

Building Future-Oriented Smart Cities

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Huawei Smart City Solutions

HUAWEI TECHNOLOGIES CO., LTD.



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A Global Company on Your Side

2

Trends and Vision

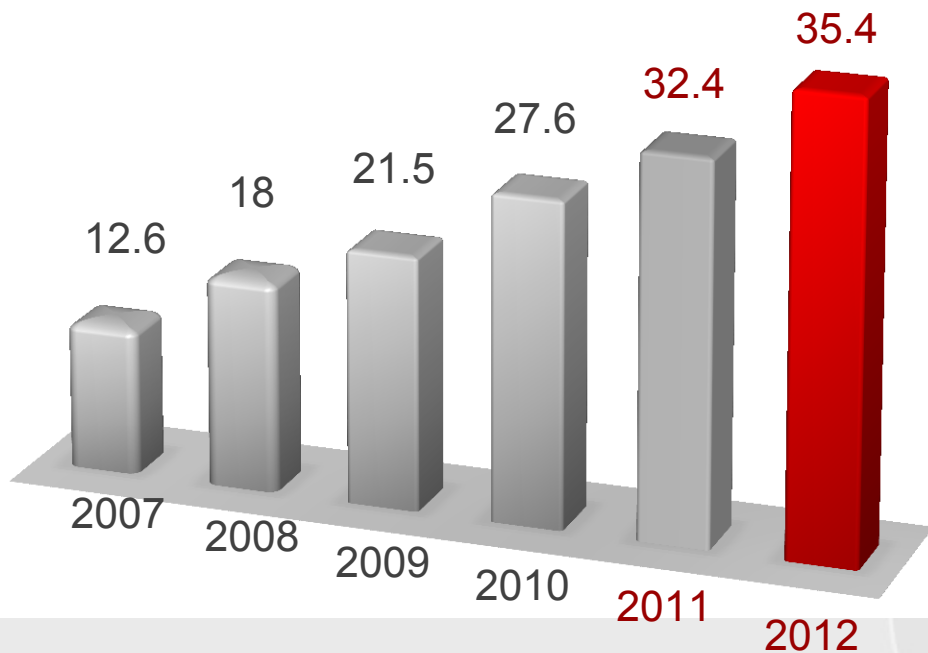
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Construction Key Elements

