

JR East and its HSR Experience

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2 HSR Perspectives

3 Economic Benefits of HSR

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3 Economic Benefits of HSR

JR EAST is the largest railroad company in JAPAN

Network: 4,668 miles

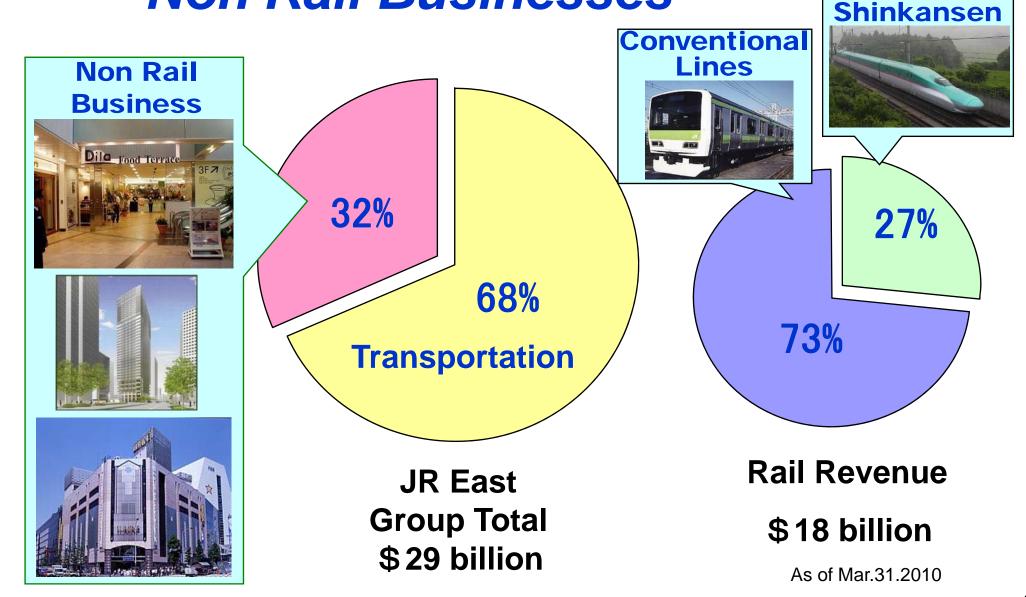
No. of Passengers: 17 million /day

No. of Trains: 13,000 /day

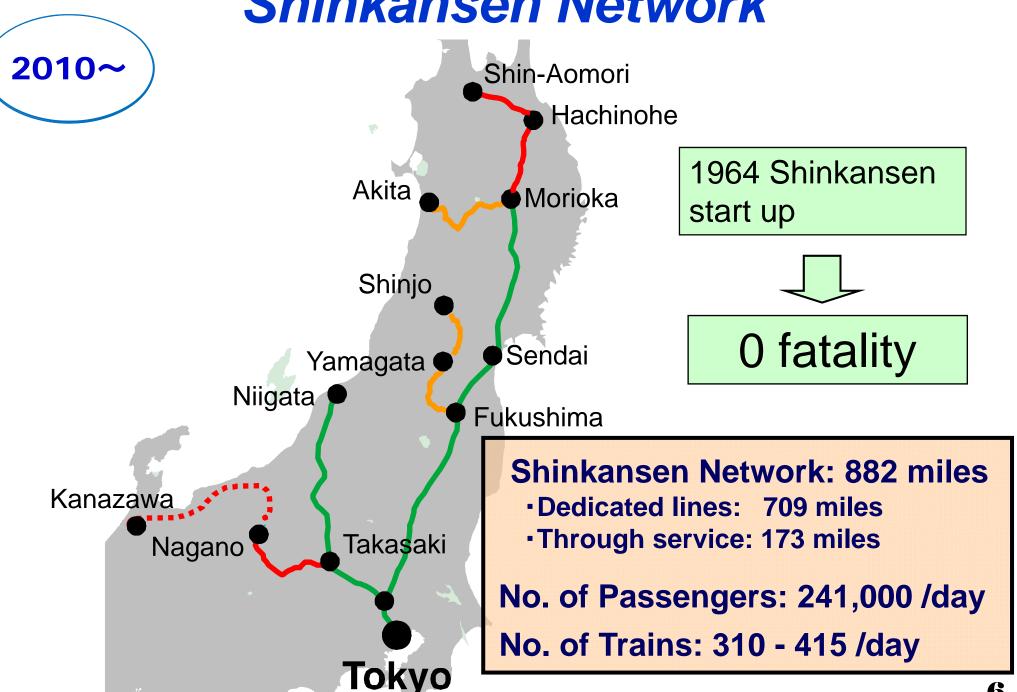


(Oze

Revenues from Railroad and Non Rail Businesses



Shinkansen Network



Three types of Shinkansen

High speed



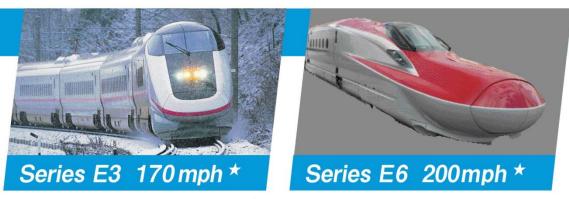


