### **Smart City, Connect the Future**

**China Mobile** 





1 Overview: Smart City Located Everywhere

2 Discovery: Smart City with Infinite Potential

3 Execution : Successful Story of Smart City

4 Prospective : Bright Future of Smart City

#### Global Overview: Smart Cities are Growing at Tremendous Speed



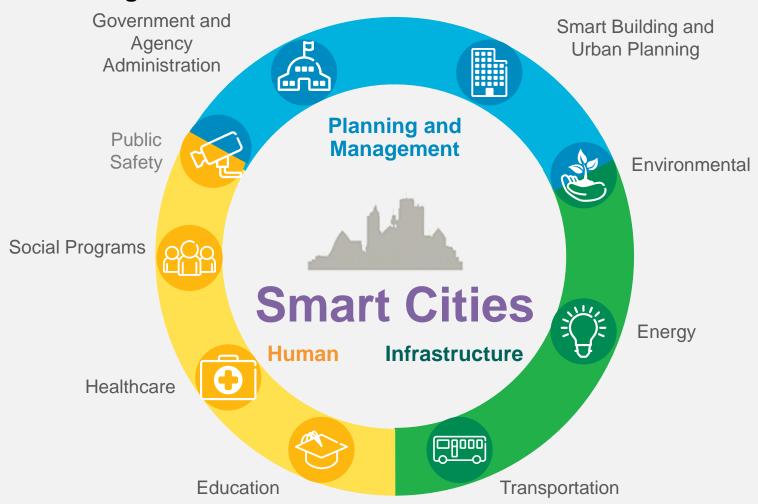
- Back in 2002, Philadelphia became the first one came up with the concept of "Smart City", and brought up the "Wireless Philadelphia" Project in July, 2004. It was the first city to start developing a smart city
- By 2012, there are more than 1000 planning smart cities globally. ABI predicts that there will be more than 3500 smart cities by the end of 2015, covering more than one million square kilometers



# **Business Scope: Covering Daily Lives, Governance, Infrastructure**



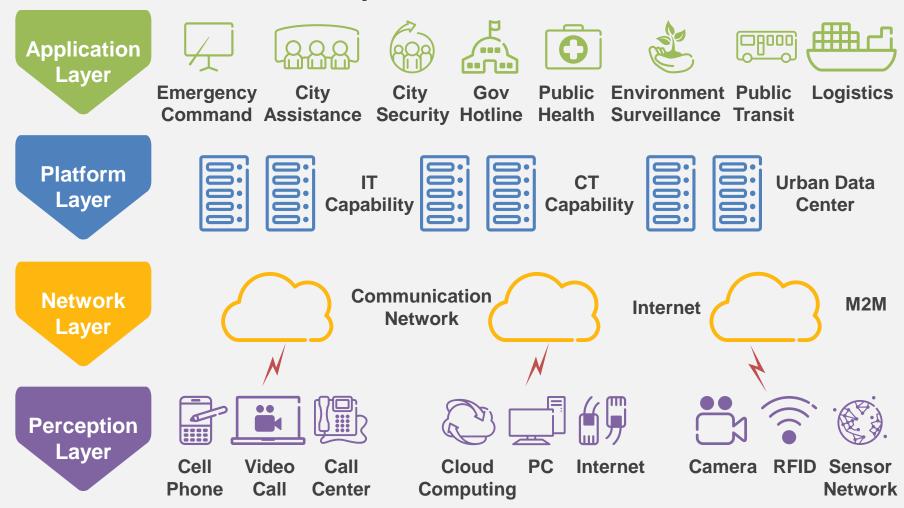
☐ Facilitate green and harmonious business, create pleasant lives and form an efficient government



## Strategic Plan: Connects Citizen and their Government



☐ Accumulate UGC, enhance user experience, and construct a "Wireless Information Service" ecosystem