4

Why Huawei

Sustainable Growth

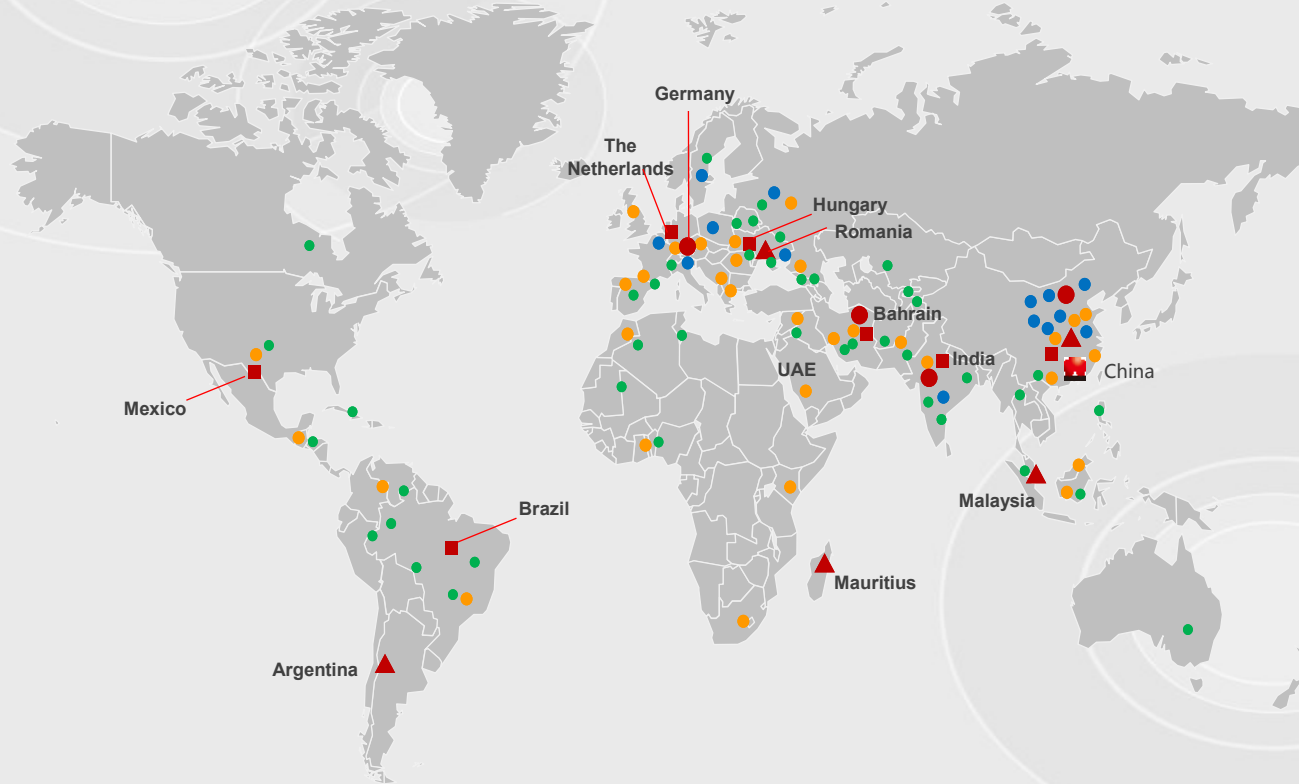


- Huawei Technologies releases an annual report with consolidated financial statements audited by KPMG. — *From Huawei annual report audited by KPMG*

Who is Huawei?

- Listed on the 2012 Global Fortune 500
- Leading global ICT solutions provider
- Customer-centric culture
- World-class management, process, and practice

