Huawei Company Overview

Revenue (USD in billion)

CAGR: 21%

Year	Revenue
2007	12.6
2008	18
2009	21.5
2010	27.6
2011	32.4
2012 (Target)	38.7
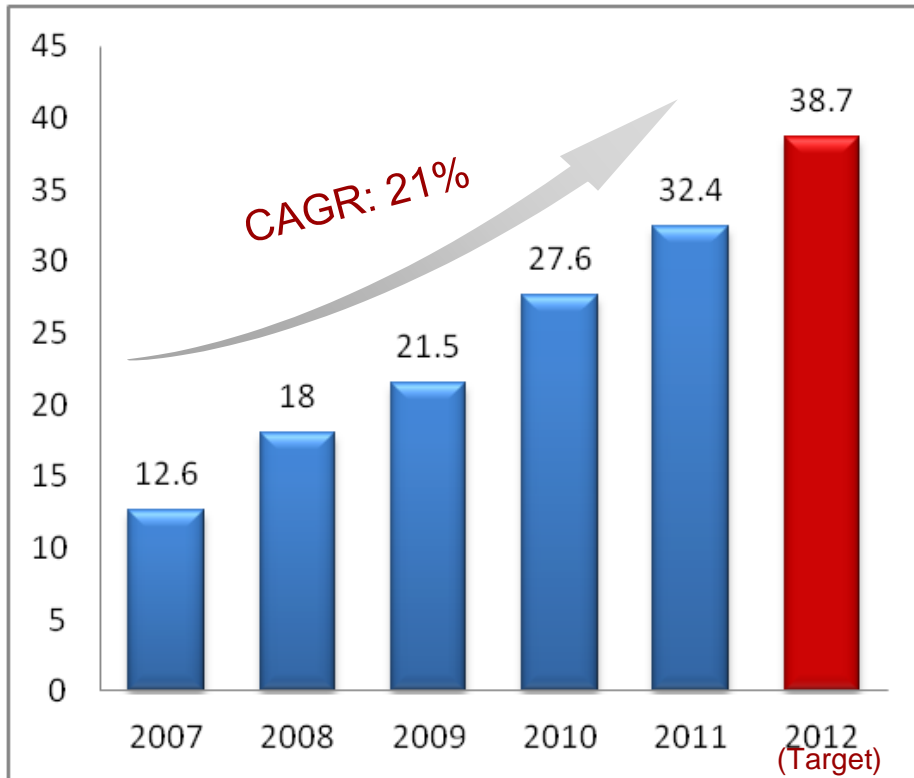
Huawei releases its Annual Report with consolidated financial statements audited by KPMG

- Leading global ICT solutions provider
- Serving 1/3 of the world's population
- Holding 180+ leadership positions in 130+ standard organizations, Main contributor of industry standards

