Session 1: Mr. Noriyoshi Yamagami

Presentation entitled:

High Speed Rail: Experiences from Japan

Biographic Data of Speaker



Noriyoshi Yamagami Counselor, Director, Office of Global Strategy for Railway Development, Railway Bureau, MLIT JAPAN

Education:

- 1992 MA in Politics, Stanford University, United States
- 1987 BA in Law, University of Tokyo, Japan

Professional Background:

| | 2009-present | Counsellor, Director, Office of Global Strategy for Railway Development, Railway |
|--------------|--------------|--|
| | | Bureau, MLIT |
| lacktriangle | 2007-2010 | Director, Accidents Compensation Division, Road Transport Bureau, MLIT |
| lacktriangle | 2004-2007 | Counsellor, Embassy of Japan in United Kingdom |
| lacktriangle | 2003-2004 | Director for General Affairs, Ports and Harbours Bureau, MLIT |
| lacktriangle | 2001-2003 | Group Leader for General Affairs Division, Central Japan International Airport |
| | | Co. ,Ltd. |
| • | 1987 | Joined Ministry of Land, Infrastructure, Transport and Tourism (MLIT) |

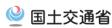
"Toward Low Carbon Transportation for Sustainable Society: Bangkok Vision 2032 (250th Anniversary)"

HIGH SPEED RAIL: EXPERIENCES FROM JAPAN

On this Session, Mr. Yamagami will demonstrate main features of Shinkansen (High-Speed Rail in Japan) including excellent environmental performance, as well as benefits to the society.

Session 1 High-Speed Rail: Experiences from Japan (1)

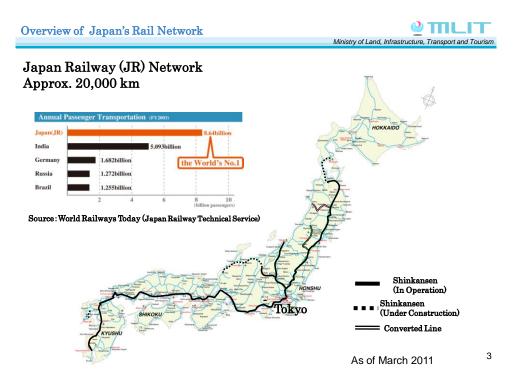
26 August 2011 Ministry of Land, Infrastructure, Transportation and Tourism, Japan



Ministry of Land, Infrastructure, Transport and Tourism

I . Rail Network in Japan

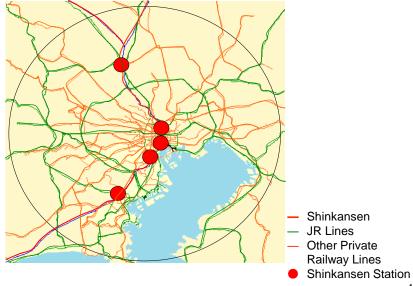




Overview of Japan's Rail Network

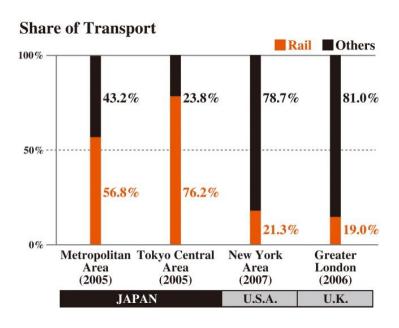
Land, Infrastructure, Transport and Tourism

Tokyo Metropolitan Area; Within 50km Radius of Central Tokyo



Overview of Japan's Rail Network





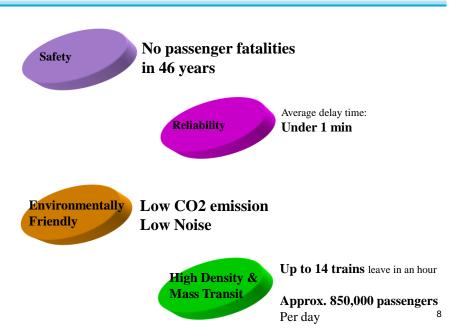
MLIT Japan's Current HSR Network JR East Total Length: 2,388 km JR Central JR West Sapporo Akita Line JR Kyushu (Upgraded Conventional line) Shin-Hakodate 2016 Under As of 2011 Yamagata Line (Upgraded Conventional line) Shin-Aomori Construction 4 Dec 2010 Hachinohe Planned Joetsu Shinkansen (270km) 2002 line Morioka Hokuriku Shinkansen (117km) Niigata Tohoku Shinkansen (593km) Sanyo Shinkansen (554km) Kanazawa Omiya Takasaki Omiya Okayama 1972 1985 Tokaido Shinkansen (515km) Ueno 1991 Kyushu Shinkansen (127km) Tokyo Kagoshima-Chuo