Huawei, A Global Company with Worldwide Expertise

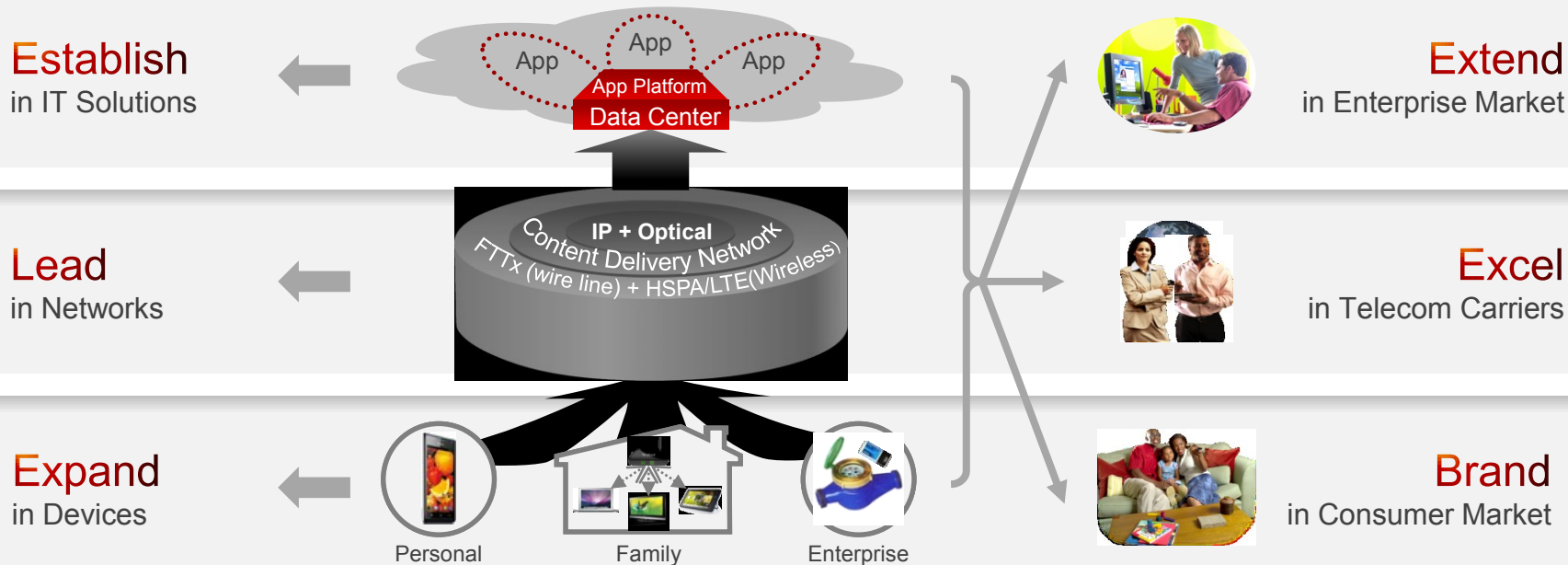


Rely on globalization to localize operations

- 14 regions with business operations in **150+** countries
- **150,000+** employees from **150+** countries
- **25** joint innovation centers and **45** training centers

- 🌸 Shenzhen-based HQ
- ▲ Accounting Shared Services Center
- Bid center (in construction)
- Logistics center and transit station
- R&D center
- Training center
- Technical assistance center

