

To Build a Smart City Focusing Economy and Living ——2 Case Studies in Ningbo, China

Ningbo Municipal Government, China

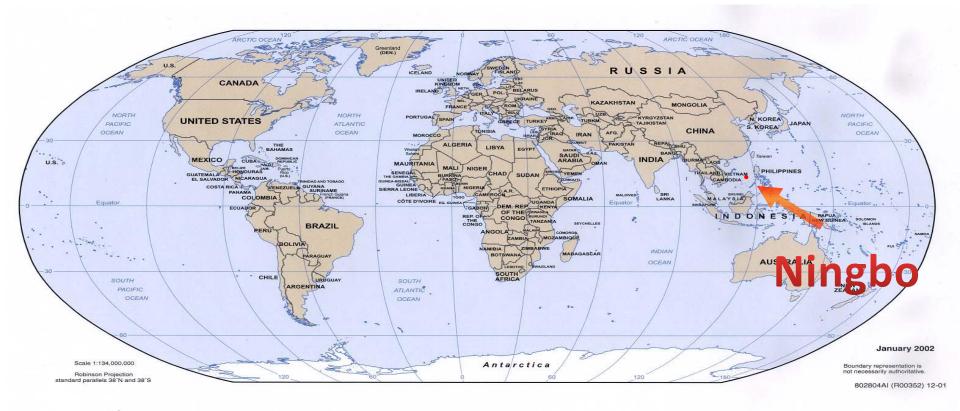
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Introduction of Ningbo City

Location, Area, and Population



Governing 11 counties (county-level cities, or districts). The total area is 10,000 km², population is 5.77 millions. Among them, the area is 285 km², population 2.26 millions in the central area.

A City of Culture



Hemudu Culture Ruins

The Ruins are Neolithic and world famous, with a history of over 7000 years. They are the one of the earliest formation of the Neolithic Age found in China



Tiantong Temple

The temple was constructed in Jin Dynasty, which is a famous temple of Zen Buddhism, the 2nd temple among the 5 temples of Zen Buddhism. It is with a history of over 1700 years.



Tianyi Pavilion

It is the earliest existing private library in China as well as the oldest library in Asia with a history of over 440 years.

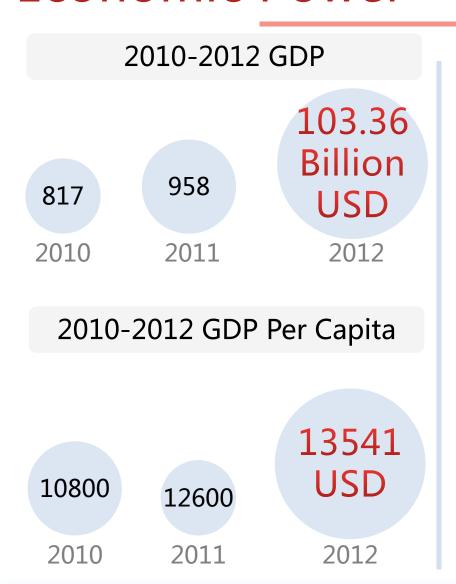


A Port to the World



The cargo and container throughput of Ningbo Port reached 453 million tons and 15.67 million standard containers, ranking the 5th and 6th respectively in the world

Economic Power



Ningbo is the economic center of the southern Yangtze River Delta area, ranking at the top in the national economy.

Rapid Economic Growth

The private economic sector in Ningbo is well developed. GDP accounts for 70% of the total.

Ningbo is quite a manufacturing city. Owns 20 out 190 of the national export-brands ranking at the top throughout the nation



宁波电子商务展

Ningbo is an Export-oriented economy city. In 2012, 95% of the economy is externally oriented.

Ningbo is a fast developing city. The rate of urbanization has reached 69%.





Goals, Ideas and Approaches of Ningbo Smart City Development

Urbanization Issues



Economic development mode and industrial structure need to be transformed



inadequate infrastructure

inadequate infrastructure



pollution, global warming and unsustainable resources



The quality of the public service provided by government and the administrative efficiency need to be upgraded

increased living quality

Urban Issues

higher requirements for public administration and services

economic development mode needs to be changed

challenges

posed by

resources



Aspects around social insurance, education, sanitation and safety are far from perfect

Strategy

May. 2010

The strategy was raised on the 'Informatization and City Development' forum of World Expo 2010 in

Ningbo

Sep. 2010

Ningbo Municipal Government issued the Decision to plan the construction of a smart city.

