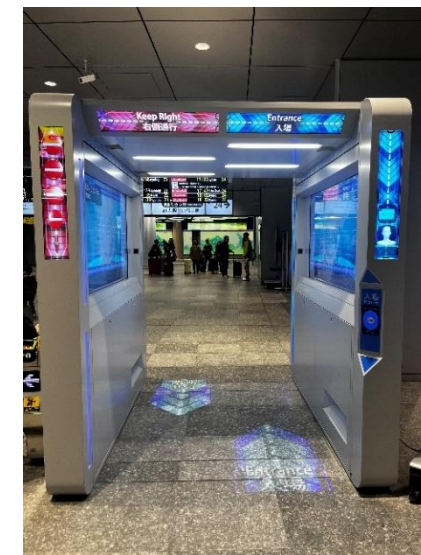
Type1 : Arch-type ticket gate (Mar 2023~ to be removed soon)

Objective

To reduce the burden of boarding procedures and enable smooth passenger flow capable of handling large crowds.

Key Points

- “Contactless and hands-free” ticket gates without IC cards or paper tickets
- Reduced pass-through time to ease congestion
- Pilot deployment toward full-scale operation of next-generation ticket gates



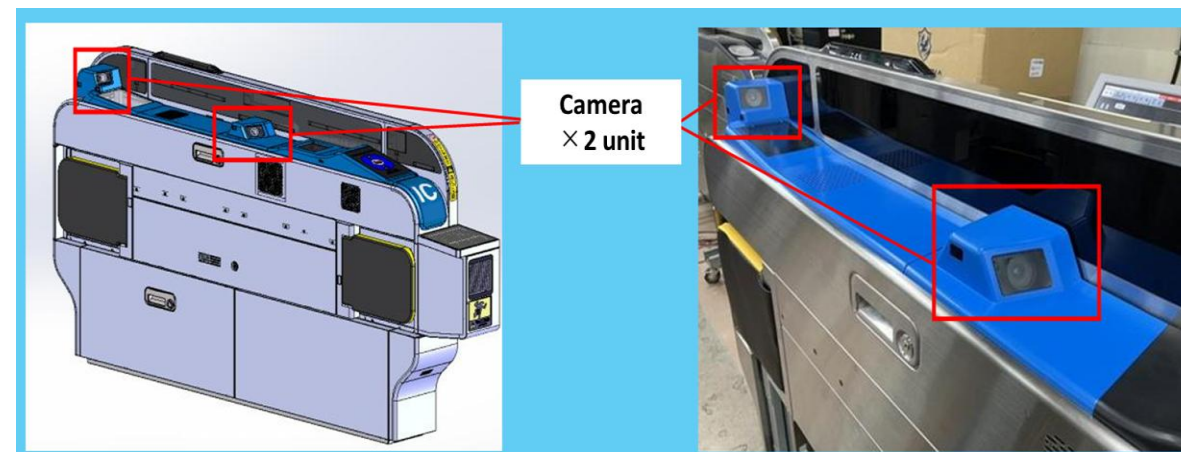
Type2 : Next face recognition ticket gate (Mar 2026~)

Objective

To use existing IC-only gates to keep costs low while enabling practical and scalable face recognition ticket gates(under trial).

Key Points

- **Low-cost deployment:** Upgrades existing gates instead of installing new ones.
- **Easy scalability:** Simple camera additions support reliable rollout.



