

HSR Impacts and Station Area Development : Outline of Research

Jaehak OH

jhoh@koti.re.kr

Vice-president for Comprehensive Transport Research

Contents

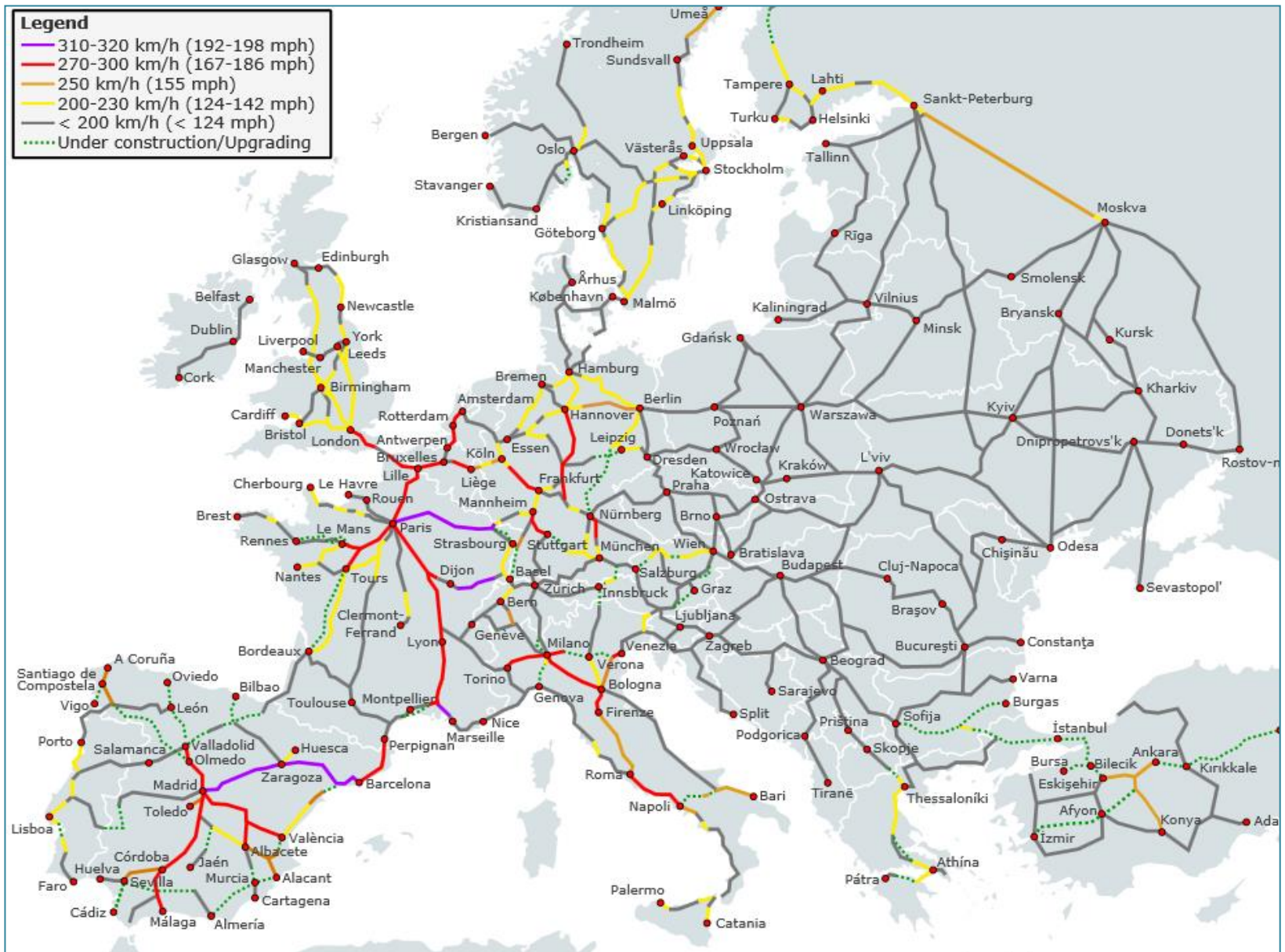
- I Research Background**
- II Major Contents of Research**
- III International Seminars and Publication**