Large capacity





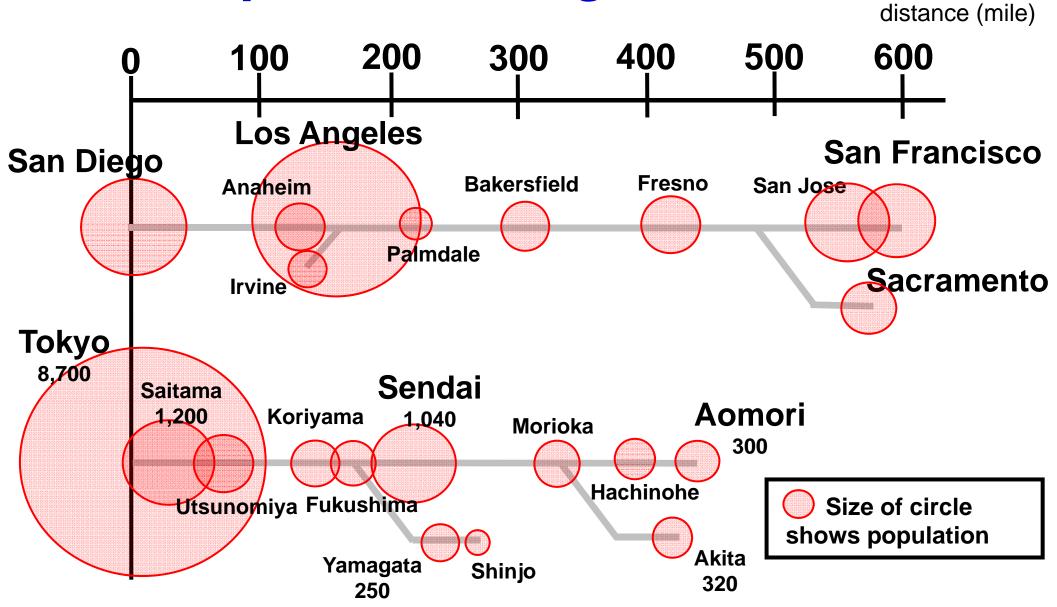
Through service



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Population along HSR route



Safety:

0 fatality

since 1964 Shinkansen start up

High Speed: 200 mph

from March 2013

Punctuality: Less than 1 min.

HSR Keywords



- (1) Shorten total travel time
- (2) Comfort & Amenities
- (3) Station complex (station, hotel, shopping mall, etc.)
- (4) Anti-noise measures & aseismic system

Tokyo to Aomori 443 miles

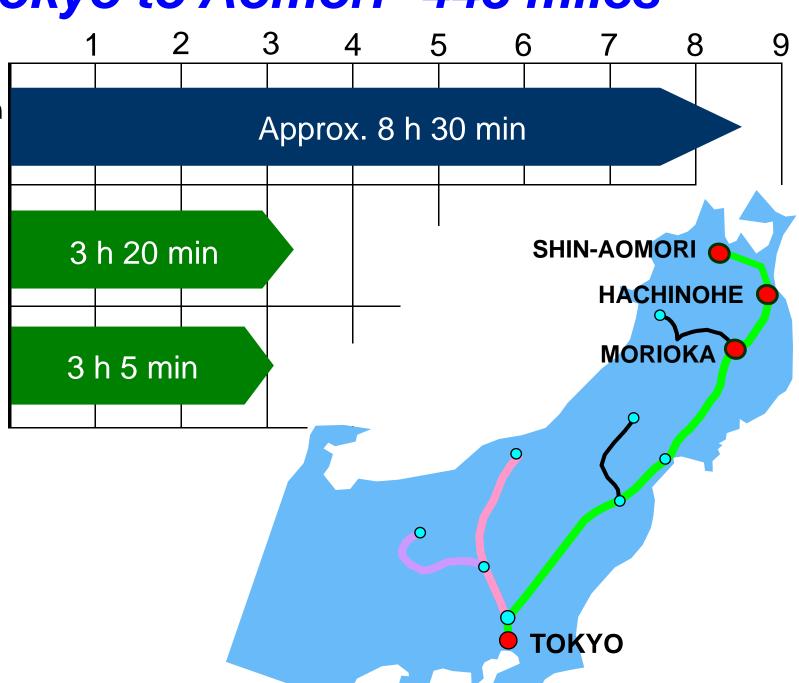
Pre-Shinkansen (-1982)

