

Kingdom of Morocco

Ministry of
Equipment and Water



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وزارة التجهيز والماء
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الجمعية المغربية الدائمة لمؤتمرات الطرق
L'Association Marocaine Permanente des Congrès de la Route
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New forms of urban public transport in China - Case analysis of on-demand bus service

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Analysis of the development of demand-responsive bus services in China

- Overall definition of on-demand bus service

Service Area: **Urban and Suburbs**

Operating Entity: **Traditional bus operator permitted by local government**

Route planning basis: **Integrate similar travel needs**

Passengers: **Non-exclusive**



Analysis of the development of demand-responsive bus services in China

- Overall definition of on-demand bus service

	Regular bus service	Shuttle bus for certain enterprise	On-demand bus service
Route	Fixed	Fixed	Flexible
Bus stop	Fixed	Fixed	Flexible
Departure interval	Planned or fixed	Flexible	Flexible
Fare	Regulated by government	Market pricing	Market pricing
Reserve in advance	no	yes	yes



Analysis of the development of demand-responsive bus services in China

■ National policy review



Policies:

Encourage the bus operators to provide diversified services such as on-demand bus services

Standards:

Define services specifications of urban demand responsive transit

Encourage development at national and provincial level

No mandatory requirement and specific fundings

Service modes and development scales are different

between cities.

