



清華大學
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THE CURRENT AND FUTURE DEVELOPMENT OF LOGISTICS HUB IN CHINA

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Presentation Objective

- ◆ Introduce the state and planning of comprehensive transportation channels and hubs in China



References

◇ 统计年鉴

- 国家统计局：中国统计年鉴2008

◇ 规划文件

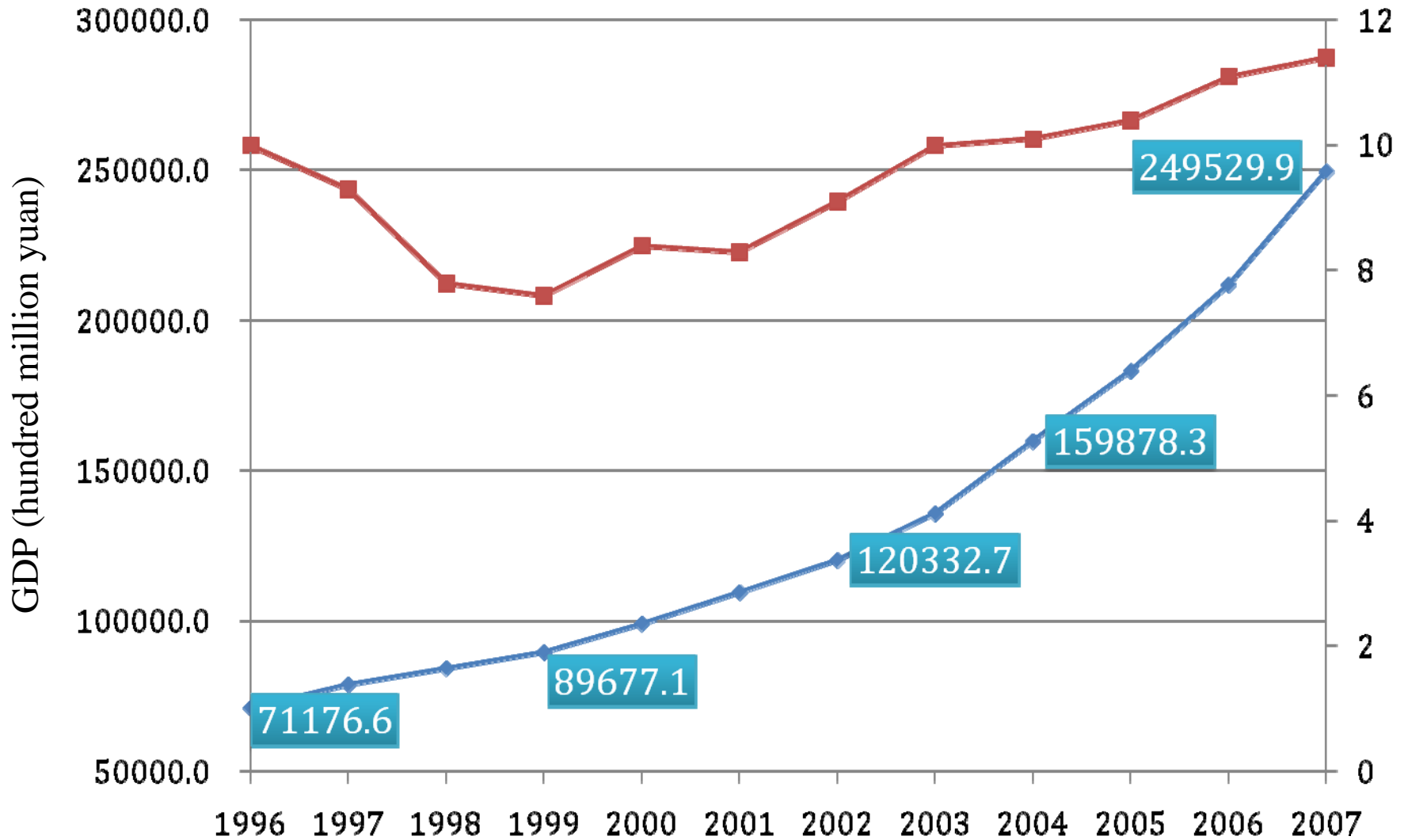
- 国家发改委：综合交通网中长期发展规划，2007.
- 交通运输部：公路水路交通“十一五”发展规划，2006.
- 交通运输部：国家公路运输枢纽布局规划，2007.
- 国家发改委：中长期铁路网规划，2004.
- 国家发改委和交通部：全国沿海港口布局规划，2006.
- 国家民航总局：全国民用机场布局规划，2008.