140,000+ employees with 150+ nationalities worldwide

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Huawei in Hungary

150 employees

and **65 %**

are recruited locally

1 Europe Supply Center

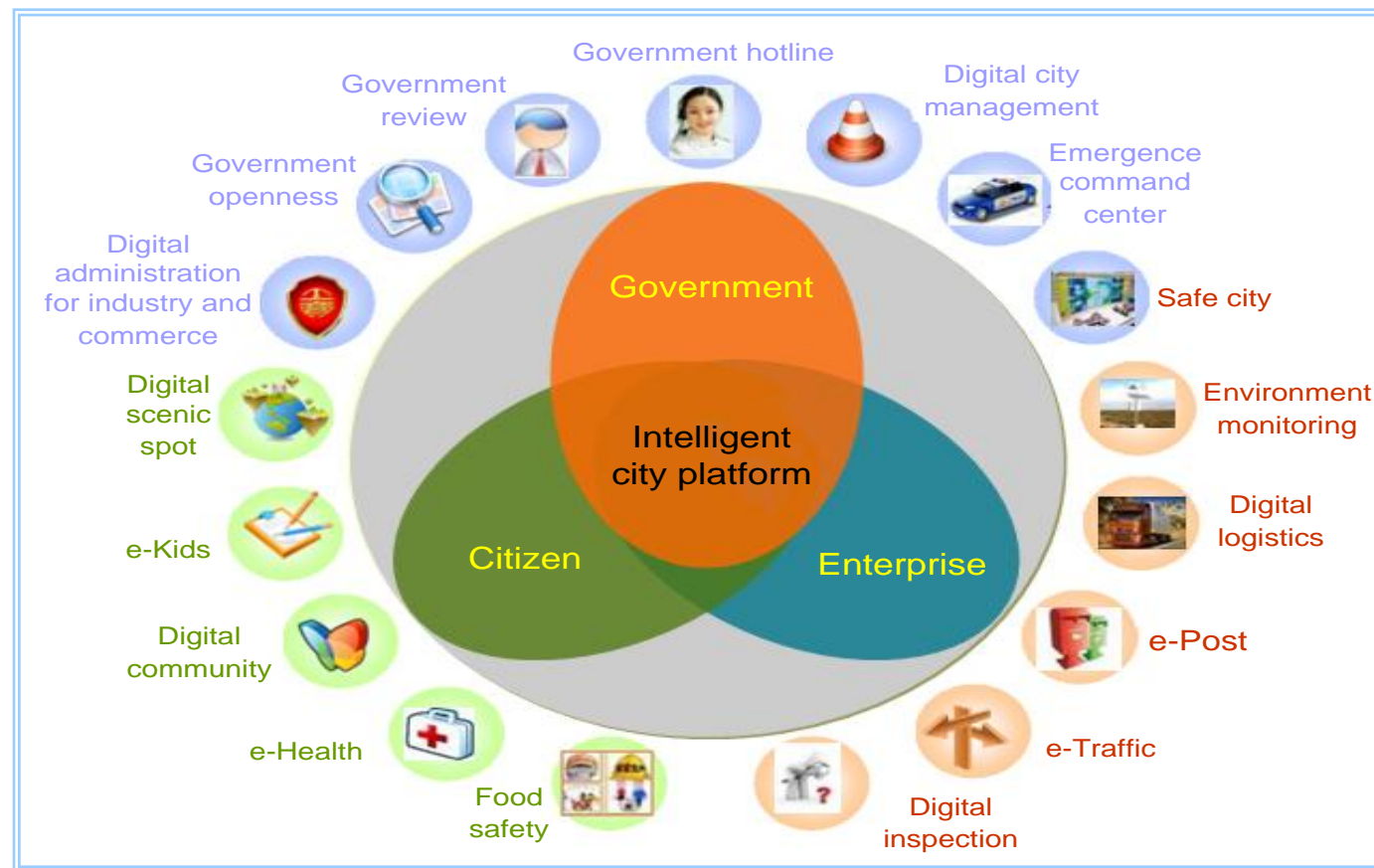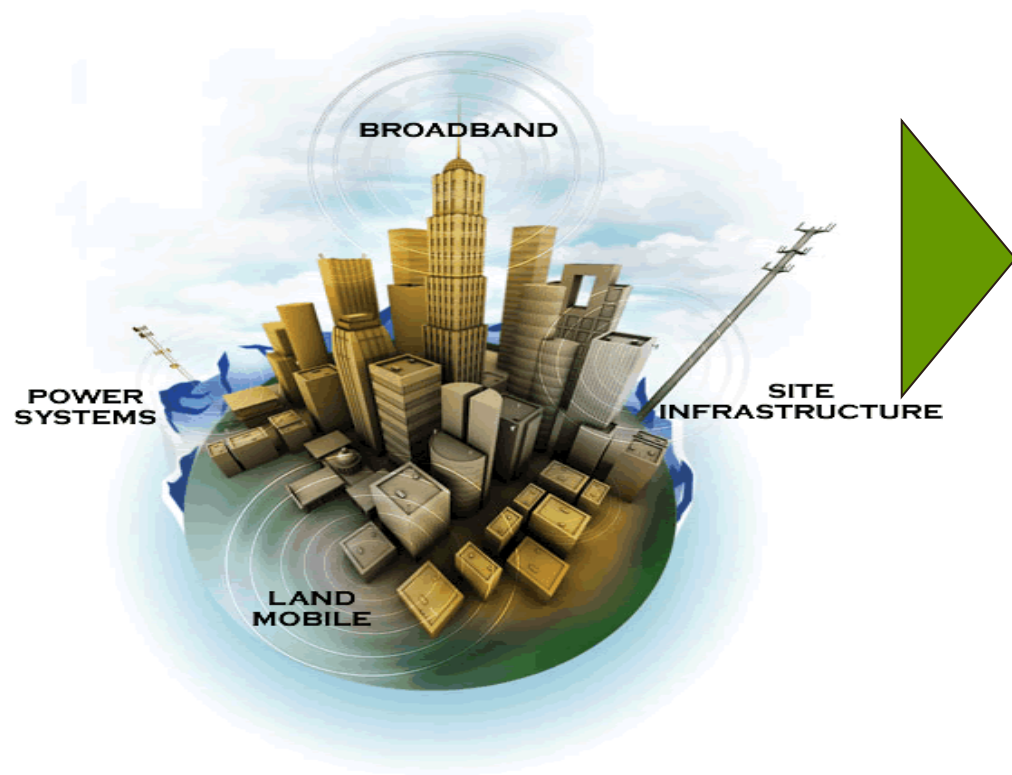**1** Europe Logistics Center

