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# Reshaping Innovative Mode of Urban Public Transport

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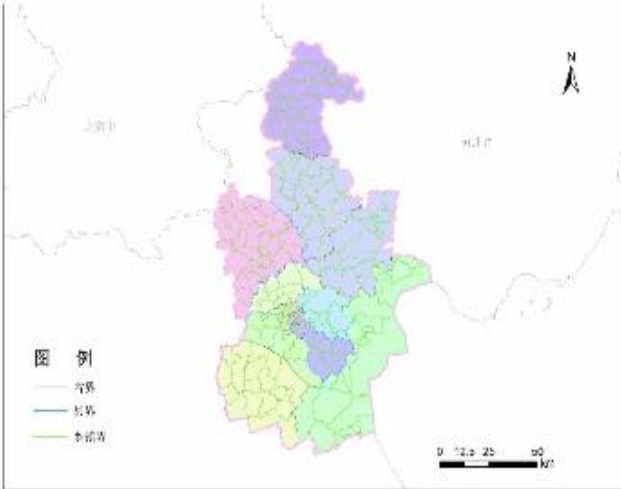
——Tianjin Practice

Tianjin Municipal Commission of Industry and Information Technology

Jingliang Wang

2017--November

# City of Tianjin



Economic center in Bohai Rim;  
National base of advanced manufacturing and R&D;  
International shipping core area of north China;  
Demonstration area of financial innovation operation;  
Pioneer of reform and opening up ;  
National R&D center of traditional Chinese medicine;  
Marine instrument test & evaluation center in Asia Pacific region;

As the end of 2016, there were 15.6212 million permanent population, including 12.9547 million urban population, with 82.93% urbanization rate. In 2016, Tianjin's GDP was 1788.539 billion Yuan.

# Situation of smart city in Tianjin



we proposed to build “smart Tianjin” including elements of “intelligence, benefiting people, integration, and security” during the “Twelfth Five-year”.

In the “13<sup>th</sup> Five-year” period, Tianjin has published a series of policy documents such as the *13<sup>th</sup> Five-Year Plan of Smart Tianjin*, and *Three-Year Action Plan of Smart Tianjin Construction (2015-2017)* etc, to guide and promote the construction of smart Tianjin.

# One、 The new energy vehicle policies

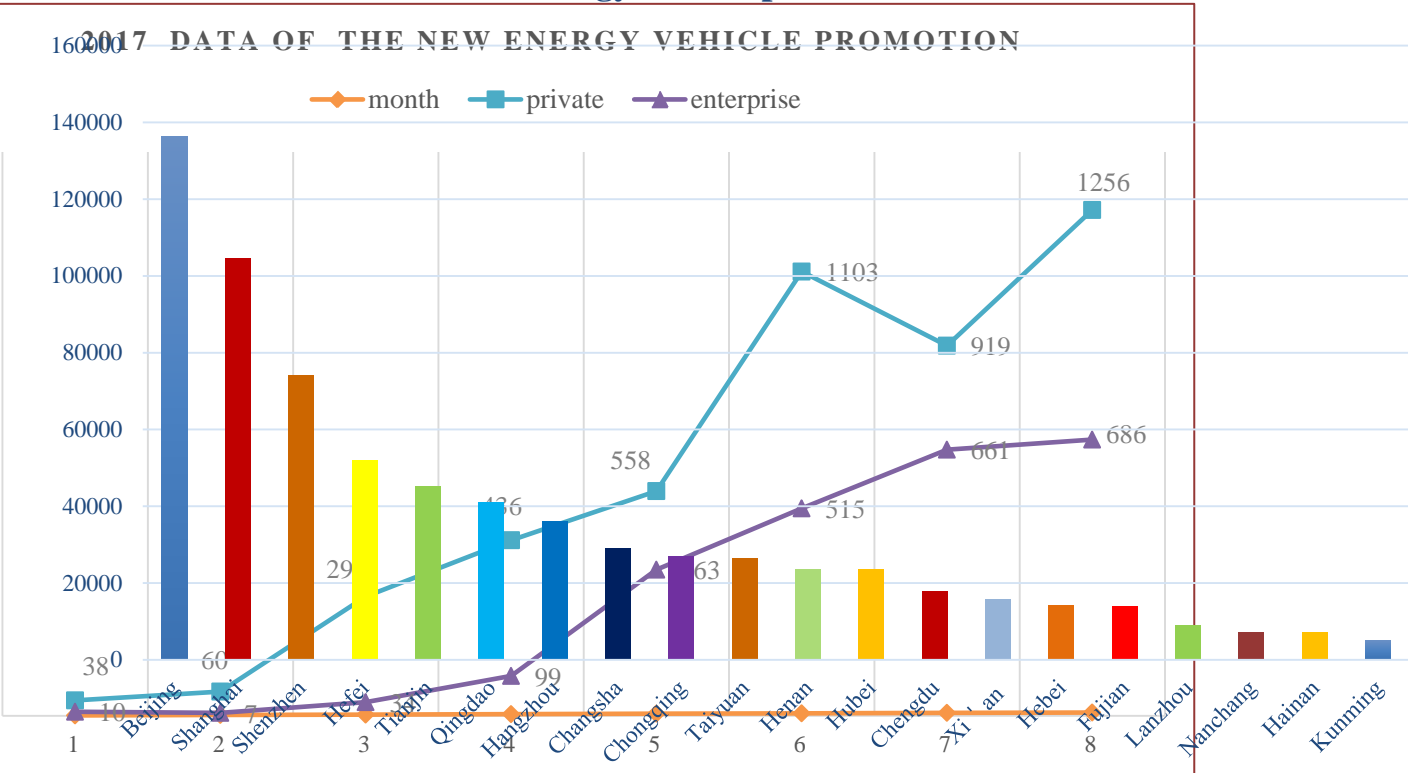
Since the “13<sup>th</sup> Five-Year”, ministries and commissions of China have successively published various guiding opinions and corresponding supporting policies.