Feb. 2011

The twelfth Five-Year Plan of Ningbo includes the strategy to accelerate the construction of smart city

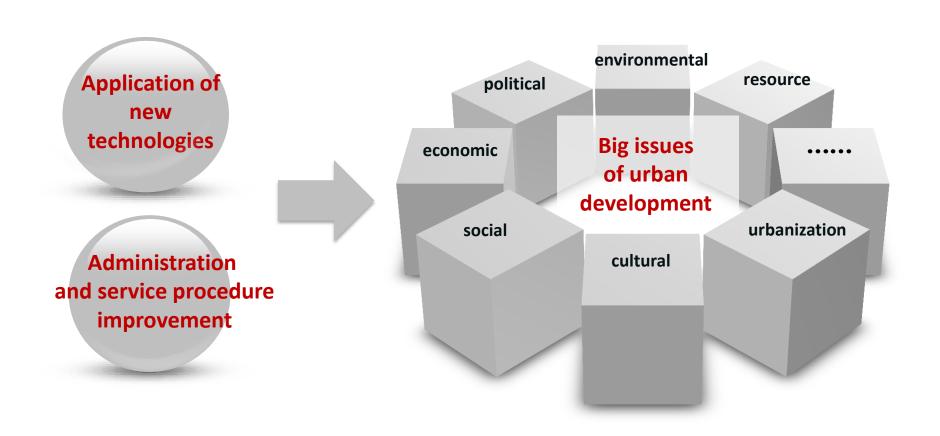
June.2011

The issuance of 'Accelerating Smart City Construction Action 2011-2015'

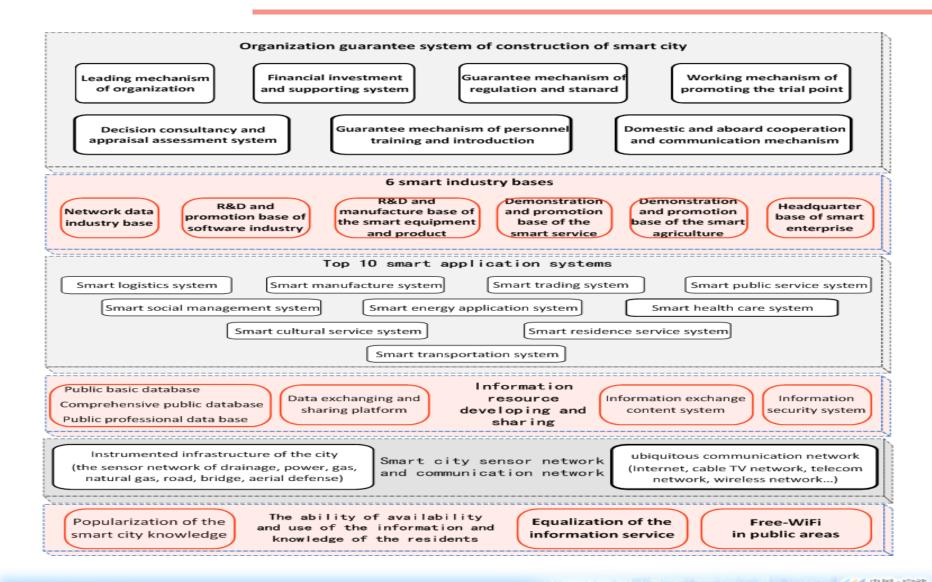


Goals

Relieve and Solve the 'Urban Diseases'



Ideas



Honors

City of Informatization
Excellence Achievements
China 2011



Leading Smart City China 2011



Top 50 Informatization Cities
China 2012
Top 10 Cities Propelling Smart City
Development China 2012



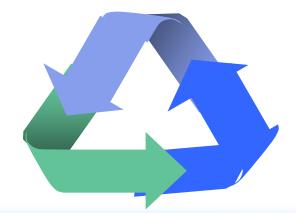




1st, Infrastructure Building

Higher than the national standards, the government has endeavored to improve infrastructure of the internet and telecommunication, enhance the construction of government cloud computing centre and fundamental database, strengthen the co-construction and sharing system of information resources. A framework of 'big internet, big data, big platform and big sharing is coming into being.

Government Cloud Computing



Wireless City

Optical Network City

2nd, Smart Application System

According to the ideas of setting up experimental units first and then expanding to the entire city, an application system of smart, economic and socially beneficial needs to be built initially.

Smart Economy(manufacture, trade, energy etc.)