1 Spare Part Center

1000+

Job local opportunities created by ESC

1.11 Billion USD
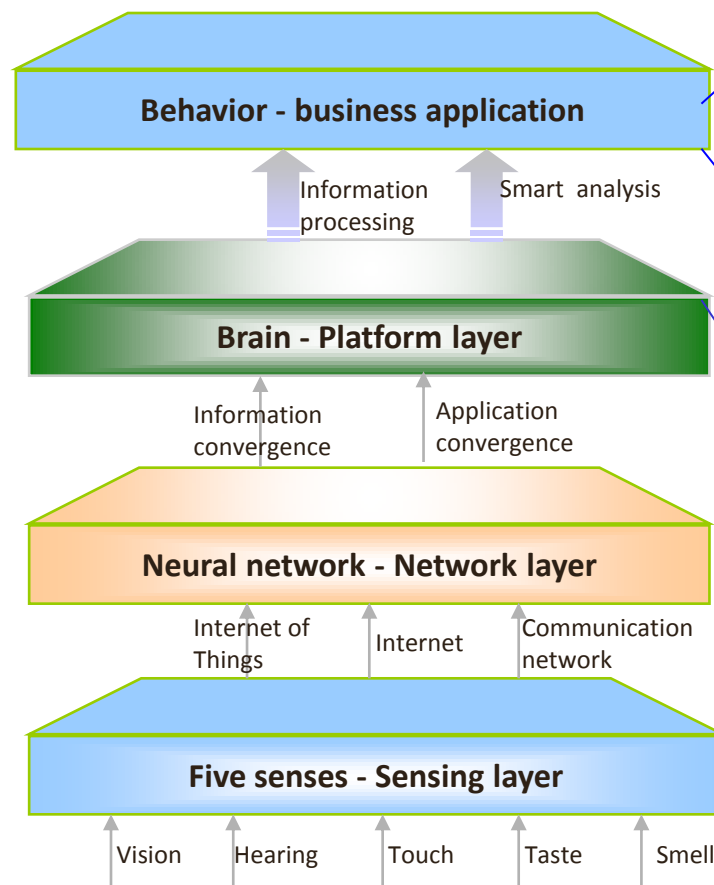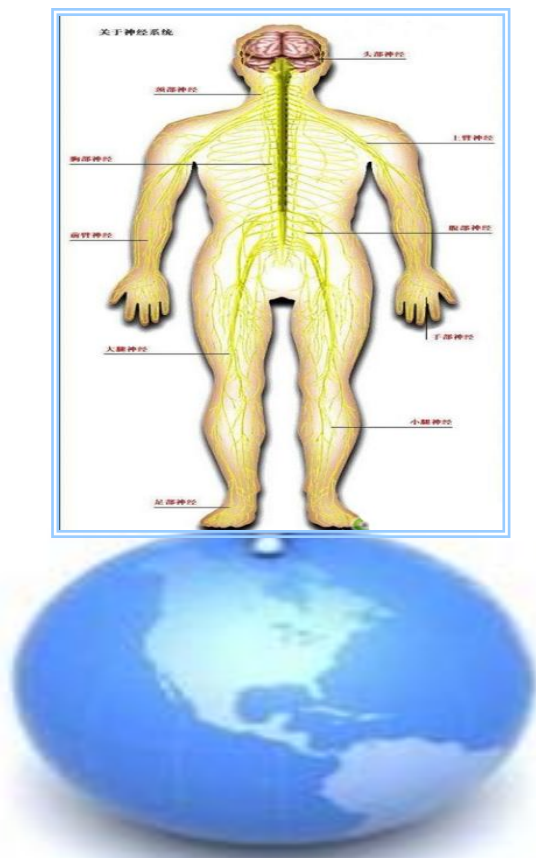
export value by ESC in 2011

Huawei Innovation Leaders of Tomorrow

Scholarship Program supports

75 young talents in 5 years

Future of "Smart"

Smart Model for Government & Cities

Sensing and activities of Smart cities

- **e-Traffic**

- **City emergency command center (ECC)**

- **e-Education**

- **e-Health**

.....