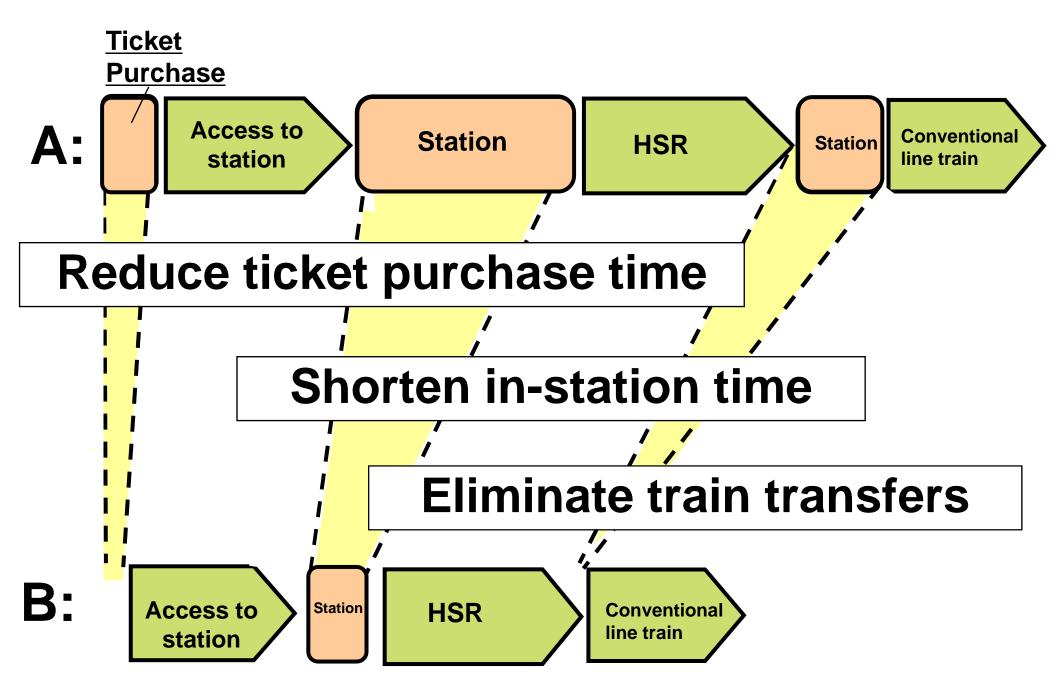
Shinkansen

(170mph)

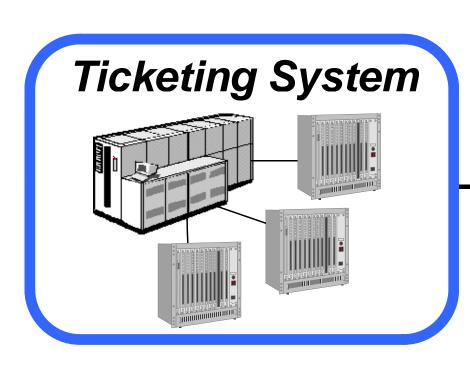
Shinkansen

(200mph)





Reduce ticket purchase time

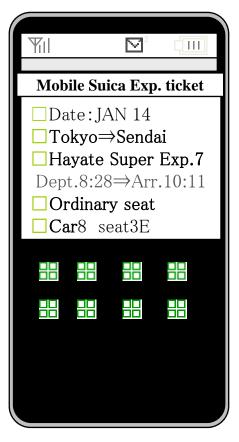


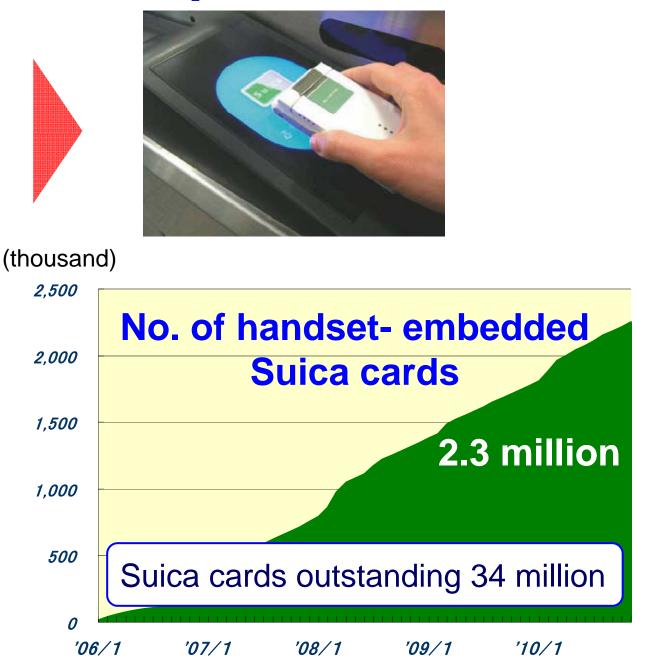
Station

Home, Office (Web site)

Anywhere (Mobile)