Overview: Smart City Located Everywhere

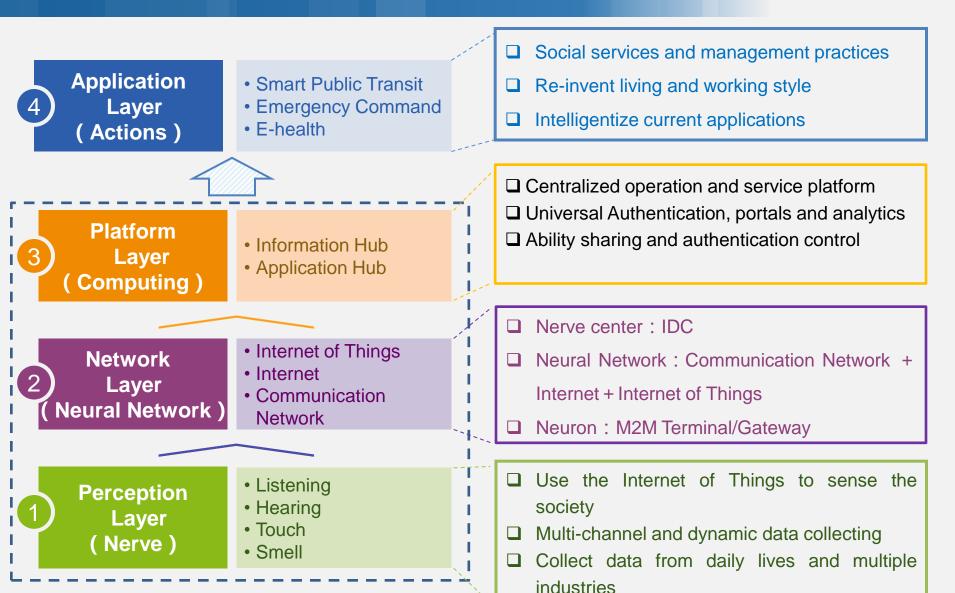
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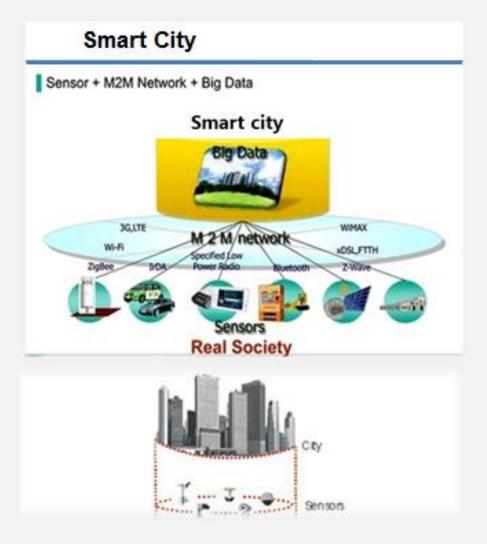
#### **Building a Sensing System, Supports Smart City**





### **Sensing the City: Capture Information Timely**

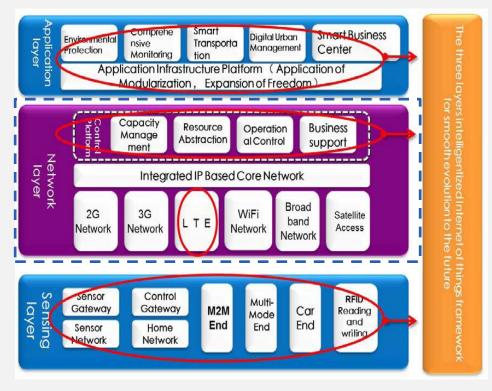




- ☐ Sense, fetch and process all the information in the city collected by IP Cam, RFID, Sensor Network, etc.
- ☐ Introduce big data technology to bring intelligence to information. Collect, store, integrate and excavate the value of data. Big data is the key to turn a digital city into a smart city