- Brain of the Smart city: **Smart City platform+IDC**

- Neural network of the Smart city: **communication network + Internet + Internet of Things**

- Neurons of the Smart city: **M2M terminals/gateways**

- Nerve ending of the Smart city: **wireless sensor network (WSN)**

Behavior - business application

Information processing   Smart analysis

Brain - Platform layer

Information convergence   Application convergence

Neural network - Network layer

Internet of Things   Internet   Communication network

Five senses - Sensing layer

Vision   Hearing   Touch   Taste   Smell

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Smart City ICT Technology Trends

Cloud City

- **Cloud Computing:**
  - *Public and private clouds will drive 15% of IT spending, growing at four to five times the rate of the overall IT market.*
  - *80% of new software offerings will be available as cloud services; by 2014, over one-third of software purchases will be via the cloud   (--IDC Predication 2011)*

- **IOT (Internet of Things):**
  - *"People-centric" is transforming to "People+ Object Centric".*
  - *Some Organizations such as ETSI,3GPP are making M2M standard*

- **Green, Security:**
  - *Government concerns Low Carbon, Sustainable Development more than before and raises the importance level of information security.*
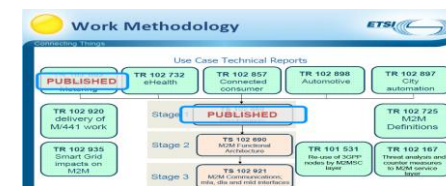
- **m-Gov (Mobile Govt.) :**
  - *330 million smart phones and over 42 million media tablets will be sold.*
  - *One-half of the 2.1 billion people connecting regularly to the Internet will access the Internet through (non-PC) mobile devices.   (--IDC Predication 2011)*
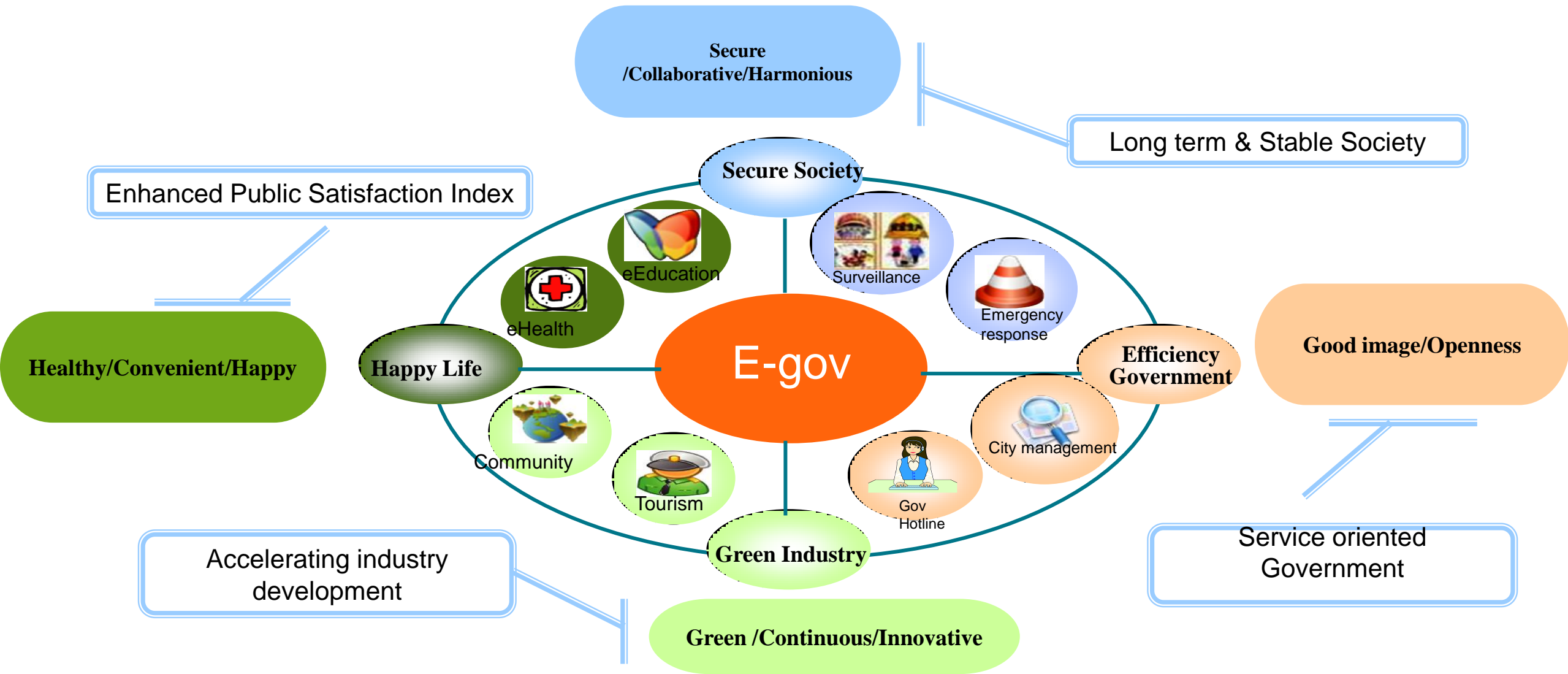
- **Citizen Participation:**
  - *Gov-as-a-Platform (Data Store, App Store）:*
    - *Citizens are empowered to create e-services together with the Government. ;*
    - *Citizens feel informed & involved to engage government on national policies.*