Reduce ticket purchase time





Conventional Line Platform

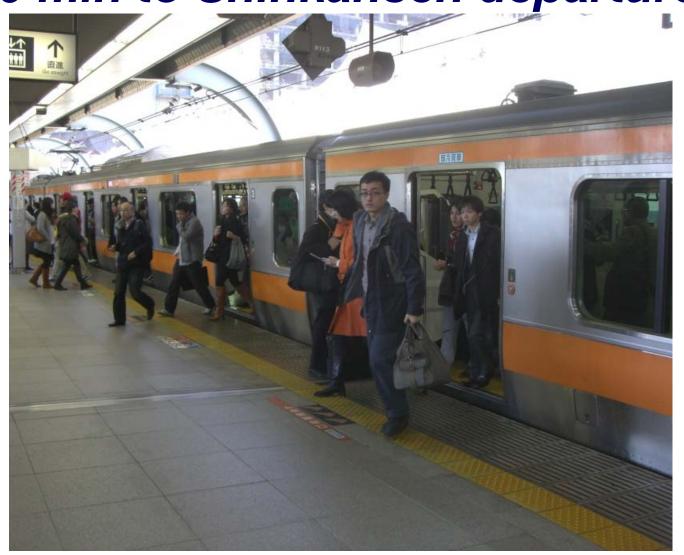
Escalator



Concourse



10 min to Shinkansen departure





Shinkansen Gate

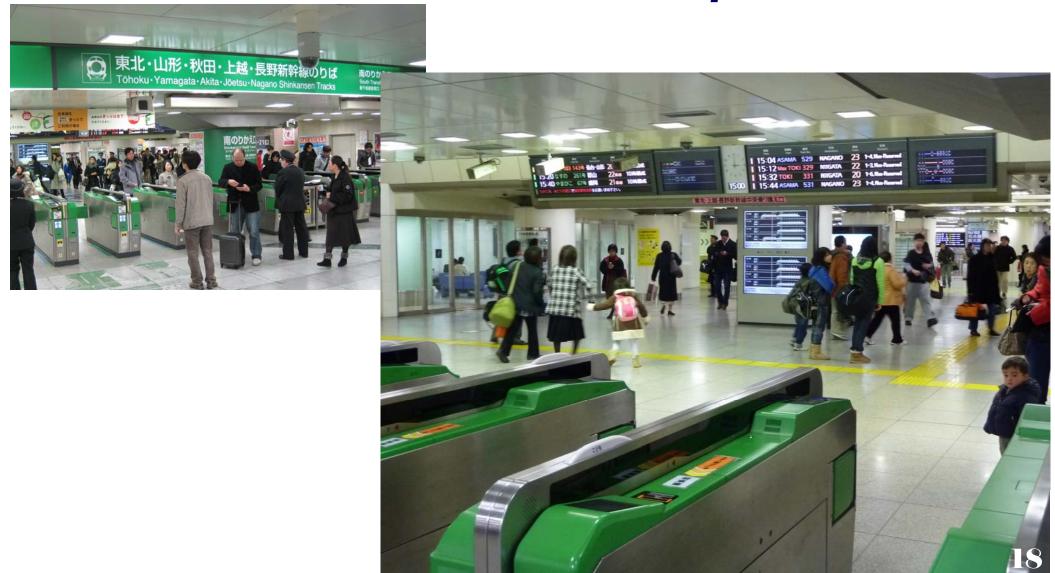
Escalator



Shinkansen Platform



5min to Shinkansen departure





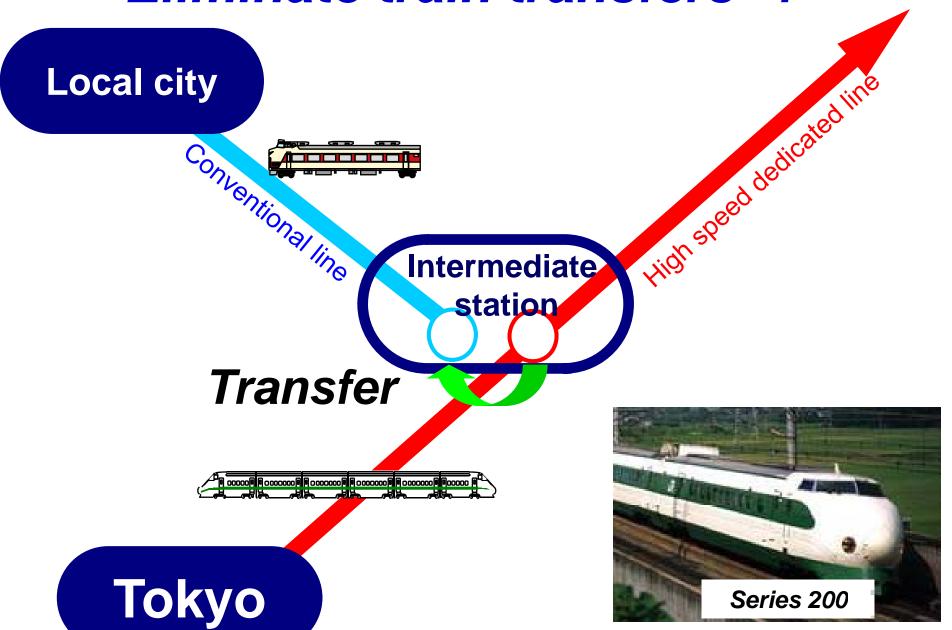
Train Leaving