#### **Building Nerve: Sensitive Perception & High Speed Network**





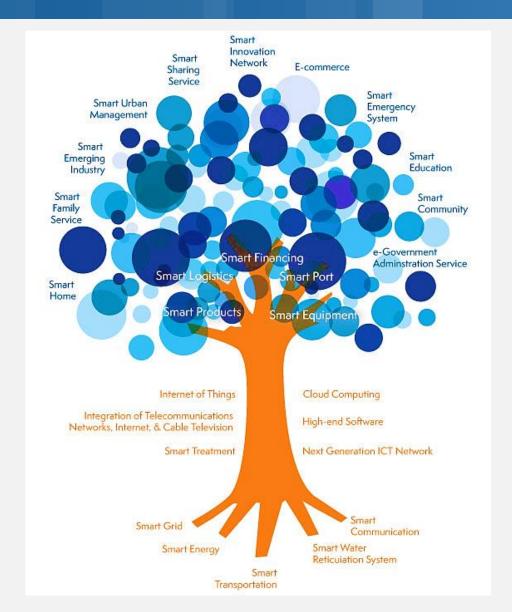
**Efficient Network** 

Smart & Convenient

- ☐ Communication Network, Internet and M2M network constitute the neural network of smart cities
- □ WLAN (802.11) is the primary network access, HSPA/ LTE will dominate
- ☐ New technology like HSPA/LTE can help transferring data to the urban computing center to process

# Building the Brain: Application Integration and Information Aggregation Platform





#### ☐ Industrial Development :

Stimulate industrial development and overall urban development by opening abilities

□ Application Integration :

Gather Applications, encourage application coordination and integrate applications

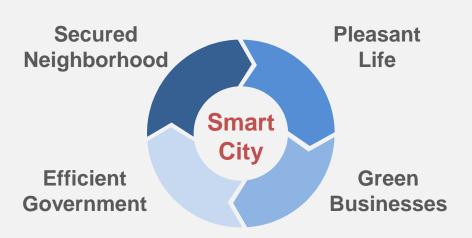
☐ Information Aggregation:

Unify network access and data handling, boost information sharing

#### **Abundant Services: Safe, Convenient and Thoughtful Applications**







- ☐ One-Stop Local Information **Service Platform**
- Provide local government info, public services info, local service inquiry. Online utility payment, online reservation, etc.
- ☐ Service Platform for Urban **Management and Industrial Application**

Implement the M2M technology to gather info from industries, and provide management assistance



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#### China Mobile's Smart City Project is Under Rapid Development



- More than 160 cities have signed to build smart city
- Smart City Portal is online inregions
- □ Nearly **10,000** Applications
- □ Approaching 6 Million Users

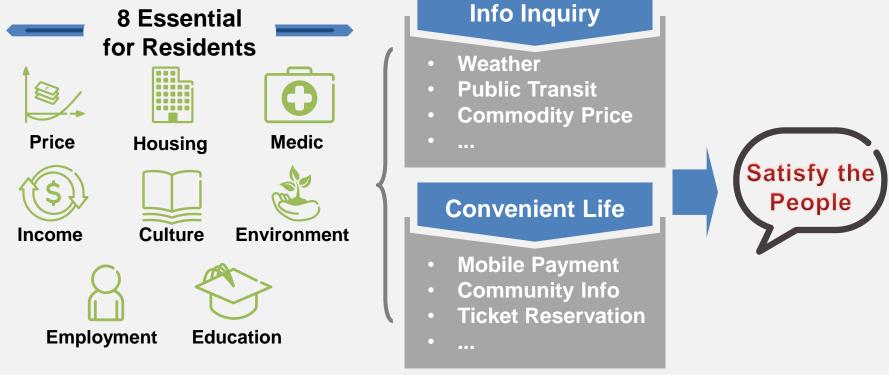


Build City-Wide Info-Service Platform and Service System for Personal, Business and Government Users