National Policies and Standards

Analysis of the development of demand-responsive bus services in China

■ Development Scale

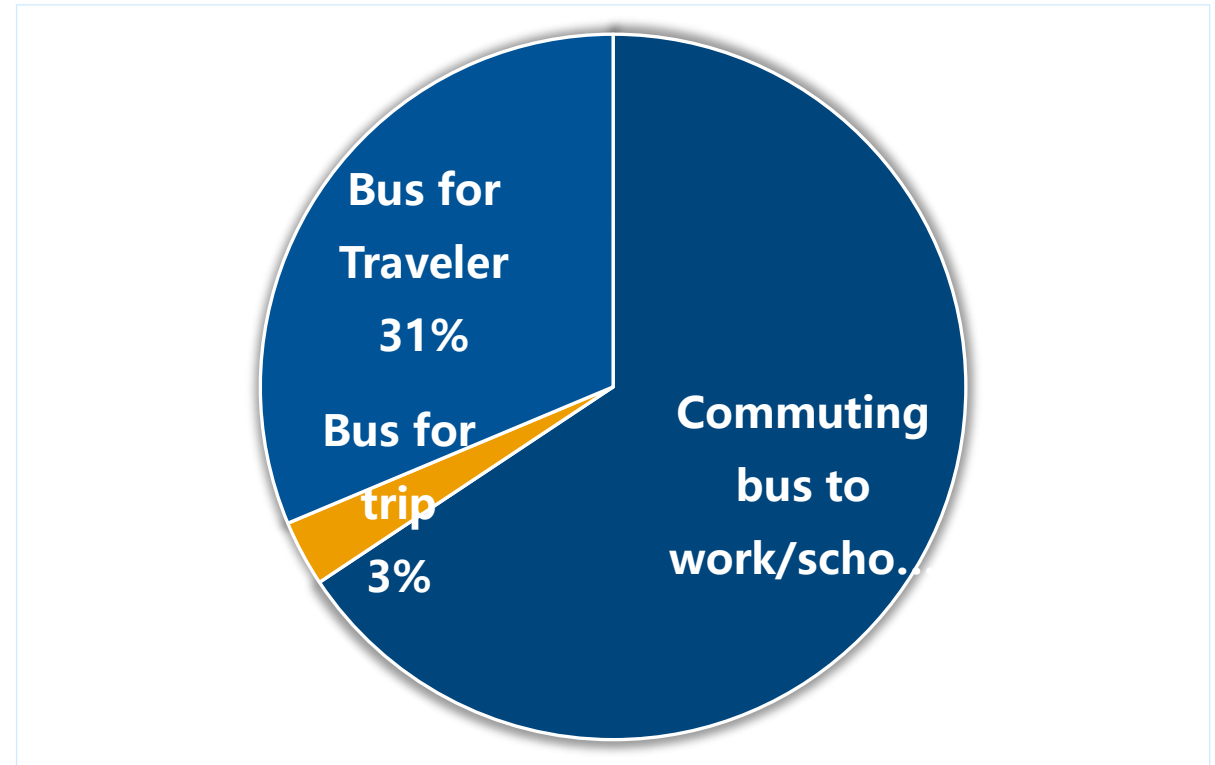
Among 36 major cities

- ✓ more than 6000 lines
- ✓ more than 8000 vehicles
- ✓ Annual passengers over 200 million

Beijing

2019-1.7million passengers

2024-20million passengers



Analysis of the development of demand-responsive bus services in China

■ Development Scale

Advantages of **traditional bus operator** running on-demand services

