

Business

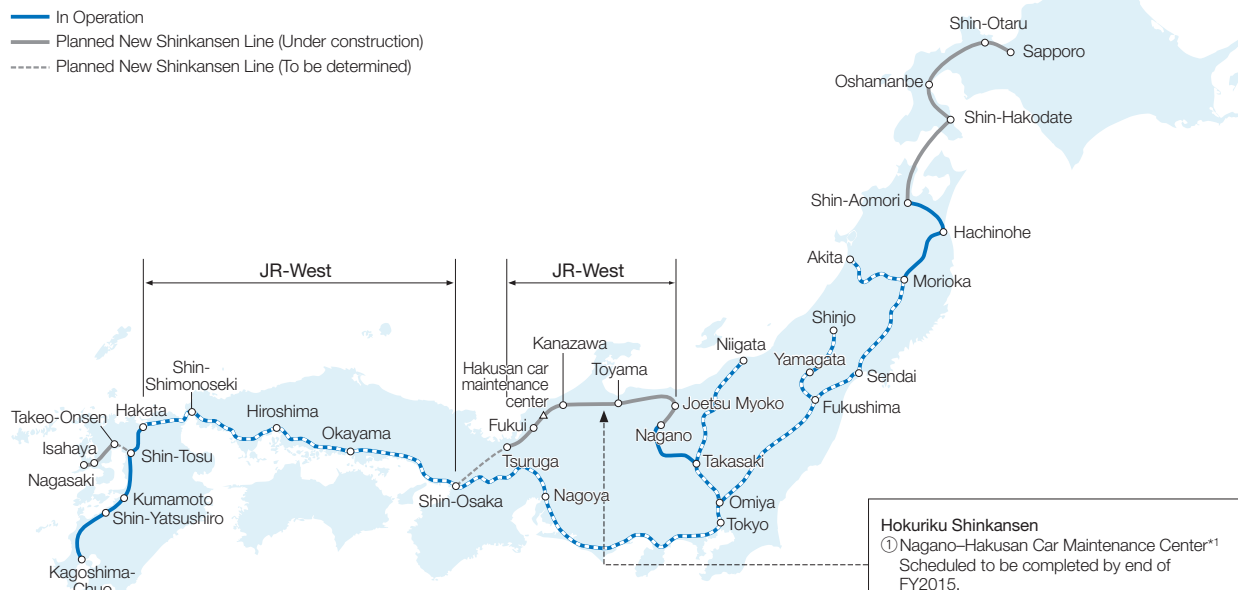
# Development of New Shinkansen Lines (Hokuriku Shinkansen Line)

## FIVE NEW SHINKANSEN LINES PROPOSED IN 1973 UNDER THE NATIONWIDE SHINKANSEN RAILWAY DEVELOPMENT LAW

Line	Lines in Operation	Approved Zone for Construction Implementation Plan	Expense Burden
Tohoku (Morioka–Aomori)	Morioka–Shin-Aomori (opened in December 2010, 178km)		<ul style="list-style-type: none"> <li>Central government (existing Shinkansen transfer revenues, public utilities expenses)</li> </ul>
Hokuriku (Tokyo–Osaka)	Takasaki–Nagano (opened in October 1997, 117km)	Nagano–Kanazawa (228km) Kanazawa–Tsuruga (125km)	<ul style="list-style-type: none"> <li>Local governments (one-half of the central government)</li> <li>JR (usage fees with the upper limit to be determined by the range of expected benefits)</li> </ul>
Hokkaido (Aomori–Sapporo)		Shin-Aomori–Shin-Hakodate (149km) Shin-Hakodate–Sapporo (211km)	
Kyushu (Fukuoka–Kagoshima)	Hakata–Kagoshima-Chuo (opened in March 2011, 289km)		
Kyushu (Fukuoka–Nagasaki)		Takeo-Onsen–Nagasaki (66km)	

## PLANNING OF NEW SHINKANSEN LINES (As of March 31, 2013)

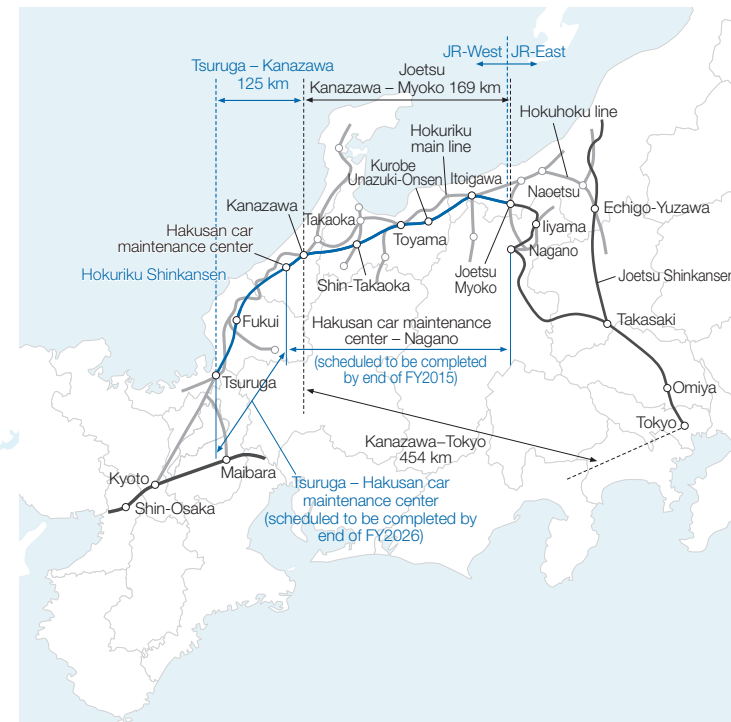
- In Operation
- Planned New Shinkansen Line (Under construction)
- - - Planned New Shinkansen Line (To be determined)



**Hokuriku Shinkansen**  
 ① Nagano–Hakusan Car Maintenance Center\*1  
 Scheduled to be completed by end of FY2015.  
 ② Hakusan Car Maintenance Center–Tsuruga  
 Scheduled to be completed by end of FY2026.

\*1 Hakusan car maintenance center is planned to be located from Kanazawa station to the west about 12 kilometers.

\*2 FY2015, etc., refer to the fiscal years ending March 2015, etc.



### Travel Time

	JR		Airlines*3	JR market share*4
	Present*1	After starting operations*2		
Kanazawa — Kanto region	About 3h 50m	About 2h 40m	About 2h 50m	38.8%
Toyama — Kanto region	About 3h 10m	About 2h 20m	About 2h 30m	59.7%

Notes

- Using the Joetsu Shinkansen and Hakutaka limited express train
- Average speed of 190km/h
- Includes airport access and egress time
- Source: Statistical survey of Ministry of Land, Infrastructure and Transport (FY2012/3)