Outline

- ◆ Summary of the State of Transportation Network and Freight Transportation
- ◆ Comprehensive Major Transportation Channels and Transportation Hubs
- ◆ Main Coastal Port Layout
- ◆ Civil Airport Layout

Summary of the State of Transportation Network and Freight Transportation

National Economic Development



State of Transportation Network and Freight Volume (2007)

	Network	Freight Volume
Railway	Mileage: 78,000 km	Freight volume: 3142.37 million ton Freight turnover: 2379.7 billion ton-km
Highway	Mileage: 3584,000 km including, freeway: 53,900 km	Freight volume : 16.4 billion ton Freight turnover : 1135.5 billion ton-km
Civil Aviation	The amount of airport: 148 Route mileage: 2,343,000 km	Freight volume : 4.019 million ton Freight turnover : 11.64 billion ton-km
Coastal Port	Port whose throughput is over a hundred million ton : 14 Berth above 100,000 ton: 110	Cargo throughput: 3882.00 million ton Container: 105 million TEU

Comprehensive Major Transportation Channels and Transportation Hubs

National Planning of Transportation Network

- ◆ Short-term(2010) and long-term(2020) planning to define scale and structure of channels and hubs of comprehensive transportation (railway, highway, water transportation, civil aviation, pipeline).

- ◆ Main composition
 - Comprehensive transportation channels: five vertical and five transverse channels
 - National comprehensive transportation hubs: 42
 - Inland container hubs: 18

Network Scale (State, Short-term and Long-term goal)

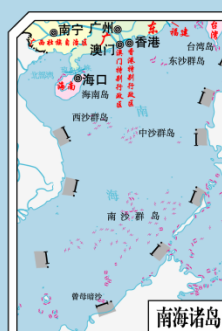
	2007	2010	2020
Railway	78,000 km	90,000 km	More than 120,000 km
Highway	1,930,000 km* (2005)	2,300,000 km	More than 3,000,000 km
Civil airport	148	192	244
Coastal 10,000 dwt deepwater berth	1113	1750	-----
Coastal port handling capacity	3.88 billion ton	4.5 billion ton	6.5 billion ton
Coastal port container handling capacity	105 million TEU	136 million TEU	240 million TEU

*: Unpaved rural roads are not included

Transportation Channels (Five vertical line)



- 图 例**
- ★ 首都
 - ◎ 省级行政中心
 - ⊙ 地级市行政中心
 - ⊙ 州、盟、地区行政中心
 - ⊙ 县级行政中心
 - 其他居民点
 - 未定
 - 国界及未定国界
 - 省界
 - 特别行政区界



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Transportation Channels (Five transverse line)



图例

- ★ 首都
- ◎ 省级行政中心
- 地级市行政中心
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Comprehensive Transportation Hubs (42)

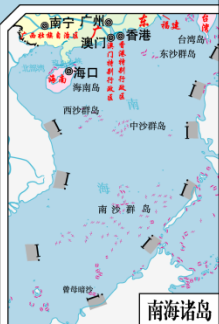


图例

- ★ 首都
- ◎ 省级行政中心
- ⊙ 地级市行政中心
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- ⊙ 县级行政中心
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Railway Container Hubs (18)



Main Coastal Port Layout

Summary of Coastal Ports in China



Port Group	Five regional port groups: Regions of the Bohai, Yangtze River Delta, Pearl River Delta, Southeast coast, Southwest coast
Operation Capacity (2010)	Container: 136million TEU Coal loading/unloading : 580million/455million ton Liquefied natural gas: 18,30million ton Oil: 280million ton Ore: 325million ton