I . Research Background

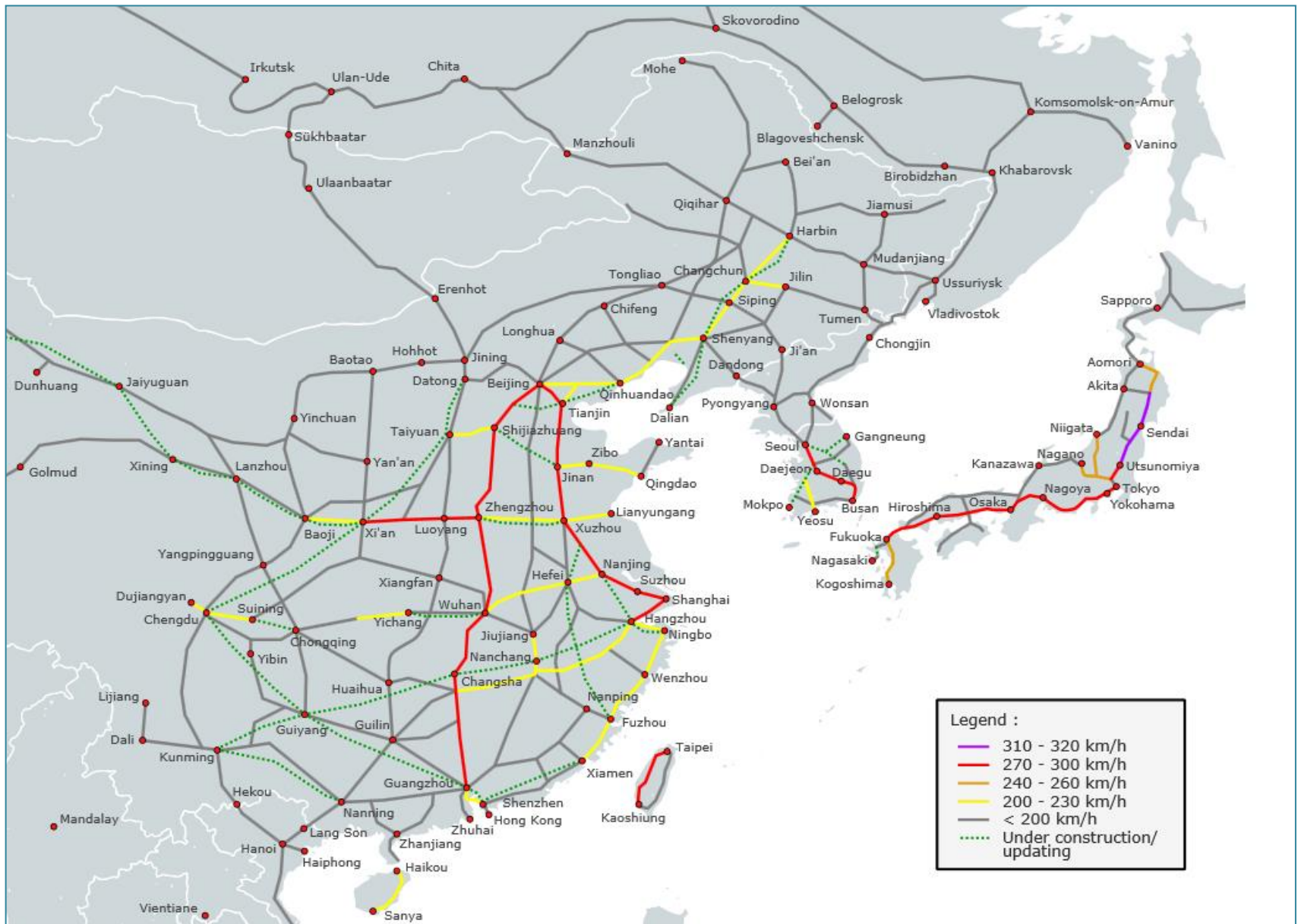
- **High Speed Rail (HSR)** has become worldwide and appears to be the **major intercity transport mode**.
- Countries in **Europe and East Asia** are leading this trend through extending HSR networks.

