

Smart City in China

8th ITU Symposium on ICTs, the Environment and Climate Change Turin, Italy, 6-7 May 2013







Target of SC Development

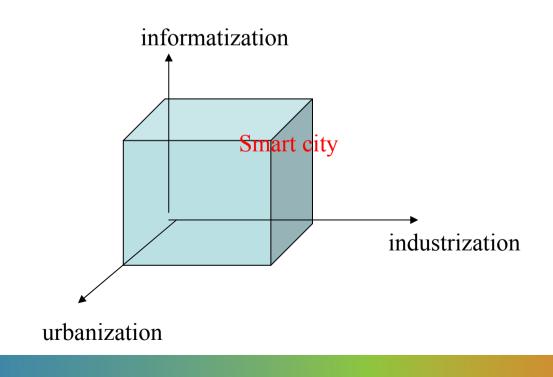
Initiatives of SC

Practice of SC

Target of SC Development



- □ In the coming decade, industrization, urbanization and informatization will be the focus of development
- □ Accomplished via smart city
- more than RMB 440 billion in 5 years forecasted by investment banks



Initiatives of Smart City



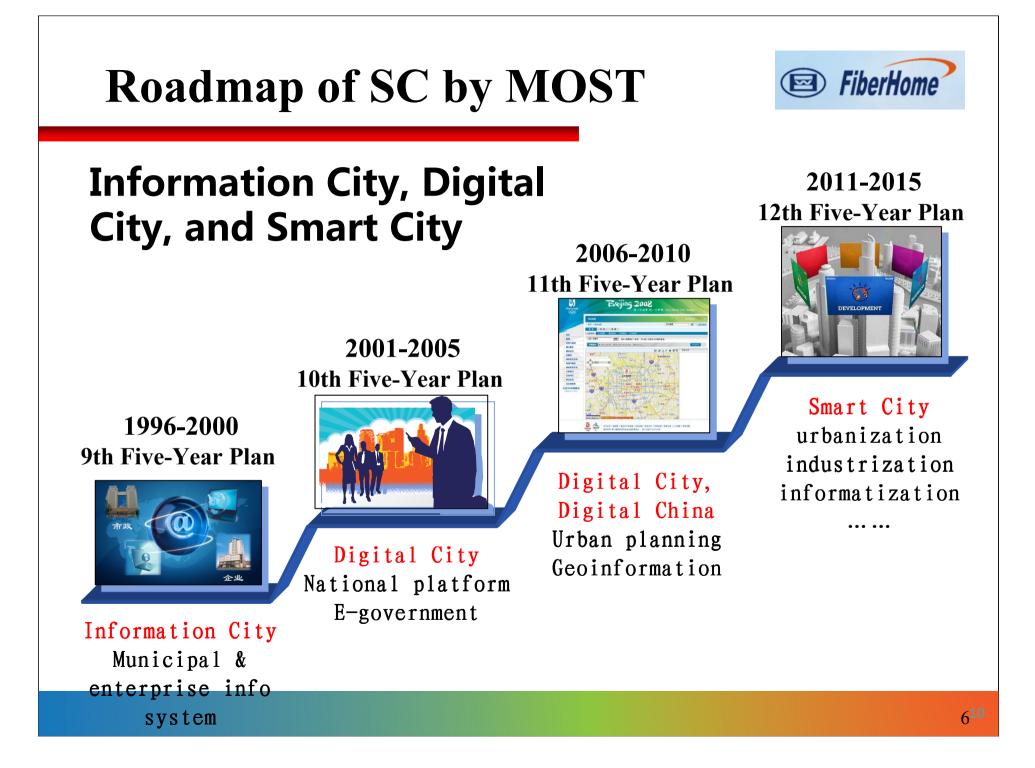
- □ Ministry of Central Government
 - Ministry of Science and Technology (MOST)
 - National Development and Reform Commission (NDRC)
 - Ministry of Housing and Urban-Rural Development (MOHURD)
 - Chinese Academy of Engineering (CAE)
 - National Administration of Surveying, Mapping and Geoinformation (SBSM)
- Municipal Government
 - Wuhan City, Hubei Province
 - Yangzhou City, Jiangsu Province
 - Ningbo City, Zhejiang Province
 - etc
- Consortia
- Forum

