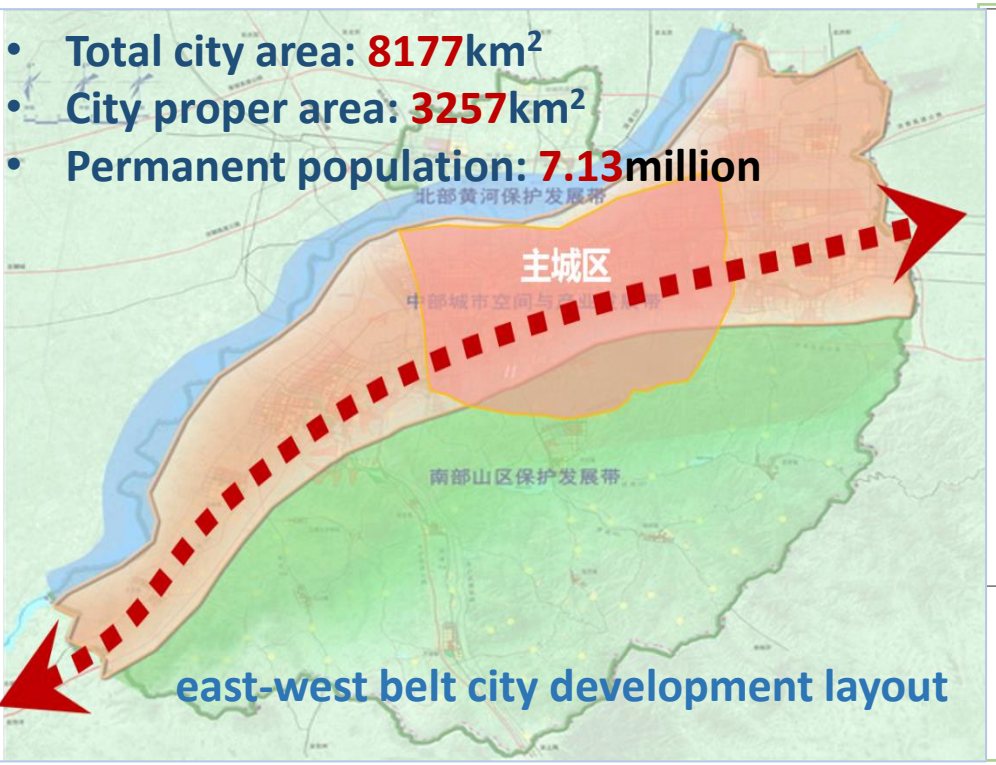
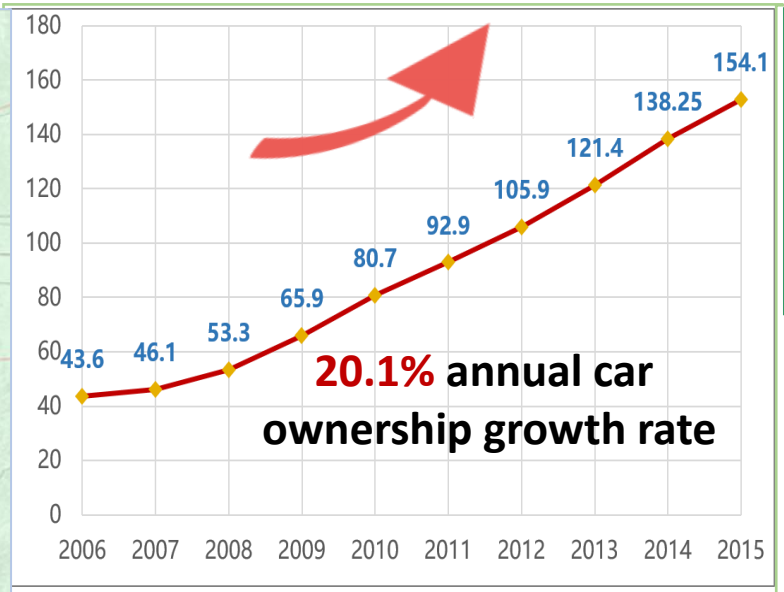
Construction and Exploration of Medium-capacity Transit System in Jinan, China