2 min to Shinkansen departure

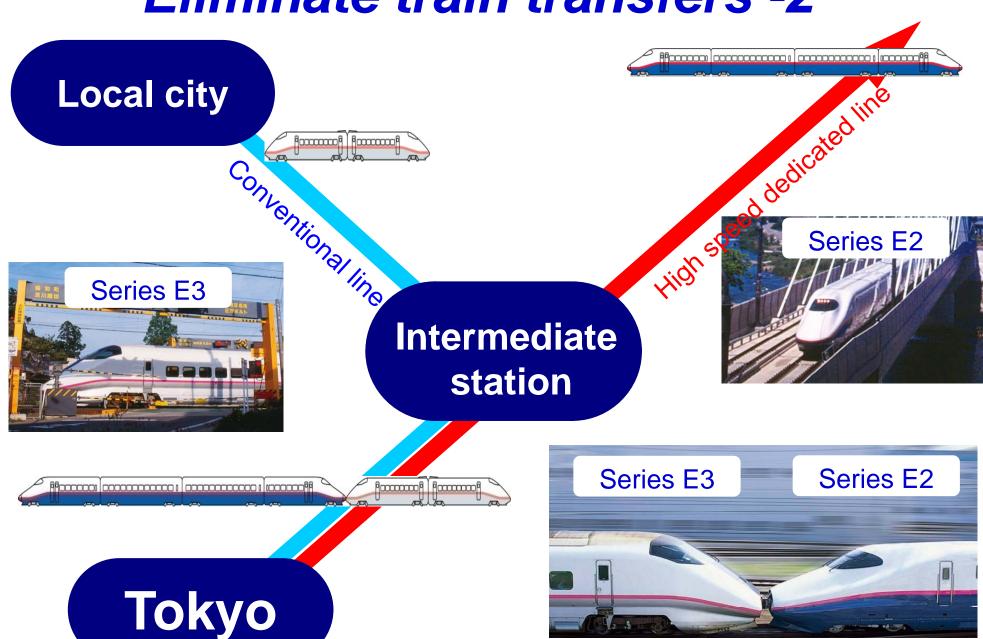




Eliminate train transfers -1



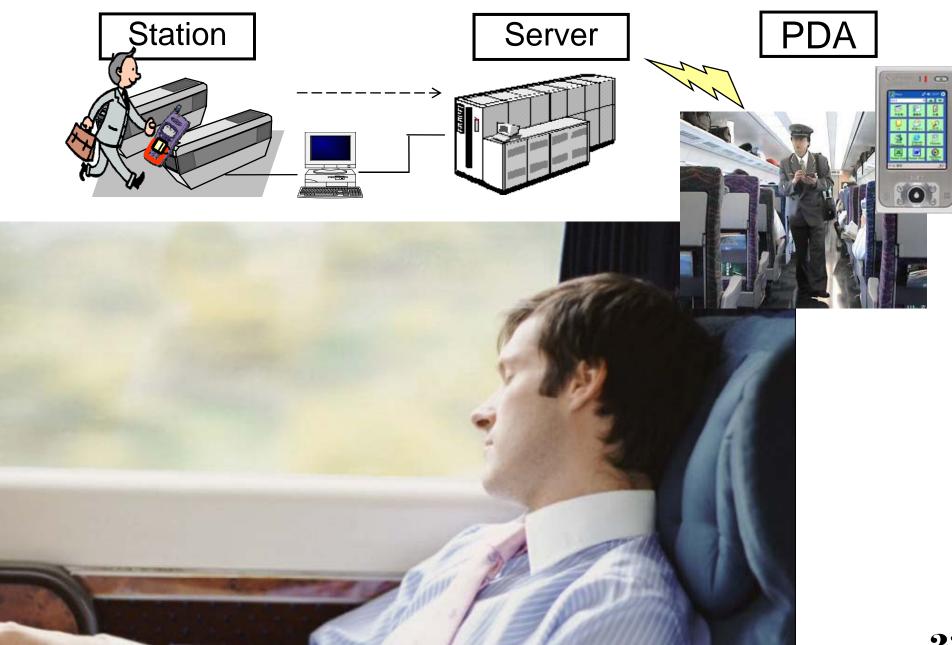
Eliminate train transfers -2



- (1) Shorten total travel time
- (2) Comfort & Amenities
- (3) Station complex (station, hotel, shopping mall, etc.)
- (4) Anti-noise measures & aseismic system