a. Convenience of using current parking area and bus vehicles

b. Spare vehicles due to transit network optimization

Price

mostly **marketing price**

5¥~10¥(0.7\$~1.4\$)/trip

Vehicle purchase allowance

Operating allowance varies from city to city

Case studies of demand-responsive bus services in Beijing and Hangzhou

■ Beijing

Begin in 2013 (24 lines)

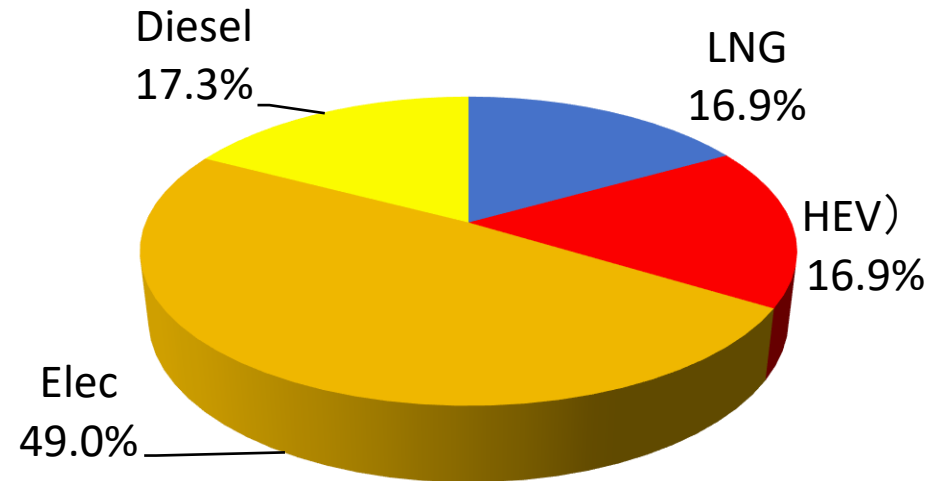
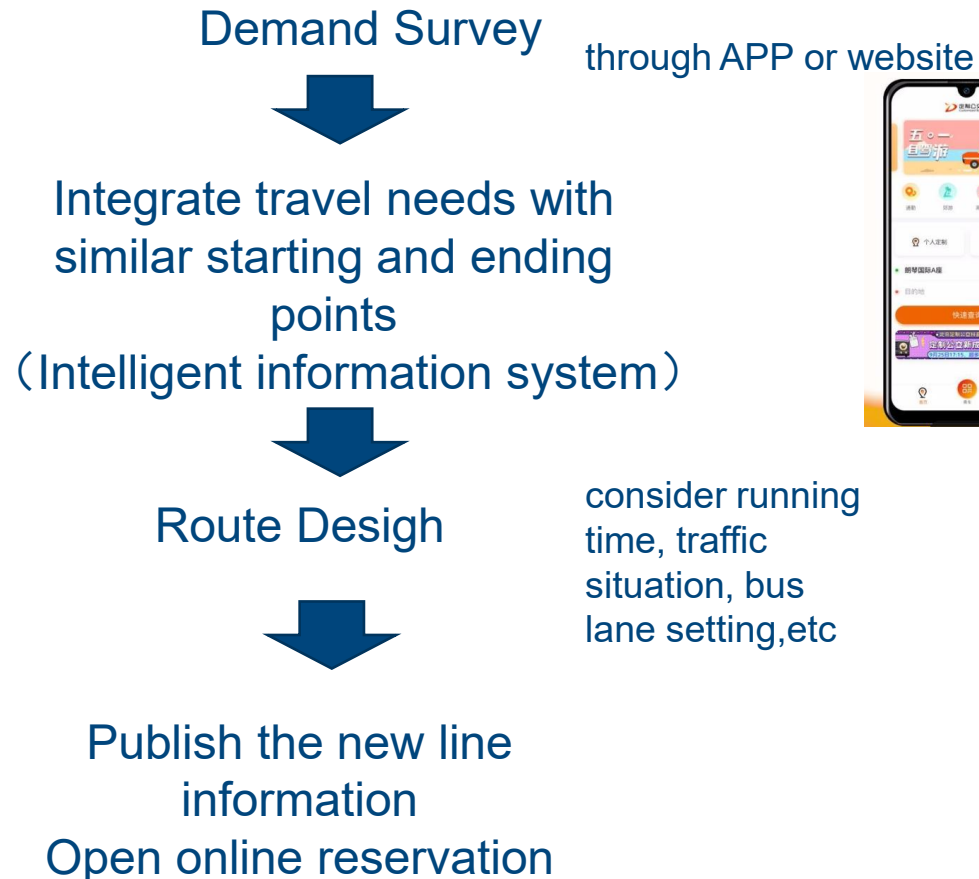
Large living communities