Case2: Full-Screen Sliding Platform Doors

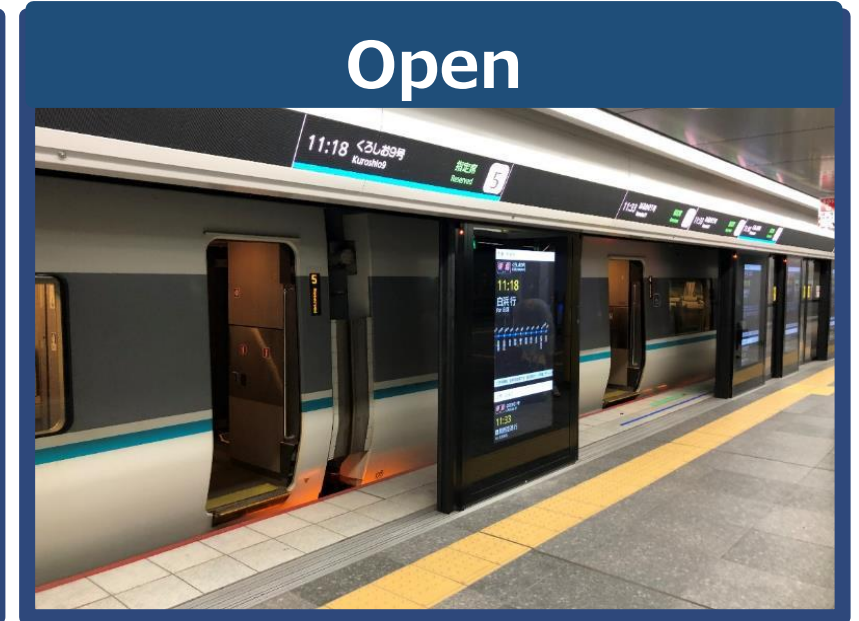
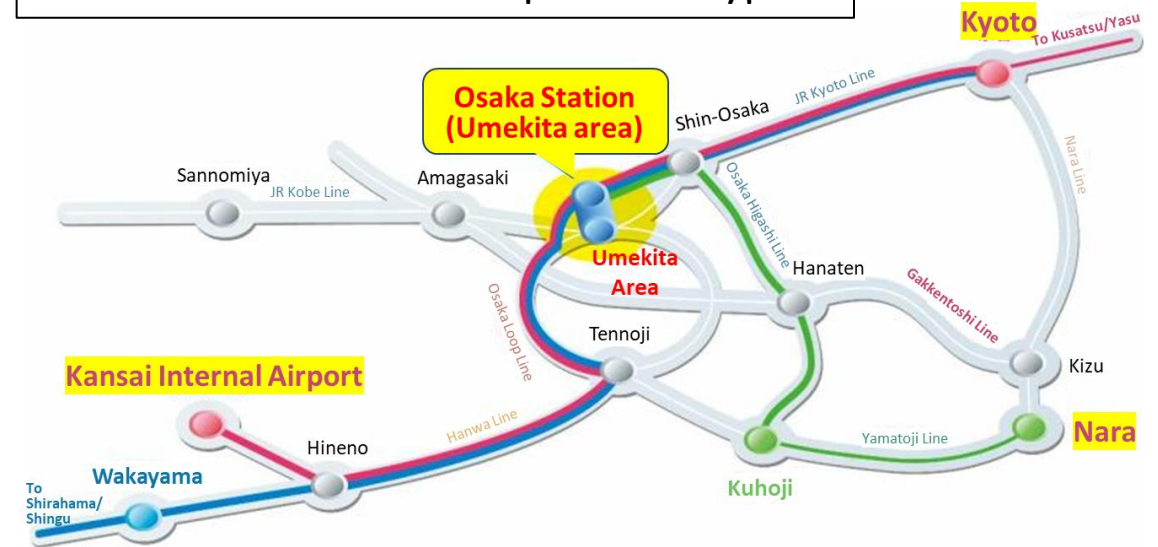
Objective

To accommodate all train door positions, full-screen platform doors are installed at this station.

Key Points

- Lightweight, retrofittable sliding-door structure
- Flexible adaptation to different train types
- Simultaneous achievement of fall prevention and cost-efficient installation

Accommodation of Multiple Train Types



Case3: ShikAI to support visually impaired people

Objective

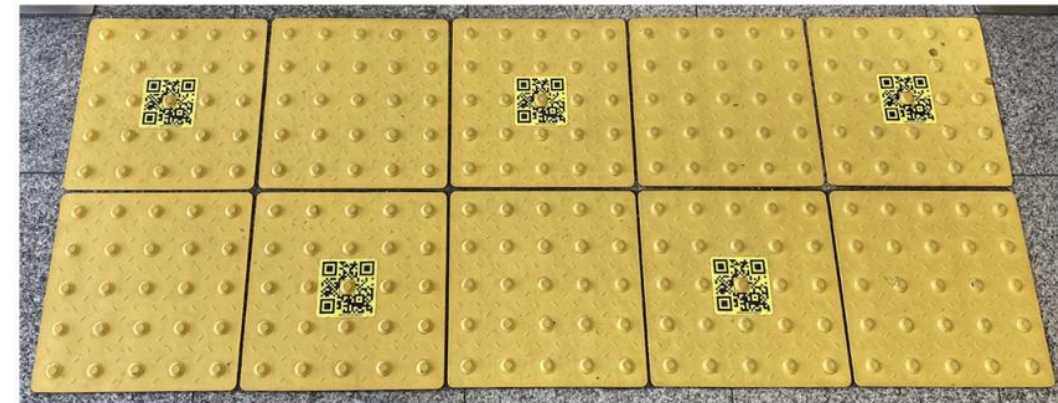
To provide a safe and accessible station environment for visually impaired passengers and support independent station use.

