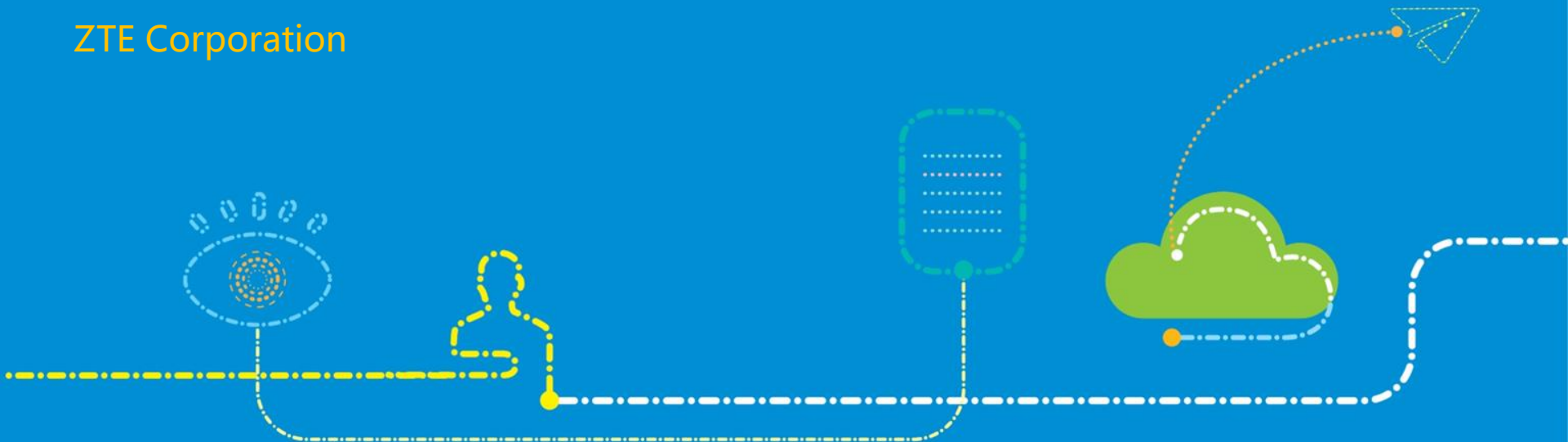


Smart City, Wonderful World

ZTE

Tomorrow never waits

ZTE Corporation





Goals for Urban Development

Urban Competitive
Power



Sustainable
Environment



Harmonious
Society



Smart City Solves the City Diseases



Environmental Pollution
Public Safety
Population Expansion
Information Island
Traffic Congestion
Poverty
Extensive Management
Slow Response
Shortage of Resources
Unemployment Problem

e.g.
Traffic Congestion:

Past

- CCTV, GPS, RFID.
- single module digitalization.
- Real-time traffic monitoring and publishing. Route planning.

Now

- Cloud computing, 4G, Video analysis and modeling.
- Data interconnection.
- Traffic lights group control. Real-time traffic induced.

Future

- Big data, Telematics, Active perception.
- Traffic big data analysis, mining and operation.
- Traffic prediction, Road network planning, Unmanned driving.

Global Smart City Strategies



E.U.



USA



Singapore



China

Strategies

Top-level design
"Europe 2020" program

One of the nine
national innovation
strategy fields

SNP 2025
Planning, deployment
and investment by IDA

National strategy
Thirteen Five national
planning, 500+ pilot cities

Features

Focus on **green low carbon** through top-level design, and emphasis on **sustainable development**

Amsterdam, Barcelona,
Copenhagen, London

Government funding and
resources integration.
Technological innovation.
Focus on applications

NYC, Columbus

Development of IOT and
data operations.
Data collection and sharing is emphasized

Singapore

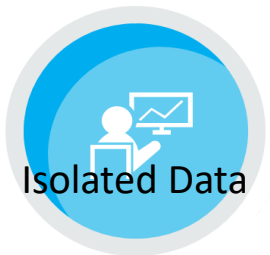
Decision-making
combine with data by
smart city

Yinchuan, Shenyang,
Qinhuangdao

ZTE' s Understanding & Innovation of Smart City

Smart City is a new idea and new mode for city development to improve the efficiency of urban management, to make public life convenient and to promote technical innovation, using ICTs such as high speed mobile internet, big data, IOT, cloud computing, etc .

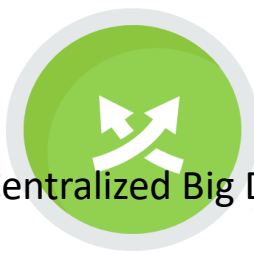
Smart City 1.0



Isolated Data

Single target,
decentralized construction

Smart City 2.0



Centralized Big Data

Overall planning of target,
architecture and resources

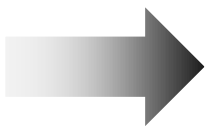
Smart City 3.0



Big Data Operation

People-oriented. With big data as
the core, to achieve great
collaboration by great connection

**more innovations of
ZTE Smart City 2.0**



- Cloud Network Map Top Level Design
- Big data cloud platform

Innovation 1 — Cloud-Network-Map Top Level Design



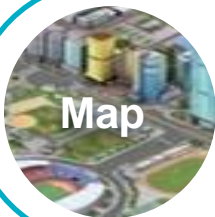
Cloud

- Interconnect multiservice and centralize data resources in Clouds. Smart applications based on big data tech.
- Key Tech: **Distributed storage & computing, vDC**



Network

- Ultra-speed, sharing and secured transmission and sensing network. Infrastructure for IoT and Industry network.
- Key Tech: **4G Wireless government network, FTTH**



Map

- Intelligent sensors and interconnected components in one map. Above ground, on ground and underground real 3D spatial map.
- Key Tech: **GIS/BIM, RFID, Electronic license plate**

Innovation 2 — Big Data Cloud Platform (UOC)

Big data exchange and analysis platform

Capability
Open

Development
Environment

Running
Environment

Test
Environment

Urban
Basic
Database

Macro
economy
population

Geogra
phical
space
legal
person

building

Subject
Database



Data-mining and
Analysis



Data Sharing and
Exchanging
System



Applications

Government



Government big data
@ Yinchuan

One-stop public services
improve efficiency by 78%.
Support government reform.

