Intensified competition between High Speed Rail and Airlines

29 February, 2016 4th Florence Intermodal Forum *"How does digitalization affect transport and the competition between transport mode?"*

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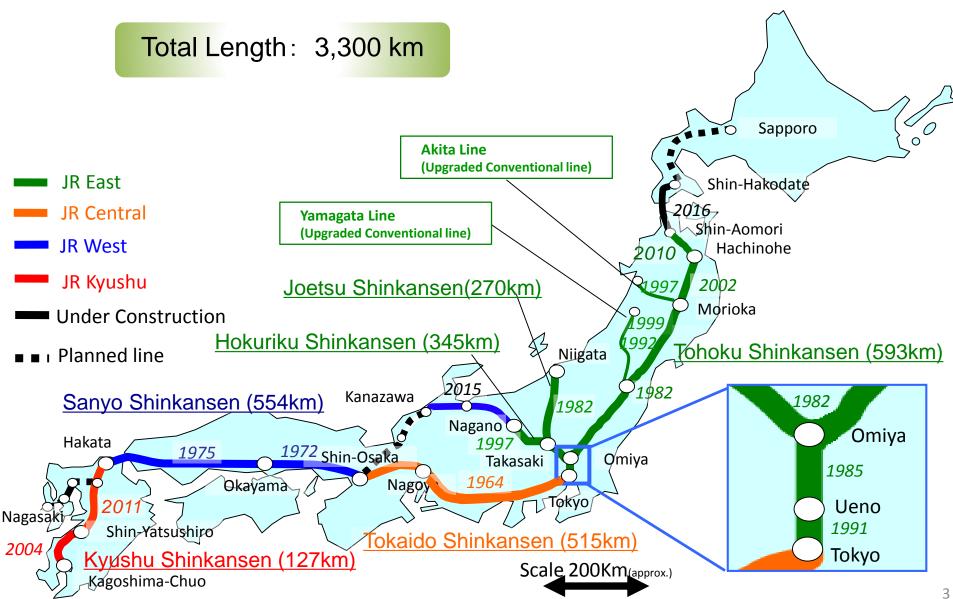
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1 Shinkansen Network

