Innovative ICT
Building a Better Smart City
Why are countries focused on “Smart City”? 

**Increase in Population**
- 2014: 7B
- 2050: >9B

**Increasing Urbanisation**
- Half the world’s population lives in a city – an increase from 30% 50 years ago
- 57% by 2025 (Frost & Sullivan)

**Cities significantly contribute to GDP**
- 70% of global GDP is generated by cities
- 37 of the World’s largest economies are cities

**GDP Growth 2007 - 2025**

Source: McKinsey
What is a “Smart City”? 

Very Wide Concept:

• Scope
• Content
• Global Trends
  • City Admin (Smart Transportation, Grid, Healthcare, Public Safety, Education, etc.)
  • Financing Models (Public-Private, Crowd, Green Bonds, Tax-Increment, “Pay-per-Use”)
  • Government Incentives
  • Technology

In essence: Very extended concept which requires long-term evolutionary process where nobody can do or make all alone
What is a “Smart City”? 

**Urban Development, Security & Sustainability**

- **Smart Utilities** (Grid, Water, Gas)
- **Safe City** (Emergency, Disaster, Security, Environment)
- **Smart Traffic & Transportation** (Bus, Train, Traffic Flow)
- **Smart Buildings** (Commercial Environment Mgmt)

**Connected City** (Wireless, Fixed)
- **Smart City Intelligence**
  - Intelligent Operations Center
  - Applications Store
  - Contact Center

**Sensor City** (M2M / IoT)

**ICT Infrastructure**
- **Internet Of Things**
- **Information Flows**
- **Intelligent Computing**
- **Collaborative Response**

**Social Development Communities, Villages, Citizens**
- **Smart Homes** (Security, Environmental, Convenience)
- **Smart Healthcare** (Remote, Hospital)
- **Smart Education** (Remote, School)
- **MICE, Hospitality & Entertainment** (Stadiums, Tourism, Conventions)
Business-Driven ICT Infrastructure (BDII)

Customer Value

Business Requirements

Vertical Industries

Drive

Enable

Applications

Industrial Applications (e.g. Telemedicine, Distance Education)

Drive

Enable

ICT Infrastructure

Product Innovations

Network  Cloud OS

Storage  Big Data

Server  Security

Enterprise Wireless  UC

Open API (eSDK)

ICT Convergence Capabilities

Cloud  Big Data

Social  IoT

Mobility  CPS

Huawei

App Developers

Drive

Enable
Which is the value of a global ICT vendor?

• Big investments in research and innovation (5G, IoT, Cloud, Big Data, UBB)
  • 170 Countries
  • 14% of Global Revenue invested in R&D
  • 80,000 R&D Engineers Worldwide
  • 31 Joint Innovation Centers globally
  • 3,400 International Patents in 2014

• Commitment to build a “Better Connected World” by supporting Countries’ & Cities’ Digital Agenda
  • Success=Healthy ICT Ecosystem
  • Healthy ICT Ecosystem=Open, Collaborative, Inclusive Approach

⇒ Speed-up Digital Transformation
What are the Key Steps to create a Sustainable Smart City Project?

- Standardization and Open Standard
- Private-Public Collaboration
- Dynamic and “Inclusive” Ecosystem (ESDC Munich, over 200 Solution Partners)
- Real Improvement of the Customer/Citizen Experience
- Public Funds to support the efforts
- Clear Priorities and Guidelines
Ecosystem towards a Smart City

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<th>Energy</th>
<th>Education</th>
<th>Healthcare</th>
<th>Government</th>
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- Schlumberger
- Infosys
- SNAPVIEW
- CISCO
- TIGER TMS
- Soljey
- BOSCH
- Seagate
- Intel
- Huawei
- IBM
- CMC
- RFCG
- SAP
- FedEx
- BAE & Company
- NVIDIA
- Huawei
- ASDC
- HGST
- Kingston
- VISON
- DR.COM
- SMART3I
- Hynix
- NETINFO
- CETC
- Sony
- Neusoft
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- Ehang Systems
- Sophos
- Citrix
- Pricenia
- Fujitsu
- Gartner
- IDC
- INTSIG
- LSI
- Alliance
- ARRAY
- YOKOGAWA
- ABB
- SoftStone
- TAIJI
- SMART INFOTECH
- Beijing
- United
- Microsoft
- COMTECH
- Siemens
- CEC
- Centerm
- BBTEK
- SIE

[Image of various companies and logos related to the Smart City ecosystem]
Huawei’s Footprints in More Than 30+ Countries

- Smart Transportation, Xian
- Smart City, Yanbian, Jilin Province
- Smart City Management, Cangzhou
- Smart Liaoyuan
- Smart City Management, Shihezi
- Safe City, Kalamay
- Smart City, Hefei
- Smart Shenzhen
- Smart City, Pakistan
- Smart Langfang
- Smart Emergency Command, Lao
- Smart Transportation, Maldives
- Smart City, Cambodian
- Smart City, Pakistani
- Smart Healthcare, Angola
- Smart City, Nigerian

Huawei takes part in 100+ Smart City plan and construction