

Smarter Nations on the way

Joe so Huawei CTO of Industry Solutions

LEADING NEW ICT

Agenda

- 1 Huawei Overview
- 2 Huawei Smart City Infrastructure
- 3 References
- 4 Ecosystem Lead to Win-Win Cooperation



Huawei: A Global Leader of ICT Solutions



Countries

228 **Ranking in Fortune** Global 500 (Jul 2015)



176,000 Employees



36

Joint Innovation Centers

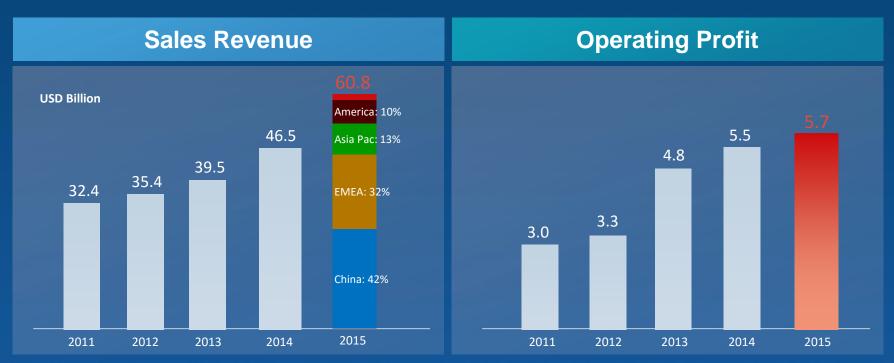


R&D Centers





Continuous Effective Growth

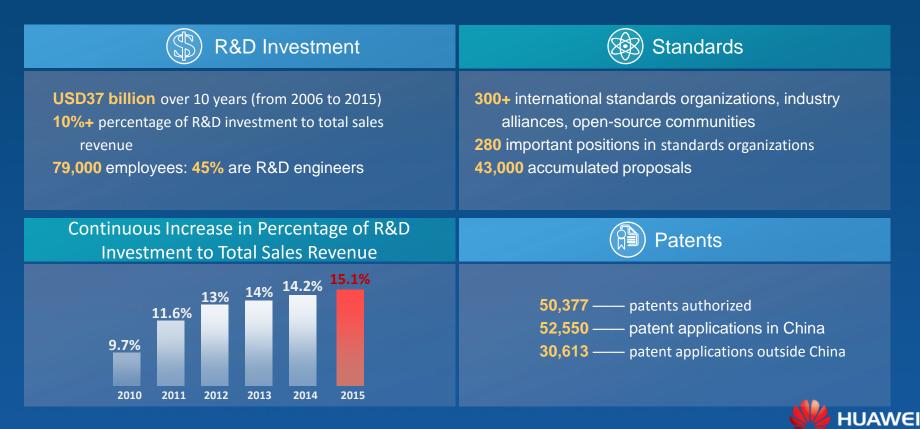


CNY is the company's functional currency. The USD figures are converted based on the exchange rate at the end of the corresponding year.

Exchange rate: US\$1 = CNY6.4927



Continuous Innovation Investment

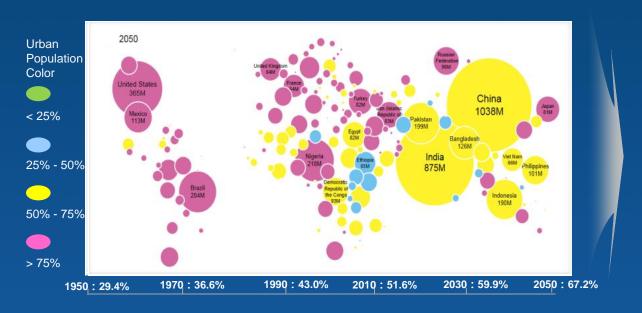


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Urbanization Brings More City Demands