Comprehensive Large-scale Hub Ports

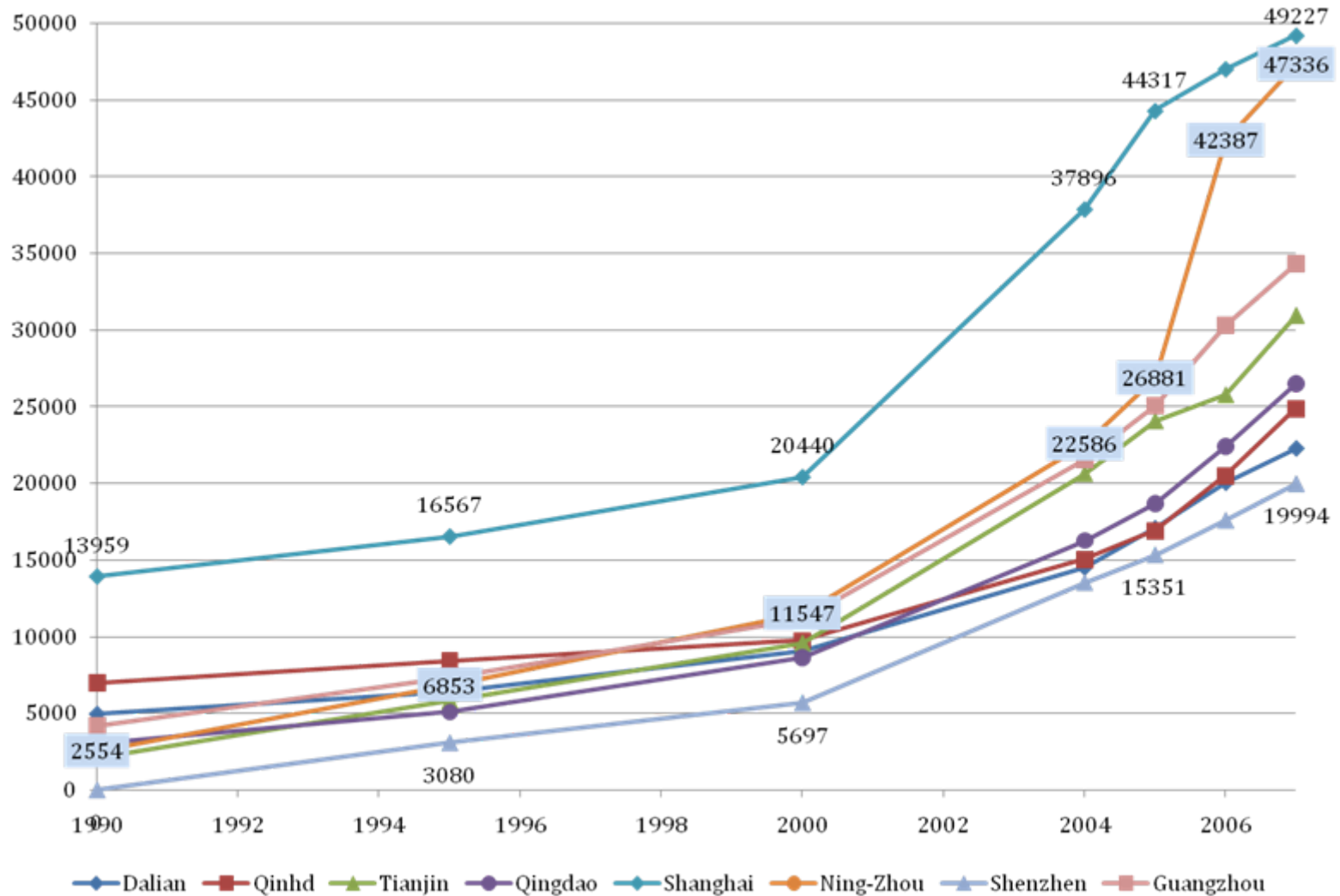


Throughput of main ports
unit: million ton

	Throughput
Shanghai	492
Ningbo-Zhoushan	473
Guangzhou	343
Tianjin	309
Qingdao	265
Qinhuangdao	249
Dalian	223
Shenzhen	200