2-(2) Comfort & Amenities

No Ticket verification in cabin



2-(2) Comfort & Amenities





on the Series E5



- (1) Shorten total travel time
- (2) Comfort & Amenities
- (3) Station complex (station, hotel, shopping mall, etc.)
- (4) Anti-noise measures & aseismic system

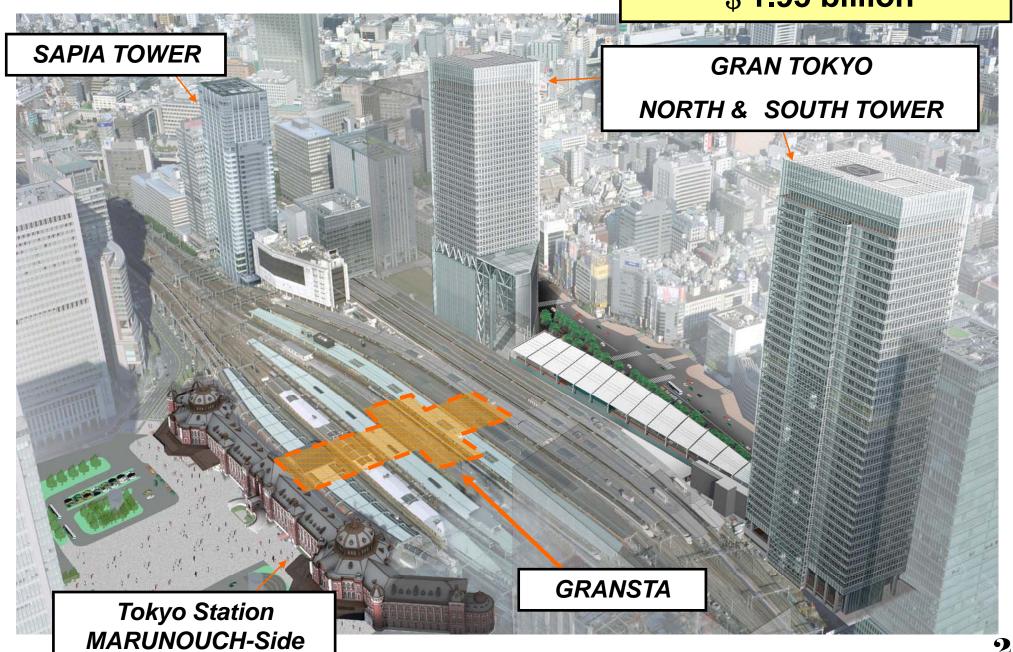
2-(3) Station Complex



2-(3) Station Complex

"Tokyo Station City"

Tenant sales total \$1.95 billion



2-(3) Station Complex

"Shin-Aomori Station"



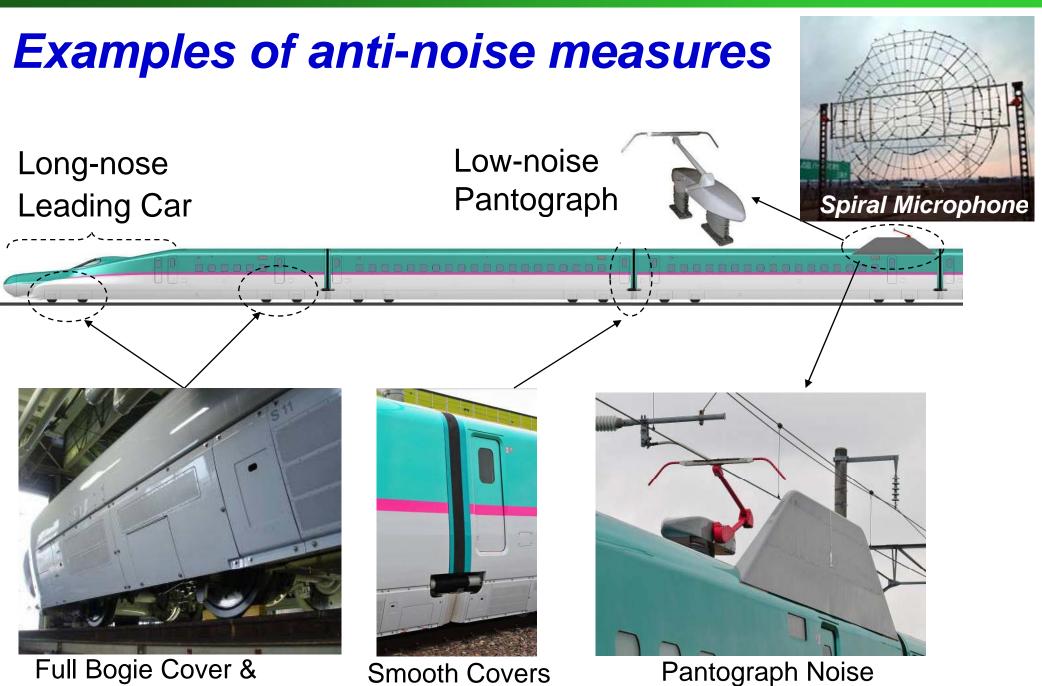
Now

- (1) Shorten total travel time
- (2) Comfort & Amenities
- (3) Station complex (station, hotel, shopping mall, etc.)
- (4) Anti-noise measures & aseismic system

