China Speed:  
*The High Speed Rail between Beijing and Tianjin*

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The Grand Opening

- Date: August 1st, 2008
- Distance: 120 Kilometers
- Stations:
  - Beijing South,
  - Yizhuang Satellite Town
  - Wuqing
  - Tianjin
- Travel Time: < 30 minutes
- Maximum Speed: 350 Kilometers per hour
- Fare Price: 69/58 RMB = 10/8 Dollars
  - Half of the travel time
  - Quarter more fare price
- Minimum Headway: 5 Minutes
Overview

- The First True HSR: CRH2/3
- Route Alignment
- Terminal and Station Areas
- Regional Impact
- Further Applications
Vehicle Technologies

• Made in China: CR H2/HC
• Based on Japanese Technology
• Design Speed: 300 Kilometers per hour
• Maximum Speed: 370 kilometers per hour
Operating in a skip stop pattern. A train only stops at one intermediate station.
Beijing Railway South Terminal
Beijing Terminal

- The Largest Train Station in Asia
- Area: 220,000 Sq Meters
- Expected Life Span: 100 Years
- Capacity: >10,000 Passengers
- Seamless Transfers to other modes
- To be Connected with Subways
  - No. 4 and
  - No. 14
Yi Zhuang Station

- New Satellite Town of Beijing
- Special Economic and Technology Zone
- 23 Kilometers from Beijing
- Connected to the LRT System
- Seamless Transfer
Yongle Station

- Historical Town
- Nature Resources
- Tourist Destination
Wu Qing Station

- Gateway to Tianjin
- University town
- Planned Developed
- Transit Oriented Development
- Tourist Destination
Tianjin Terminal

- Important Port City
- One of the Four Provincial Level Cities
- Established in 1888 - 120 years
- Main Hub for Guideway Transit
- Located in the Central City of Tianjin
Mode Comparison

- Driving
- D Train
- CRH
Regional Impact

- Catalyst for Pan Bo Gulf Development
- Establish the JT Metro Area
- Connect the Two Largest Cities in North China with More Than 30 Million People
Implications for the HSR Development

- A True HSR in China
- Much Improved Connections
- Relieve Pressure on Beijing
- Stimulate the Development of Tianjin
- Demo for other HSR Projects
Further Applications

• Beijing – Shanghai: 4 hours
• Beijing to Guangzhou: 9 hours
• Faster than 200 kilometers per hour (16 Routes)
  – Wuhan- Guangzhou
  – Zhengzhou – Xian
  – Shijiazhuang – Taiyuan
  – Wenzhou – Fuzhou
  – Guangzhou-Shenzhen- Hong Kong
2020年高速铁路网
New Proposed HSR