# Livelihood (Personal Users): Optimize Service to Help Enjoy Wireless Life

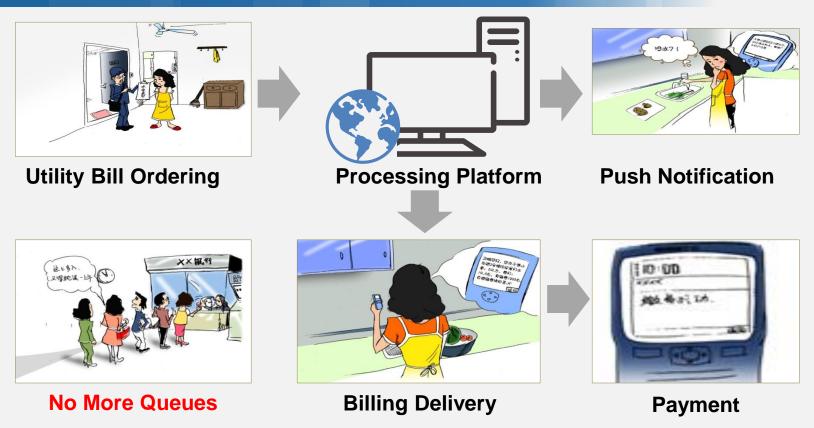


- □ Smart City provides various livelihood related services and applications to its people. Residents can check out government info, public service info, local info, etc. on their cell phone or other mobile devices whenever, wherever they want:
  - Info Inquiry Makes daily life Easier: Weather Report, Commodity Price, etc.
  - Convenient Life Serves People Better: Mobile Payment, Ticket Reservation



#### **Case: Utility Payment in Shandong**





- □ **Utility Inquiry and Payment : Provide** function including billing delivery, mobile payment and push notification. Users will be prompted to check and able to pay for utility via cell phone
- By the end of 2012, more than **1.4 million** Shandong residents have used Smart City services, more than **1 million transactions** completed

# City Management and Service(Gov. Users): Digital Administration Info, Benefits the Society



- Based on communication network, internet and M2M, smart city can help modernize city management, improve the management efficiency, service quality and emergency response.
- ☐ Smart City is now applied in Crisis Management, Environment Monitoring, Traffic Control and Infrastructure Management.

Disaster/
Emergency/
Evacuation
Management

Construction
Site Environment
Monitoring and
Control

Real Time Traffic Info / Low-Carbon Public Transit / Smart Traffic Control Remote
Streetlight and
Sewer Cover
Management









#### **Case: Noise Monitoring (Fujian)**





首页 > 实时环境监控平台

#### 噪声||空气||臭氧



#### 安静小区监控点

每韵园 东屏山庄 万科金域蓝湾 爱琴海 山水芳邻 天泉富邑 赤岭小区 石泉千休所 育青嘉园 新莲花新龙山 瑞景公园 文兴隧道 亿力百家苑 龙山山庄 龙山二期 碧湖花园 汇丰家园 国茂花园 慧景城 信隆城 大洋山庄 金海公寓 名仕御园 凤凰山庄



**Construction Site Noise Monitoring** 



Residential Community
Noise Monitoring

- Noise Monitoring: Auto collect and store noise data via M2M network consisted of sensors, wireless network and applications. Mainly implemented in construction site and residential community
  - Construction Site: The system is now part of the standard monitoring tools of Xiamen Government. It has been used in more than 46 sites and reduced complaint rate by 77%
  - Residential Community: Implemented in 24 communities, serving 200 thousand residents

#### Case: Smart Bus System (Xiamen)



- "Mobile Bus Inquiry" is a mobile app that has not only basic functions such as bus schedule inquiry, but also advanced functions, e.g.: bus positioning, notification upon bus arrival, etc. owing to the M2M technology
- ☐ In Sep. 2012, PV exceeded 8 Million, reduced 61.3% waiting time, 23.6% of congestion rate, and 41.8% delay rate, total on time rate is raised to 95.2%







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### **Prospective: Everywhere, Everything, Almighty**







**Smart Health Service** 

Morning:

**Register** online before visiting

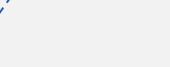
hospital



Noon:

Check-in

on the way **Smart** Travelling to airport



Afternoon: Checkout options

and discount and reserve for dinner



**Smart Dinning** 





**Transit** 

Early Morning:

Book a taxi or look up bus time table before

leaving



**Download more Smart** City related apps on **Mobile Market!!** 



Evening:

Watching movie with family, using tickets booked via cell phone





**Smart** entertainment

### Thank You!



