Planning and Development of High-Speed Rail Network in China

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Contents

Ⅰ. Significance of High-Speed Rail Network
Ⅱ. Planning of High-Speed Rail Network
Ⅲ. Implementation of the Plan
I . Significance of High-Speed Rail Network

1. To relieve transport bottleneck and meet demand of economic development

---- Capacity shortage in main transport corridors.

to release existing railway freight capacity by the separation of passenger and freight.

---- Average annual growth of GDP reached 10% from 1978 to 2011.

to provide safe, fast and comfortable railway services, and improve the quality of economic and social development.
I. Significance of High-Speed Rail Network

2. To promote balanced development among different regions and fit for urbanization

---- facilitating flows of people and goods between eastern and western areas

---- promoting transfer of industries from coastal areas to middle and western areas.
I. Significance of High-Speed Rail Network

3. to develop a sustainable transport system

---- energy saving

---- land saving

---- environmental protection
II. Planning of High-Speed Rail Network


---- “Railway 12th Five-Year Development Plan (2011-2015)” , July 2011

---- “National Rapid Railway Network Plan” mainly fulfilled by 2015
Medium- and long-term railway network plan (revised in 2008)

Legend
- Existing railway
- Passenger railway in planning
- Railway in planning
- Railway in planning and study
- Electrified railway in planning
- Capacity expanded railway in planning

National Rapid Railway Network Plan

Legend
- Constructed fast-speed railway
- Fast-speed railway in construction or to be constructed
- Fast-speed railway in planning and study
III. Implementation of the Plan

• Approach of Investment and Financing

---- Led by the Government, diversified investment and market-oriented operation. 180 Joint Ventures set up.

---- 1.98 trillion RMB of infrastructure Investment during the 11th Five-year plan (2006-2010), which over 20% from local governments and other business enterprises.

---- Over 400 billion RMB of infrastructure investment in 2012 expected.
National rapid railway network plan

Legend
- Constructed fast-speed railway
- Fast-speed railway in construction or to be constructed
- Fast-speed railway in planning and study
III. Implementation of the Plan

• **By the end of 2011,**

---- Operational length of railways 93,000km
---- Passenger turnover 961 billion passenger km / year
---- Freight turnover 2913 billion ton km / year
---- Double-track rate: 42.4%
---- Electrification rate: 49.4%
---- HSR in operation: 6600 km
---- HSR under construction: about 10,000 km
Conclusion

- **HSR Network is the right choice for railway to meet the needs of China’s economic and social development.**

- **It is the important period of HSR network construction in China. Chinese Government will orderly carry forward HSR network Plan.**

- **China Railways will continue to accumulate experience in HSR’s construction, operation and technology innovation, and exert oneself to promote HSR development in the world.**
Thank you for your kind attention

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