Huawei Redesigns Business Strategy to Cover All ICT Sectors



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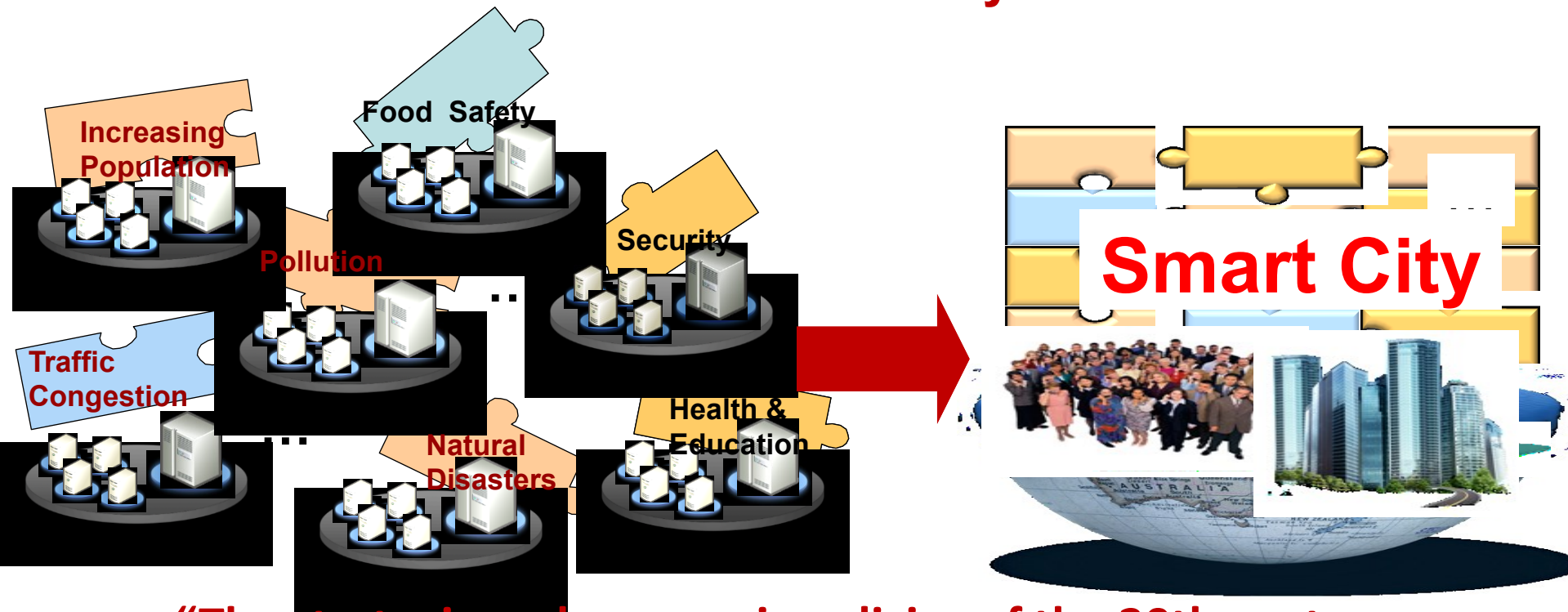
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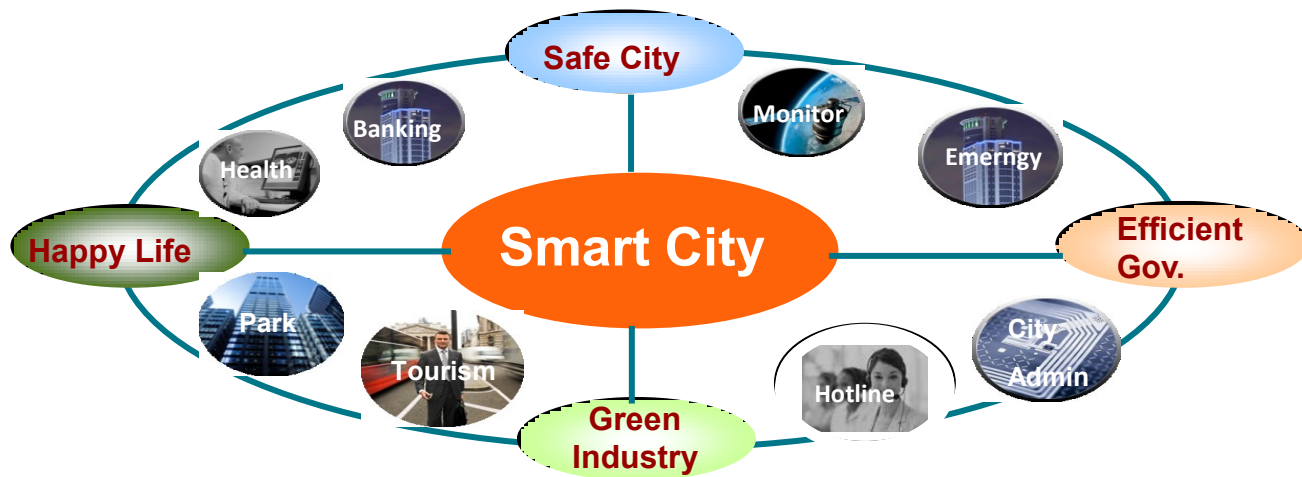
Why Huawei

Urbanisation Trend calls for Smart City Solutions



“The strategic and economic policies of the 20th century are obsolete, and it is time to find new ones.”

