



The Development of Smart City in China

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1. China has the Largest Number of Smart Cities

- ✓ The number of smart cities grew fastly during 2013--2015,;
- ✓ According to incomplete statistics, there are more than 500 cities with smart city planning in China.



The Overall Development of Smart cities in China

Name and Number of Smart City Pilot Projects in China, 2013-2017*

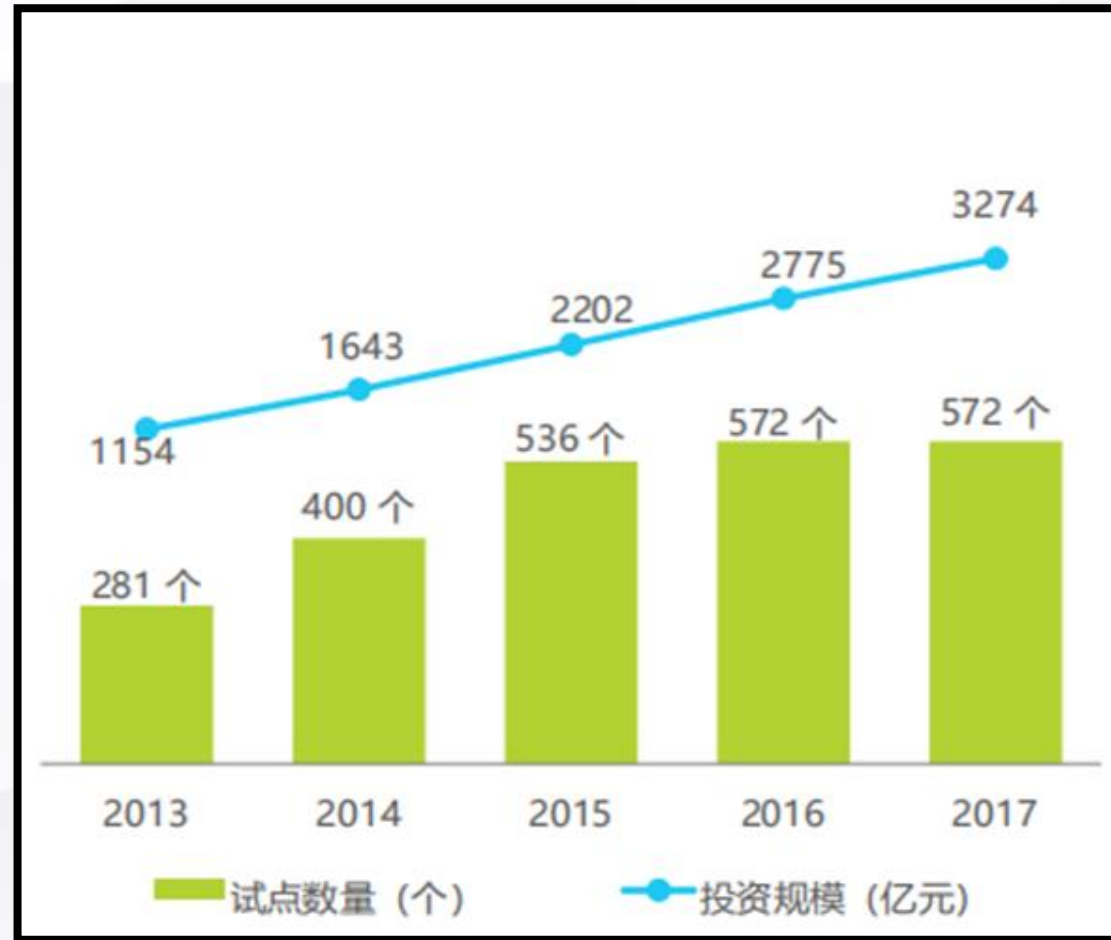
Publishing Ministries	Year	Numbers
Ministry of Housing and Construction	2015.4	97
	2013.8	103
	2013.1	90
Ministry of Industry and Information Technology(MIIT)	2015.12	36
	2013.11	68
National Development and Reform Commission(NDRC)	2014.6	80
MIIT & NDRC	2015.1	39
	2014.1	39
MOST	2013.1	20