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What e-Government brings us?

Secure /Collaborative/Harmonious

Long term & Stable Society

Enhanced Public Satisfaction Index

Secure Society

eEducation

eHealth

Surveillance

Emergency response

Good image/Openness

Healthy/Convenient/Happy

Happy Life

E-gov

Efficiency Government

Community

Tourism

Gov Hotline

City management

Green Industry

Accelerating industry development

Green /Continuous/Innovative

Service oriented Government
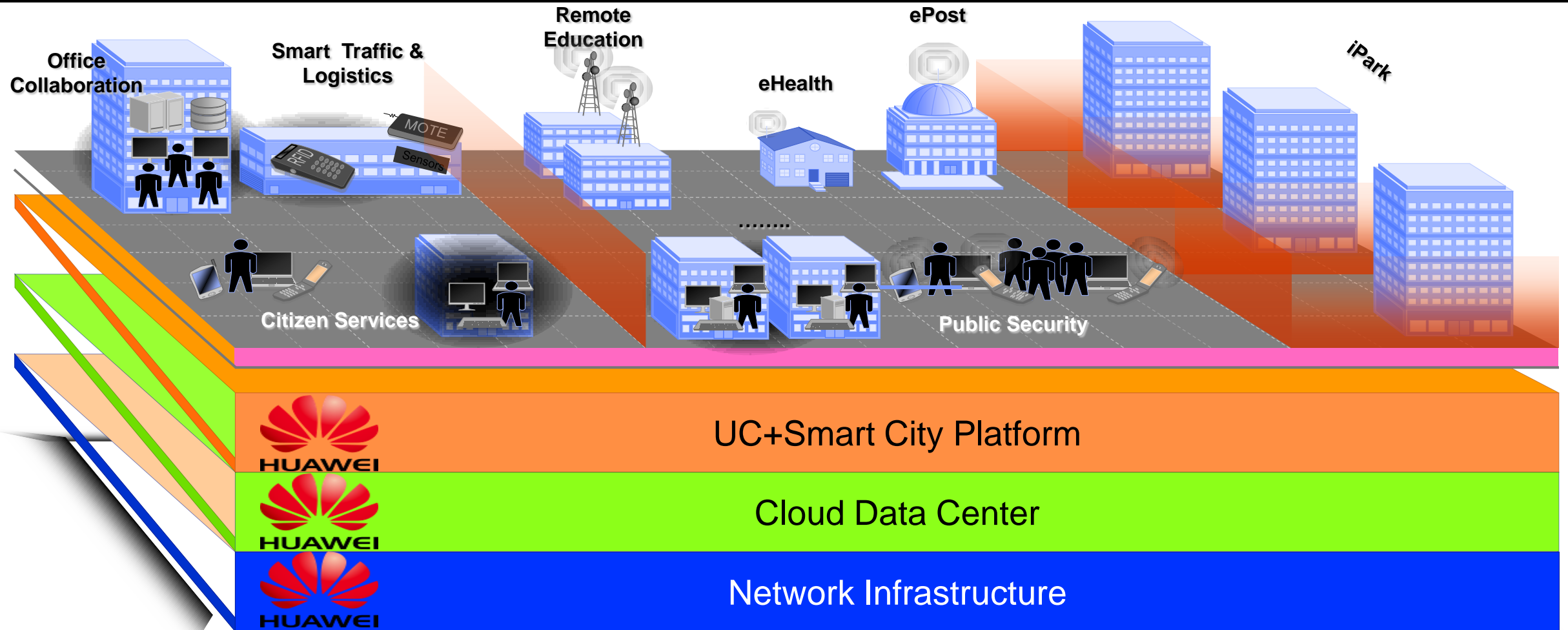
Overview of Smart City Solution

The Smart City requires **one unified platform**, **one city data center**, and **three basic networks**. Through the tiered construction, the platform capability and application are expandable to create a future-oriented Smart City system framework.