1. Background of BRT construction



- Total city area: 8177km^2
- City proper area: 3257km^2
- Permanent population: 7.13million

east-west belt city development layout



Congestion and haze become bottleneck for the city's sustainable development

15% PM2.5 is from car emission

Cooperative city of China BRT Promotion Demonstration Project

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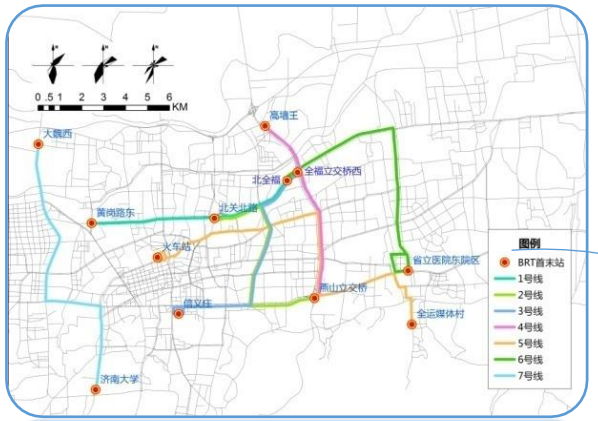
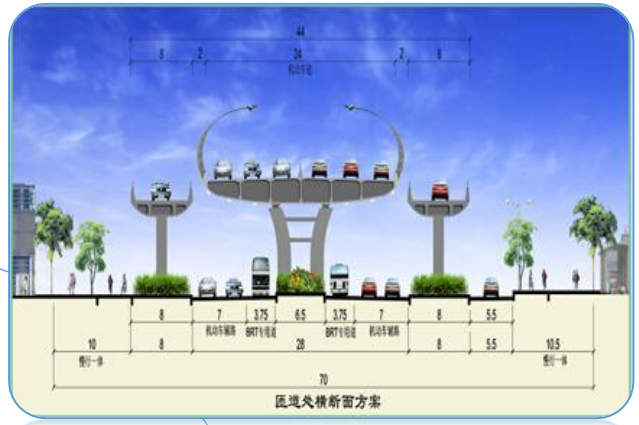
2. Features of Jinan BRT



forming network rapidly



"dual fast" system

"closed +open" operation

free transfer at stations

double sided door vehicle

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3. Experiences and shortcomings

Experience 1

Higher service level and higher user satisfaction degree win appraises from multi-party

Experience 2

Network operation with more compatibility optimizes transit operation structure

Experience 3

Push travel mode toward green, good result in emission-reduction

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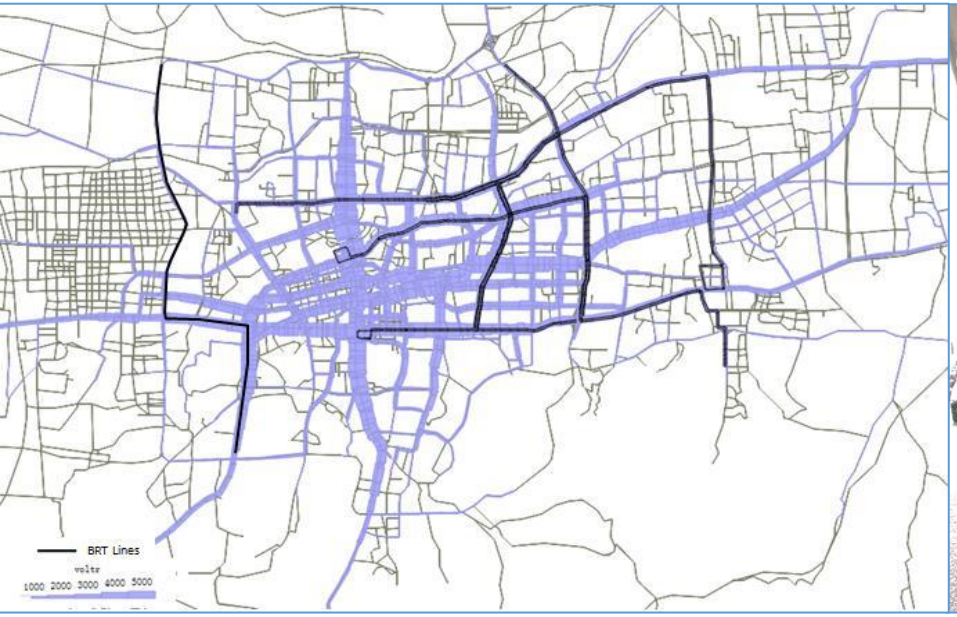
Shortcoming 1：limited capacity

- No BRT in some main corridors
- Limited BRT station capacity
- few overtake lanes in separated BRT lanes

