

FIESP – Workshop: "Cidades Inteligentes"

ZTE Smart City Brief and Cases

Tarcisio Pilati, 2016
ZTE- Governo e Empresas

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01 Smart Cities ZTE – Overview

02 General Cases

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ZTE Concept of iCity



- ✓ Green
- ✓ Interaction
- ✓ People-Oriented
- ✓ Improve people life



- √ Onen
- √ Value-added operation
- ✓ Extendable & Dynamic
- ✓ Making the complex Simple



A smart city enables a better life!



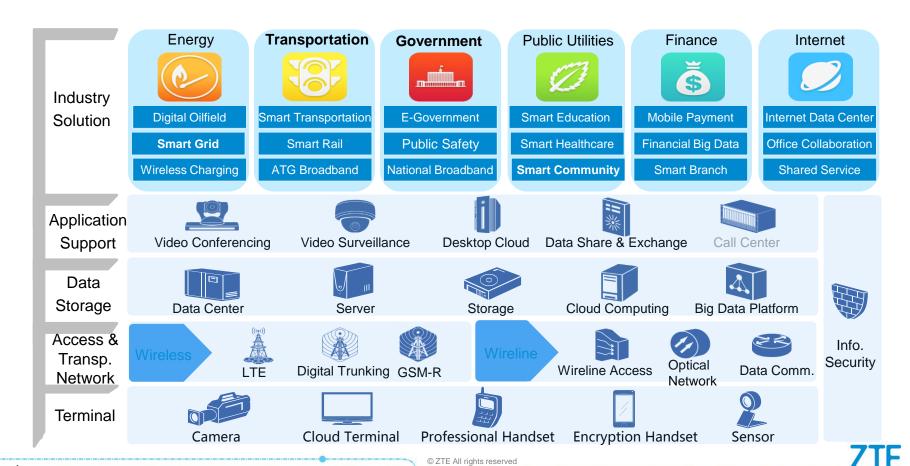
- ✓ Smart Sensing
- ✓ Smart Data
- ✓ Smart Terminals
- √ Smart Network etc.



- ✓ Monitoring
- ✓ Mass Cloud Storage
- ✓ Communication
- ✓ Bing Data & Analitics



ZTE Competitive ICT Products and Modules Overview



Overall Architecture of ZTE iCity Solution









Capability Engines

Business flow support

Data sharing and

exchange platform

Presentation support

Data analysis support

Urban Fundamental Database



Business Data













Volume Z





Government service



Quality

Industry

Taxation

Health

Education

Territory

Civil **Police** **Commerce**

Cloud Computing











Sensor & Network



M₂M







Wireless



Internet



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ZTE iCity Solution Deployment: 100+ Cases including IoT

Europe



France Safety City Romania E-Government **Turkey E-education Russia Smart Rail**

Asia

Uzbekistan Smart Rail Laos Public Security Vietnam Smart Rail Sri Lanka iTransportation



Africa



Nigeria Public Security Ethiopian E-education Egypt E-education

China







Smart Park



Wuhan Safety City

South America



Venezuela Smart Logistics Uruguay Public Security Chile E-Government

Beijing LTE Government Network



Qinhuangdao **Smart City**

ZTE has deployed its iCity solutions in 40 countries all over the world!

ZTE Smart Cities Honors and Achievements







ZTE中兴

Open Digital Award
2014 TM Forum Global Summit



2014 Innovative Smart City Solution in China by High-Tech Fair



2014 China Smart City Solution Award by China's Center for Information Industry Development



ZTE iCity solution shortlisted "2013 GSMA MWC Best Mobile Innovation for 'Smart Cities"



2014 Yinchuan won the awards of "Innovative Business Model" and "2014 Smart City Leader in China"



2013 Best Solution Provider of Smart City by CCCA



Ranked No.1 in Electric Communication System Market



ZTE U-Safety solution ranked No.1 in industry by Frost & Sullivan



2014 awarded
"Global
Outstanding
Smart City Case"
in Shanghai
Global City
Informatization



2013 China Benchmark Enterprise for Smart City Solution by IDG



Beijing Subway Communication Project wins "Distinguished Project Award 2012"



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World's First 4G HSR Case – Shanghai-Hangzhou HSR

Shanghai-Hangzhou HSR







Hangzhou

Shanghai-Hangzhou HSR Network Information

Freq. Band: 1.9 GHz

· Bandwidth: 20 MHz

Speed: 350 km/h

High Railway Distance: 62.5 km

HSR Solution Highlights

- First TD-LTE backhaul network
- Industry-leading technologies (super cell, efficient frequency compensation algorithm) are successfully applied to the high-speed railway communication network.
- Extensive network planning and optimization experience



Wireless Network Infrastructure Innovation Award

2013

China Mobile & ZTE

High Speed Railway Coverage network with cloud radio solution





Hangzhou Metro Project

Project Overview

- Hangzhou is the capital and largest city of Zhejiang Province in Eastern China.
- Metro Line VI: 20.6km, 18 stations
- Distance between station: maximum 2.2KM, minimum 708M, and average 1.18KM

Hangzhou Metro Line VI Network Information

Freq. Band: 1.8 GHz

· Bandwidth: 10 MHz

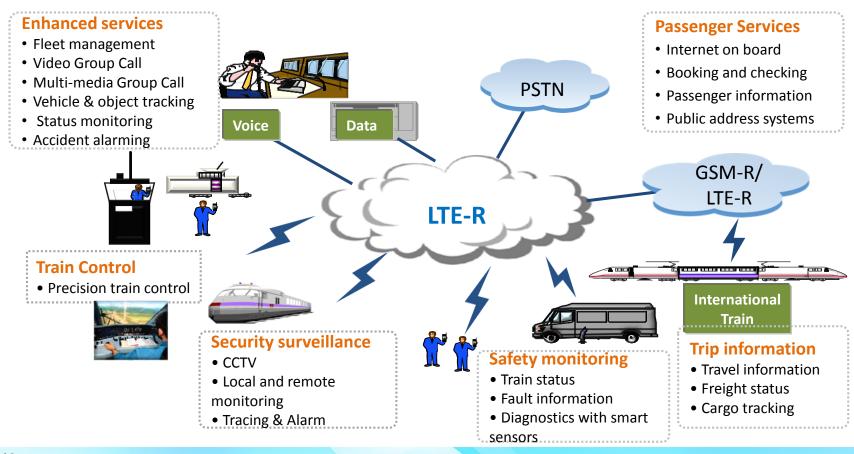
- Throughput: uplink 6Mbps, downlink 8Mbps
- One EPC in the control centre

Offered Services

- PIS (Passenger Information System): provide video and text information on the terminals
- Video Surveillance: provide real-time video surveillance in control centre



Wide Range of Applications



Beijing Government Dedicated Network

Network Information



Customized Solution Highlights

End-to-end solution consists of

- Government security network
- Public infrastructure monitoring, e.g. gas safety monitoring
- Public service monitoring, e.g. parking lots
- Public security monitoring, e.g. traffic

Spectrum: 1.4GHz(1447MHz-1467MHz)

Bandwidth: 20MHz

Site number: 500+ sites



World's First TD-LTE Commercial Network for Government and Public Usage.

10 Vertical Application for Yinchuan



Thank you



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