Office Collaboration

Smart Traffic & Logistics

Remote Education

eHealth

ePost

iPark

Citizen Services

Public Security

UC+Smart City Platform

Cloud Data Center

Network Infrastructure

Smart City management Project in Xi'an

Challenges

- Wide range of management and fast area extension, Many ongoing projects, requiring dynamic monitoring;
- High rate compliance from citizens on the disorder of public facilities :outdoor advertisement, street lamp, trees…
- Distributed employees working over the city , hard to mange and appraise the KPI，low working efficiency

Huawei Solution

- City management platform with plentiful mobile handset services;
- Wireless cameras deployed on the construction site;
- Business Intelligence support distributed employees management

Benefits

- Downsized staffing, and high working efficiency
- Entry of many enterprises and focus on the creation of an investment environment
- Many upscale communities, standard property management of the residential area, and friendly style

Mobile supervision/enforcement subsystem

Mobile monitoring subsystem

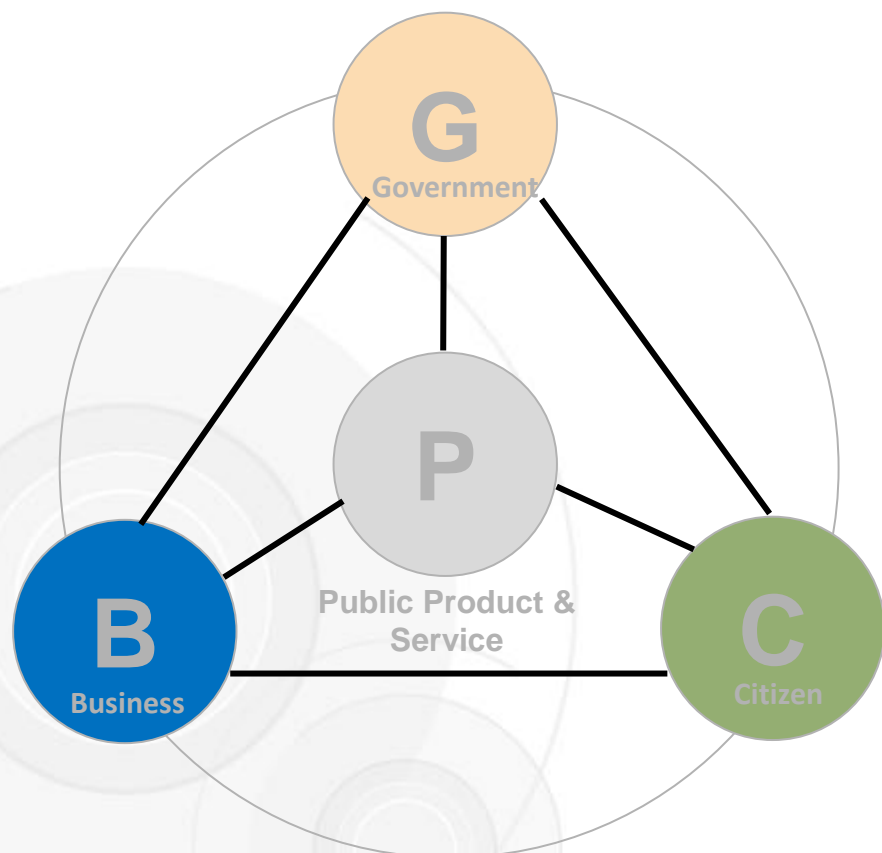**SM/multimedia message interactive subsystem**