CBD or main working area



Case studies of demand-responsive bus services in Beijing and Hangzhou

Beijing



	price	
under 20km	8¥	
over 20km	8¥	every 5km +3¥

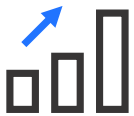
all con-demand bus service bus uses original bus station

Case studies of demand-responsive bus services in Beijing and Hangzhou

■ Beijing



Over 800 lines



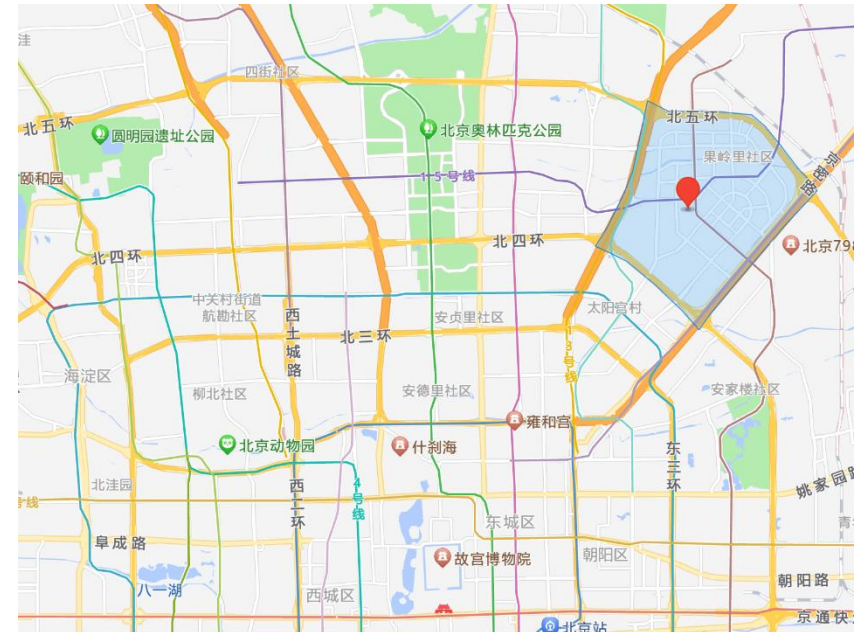
Over 66,000 passengers daily



Beijing Public Transport Corporation



the operating branch company

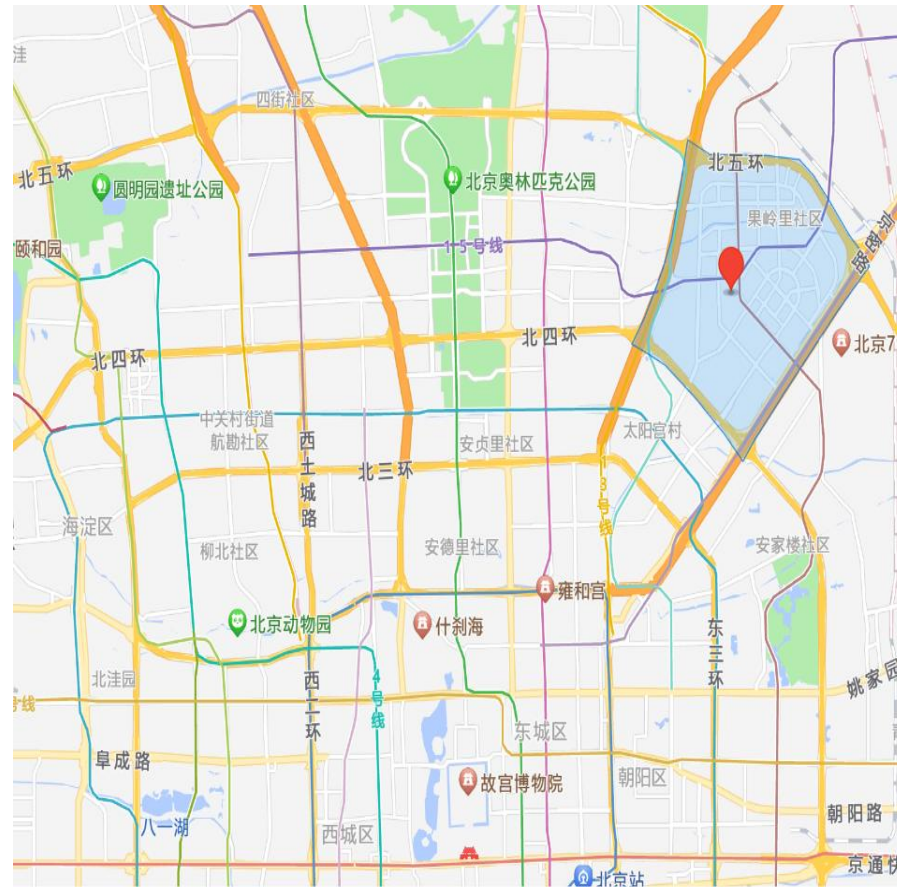
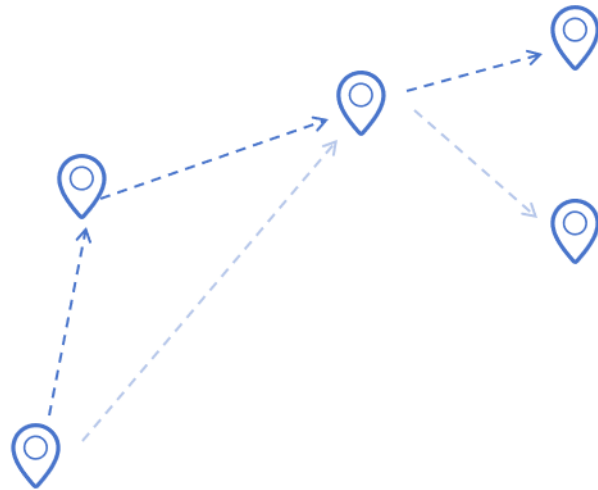