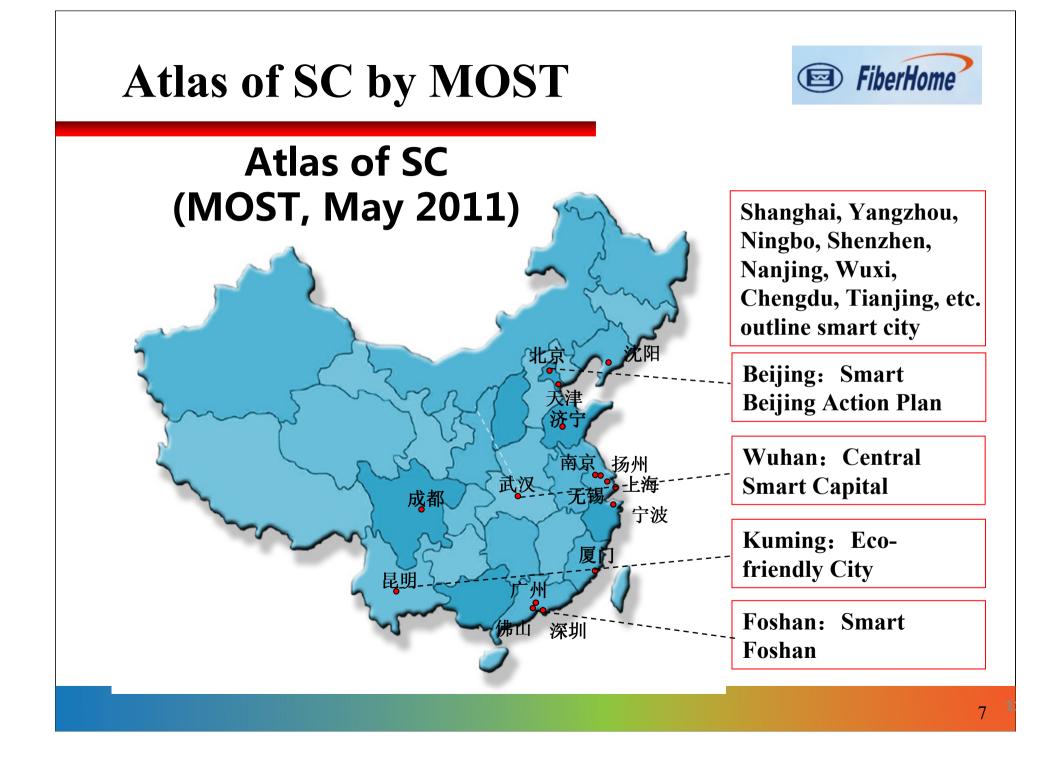
Activities of SC by MOST



Nov. 2010	China Smart City Forum Conference 2010	Wuhan
May 2011	China Smart City Development Advisory Council	Yangzhou
Jul. 2012	China Smart City Forum Conference 2012	Tianjin







International Cooperation of SC Science

 June 2011, Minister of MOST visited France. In the meeting "la XIIIème Session de la Commission mixte scientifique et technique franco-chinoise", Smart City as one of 6 prior cooperation fields.



Project of SC, funded by MOST Science



- Oct. 2010, MOST launched a project of Smart City (863 program, the High Tech Research and Development Program).
- Researchers from 12 organizations:
 - 5 universities,
 - 3 institutes,
 - 2 companies, and
 - 2 municipal governments (Wuhan City and Shenzhen City)
- Nov. 2011, research group of SC and UPMC France organized SCIC2011.
- Oral reports from: Univ. Paris-Sud 11, France Telecom, IBM, UCL UK, Aalto Univ. Finland, Univ. Cantabria Spain, UPMC France, TU Berlin Germany, George Masson Univ. USA, and research group of SC

Activities by Other Ministries/administrations



Ministry / Admin.	Activities	Further action
NDRC	Strategy Study on Smart City (2011-2013)	Coordinate ministries
MOHURD	index system of pilot SC	90 cities and towns as national pilot SC
CAE	Intelligent City, or iCity	5 pilot cities
SBSM	"Digital city" upgrading to "Smart City"	Cloud Computing Platform of SC, each branch invest 36M





- China Strategic Alliance of Smart City Industrial Technology Innovation
- Set up on 28 Sept. 2012
- 45 members







Target of SC Development

Initiatives of SC

Practice of SC

Wuhan, a case study



- Wuhan, a metropolis, population over 10 million
- one of the pilot cities selected by MOST, MOHURD, and CAE at the same time