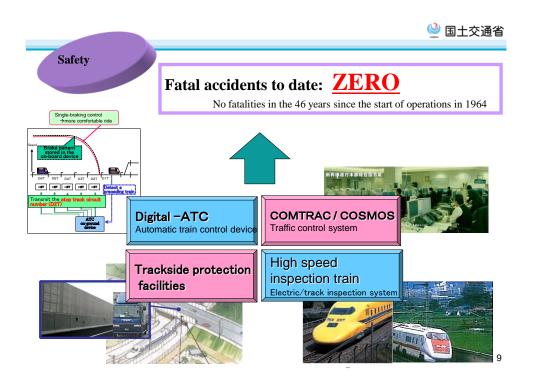
II. Main Features of "Shinkansen"

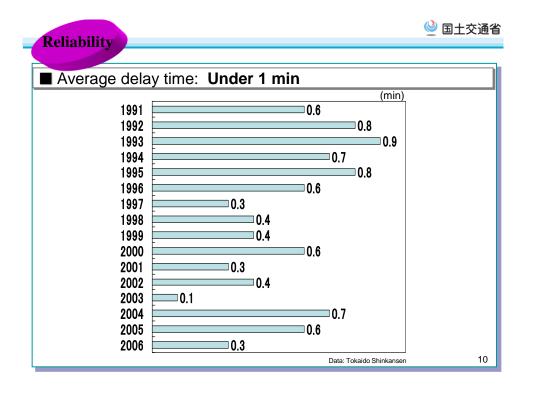


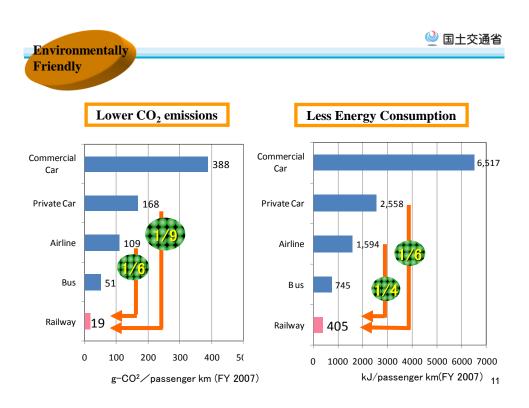
Main Features of Shinkansen









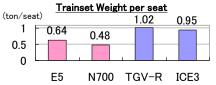


🥝 国土交通省 **Environmentally Friendly** ■ Low CO2 emissions & energy consumption Lightweight TGV ICE Shinkansen Shinkansen (Series E5) (Series N700) (TGV-R)* (ICE3)* Trainset (cars) 10 16 20 16 713 1,323 750 858 Seats (num.) Trainset Weight 454 635 766 818 (ton) ** Trainset Weight/Seat 0.64 1.02 0.95

0.48

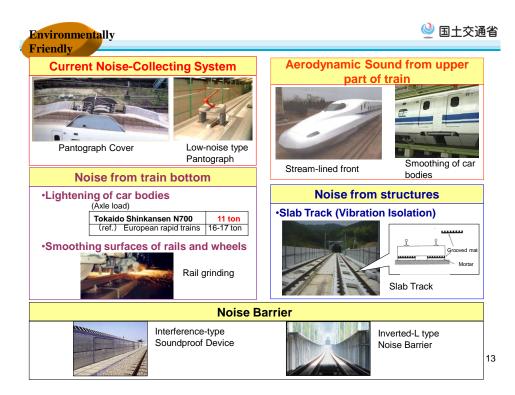
*Coupling of trainsets

^{**}Unloaded, approximate data(Series N700)



12

(ton/seat)