Country	Length (km)	Lines	Opening
Japan	2,663	10	1964
China	9,500	8	2007
Korea	938	4	2004
Taiwan	435	1	2007
France	1,895	8	1981
Germany	1,620	8	1991
Spain	1,768	4	1992
Italy	923	6	1977

Source: WIKIPEDIA



[Operational High-Speed Railway Lines in Europe] (Source: WIKIPEDIA)



[Operational High-Speed Railway Lines in East Asia] (Source: WIKIPEDIA)

Research Motivations

1. **Providing lessons and guidelines** for HSR investment in Asian countries
2. Only limited studies are available for **HSR impacts and station area development**
3. Neglecting the potential and importance of railway station **design and its area development**
4. Railway station and its area emerging **as a hub** for transport as well as urban development and regional economy

II. Major Research Contents

Project Title

- International Comparison on High-Speed Railway Impacts and Station Area Development – Japan, Taiwan and Korea

Research Members

- **Japan:** S. MORICHI (NGIPS), T. YAI (Tokyo Tech), S. TERABE (TUS),
M. SUZUKI (Tokyo Tech)
- Taiwan:** C. FENG (NCTU), A. HU (Bureau of HSR), J. LIN (NTU)
- Korea:** J. OH, J. LEE, J. CHOI, Y.J.KWON, Y. KIM (KOTI)

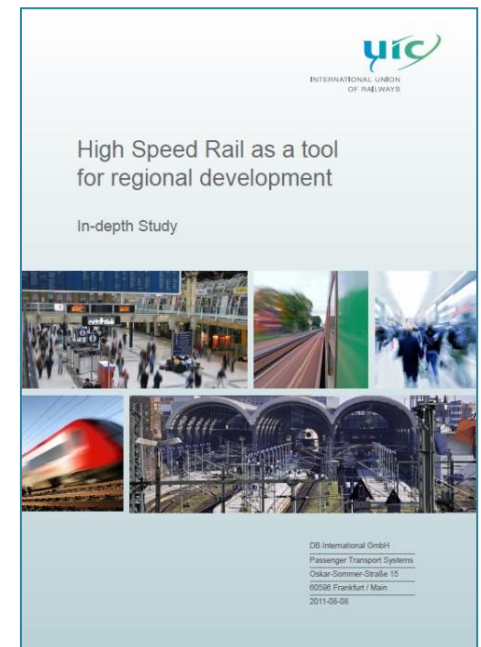
Purpose of the Research

1. To compare and analyze socio-economic **impacts** by HSR
2. To analyze current **conditions** of station area development, performance and policies for increasing HSR demand and activating regional economy
3. To draw policy **implications** for station area development of Asian countries

The research report consists of three parts:

- Part 1: Country Report
- Part 2: International Comparison and Suggestion
- Part 3: Recommendation and Future Research

Reference: UIC report (2011)



Part 1: Country Report

- Review of present conditions on HSR construction and operation
- Analysis of qualitative and quantitative impacts by HSR
- Review of station area development projects and policies

Part 2: International Comparison and Suggestion

- HSR planning, construction and operation
- Impacts by HSR
- Station area development projects and policies

Part 3: Recommendation and Future Research

- Policy recommendations
- Future researches

Ⅲ. International Seminars and Publication

- **KOTI – EASTS special session at the 10th EASTS conference**
September 9, 2013 (Taiwan)
- **KOTI – EASTS international seminar**
November 28, 2013 (Seoul)
- **KOTI – EASTS international symposium**
July 4, 2014 (Tokyo)
- **Publication of final report** at the 11th EASTS conference
September, 2015 (Cebu, Phillipines)

Thank You.