

Sustainable Smart City Development Strategies and

Practices Based on Regional Characteristics.

Dr. TIAN Ye FiberHome Technologies Group





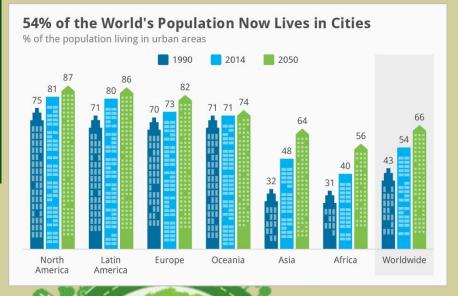


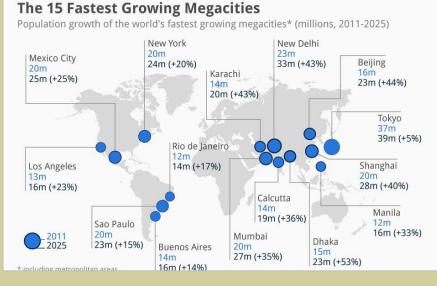
Introduction: Rapid Urbanization

Rapid urban population growth : in 2014 the proportion of the

world's urban population reaches 54%

- The latest United Nations report shows that the world's rural population "urbanization" process is still accelerating
- The global urban population was just 30 percent In 1950, and this percentage is expected to rise to 66% in 2050.
- Nearly 50 percent of all the cities in the world has a population less than 500,000, while in every eight urban people in the world, there is one living in one of the largest 28 cities.







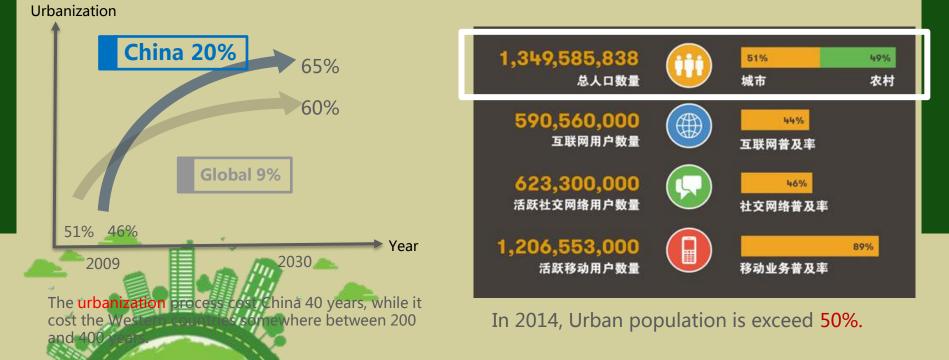
Introduction: Rapid Urbanization

In 2014, China's urban population will exceed 50%. Cities face a huge challenge.

- Currently the consumption level of an urban resident is roughly equivalent to that of three rural residents. If urbanization increases by one percentage, there will be 13 million people from the rural area coming into the cities. The total household consumption will increase by 120 billion RMB;
- One percentage increase in urbanization brings an annual investment demand increase of 6.5 trillion RMB.

China's urbanization rate

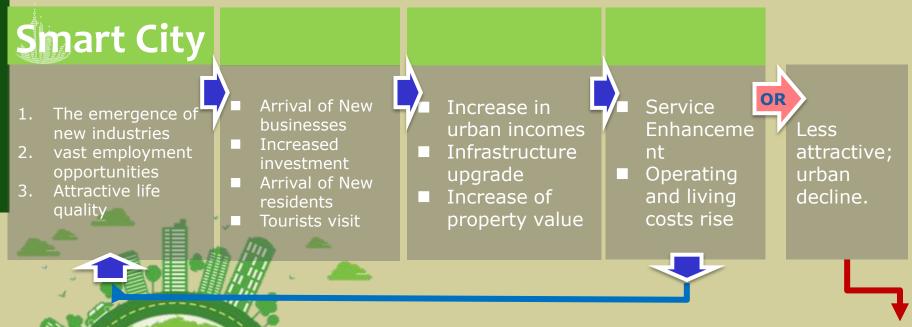
China's urban population in 2014





Smart city construction is an important means to solve the problems of urban development

- Upgrade the industrial structure of the city, urban environmental improvement, attract residents and practitioners is the most important factor in the balanced development of the city.
- The city has never stopped the pace of change ...
- **Re-urbanization**: Facing the aging of the economic structure and the decrease of the population, the old cities actively adjust the industrial structure, develop high-tech industry and the tertiary industry, and actively develop recessed downtown areas to attract young professionals back to the cities.