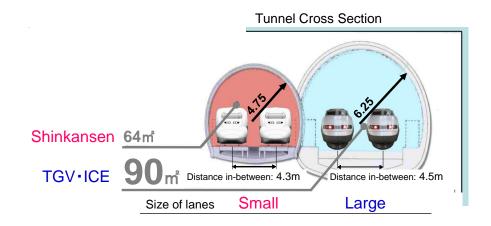




Main Features of Shinkansen



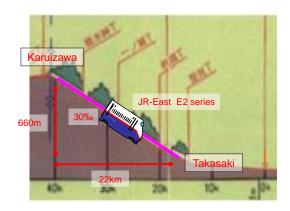
o Small infrastructure

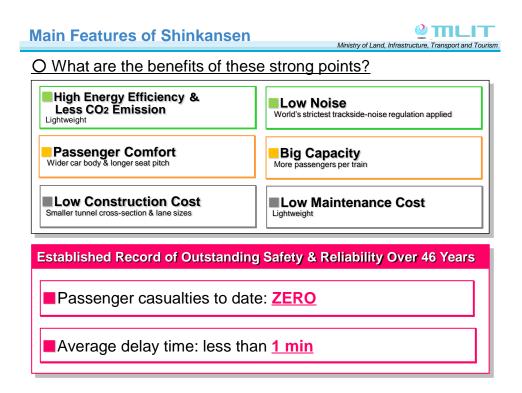


Main Features of Shinkansen



OCross-section of Nagano Shinkansen's long steep-slope segment





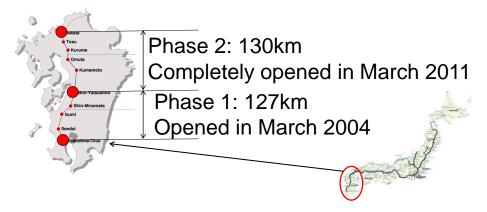
Ⅲ. Benefits of High-Speed Rail



Case of Kyushu Shinkansen



Kyushu Shinkansen: 257km

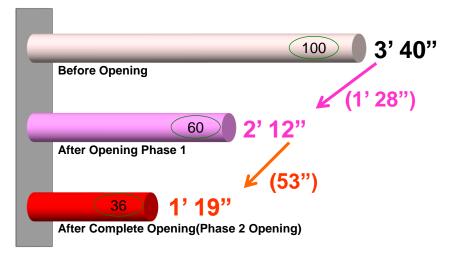


Kyushu's population and GDP are about the same as the Netherlands'.

Case of Kyushu Shinkansen



■ Big Time Savings







Areas accessible from central city within 2.5 hours

Before opening



After complete opening

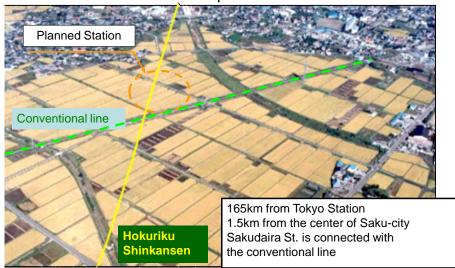


Regional Development



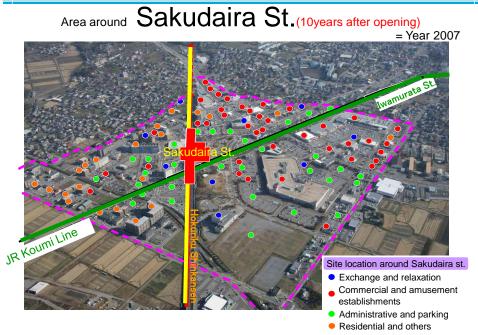
Area around Sakudaira St.

Before 0.6km² development around the station



Regional Development

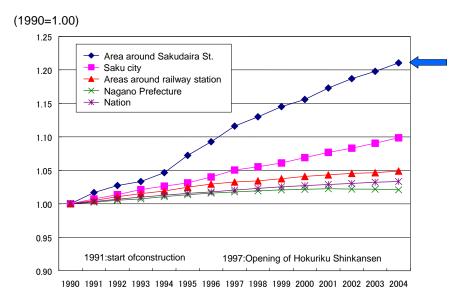




Regional Development



Increase of the population in the area around Sakudaira St.



New Job Creation & Development of Regional Economies





Railway construction



Rail track maintenance



Rolling-stock manufacturing



Shopping outlets inside station



Re-development around station(1)



Re-development around station(2)