Shinkansen noise level

- ■Below Japanese environmental standard of 75 dB
- No damage to agriculture or livestock





Between Cars

Sound-absorbing Panels

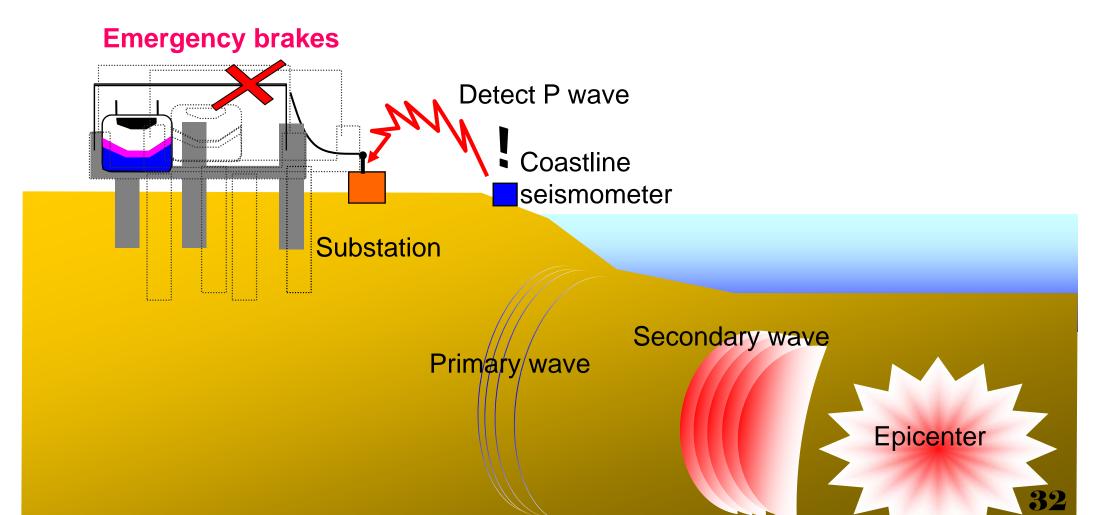
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Insulation Panels

Early Earthquake Alert System

Whenever coastline seismometer detects Primary wave.