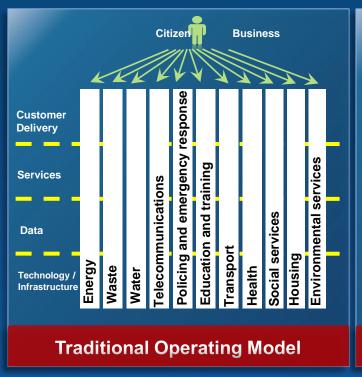


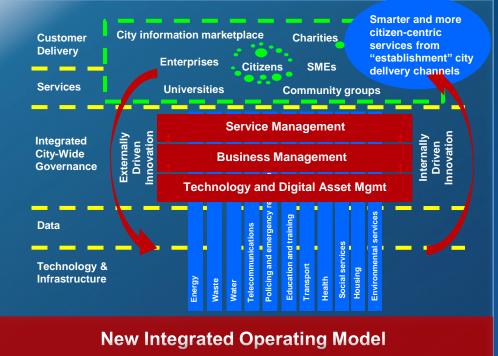


Source : An urban world map, SOWC2012 unicef



Integrated Governance Facilitates Smart City Transformation



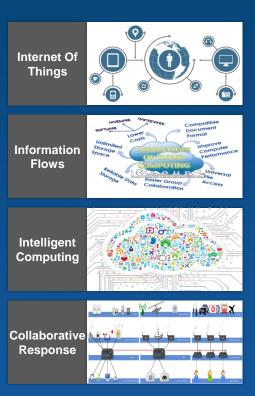




Huawei positioned as a Smart City Enabler

Urban Development, Security & Sustainability

Smart Safe City **Smart** Smart Traffic & **Utilities** (Emergency, **Buildings Transportation** Disaster. (Commercial (Grid, Water, (Bus, Train, Security, **Environment Mgmt)** Gas) Traffic Flow) **Environment)** Infrastructure Connected Sensor **Smart City Intelligence Intelligent Operations Center** City City **Applications Store** (Wireless, Fixed) (M2M / IoT) **Contact Center** MICE, Hospitality **Smart Homes Smart** Smart & Entertainment (Security, **Healthcare Education** Environmental. (Stadiums, Tourism, (Remote, (Remote, Convenience) Conventions) Hospital) School)



Social Development Communities, Villages, Citizens



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1.Safe Nation: Manage the uncertain threats









Natural Disaster

Crime case/Riot

Traffic Incident

Fire incident



Safe Traffic



Disaster warning



Safe city







Fire





Disaster Prevent

Office



Transport

Health



Cloud Data Center



Command Center





Multi- Terminal

Before the incident

Smart Sensing



Omni Protection

■Video Prevention ■Intelligent Early -Warning

During the incident

Smart Decision-Making



Rapid Response

- ◆Multi-Agency Collaboration
- ◆Empower the Field

After the incident

Smart Clue Analysing



Efficient Case-Solving

- Multi-dimensional intelligence
- Intelligent Analysis

2. E-ID: One Card for Everything







Self-clearance & Self check-in





Identity verification





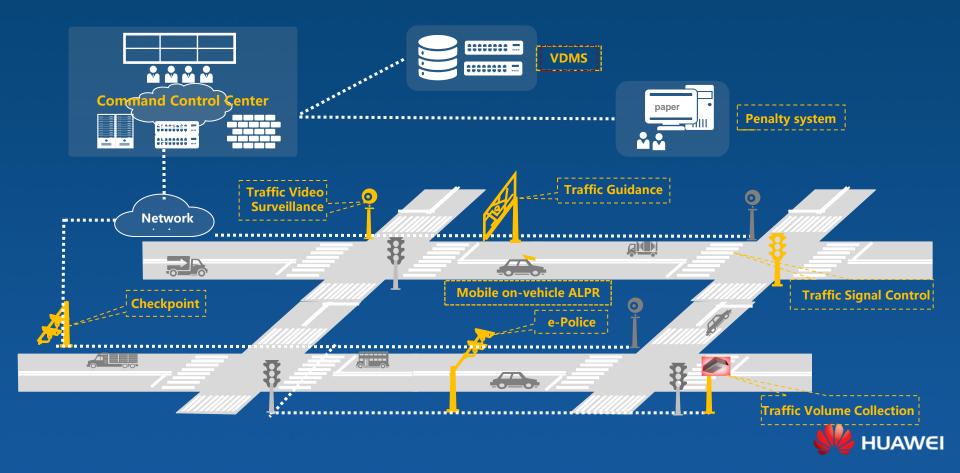
Real-name registration





Social welfare
HUAWEI

3. Smart Transportation, Advanced, Efficient and Safe



4.e-Government: Build Service-oriented Government



Office Collaboration



One Stop Service Hall



Mobile Office



OA & Document



Government Portal



Email System

Benefit



Government

- ✓ Improve government efficiency
- ✓ Enhance the image of the government
- √ Reduce the Government IT Cost
- ✓ Reduce the office handling time
- √ Standardize government management



Enterprise

- ✓ Make communication more convenient
- √ Fast response for administrative approval
- √ Make business inquires more convenient