Our Smart City Vision



Smart City Development Relies on

Standardization

Build a completion set of Information standards

Planning

Adopt right constructure model

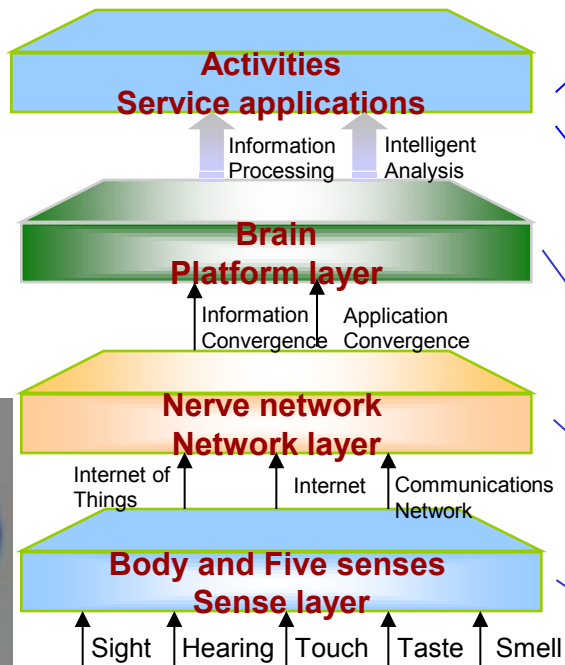
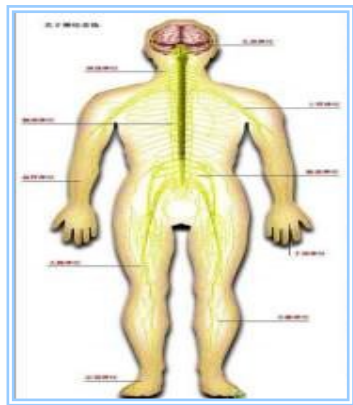
Innovative

Establish a clearly-defined city innovation mechanism

Coordination

Well-managed and coordinated city operations

Creating a Sensing System - Pattern of Smart City



Sense & Activities of an Smart City

- Intelligent Traffic Solution
- Urban Emergency Solution
- Digital City Management Solution