Development on freight throughput of large-scale ports (1990-2007)

Unit: 10,000 ton



Container Ports



Main container ports and its world ranking

Unit: million TEU

	2007	Rank
Shanghai	26.15	2
Shenzhen	21.10	4
Qingdao	9.46	10
Ningbo-Zhoushan	9.36	11
Guangzhou	9.20	12
Tianjin	7.10	17
Xiamen	4.63	22
Dalian	3.81	26

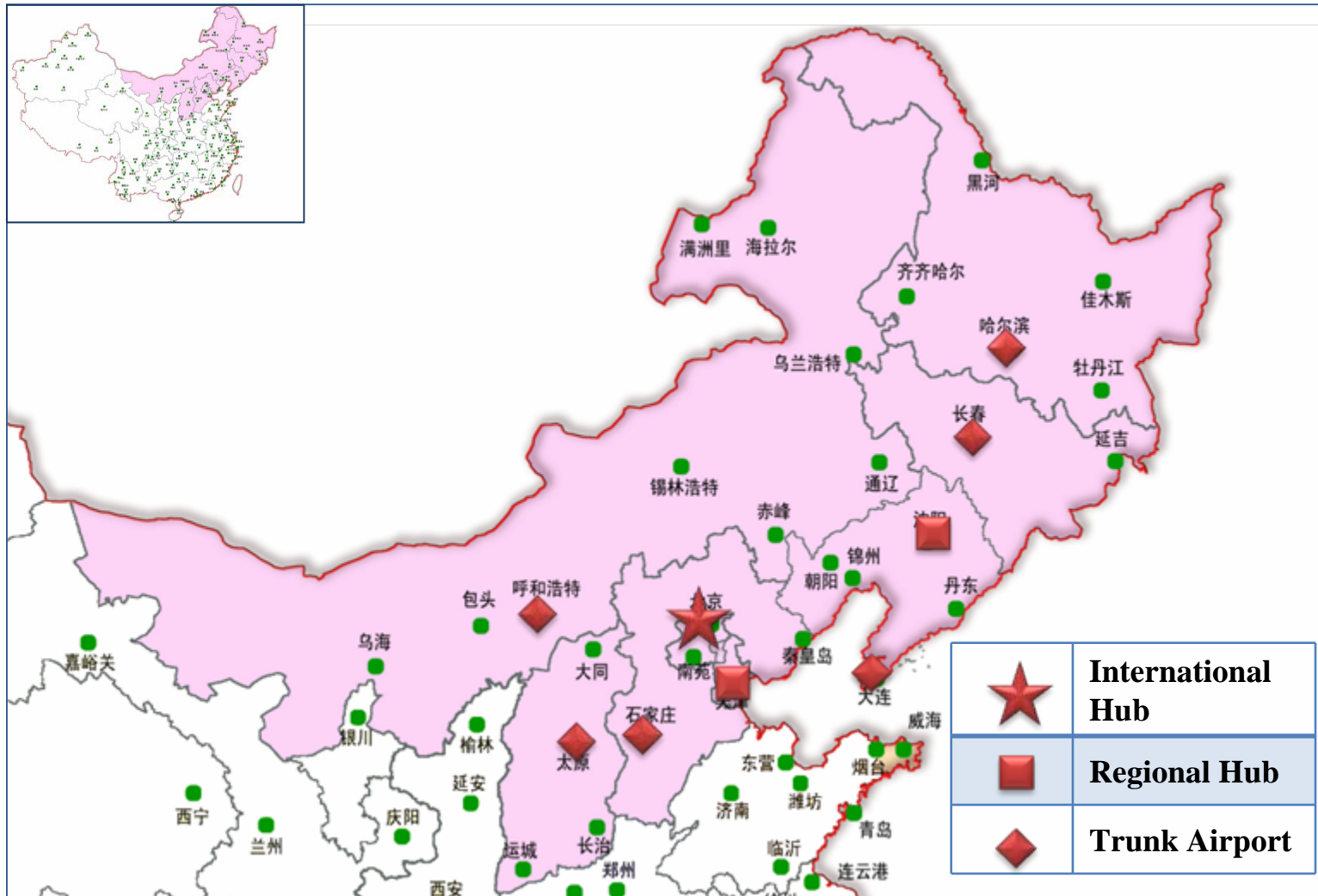
Civil Airport Layout in China (Planning)