Power shutdown

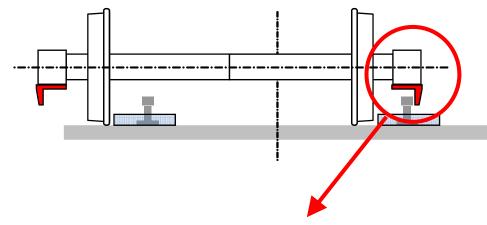


Reinforced Pillars





L-Shaped Car Guides

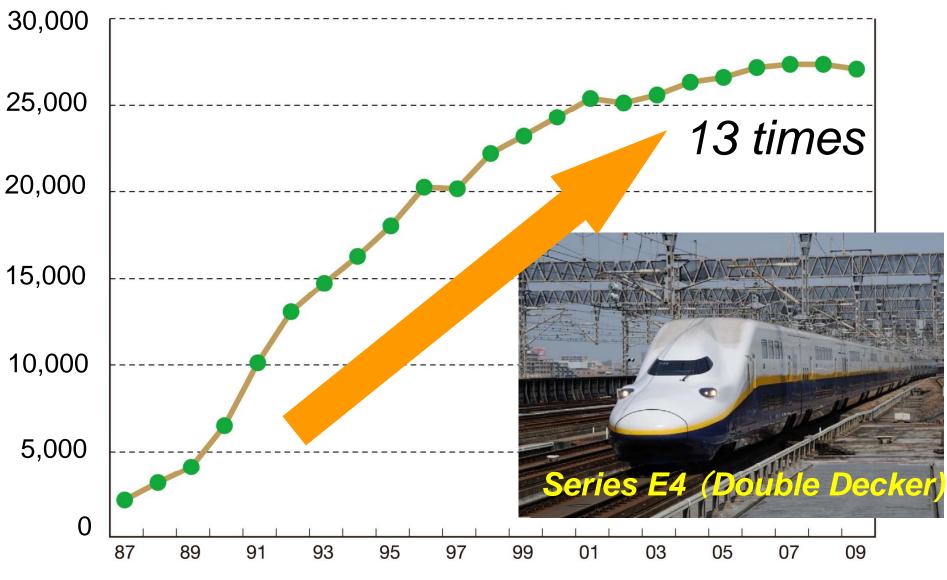




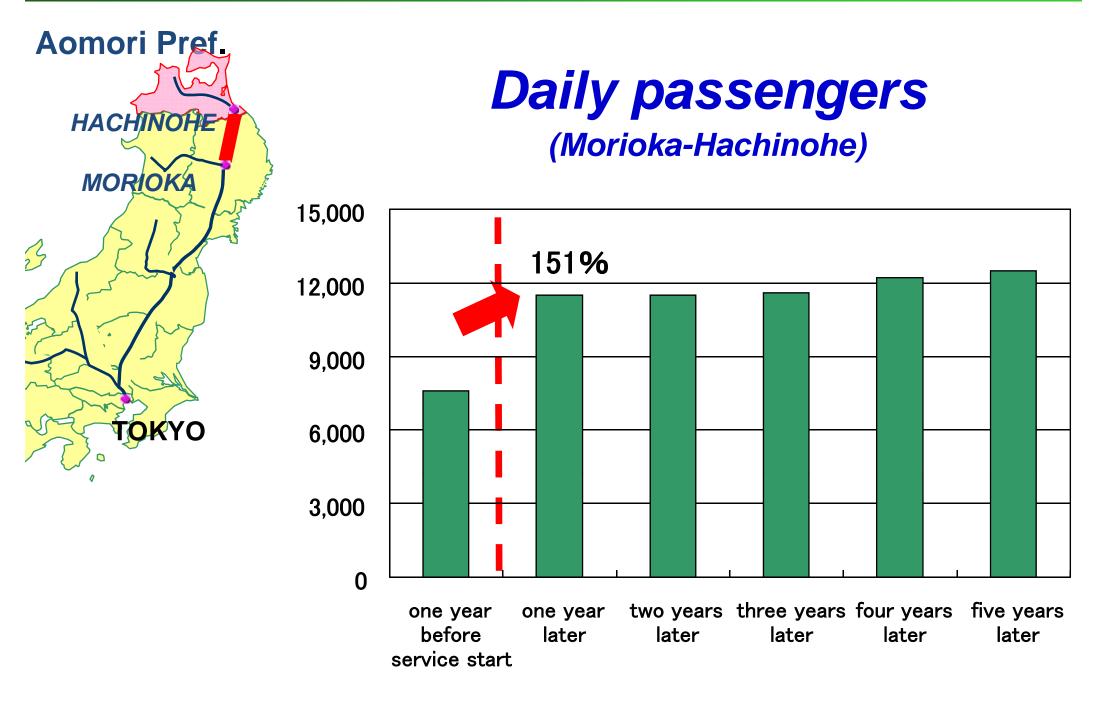
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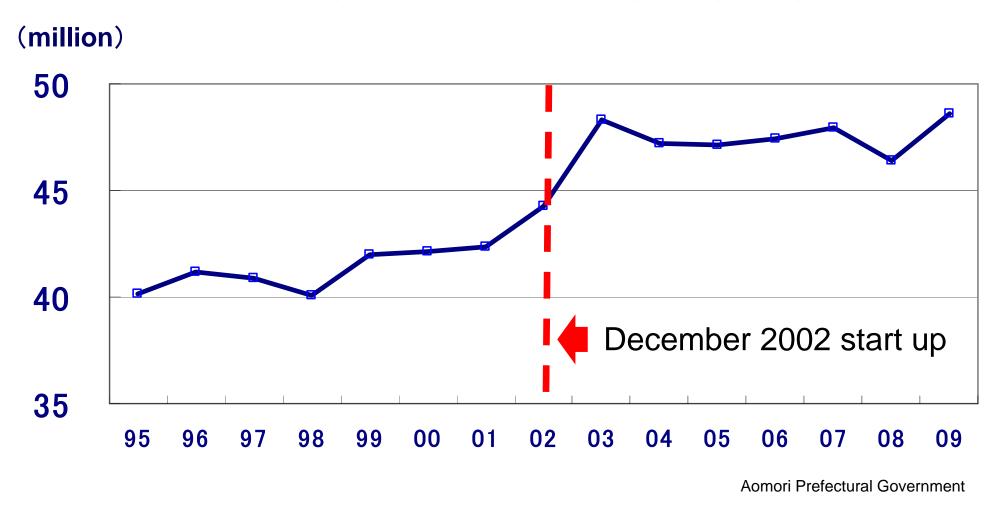
Growth in Shinkansen commuters



No. of Shinkansen commuter pass holders



Tohoku Shinkansen Tourist Inflow into Aomori



(After 11 months)

7,000 Jobs created

Increased tourist consumption inducing greater employment, as calculated by the Aomori Prefectural Government





Before Now

Conclusion

- HSR of JR East is safe, punctual, highly efficient and environmentally friendly, providing a comfortable ride.
- The Shinkansen is a technology that is in tune with the urban setting and local environment.
- JR East is empowered to coordinate an optimal rail system and hopes to contribute to building California's HSR.