Smart application system

Smart living (hospitalizing, education, transportation, tourism etc.)

Smart City Management (administrative examination and approval, social administration etc.)

Smart Public Services (81890 citizen assistance info system, geographical info, demographic, resources, living info service etc.)

3rd, Development of Smart Industries

The government introduces and nurtures smart industries based on the idea of mutural propelling and contribution between smart system construction and smart industry development. Governmental, industrial and academic cooperation and leagues establishment have been highlighted.

Focus on two major industrial bases





Smart Industries Development

2 Build a sharing platform





Advance the merge of industrialization and informationization











Sponsored by:

Ministry of Industry and Information Technology
The State Administration of Radio Film and Television
Chinese Academy of Sciences
Chinese Academy of Engineering
China Telecom Group
China Mobile Group
China Unicom Group
People' s Government of Zhejiang Province

Executed by: Ningbo Municipal Government

Some facts about 2011-2013 China Smart Expo, Ningbo

	Cooperation Item	Total signed amount	Enterprise in exhibition	Visitor
1 st term	16	1.04 billion USD	310	Over 52000
2 nd term	23	1.45 billion USD	300	Over 56000
3 rd term	23	2.09 billion USD	310	60000 or so



Opening Ceremony, Smart City Expo. China, 2013, Ningbo.



Prof. Pan are delivering speech on the summit forum, Smart City Expo. China, 2013, Ningbo.



Ningbo Municipal Government are signing cooperation agreement with SAP, on Smart City Expo. China, 2013, Ningbo.

4th, Environmental Optimization

Optimize the environment for constructing the smart city through system-mechanic innovation



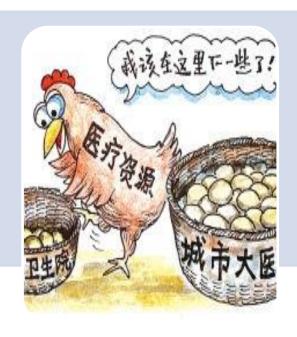
Two Case Studies in the Areas of Economy and Living

Case 1: Smart Health Care System

Background







The Health system cannot meet the demands

Difficult and Expensive to See Doctors

Unequal Resources
Distribution

Achievements

1):

Save time by online registration

The online hospital registration system in Ningbo gets over 20 hospitals involved, reducing the waiting time for more than 60%.

2

Increase the diagnostic level through online consultation

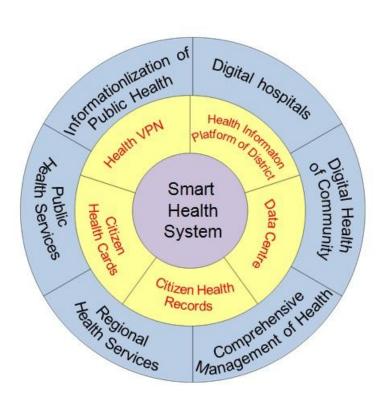
The government has established 37 digitalized community clinics, 8 regional video image system and 3 regional Clinical Laboratory Medical Devices. Ningbo hospitals have established remote joint consultation with famous Hospitals in Hangzhou and Shanghai

3

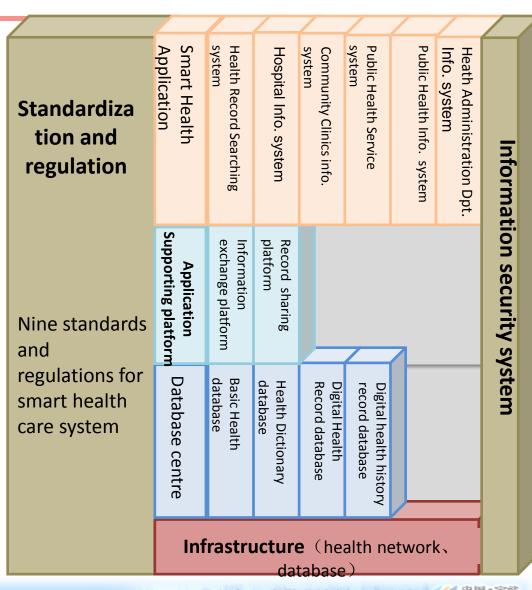
Share health records through sharing platform

5 million health records have been built with rate of standardized records over 65%.