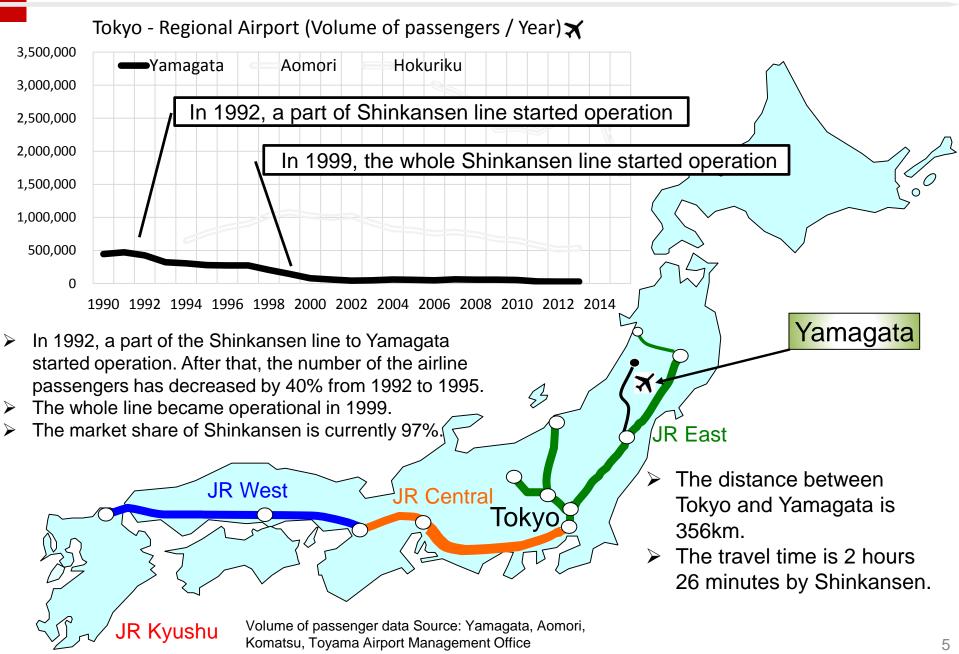




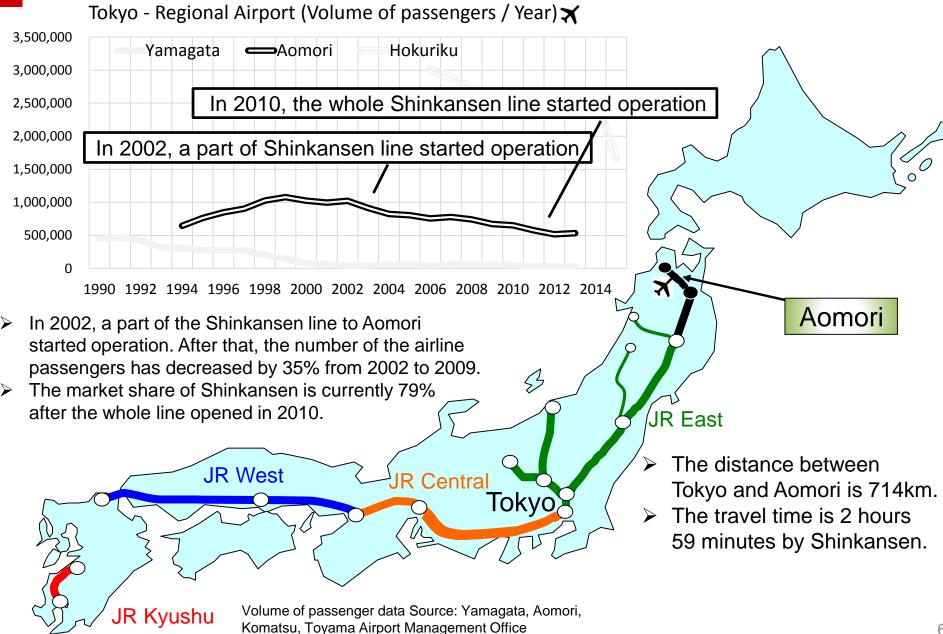
2 Airports in Japan



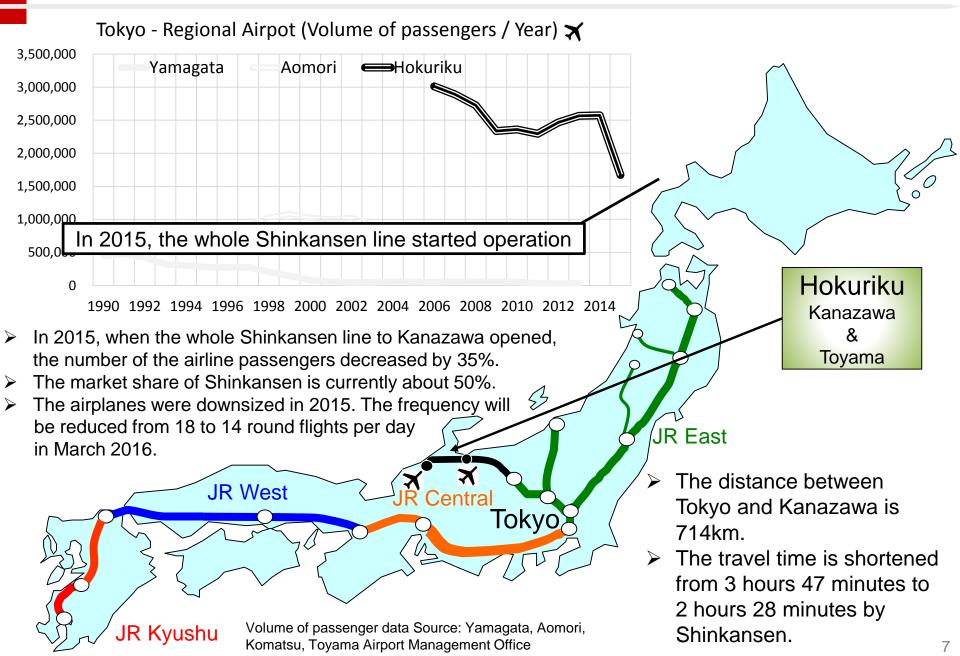




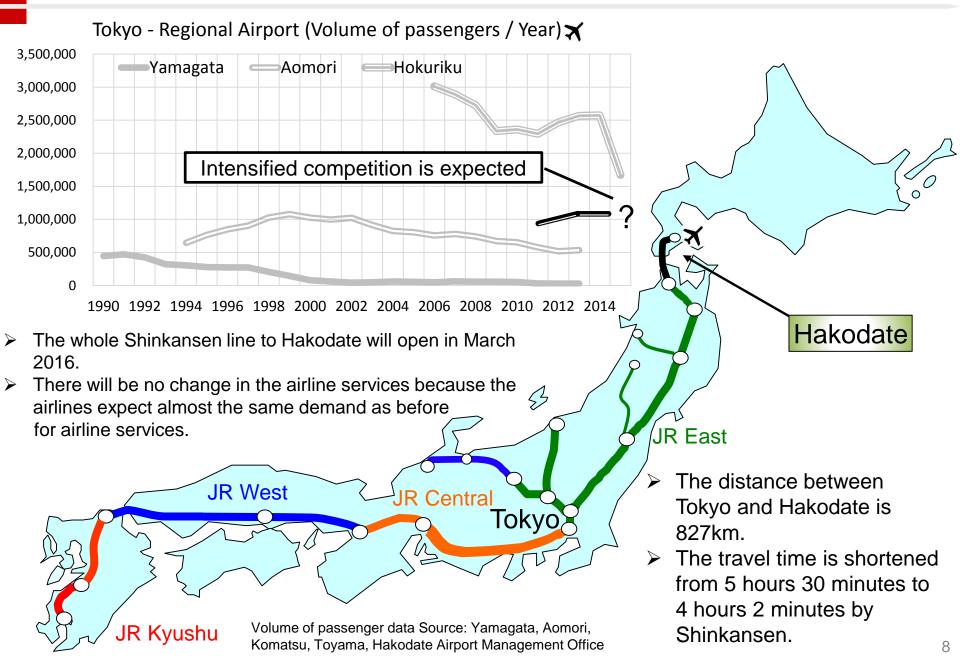






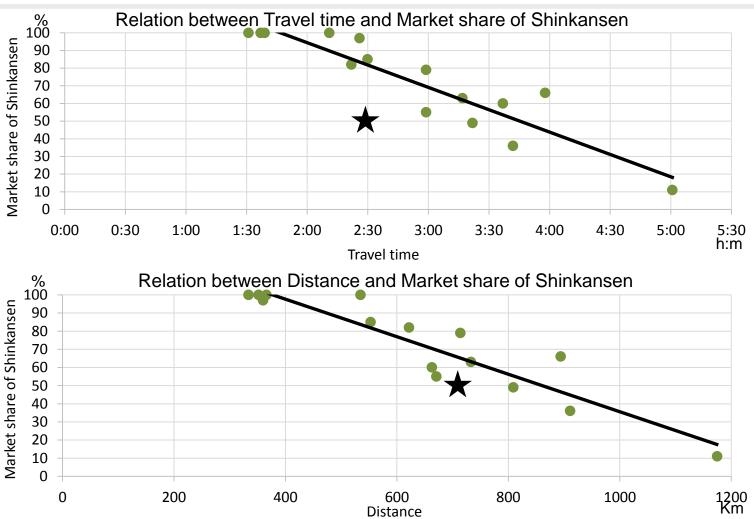






4 Relation between market share & time/distance





- The current market share trend is shown in the charts above. The market share of Shinkansen is shown vertically, while the travel time and distance are shown laterally.
- The market share is considered to have been affected mainly by the travel time and distance. No significant relation between the market share and other elements (frequency, access to airport and price) has been found.

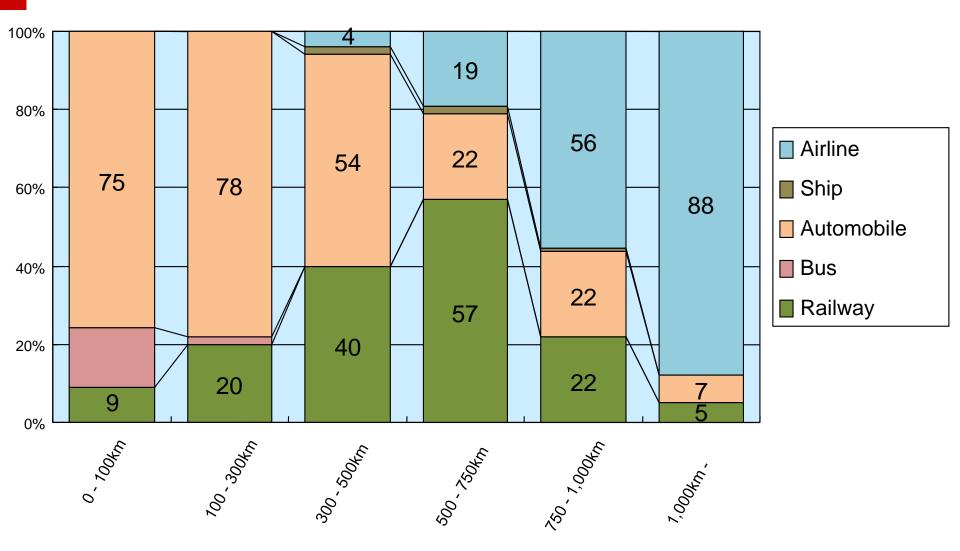
5 Digitalization for customer satisfaction



	Domestic airline (Japan Airlines)	Shinkansen (East Japan Railway)
Self printing ticket	0	×
E-ticket	Ο	A *Japanese feature cell phone with Near Field Communication provides a kind of this service
Time table information available on smartphone	0	0
Operation information available on smartphone	0	0
Wifi service	O *Extra charge	▲ *Only a few trainsets & Extra charge
Frequent shoppers program (mileage program)	0	×
Client identification marketing	0	×

6 Shares by transport modes





Although significant quantitative change in the market shares has not been found yet, some qualitative turn might have been developing.

Source : Research of the number of passengers by distance and transport modes (Ministry of Land, Infrastructure, Transport and Tourism)

7 The way forward



Digitalization enables us not only to digitalize the information but also to convert it into new business added value.

Therefore, digitalization may make a big difference in customer satisfaction to affect the real market in passenger transport.

Effective utilization of the information had better be secured with an appropriate protection of sensitive information.

Entrepreneurial freedom is not only a prerequisite for digitalization but also the main benefit that digitalization will bring to the sector.

Thank you for your kind attention

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