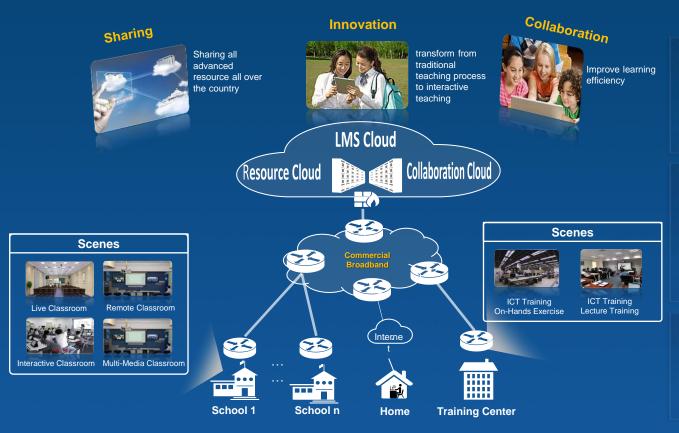


Public

- ✓ Real-time access to government information
- ✓ Enjoy quality public services



5.Smart Education: High Quality, Available for Everyone



1 Basic Infrastructure

- Agile Campus Network Solution
- School Interconnection Network
 Solution
- Safe Campus Solution

2 Cloud platform

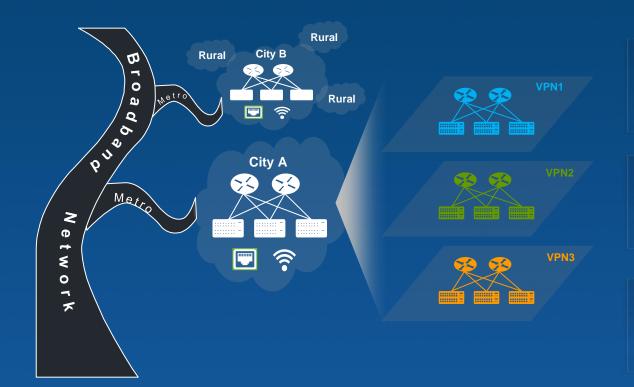
- Resource Sharing platform
 - Digital Library
 - > Online Learning
- Education Management platform
 - > e-Management

3 Smart classroom

- Interactive Teaching Solution
- Telepresence Live Classroom
- Solar integrated Classroom



6. Ubiquitous Broadband is the Foundation



Extension

Metro and access network is the extension of broadband.

Convergence

Focus on ubiquitous broadband by both wired and wireless network.

Security

VPN should be used by government and multi-industries, achieving investment efficiency and security.



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Global Best Practice Create Smart Future for Cities

Over 30 smart cities is building by Huawei in China, and we are supporting China govenrment to formulate national standard



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Smart City Panorama

Vision

Objectives

Tasks

Key Projects

Happy lives for public and sustainable city development

- ICT Infrastructure

- and new industry development & Services

 Eco-System with Management & Services
- improving the living environment

- Smart city service system that givers all major industries. Innovations districts
- cloud complinater and on big data, IoT, providing diverse

Smart Infrastructure

- Communications Network
- Government Network
- Sensing Network
- Cloud DC
- Big Data Center
- Info Security

Refined City Management

- **Grid Management**
- Safe City
- City Admin
- **Smart Transport**
- **Refined Operation**

Quality Living Environment

- Smart Environmental Protection
- Smart Water Affair
- **Smart Community**
- Low-Carbon City

Large-Scale Public **Services**

- Smart Education
- Smart Healthcare
- **Smart Pension**
- Smart Tourism
- Online Business Hall

Modern Industry Development

- Smart Industry
- Industry Upgrade and Transformation
- **Smart Campus**

Industry Upgrade and Transformation Project

Smart Education Project

Safe City Project

Smart Community Pilot Project

Smart Healthcare Project

Networking Project

City Public Service Platform

Big Data Platform

Basic Network Platform

Smart City Operation Center



Huawei Has Set Up Matured System to Support Partners

eSDK



- Open software /hardware capability
- . Easily integrated
- Support for forums /hotlines /emails

Open Lab



- Interconnection /interoperability test: 150
- Joint solution integration
 verification: 52

Joint Innovation



Joint innovation center: 31

Co-Marketing



- Joint Exhibition Hall
- Joint Collateral
- . Joint Event
- Joint Digital Marketing

ISV certification



- ISV certification:200+
- Trained technical engineers: 1000+



Open System + Best Partners, Bring Best Solutions

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Join us in building a better connected world