- e-Health Solution
-

- **Brain** of a smart city: VAE (Value Added Environment) and IDC(Internet Data Center)
- **Nerve Network** of a smart city: communications network, Internet, and Internet of Things
- **Neuron** of a smart city: M2M terminals and gateways
- **Nerve Ending** of a smart: wireless sensing network (WSN),IVS (Intelligent Video Surveillance)

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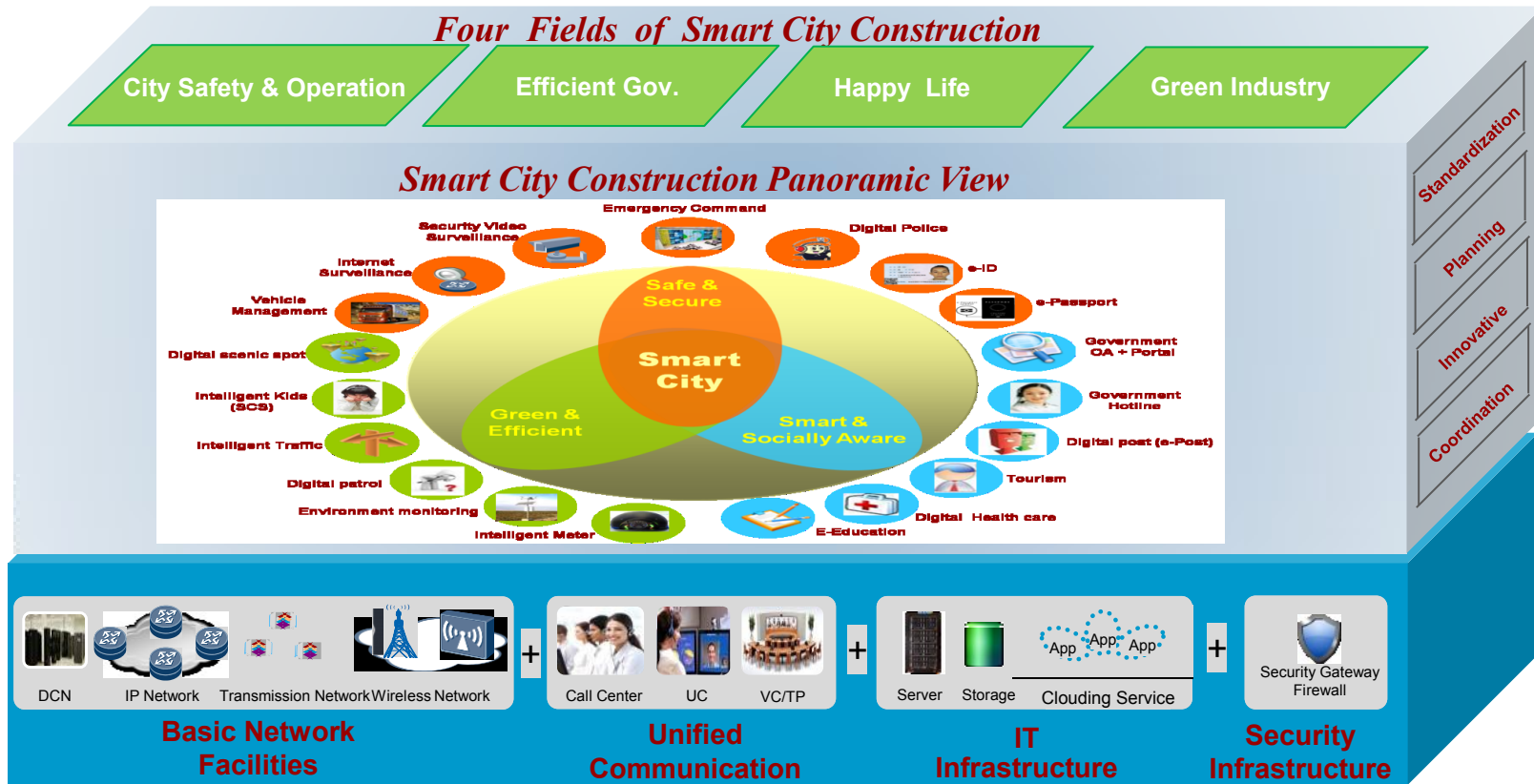
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Huawei Smart City Construction Vision