Key Points

- Realization of an inclusive station environment independent of visual information
- Audio-based navigation via smartphones and other devices
- Guidance on current location, direction, and routes to destinations



During navigation, the smartphone camera automatically detects the user's surroundings.

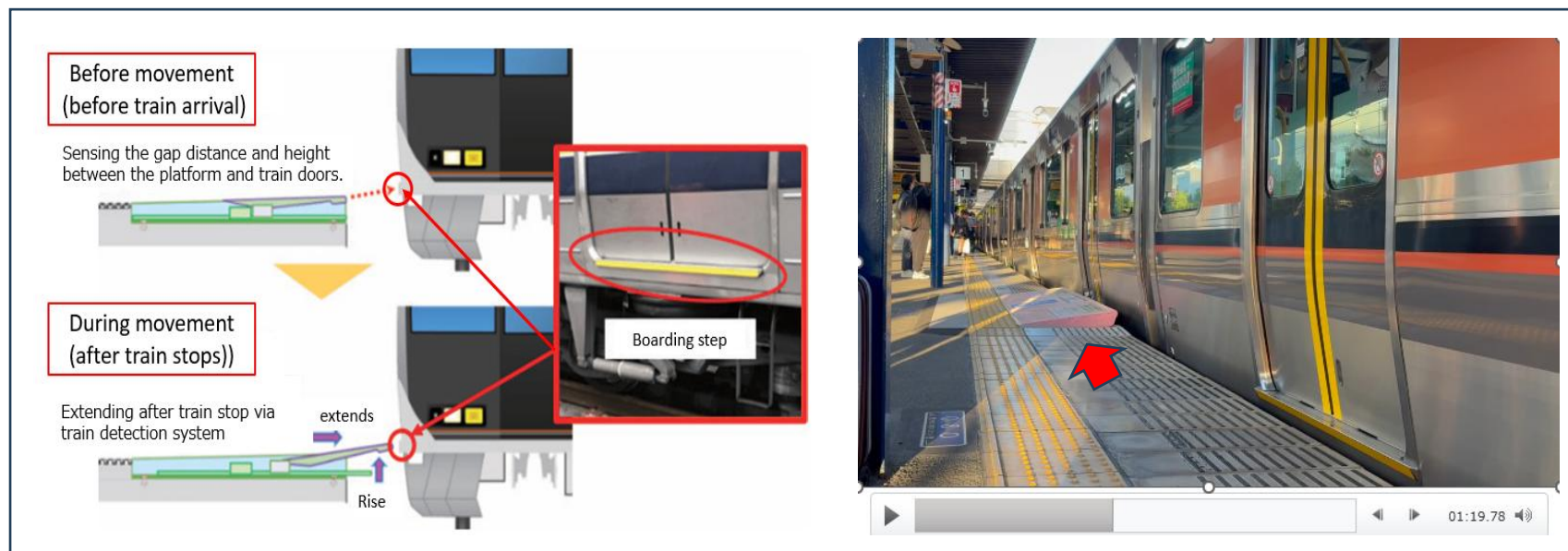


Objective

To automatically eliminate gaps and level differences between the platform and trains, enabling safe and smooth boarding and alighting for all passengers, including wheelchair users (trail in 2025).

Key Points

- **Flexible to varying conditions:** Handles curved platforms, different train types, and wear-related changes.
- **Automatic gap filling :** Automatically bridges gaps and steps when trains arrive.
- **Ramp functionality :** Serves as a ramp for safe, independent wheelchair access.



Automatically detects gaps and level differences and extends to achieve a **0 cm step** and a **3 cm gap**.

Our purpose

Evolve connections among people, communities, and societies.

Stir the heart, drive the future.

Thank you for your attention.

Seigo Mizuno

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Connect more. Spring into the future.