Case studies of demand-responsive bus services in Beijing and Hangzhou

Beijing

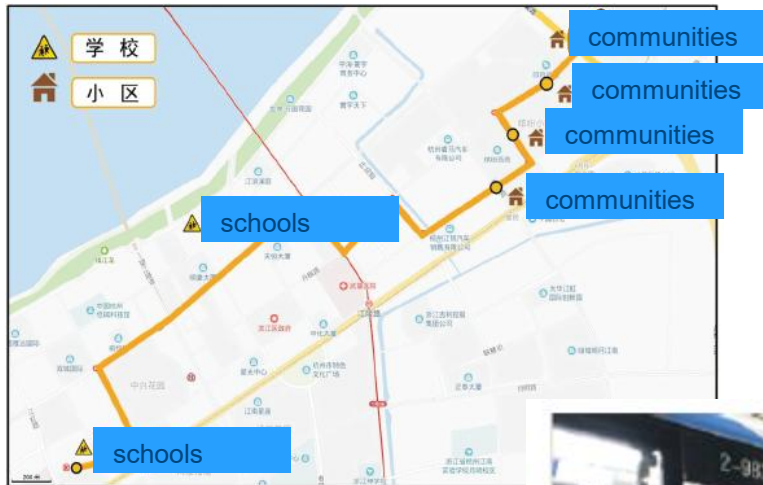
Cruise on-demand bus service

Office building or living communities



Case studies of demand-responsive bus services in Beijing and Hangzhou

■ Hangzhou



School commuting

On-demand Bus Service in Hangzhou



Subway commuting



Transportation hub distribution



City tour

Case studies of demand-responsive bus services in Beijing and Hangzhou

■ Hangzhou

Economic benefit

Enhances **the sustainable development ability** of the enterprise

Environmental benefit

electric vehicles, zero emissions

Diversified vehicle selection based on demand

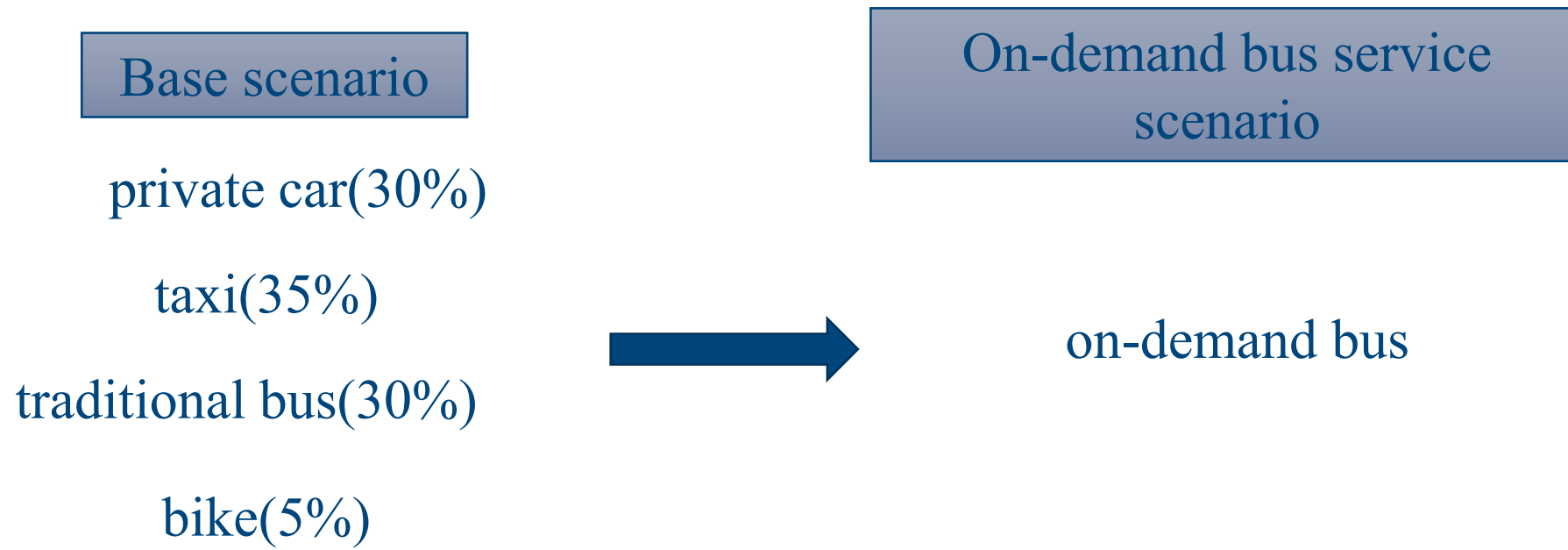
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Case studies of demand-responsive bus services in Beijing and Hangzhou