Three Hub Airports

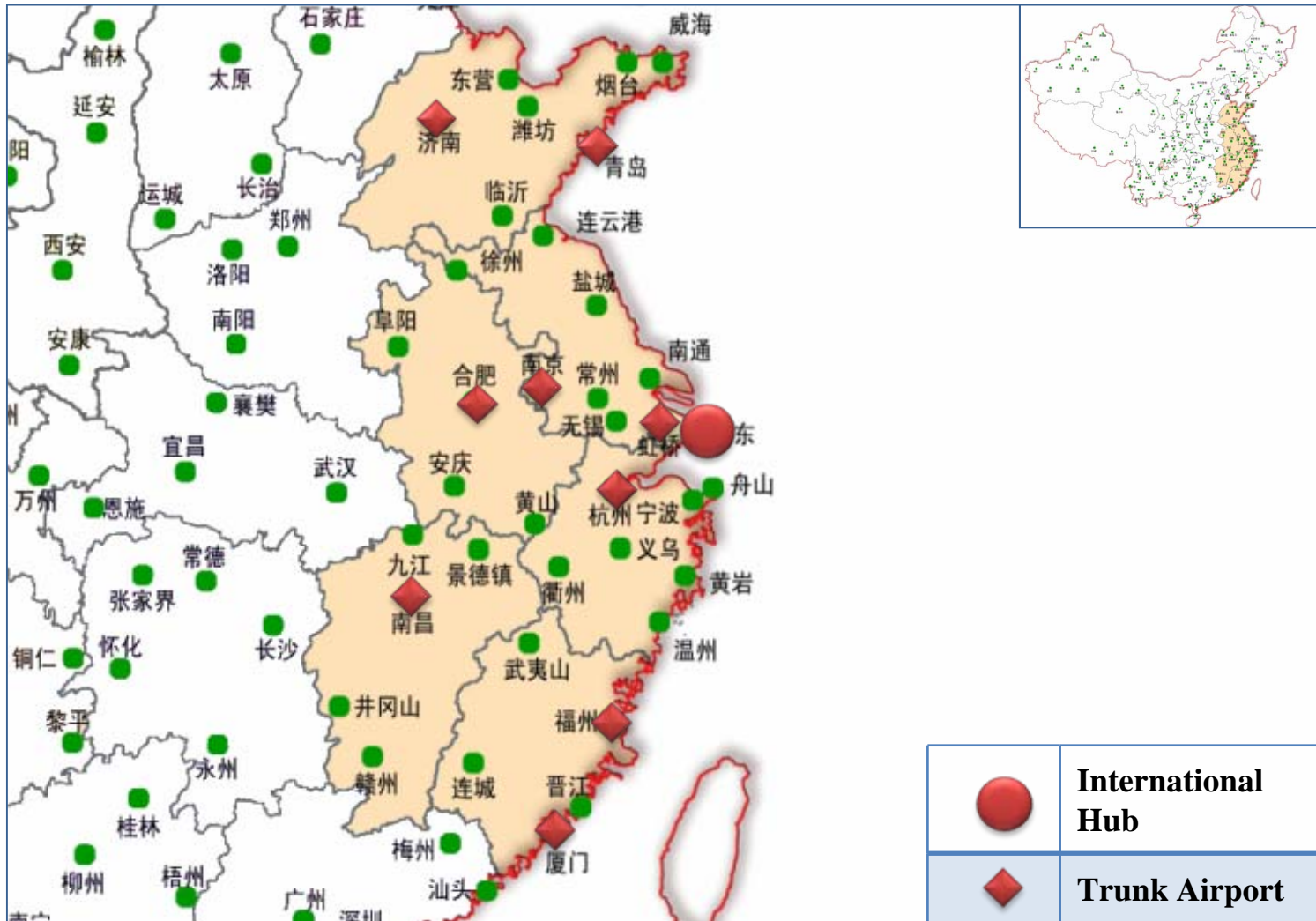


Civil Airport	148 (2007) 190 (2010)
Airport Group	North、East China、 Central South、 Southwest、Northwest
Freight and Post Throughput of Three Hub Airport	Beijing: 1.42 million ton Pudong: 2.56 million ton Guangzhou: 695,092.7 ton