# One、The new energy vehicle promotion and application

As of September 2017, there were 9,843 newly-added new energy vehicles in Tianjin, including 257 buses, 257 buses and 444 special vehicles, and 2802 newly-added vehicles in

Area	Number
Beijing	136300
Shanghai	104706
Shenzhen	74000
Hefei	52000
Tianjin	45300
Qingdao	41054
Hangzhou	35981
Changsha	29000
Chongqing	27046
Taiyuan	26338
Henan	23583
Hubei	23583
Chengdu	17766
Xi ' an	15763
Hebei	14071
Fujian	14021
Lanzhou	8859
Nanchang	7200
Hainan	7063
Kunming	5043





# One、 The new energy vehicle promotion and application

## New energy vehicle - promotion and application

key sectors	Implementation
public transit	The public transit lines of 500 new energy buses and the exit plan of non-new energy vehicles have been confirmed.
taxi and regional operations	Further confirm to increase the number of new energy taxi, and advance the legislative process of taxi regional operation.
urban logistics	33 new energy vehicles will be newly added, and the promotion and application of new energy vehicles will be driven through urban distribution of enterprise vehicles.
postal express delivery	Promotion and application of 37 new energy vehicles
government agencies and public institutions	Total construction of 2 new time-sharing rental outlets and promotion of 20 new energy vehicles.
environmental sanitation	Further arrange the work of new energy vehicles to all district-level environmental sanitation authorities who should develop the scheme of newly-added or replacement operation vehicles according to their respective vehicle situation.
social leasing and online car-hailing service	Currently, Huatai provides online car-hailing service with 700 new energy vehicles for trial operation, and plans to promote 5000 vehicles this year.
non-bus, private and enterprise vehicles	Promotion of one new energy passenger vehicle for a leasing company, and 1518 newly-added passenger vehicles for enterprise and private use.

# One、 The new energy vehicle—charging infrastructure

## **Situation of charging infrastructure for new energy vehicles.**

In the field of social public charging sector, 533 public charging piles were newly added in September 2017, and accumulative 2,169 new public charging piles were built from January to September, 2017. Now, there are totally 6,869 public charging piles in the city, including 2,738 quick charging piles and 4,131 slow charge piles.