*iResearch drew two tables based on public data



The Overall Development of Smart cities in China

Estimation of the Investment Scale of China's Smart City, 2013-2017*



*iResearch drew two tables based on public data



The Overall Development of Smart cities in China

National Policy Environment

- a. At the national level, related policies, guidance and pilot opinions were released intensively from 2013 to 2015;
- b. After 2016, the number of smart city pilot projects led by national ministries has gradually decreased,
- c. the focus of smart city development has shifted from concept popularization to practical implementation;
- d. At the national level, "*smart city technical reference model*", "*smart city evaluation model and basic evaluation index*" and "*smart city top-level design guide*" have been released successively, and the national standard system related to smart city has been gradually formed;



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Local Policy Environment

- a. smart city top-level design and planning
- b. relevant laws and regulations on smart cities
- c. fundamental infrastructure
- d. public service projects



The Overall Development of Smart cities in China

Technology Environment: Smart City related Technologies Mature rapidly

- Big data, cloud computing, artificial intelligence, sensor, communication have been applied in smart cities
- By the end of 2017, China had 997 million 4G users, forming the world's largest 4G network
- Mobile payment transactions exceeded 81 trillion yuan, ranking first in the world



The Overall Development of Smart cities in China

Regional development situation

- According to public data, from 2013 to 2018, the number of winning bids for smart city projects entrusted by local governments surged from 12 to 162, with a compound annual growth rate of more than 45%.
- Among them, the number of smart city projects in the developed coastal areas is significantly higher than that in other areas. In terms of geographical scope, the number of projects in east China, north China and south central China accounts for nearly 70% of the national total, which is the concentrated area of smart city construction.



Achievements in the Development of Smart City in China

Achievements

- ✓ Consensus should be reached on the concept of smart development
- ✓ Urban management and public services have become much smarter
- ✓ The urban management model has been innovated



Challenges in the Development of Smart City in China

Challenges

- ✓ Heavy technology light application,
✓ user experience is not strong
- ✓ The problem of information island and fragmentation still exists widely
- ✓ Security risks of intelligent systems have increased
- ✓ Sustainable operation mode still needs to be explored



The Practice of Smart City Development in Shanghai

Shanghai: The smart city construction plan was made earlier and covers all fields

(1) Shanghai takes the lead in formulating the action plan of smart city construction nationwide

continuously focusing on key projects such as information infrastructure;

Shanghai has set up a special fund for informatization development, and issued "*Shanghai smart city development level evaluation report*" for four consecutive years since 2015.



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Key policy documents of Shanghai smart city, 2011-2019*

Year	Issue Department	File Name
2011.9	Shanghai Municipal	<i>The 2011-2013 action plan for Shanghai to promote smart city construction</i>
2014.12	Shanghai economic and information commission	<i>The 2014-2016 action plan for Shanghai to promote smart city construction</i>
2016.9	Shanghai Municipal	<i>the 13th five-year plan for Shanghai to promote smart city construction</i>
2017.2	Shanghai economic and information commission	Measures for the administration of special funds for informatization development in Shanghai

In the 13th five-year plan for Shanghai's smart city construction has formulated comprehensive and detailed implementation in terms of landmarks, major construction areas and coordination of information infrastructure capabilities of smart city.



The Practice of Smart City Development in Shanghai

2. Focusing on convenient smart life, it provides intelligent transportation services with multiple scenes

◆ Shanghai emphasizes the provision of more convenient, efficient and safe urban traffic modes for people, and pays attention to the intelligent implementation of vehicle management, parking, traffic monitoring, public transportation and other fields.



3. Focus on Fine Smart Management to build ubiquitous intelligent security capabilities

- ◆ The framework of "one center, one platform, multiple systems, multiple models, extensive perception and extensive application" of Shanghai police has been basically built, and the intelligence security capability has been consolidated.
- ◆ Construction effect: the time for 110 police cases to arrive at the scene is shortened by 20% on average, and the time for handling police cases is shortened by 35% on average.



The Practice of Smart City Development in Shanghai

4. Shanghai: build a new landmark of smart city, centering on the ability of community management reengineering

◆ Smart community is advancing along the two directions of security construction and community service. By laying out ICT infrastructure, intelligent management and service system based on information and data analysis is gradually built.

THANKS

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