Enterprise



Enterprise big data
@ Yinchuan

Provide 200+ types of services,
Serve 1000+ enterprises.

Citizen



Transportation big data
@ Ningbo

Provide 30+ public
transportation services,
800,000+ active users

Successful Case Study: Smart City 2.0 in Yinchuan



Full-view 3D GIS
"Positioning and
Analysis"



Smart Network



IDC



Big Data Cloud
Platform



Premier Li
Keqiang visited
Smart Yinchuan in
2016/2/2



Smart
Government



Smart traffic



Smart
Environmental
Protection



Public Safety



Smart Community



"TMF President
Award" in 2015



Citizen Card



Enterprise Cloud



Smart Tourism



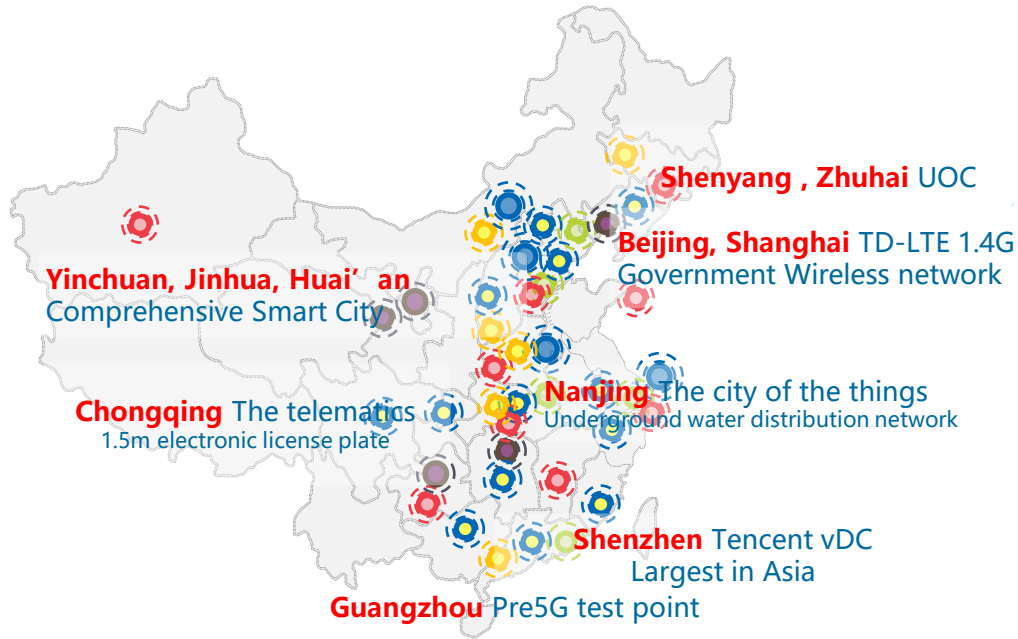
Smart Healthcare



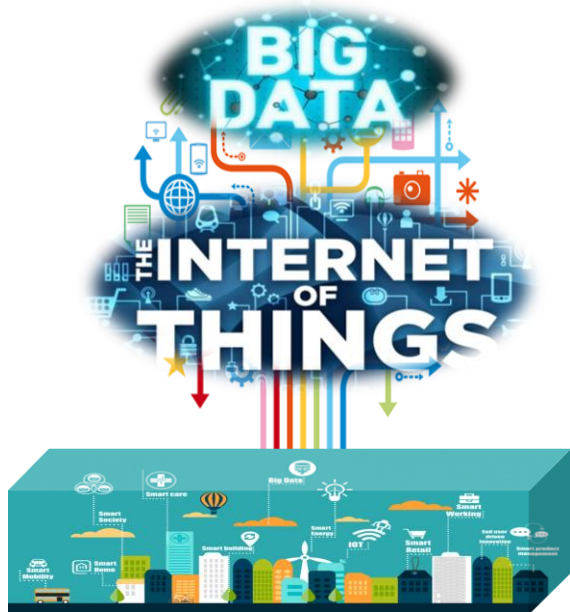
TMF(Yinchuan)
Smart City Joint
Innovation Center

10 System and 13 Sub-Modules

Deployment in 140 Cities in 40 Countries



Smart City 3.0 Prospect



**Highly Developed
ICT
Infrastructure**

Active perception, Perception
Crowdfunding, Neural network,
Self-learning
Pre5G , 400G , LoRa , NB-IoT



**Standardized
Open Big
Data**

Data Standard, Quality,
Privacy, Security
Data API service portal



**People-oriented
Application
Operation**

Public participation & decision
Crowdsourcing & crowdfunding
Collaboration of government,
enterprise & citizen

Summary

ZTE Smart City 3 innovations:

- ✓ **Cloud Network Map Top Level Design**
- ✓ **Big data cloud platform (UOC)**

Smart City 3.0 Prospect:

- ✓ **Highly developed ICT infrastructure**
- ✓ **Standardized open big data**
- ✓ **People-oriented application operation**

Smart City is a new ecosystem and requires the engagement of the whole society.

Globally connected smart cities create greater data value.

Thank you



Tomorrow never waits