Community/enterprise service subsystem

Unified City management model: GBCP

Economist View：Government is responsible for providing public products and services in order to achieve a stable and harmonious triangle relationship among Government-Business(Enterprise)-Citizen
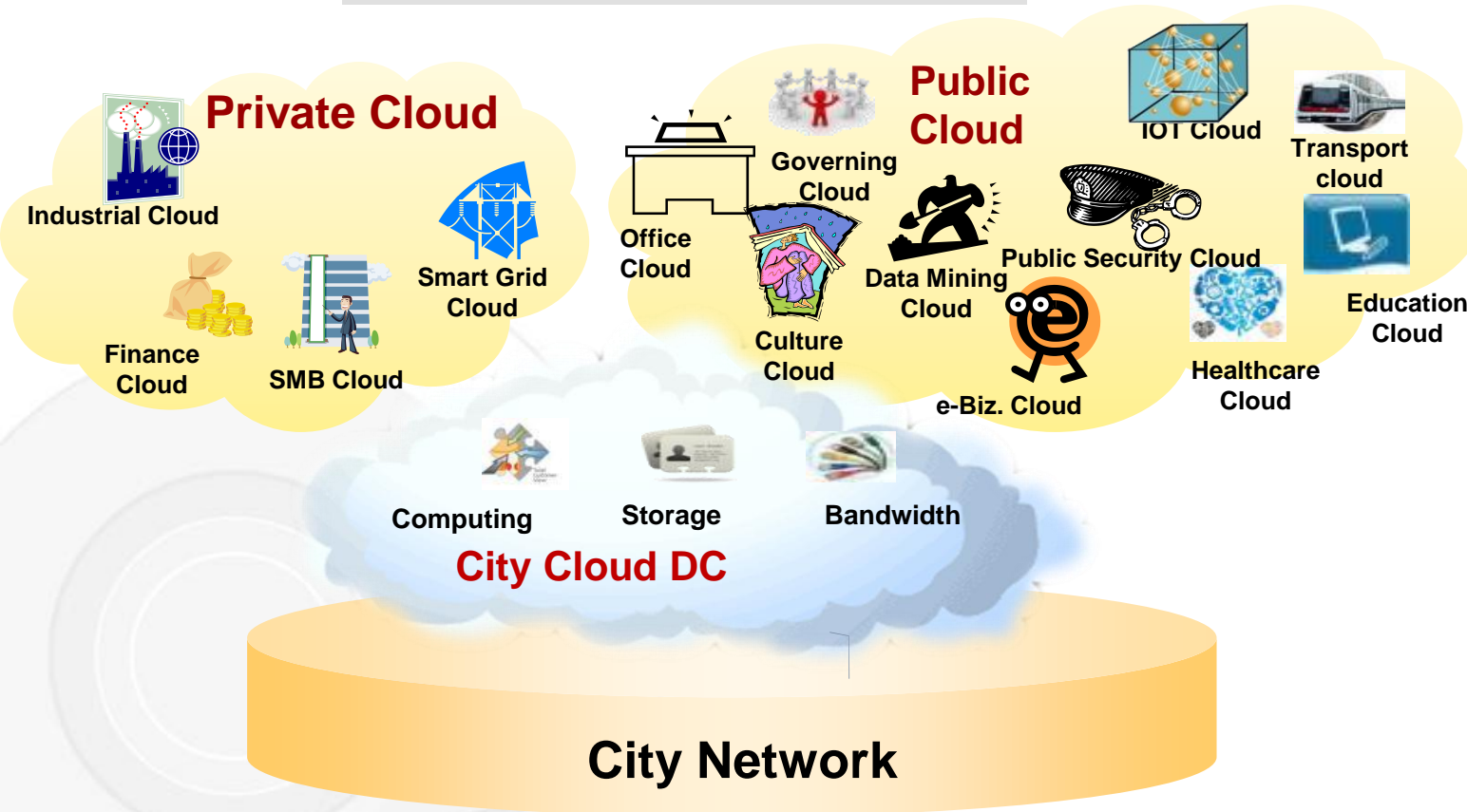
- **Public products including:** *public infrastructure & utilities, health, environment, transportation, education facilities & resources, etc.;*
- **Public services including**: *administrative services, civil application & complaints, crisis handling, rescue & recovery services, etc.;*