Wuhan, public bidding



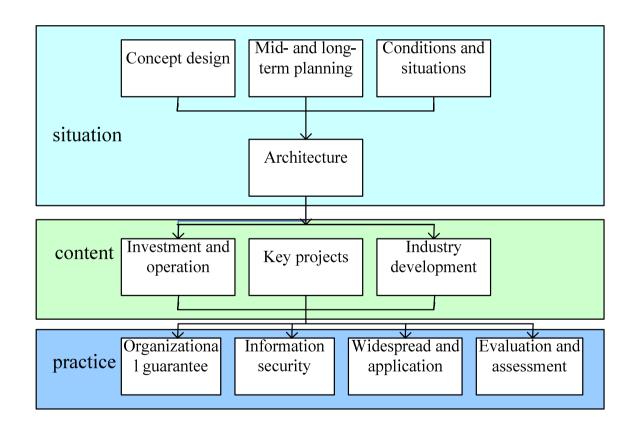
- 2 invitation of bids, total RMB 10m :
 - Concept design, Mar. 2011
 - 17 groups/teams participated in the competition
 - Planning design, Jul. 2011
 - 9 groups/teams participated in the competition

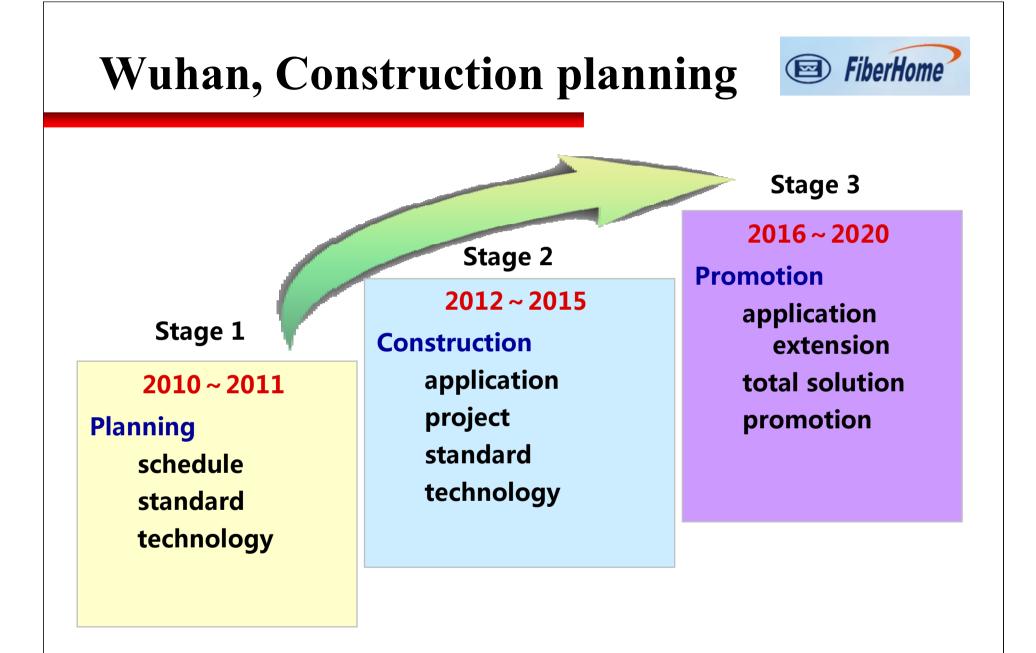
Wuhan, Sketch of biddings



7 Outputs:

- Architecture
- Investment and operation
- Key projects
- Industry development
- Organization guarantee
- Security
- Widespread
- evaluation





Wuhan, Application



- 13 projects, authorized as application of SC

Sector	Authorized project
E-Health	"Mobile hospital" in Wuhan Central Hospital
Agriculture	Cattle breeding project in Hannan District
E-government	GIS-based Digital decision-making assistant system
Public security	Video surveillance system of Wuhan City
ITS	No-waiting toll collection system on roads, bridges and tunnels
Food and drug safety	Meat quality traceability information system
Geo-space	Wuhan geo-space information framework
Urban management	Digital grid platform of urban management
Service government	Municipal information system of administration center
Telecommunication	Free wifi in "optical valley"
Smart community	Intelligent management program in Yongqing CBD



THANK YOU

谢谢!