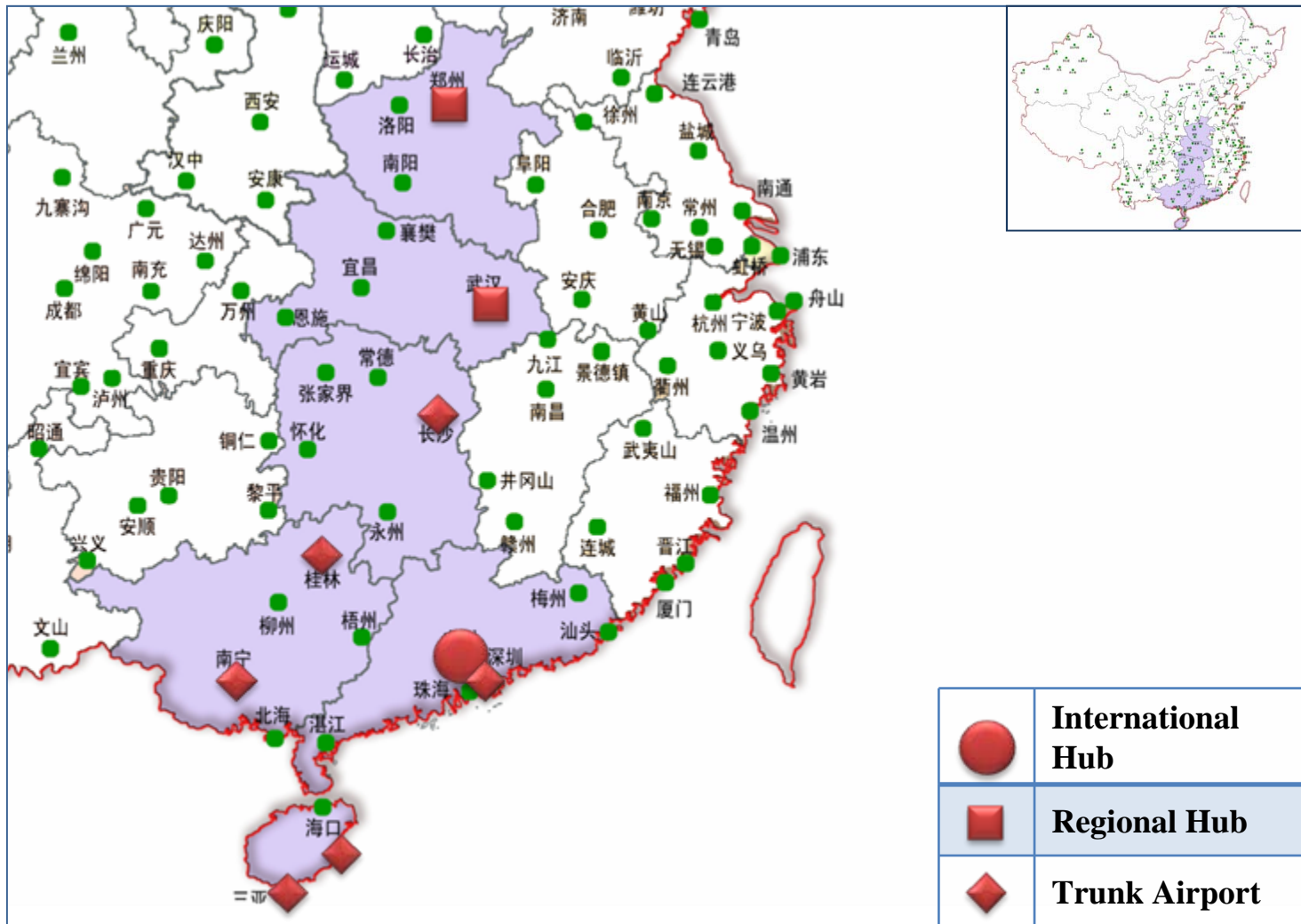
Northern Airport Group



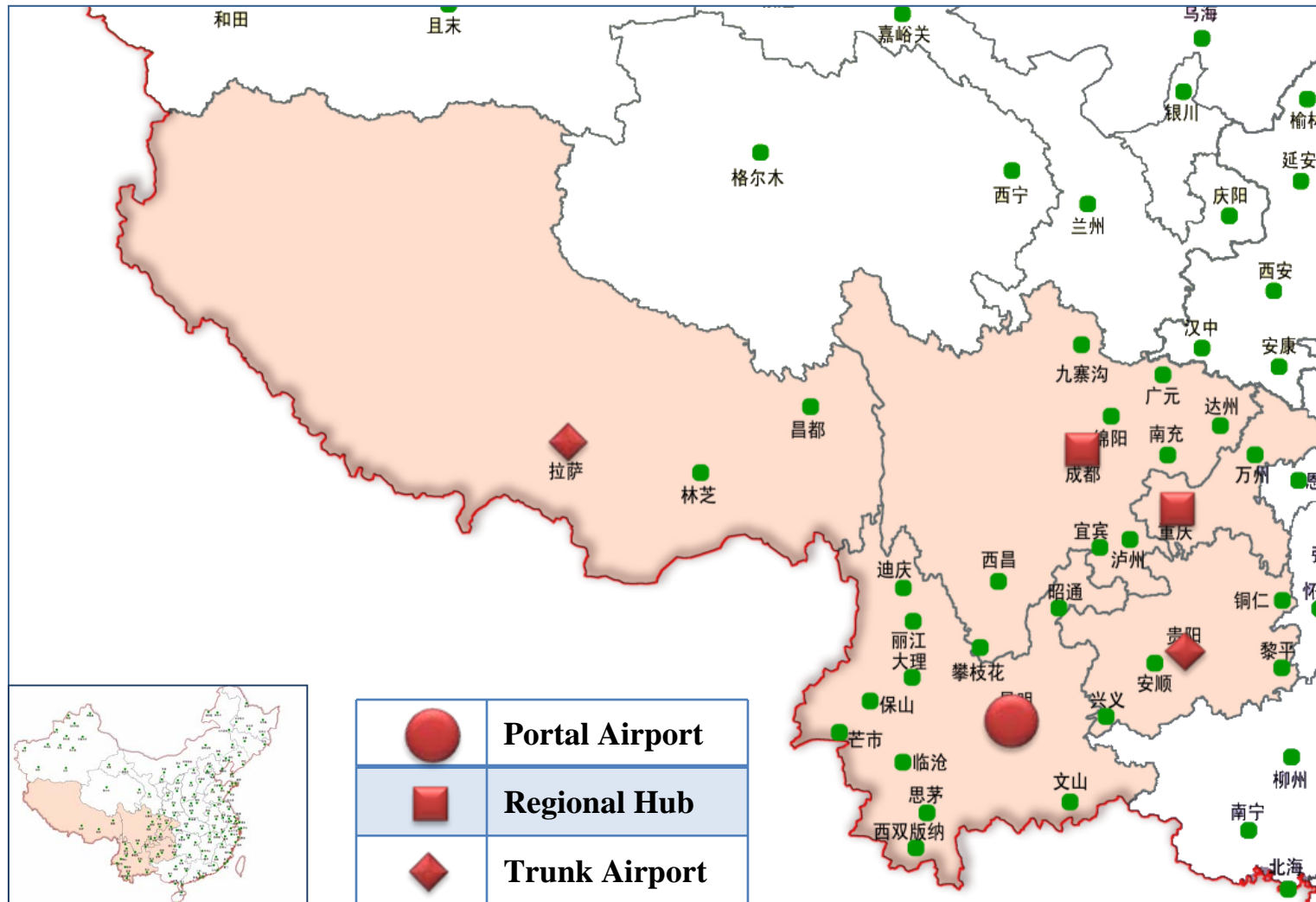