Smart City - Safety and Operation

National Security & Surveillance

Controlling power: Society entities like hot area ,public and vehicle



National Emergency Responding

The brain of Emergency command center



Cyber Police

Controlling power: virtual network, carrier network



**Multi-dimension prevention, Integrated command,
Comprehensive Controlling**

Smart Services Everywhere



Smart Cards



Account Management



Countermand



Payment



Financial Service



Virtual terminal



Finance/Government
7X24H Non-Stop Services



Remote Client



Airport Lounge



Hotel



Rural District



Habitant District

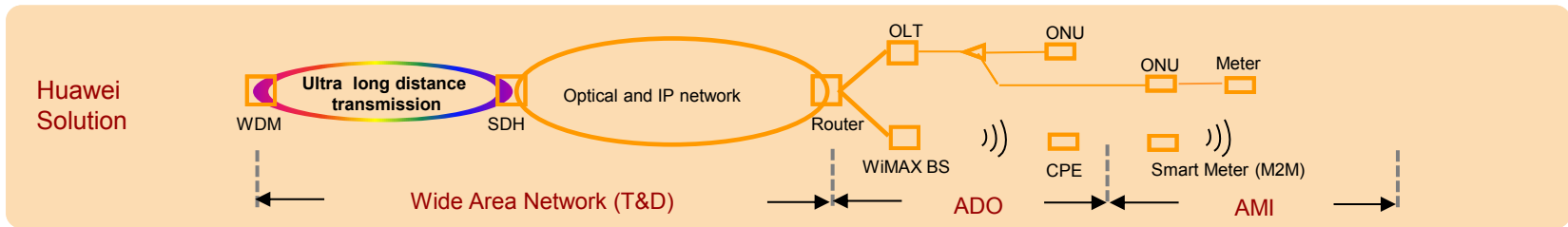
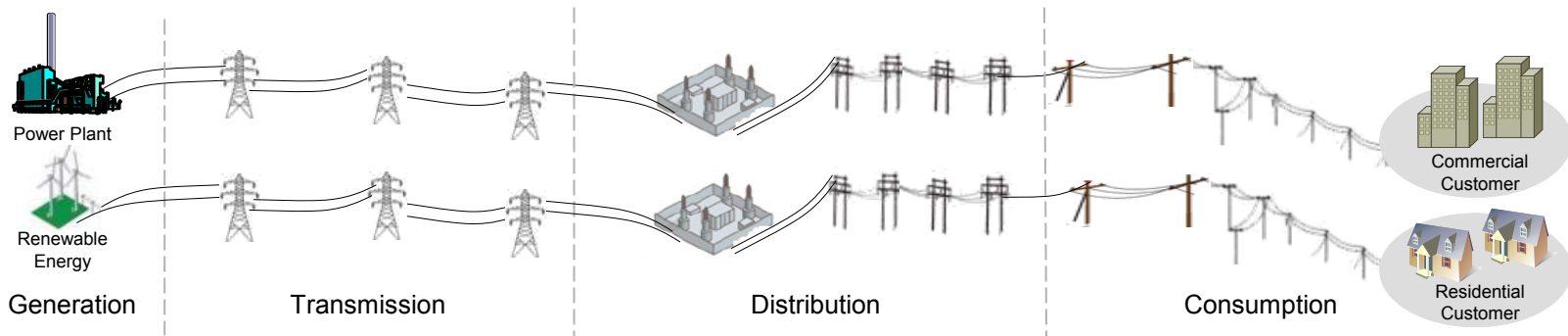


Office, Market

Smart Transportation - Make Life More Convenient



Smart Grid



- **Improved smart grid communication structure:** End to end real-time, high-speed and bi-directional communication, elevate dispatch efficiency, reduce manpower costs, enhance power grid security and reliability
- **Ease of maintenance:** Designed with unified network deployment and management to reduce operating expense

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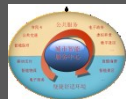
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The Future Smart City



From IT-oriented to people-oriented, application will face the new demands of human society development and new expansion.



From a single dispersed Infrastructure towards a new generation of broadband, integration, intelligent, mobile, ubiquitous of Internet infrastructure.



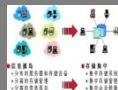
A new generation of information technology (cloud computing, Internet of things, big data, mobile Internet, space information) will be the Sensing System to support Data Sharing.



From an Application Based Digital World to a new Automated, intelligent and Smart Application interaction



Big Data integration drive to support innovation and decision-making.



Application from led by IT technology, turn all-round to information resources use and development



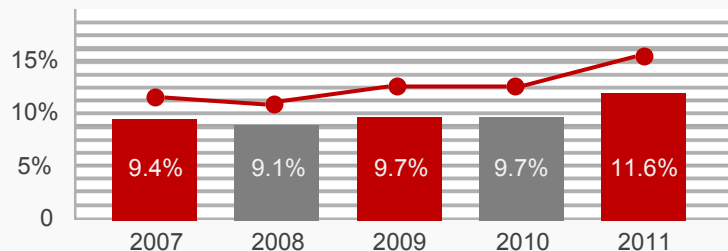
Continuous Investment in Innovation

R&D investment



- **USD \$4.5 billion** in 2012
- **70,000** R&D employees
- **15** R&D centers (6 in Europe and 5 in North America)

Continuous increase in percentage of R&D investment to total sales revenue



Standards and patents



Standards

- Membership in **150** international standards organizations such as IEEE, IETF, DMTF, Continua, and HL7
- **180+** positions in international standards organizations
- **23,000** standards - related manuscripts



Patents

- **39,209** patent applications in China; 11,314 PCT patent applications and 12,477 patent applications outside of China.
- **26,539** patent applications granted (by June 2012).



Huawei: A Better Partner for Smart Cities Development





HUAWEI

Huawei Enterprise *A Better Way*