High Speed Railway in China (7)



Xing Zeng Oct 6, 2017

Disclaimers

- I am a citizen of China (PRC)
- Neither me, nor any member of my family, are in any way affiliated with any governmental agencies or corporations that had been participated in the planning, construction, operation, or maintenance of the high speed railways in China
- With regardless of one's political belief about the current cross-strait relations, Taiwan High Speed Railway is a totally separate system managed by a different entity with incompatible electrical system. It will not be treated as a member of high speed railways in China.

Vehicles

Vehicles (First Generation ~2006)

CRH1A - 200kph



Vehicles (First Generation ~2006)

CRH2A - 200kph



Vehicles (Second Generation ~2008)

CRH2C - 300kph



Vehicles (Second Generation ~2008)

Velaro CN / CRH3C - 350kph (In Design) 300kph (In Practice)



Vehicles (Third Generation ~2010)

Velaro CN / CRH380B - 350kph (In Design) 300kph (In Practice)



Vehicles (Third Generation ~2010)

CRH380A - 350kph (In Design) 300kph (In Practice)



Vehicles (Third Generation ~2010)

Zefiro 380 / CRH380D - 350kph (In Design) 300kph (In Practice)



Vehicles (Fourth Generation ~2016)

China Standardized EMU / CR400AF & CR400BF - 350kph

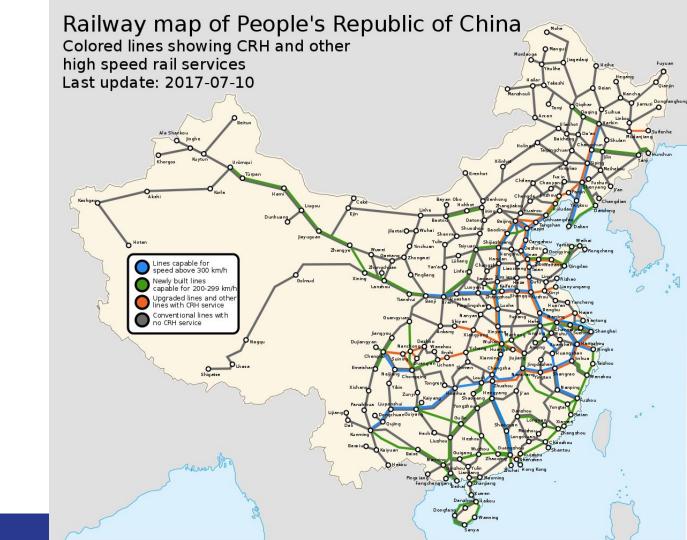


Timeline of the fastest operation speed

1964-Oct	210kph	0 Series	Tokaido Shinkansen	
1981-Sep	260kph	TGV Sud-Est	LGV Sud-Est	
1983-Sep	270kph	TGV Sud-Est	LGV Sud-Est	
1989-Sep	300kph	TGV Atlantique	LGV Atlantique	
1997-March	300kph	500 Series	Sanyo Shinkansen	
2002-August	300kph	ICE3	Koln-Frankfurt HSR	
2004-April	300kph	KTX-I	Gyeongbu HSR	
2007-Jan	300kph	THSR 700T	Taiwan HSR	

Timeline of the fastest operation speed

2007-June	320kph	TGV POS	LGV Est
2008-August	350kph	CRH3C	Beijing-Tianjin IC
2011-August	320kph	TGV POS	LGV Est
2013-March	320kph	E5 Series	Tohoku Shinkansen
2017-Sep	350kph	CR400AF/CR400BF	Beijing-Shanghai HSR
TBA	360kph	Zefiro 300	Torino-Milano HSR



Beijing
My Hometown! ^_^
Capital
2nd Largest City in China
HQ Baidu

Beijing-Guangzhou-Shenzhen-Hong Kong

Zhengzhou Part of iPhone X is manufactured here

Top Operational Speed: 300kph

Wuhan 6th Largest City in China

Distance: 2230km

Changsha HQ NUDT

≈ Distance Between Vancouver and Minneapolis

Guangzhou
4th Largest City in China
Birthplace of Wechat

≈ Total Length of French LGV Line

Shenzhen
5th Largest City in China
HQ Tencent

Hong Kong_ "Asia's World City"



Beijing
My Hometown! ^_^
Capital
2nd Largest City in China
HQ Baidu

Beijing-Shanghai

Top Operational Speed: 350kph

Distance: 1302km

Tianjin 3rd Largest City in China

Shanghai Largest City in China 7th Largest Urban area in the world HQ Shanghai Stock Exchange

AND

Hangzhou __ HQ Alibaba

Xiamen

Coastal Passageway

Top Operational Speed: 300kph (near Shanghai) 200kph (Rest)

Rest) Shenzhen

4th Largest City in China

Distance: 1609km

HQ Tencent

Major Air Hub



Shanghai
Largest City in China
7th Largest Urban area in the world
HQ Shanghai Stock Exchange

Zhengzhou
Part of iPhone X is manufactured here

Xuzhou-Lanzhou

Top Operational Speed:

300kph(Rest)

200kph(Near Lanzhou)

Distance: 1363km

Xi'an Main Historical City

Luoyang Another Main Historical City



Wuhan 6th Largest City in China

Shanghai
Largest City in China
7th Largest Urban area in the world
HQ Shanghai Stock Exchange

Shanghai-Wuhan-Chengdu

Top Operational Speed:

300kph(Near Shanghai & Chengdu)

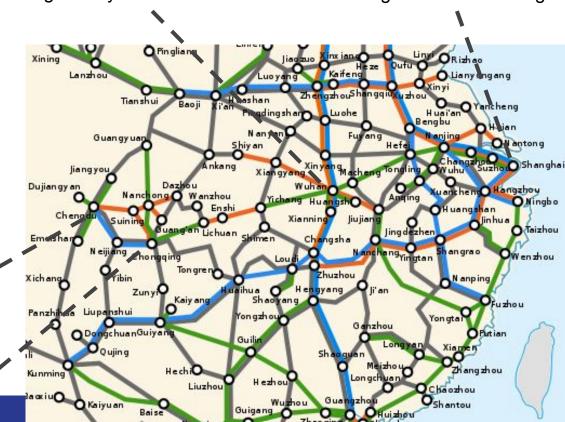
200kph(Rest)

160kph(Near Enshi)

Distance: 2078km

Chengdu 8th Largest City in China Major Technology Center in Western China Gateway to Tibet

Chongqing 9th Largest City in China



Shanghai-Kunming

Top Operational Speed:

300kph

Distance: 2066km

Guiyang Major Aerospace Center in China

Kunming Major Tourist Center in China



Operation

Operation

		Total Debit (In Billions of USD) (Lower the better)	Debt To Asset (Lower the Better)	Debt Coverage Ratio (Higher the Better)
\bigcirc	China Railway Corporation	710	0.65	0.46
DB	Deutsche Bahn AG	21	0.31	1.09
JR JR東海	JR Central	26	0.55	2.47







End