Shortcoming 2：needs improvements in environment protection

- The existing system uses diesel buses
- Need to attract more users



goal：strive to develop modern trolleybus, build green transit system

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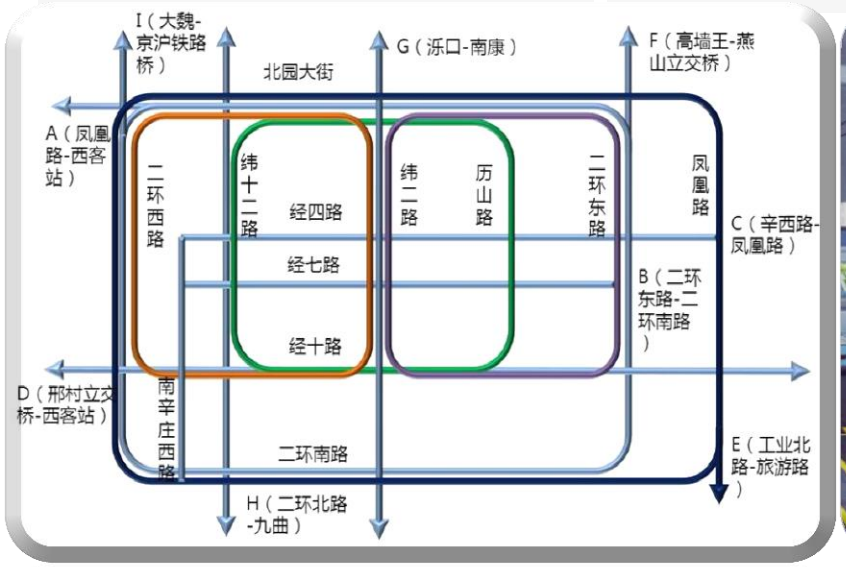
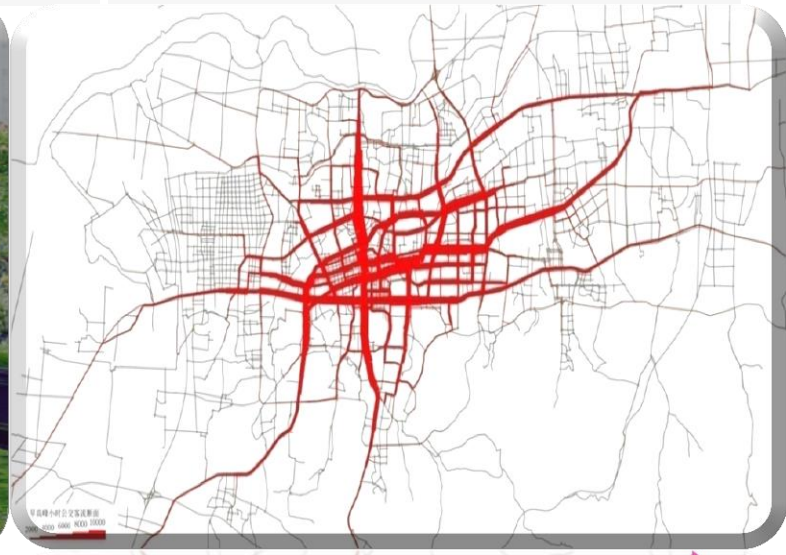
4. Build modern trolleybus BRT system

Environment	Economy	Technology	Basic condition
Zero emission, low noise	Low investment and cost , quick return	Low fault rate, flexible, easy to be connected	40 years experience in operation and maintenance





Total route network length 201.4km, total route length 325.5km, 1361 buses

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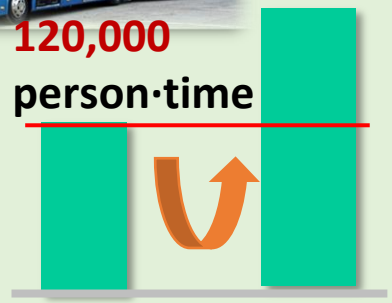
5. expected results and project progress

social benefits

7% car users shift to trolleybus

1.58 million person·time

120,000 person·time



Great growth in ridership

economic benefits

130 million RMB energy consumption will be saved yearly

environment benefits

160,000 tons fuel consumption reduction

24,000 tons carbon emission reduction

The city has formed a steering committee for **Shandong Spring City Green Modern Trolley Bus Demonstration Project financed by the ADB**. A kick-off meeting was held in this April, meaning launch of the project. The system is planned to be put into operation by 2020.

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