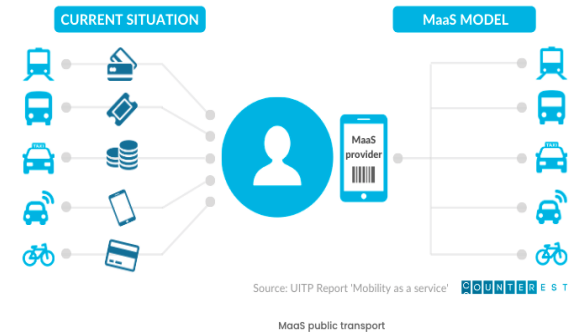
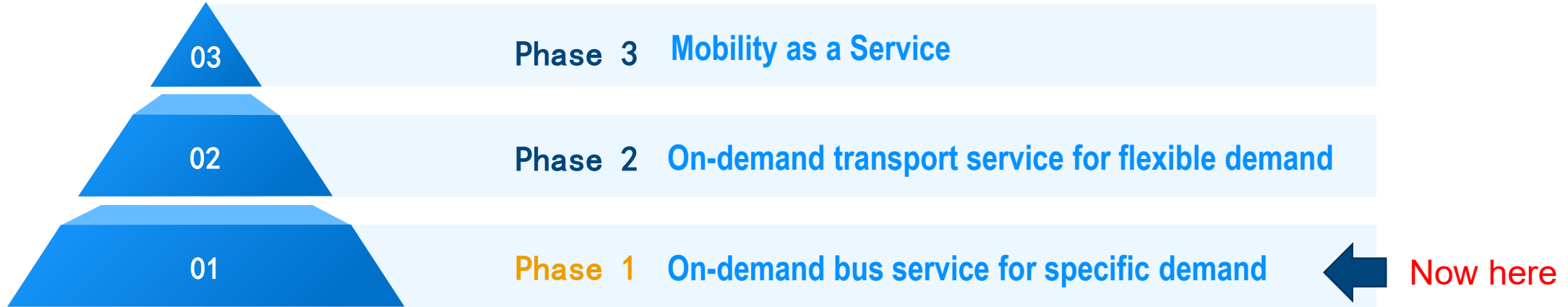
■ Hangzhou

According to rough estimates, the carbon intensity of on-demand buses is 10% to 20% lower than that of traditional public transport



Reduction about 80%

Practices and Outlook



Practices and Outlook

■ Key parameters

- ✓ city size - population over 5million
- ✓ economic level-people willing to pay more
- ✓ information level-new technical methods are needed



Practices and Outlook

■ Key parameters

1. intelligent technology in on-demand bus service

Intelligent information system processing data, public transit data brain

2. Targeted response to the travel needs of different groups

children, elderly; bussiness, city tour,etc

3. Various forms of advertising for on-demand bus services

online advertising(new media, offical website); offline advertising(vehicle advertisement, theme activities)

Thank you for your attention!

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