Ideas of Construction



Framework: five integration and six tasks



Approaches

1. Enhance the organizing guarantee

Established smart health care system coordination group

The Health Bureau organized a leaders 'group for smart health care system

3.Lay emphasis on standards and regulations

Set up a serious of standards and regulations, including 'Work Programme on the construction of the Ningbo Smart Health Care System', 'Standard Specifications on Ningbo Smart Health Care System', 'Catalogues of the standards of the Ningbo Smart Health Care Sytem

2. Defined the contents and tasks

Notice on speeding up the construction of smart health care system in Ningbo Completed 7 smart health care project proposals

4. Highlighting openness in construction

With the idea of mutural propelling and contribution between smart system construction and smart industry development ,Established cooperation with Huawei ,EastSoft and King Tang software Companies etc.



Case 2: Ningbo Credit

Background

- The utility ratio of companies' credit information is low due to limited openness.
- The government cannot fully understand the overall situation of companies credit as credit information has not been intergrated.
- The credit information of many enterprises is not transparent. The penalty for losing credit is unclear.

Achievements



Improve the fairness of tax raising

Establish joint rewards and punishment mechanism

Increase the efficiency of examination and approval

Improve the government service level

Real-time receiving of specific information on the industry developments in the entire city.

Local Tax Bureau issued notices to more than 20,000 companies for delayed taxation. It increased the fairness of taxation as well as increased fiscal income for local government

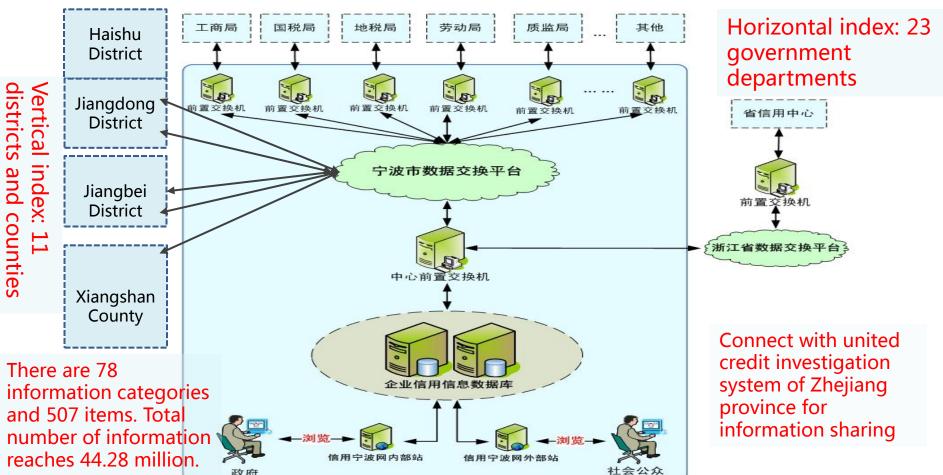
Established joint rewards and punishment mechanism according to the lowest credit level of the company.

Enterprise registration takes less than an hour as apposed to a couple of days before.

The general public could search relevant information such as basic information, annual check and honors obtained of the company to avoid frauds.

Ideas of Construction

Build up a network for system integration, information sharing and business collaboration.



Approaches



Established a leader group consisting of the city mayor and members from 34 relevant departments

Policy guarantee

In 2002, the government promulgated a regulation of 'Enterprise Credit Information Management 'to regulate the collection, publishing, investigation and evaluation of enterprise credit information. In 2012, the 'Enterprise Credit Information Monitoring and Social Responsibility Evaluation Methods' was put into effect

Potential Collaborations with Germany

Potential collaboration

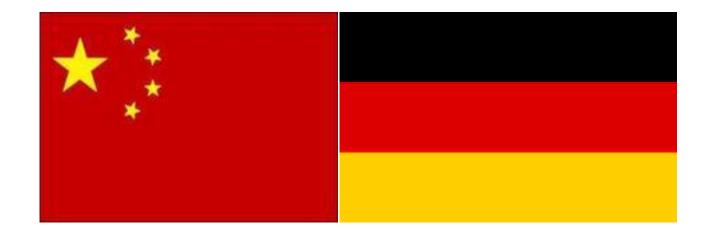


Smart City construction is very complex and sophisticated. Apart from a few achievements, the construction is still on its initial phase.

The idea of combining the wisdom worldwide to build a smart Ningbo city, is essential for our success. Stick to openness and cooperation all the time. Have established project cooperation with IBM, MicroSoft, SAP, TATA etc.

We sincerely hope to seek potential opportunities for cooperation with Germany companies and research institutions for building smart city. Welcome to Ningbo Week in Germany held in Dusseldorf next week.





Thank you!