East China Airport Group



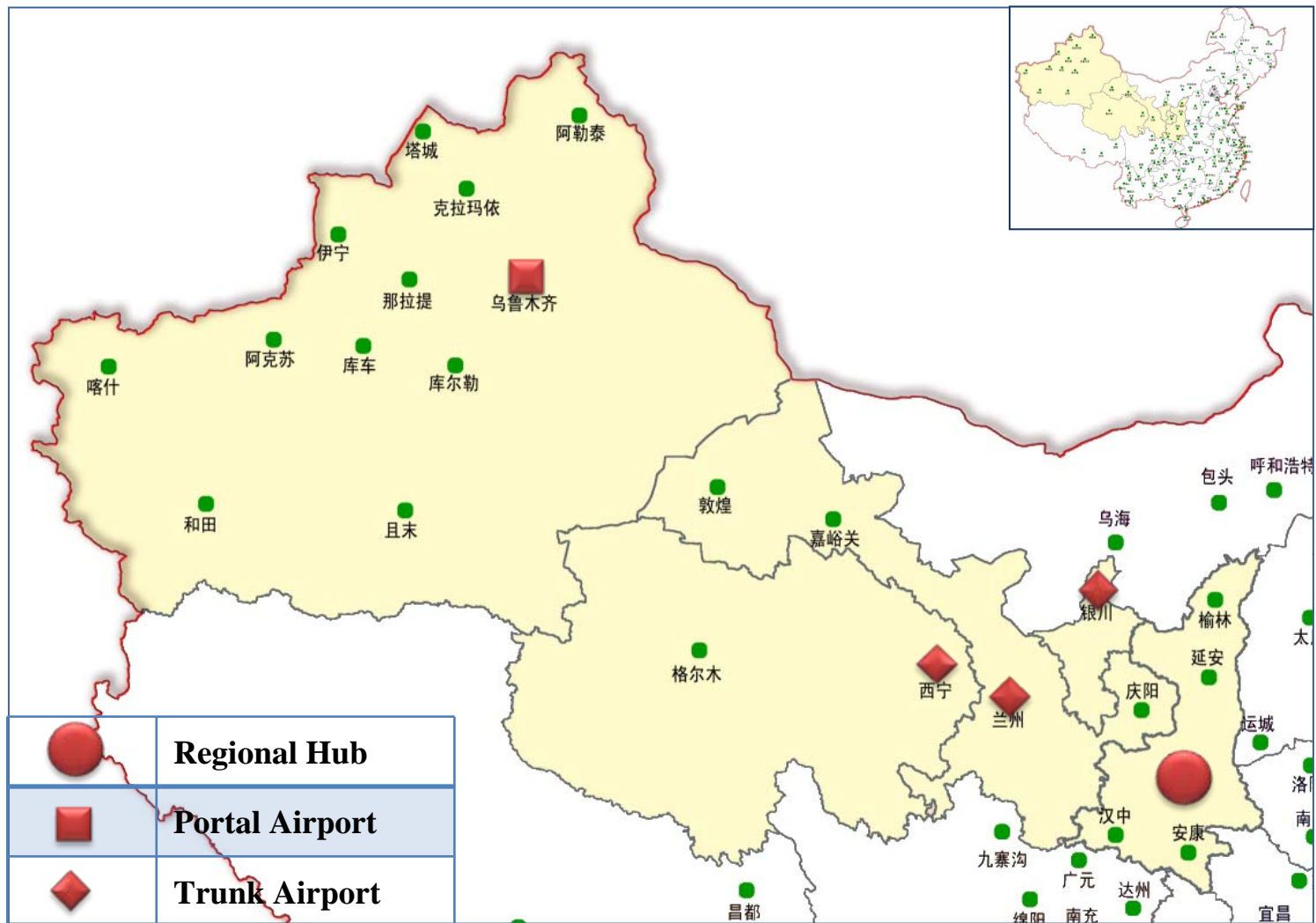
Central South Airport Group



South West Airport Group



North West Airport Group



Thank you !