Be Smart – Huawei e-Government Vision

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Huawei Company Overview

- 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

Revenue (USD in billion)

- Huawei releases its Annual Report with consolidated financial statements audited by KPMG

140,000+ employees with 150+ nationalities worldwide
Huawei in Hungary

150 employees
and 65% are recruited locally

1000+
Job local opportunities created by ESC

1.11 Billion USD
export value by ESC in 2011

1 Europe Supply Center
1 Europe Logistics Center
1 Spare Part Center

Huawei Innovation Leaders of Tomorrow
Scholarship Program supports 75 young talents in 5 years
Future of “Smart”

Government:
- Digital administration for industry and commerce
- Government openness
- Government review
- Government hotline

Intelligent city platform:
- Emergence command center
- Safe city
- Environment monitoring
- Digital logistics
- e-Post
- e-Traffic
- e-Health
- Food safety
- Inspection
- Digital community
- e-Kids
- Digital scenic spot

Citizen:
- Digital community
- e-Kids
- Digital scenic spot

Enterprise:
- Digital community
- e-Kids
- Digital scenic spot
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)
Smart City ICT Technology Trends

• **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.
What e-Government brings us?

- Green Industry
- Happy Life
- Secure Society
- E-gov

- Healthy/Convenient/Happy
- Enhanced Public Satisfaction Index
- Accelerating industry development
- Service oriented Government
- Good image/Openness
- Long term & Stable Society
- Secure /Collaborative/Harmonious

- eHealth
- eEducation
- Surveillance
- Emergency response
- Green /Continuous/Innovative
- City management
- Gov Hotline
- Tourism
- Community
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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.
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 manage 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
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.;

<table>
<thead>
<tr>
<th>Objects</th>
<th>Information system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Leader-team</td>
<td>City management assistant BI, KPI supervision and evaluation</td>
</tr>
<tr>
<td>Service departments</td>
<td>City basic information collecting and analyzing; assignment dispatch; collaboration &amp; coordination; command, supervision;</td>
</tr>
<tr>
<td>Public service related enterprises &amp; agencies</td>
<td>Information sharing, assignment acceptance/disposal/feedback</td>
</tr>
<tr>
<td>citizens</td>
<td>Case report, suggestion, complaints, information feedback;</td>
</tr>
</tbody>
</table>
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 Design

- 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

Virtual Desktop

Security

Mobility

Maintenance

• Office automation
• Call center
• Command center
•...

Deployment scenarios

Cloud Data Center

Thin Client

Smart phone

Tablet

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 transparency 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

**Challenges**
- 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

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