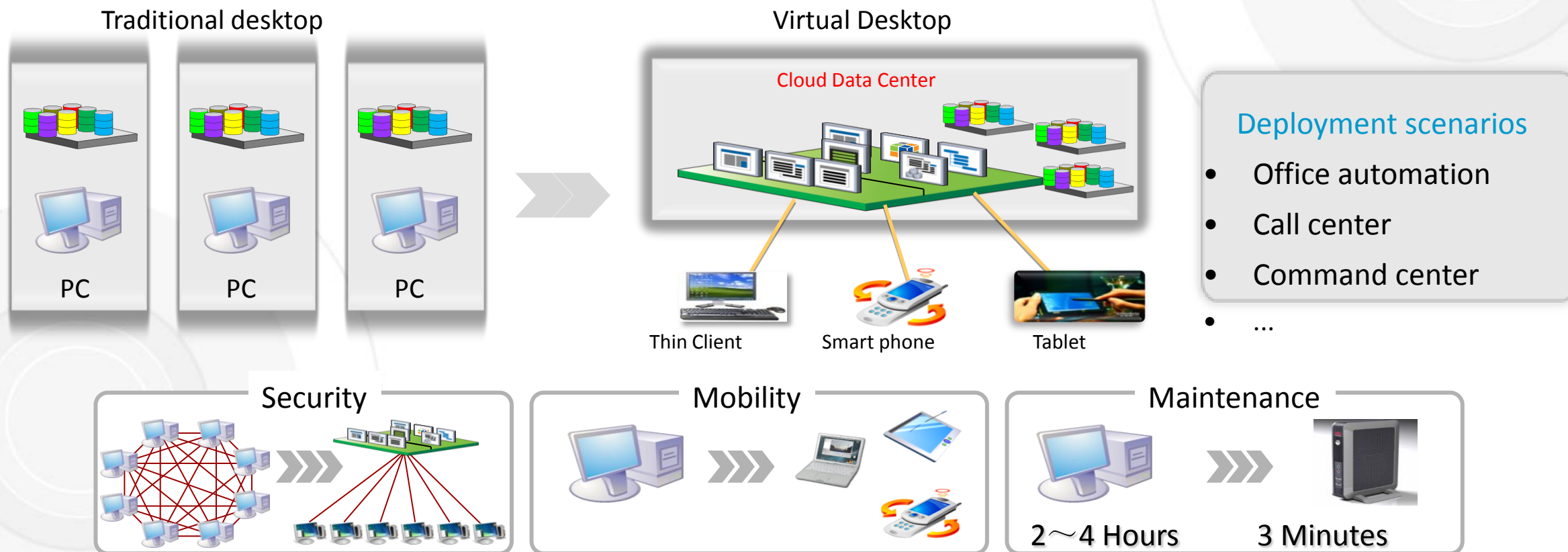| Objects	Information system
Core Leader-team	City management assistant BI , KPI supervision and evaluation
Service departments	City basic information collecting and analyzing; assignment dispatch; collaboration & coordination; command, supervision;
Public service related enterprises &agencies	Information sharing, assignment acceptation/disposal/feedback
citizens	Case report, suggestion, complaints, information feedback;

Case: Shenzhen Government Cloud Project (China)

Smart Shenzhen Design

Private Cloud

Industrial Cloud

Finance Cloud

SMB Cloud

Smart Grid Cloud

Public Cloud

Office Cloud

Governing Cloud

Data Mining Cloud

Culture Cloud

e-Biz. Cloud

Public Security Cloud

IOT Cloud

Transport cloud

Healthcare Cloud

Education Cloud

Computing

Storage

Bandwidth

City Cloud DC

City Network

- Shenzhen is one trial of "5 Cloud Cities of China" to build future digital city by cloud computing. ;
- Shenzhen Govt. is planning to build 14 cloud apps. based-on a unified city cloud platform
- Huawei has signed the strategic cooperation agreement with Shenzhen Government to construct the Healthcare Cloud, Transport Cloud, Data Mining Cloud, Education Cloud etc.

▪ **Smart Shenzhen -"One Center, One Platform, Fourteen Clouds"**

▪ **Shenzhen Government prefers to select the Huawei as its partner for Huawei 's branding ad accumulation on cloud projects.**

Fly High – above the Clouds: Secure & Efficient

Traditional desktop

PC   PC   PC

Virtual Desktop

Cloud Data Center

Thin Client   Smart phone   Tablet

Deployment scenarios

- Office automation
- Call center
- Command center
- ...

Security

Mobility

Maintenance

2～4 Hours   3 Minutes

Every staff have a private account. It's possible to access the Gov cloud platform at any time, anywhere and through any terminal.

One-Stop-Service Center for Shenzhen government

Challenges

- How to provide convenient services to Citizens and enterprises as an unified Government Window;
- How to Shorten Government audit & approval process among different government departments with efficient collaboration;
- How to support government process reorganization .

Huawei Solution

- Unified administrative service Platform with quick application launch time;
- Unified data sharing center to solver information isolation problem;
- Virtual internet government service center with embedded UC;

Benefits

- Good Government image of transparence and Openness;
- Flexible system to support government process reorganization and structure reconstruction ;
- Easy to us website Virtual Gov enhance civil satisfaction;

Powerful Data Processing Ability

---Providing Smart Behavior Analysis Functions

Real-time Monitoring

Event Detection

People number Count and Record

License Plate Recognition

E-police

Traffic Flow statistics

Shanghai Emergency Response System

- Citizens ask for quicker response to emergency events;
- How to handle emergency events with optimized distribution of resources;
- Police is urgent to improve working and collaboration efficiency among different teams

Huawei Solution

- Emergency Response System
- More than 2000 cameras deployed around the city
- The biggest scale in Asia

Benefits

- Centralized reception about various emergency events or alarms report;
- Centralized instruction to the emergency joint action of the whole city;
- Average 25,000 case reports a day, at most 70, 000 reports a day;
- Real-time videos transfer to the center;

Thank you

www.huawei.com