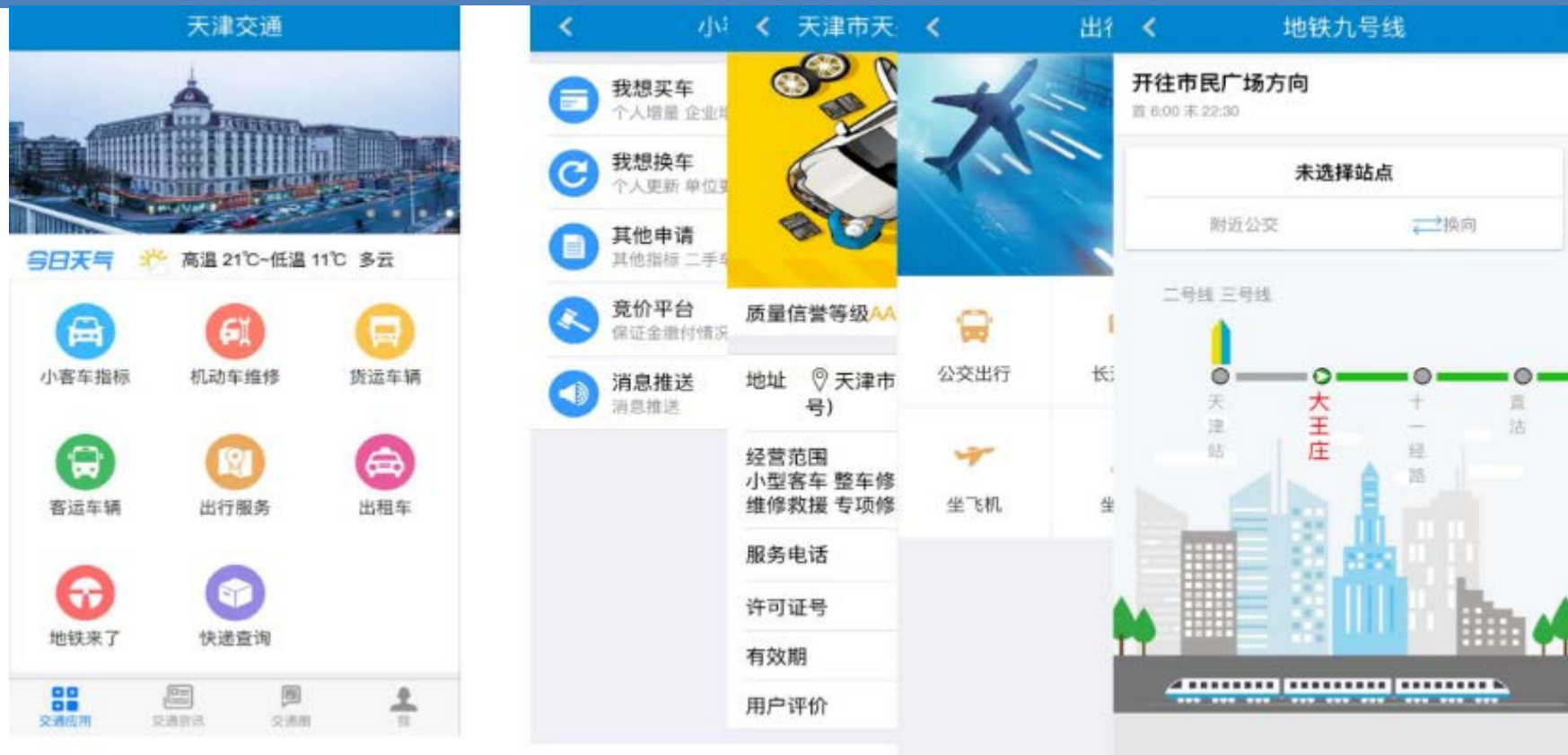
## Two、Urban public traffic



To constantly optimize the urban traffic structure, encourage green travel, and vigorously build intelligent transportation.



# Two、Urban public traffic——management&command



Intelligent management and command office  
The real-time information system of rail transit

## Two、 New mode of shared traffic



Shared car

New regulations about net car



Bicycle-sharing: As of July this year, there were more than 700, 000 shared bikes in Tianjin

## Two、 Urban public traffic——Intelligent transportation



Big data of traffic management;

“Data lake”+Intelligent transportation;

Big data value acquisition;

Artificial intelligence aided decision-making;

Open the new era of urban traffic network.



## Two、 Urban public traffic——Intelligent transportation



In August this year, The 13<sup>th</sup> National Games of the People's Republic of China was held in Tianjin , And during the games, the automotive electronic identification technology was used to carry out traffic signal priority control of event vehicles and security management of stadium entrances and exits.

# Three、Future outlook



Rail transit



Taxi



Bus transit



# World Intelligence Congress—Welcome to Tianjin



Ministry of Science  
and Technology  
*Gang Wan*



Chinese Academy  
of Engineering  
*Yunhe Pan*



Oxford University  
*Nick Bostrom*



Lenovo  
*Chuanzhi Liu*



Alibaba  
*Jack Ma*

In June 2017, the first World Intelligence Congress was successfully held in Tianjin

# World Intelligence Congress—Welcome to Tianjin



## Tianjin Statement of World Intelligence Congress

### Consensus in 3 aspects:

- Intelligent technology revolution is booming
- Intelligent technology industry is thriving
- Intelligent industry is forming impact

### Five initiatives

- Co-innovating intelligent technology
- Co-creating intelligent economy
- Co-building intelligent society
- Co-challenging risks
- Co-promoting global cooperation

A wide-angle photograph of a two-lane asphalt road with a yellow center line and white edge lines, receding into the distance. The road is flanked by dry, yellowish-brown grass and scattered red rocks. In the far distance, several large, flat-topped red rock formations are visible against a clear, deep blue sky. The overall scene conveys a sense of a long, open path.

Open a path of global win-win cooperation  
in the era of intelligence

Thanks !