Smart City Construction itself is also facing the problem of sustainability

- Messy and disorderly construction
- Green environmental issues, pollution
- Intensive problem, redundant construction
- Sustainability issues



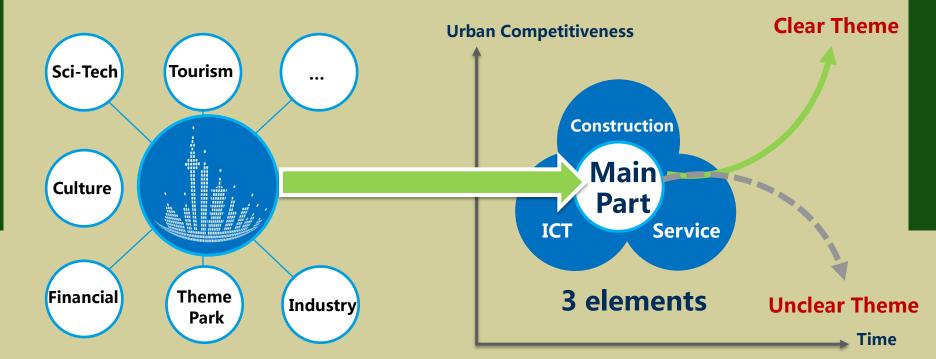


Theme is the key to building a smart city

To ensure the continued competitiveness of the city, the construction of smart city needs to establish the theme of urban development, and start differential competition with the help of communications and information technology.

Establish a development theme

Differential competition





Regional characteristics is basic to determine the development themes

Urban Region

flow

> An integral part of local city

Differences among the regions

Size, location and transportation, education and culture, resources and infrastructure, industry focus

Discover RC Determine the theme

- > **Planning long-term**: building a solid and intensive information foundation
- > **Resources are concentrated**: the establishment of a new growth point of the city
- > **Industry in Order**: formation of an integral urban complex
- Development Coordination: division of comprehensive and balanced functional blocks.
- > **Sufficient Communication**: forming a balanced, symmetrical, smooth information



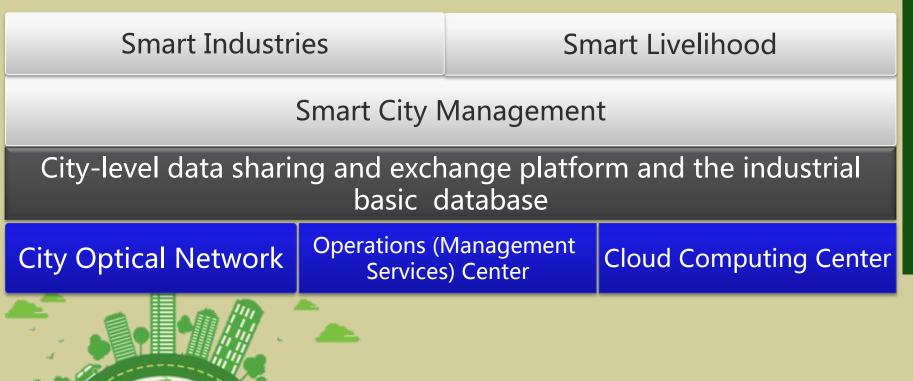
Goal of a sustainable smart city

- Direction: Detours, avoid the wrong way;
- Construction: achieve a green, environmentally friendly process and operation
- Management: Achieve intensive and efficient system operation
- People: provide a comfortable and convenient life
- City itself: achieve sustainable development
 - Sustainable Construction and Operations
 - Strengthen the communication among people, goods, and information to attract the younger generation and enhance the vitality of the city.



One Strategy for One City

- Help city to establish the theme of industrial development
- Establish smart city operations center;
- Construction principles: Informationization as the carrier, safety and security as the basis;





Regional-Characteristics-Based Construction

- 1. Planning and design based on Regional Characteristics
 - > Regionalization \rightarrow Positioning \rightarrow specific planning, specifically design
- 2. Development of overall industrial standards
 - > Under a unified and scalable structure, conduct intensive and standardized construction
 - > Standards available for the construction process and quality

3. Construction of Green Communication Infrastructure

- > Unified, standard, and secure network carrying intelligence applications
- Construct scalable green network: Reduce infrastructure costs and improve the efficiency of urban information and communication

4. Implementation of Sustainable Operational Smart Applications

- Intensive construction of intelligent applications of various industries based on the green communication networks
- unified construction of intelligent operations center based on the various intelligent
 application systems.





Standards Week Planning and design based on Regional Characteristics

1.Regionalization

> division from the perspective of administration and resour ces centralization and plan holistically

2.Positioning

4th ITU Green

- Function positioning based on the characteristics of differ ent divisions;
- Including: size, regional transportation, culture, infrastruc ture, industry focus

3.Specifically design

- Based on the holistic plan, specifically design based on characteristics
 - plan, technology, operations, etc.

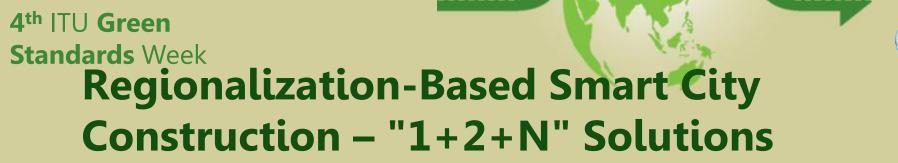


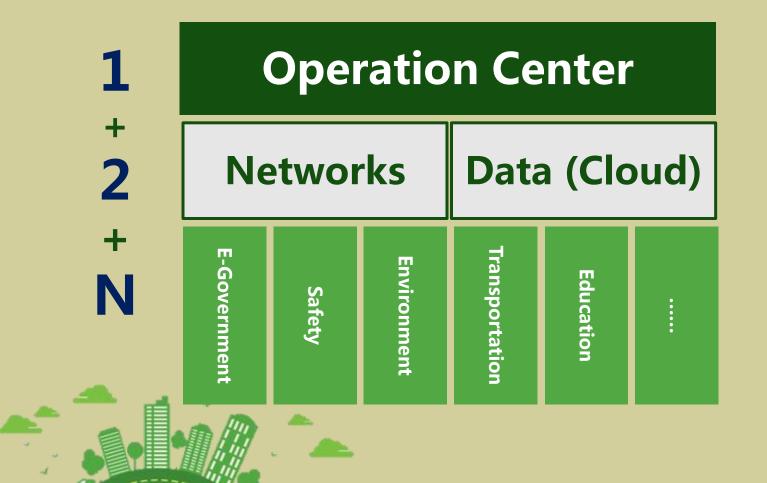
4th ITU Green Standards Week Planning and design based on

Regional Characteristics

Positioning

- City upgrades
- New (Build) vs Old (Re-urbanization)
- Block groups
- Features:
 - ➤ Size
 - Geographical and transportation features
 - Industry focus
- Use the experience of other countries for reference





4th ITU Green Standards Week Regionalization-Based Smart City Construction



4th ITU Green Standards Week Sustainable Smart City Practices: Wuhan



阿斯塔纳 乌兰巴托 哈尔滨 乌鲁木齐 长春 0 比什凯克 沈阳 呼和浩特 北京 平壤 石家庄 天津 首尔 太原 郑州 黄海 西安 伊斯兰堡 南京 上海 航州。 苏岩礁 重庆 新德里 东海 加德满都 廷布、 贵阳 台北 达卡 彭湖列岛 绿岛(火烧岛) 00 河内 澳门 内比都 太平洋 南海 万象 西沙群岛 黄岩岛 (民主礁) 曼谷 金边 南沙群岛 司令碑 梅莱凯奥克 科伦坡 0 马累 吉隆陂 曾母暗沙



Future



A smart city should be:

green, smart, sustainable developing

Suitable for living, traveling and working;

- Keep developing itself;
- Better than better~!

A smart city should be a city:

of the people, and for the people!

Should not forget each citizen, make the people feel safe, comfortable and have room for personal development and performance;



Thank you !



