

# Smart Cities in China

Innovative Practices and Experiences Sharing

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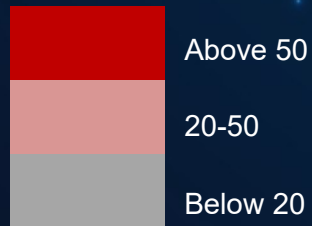
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# China's Smart City Development Momentum

During the "13<sup>th</sup> FYP" period, **80%** of Chinese cities will use smart city as strategies for social economic transformation

Distribution map of the smart city projects in China



Data source :Chinese Society for Urban Studies (CSUS)

In 2017, China's market size of smart city was **6 Trillion Yuan**, with an average compound growth rate of **32.64%** between 2017 and 2021, in 2021, the market size will reach **18.7 Trillion Yuan**<sup>1</sup>.

China has topped the world with **500+ Smart City** pilots <sup>2</sup>, covering:

- All Provincial cities
- **80%** Prefectural-level cities
- **47%** County-level cities

1. IDC 《2018 China ICT Market Trend》  
2. Deloitte, 《The Future Mega Intelligent Cities》

# Stages of Smart City Development in China



# Goals for Smart City and Modern Urbanization

Citizens Livelihood and Happiness

Environment Protection (Green)



Industry / Business Modernization (Digital Transformation)

Government Services and City Governance

# City as a Platform for Innovations



## Facilitate the development of an innovative environment for urban services.

Smart city innovates urban services ideas and means to enrich the content of the city's services.

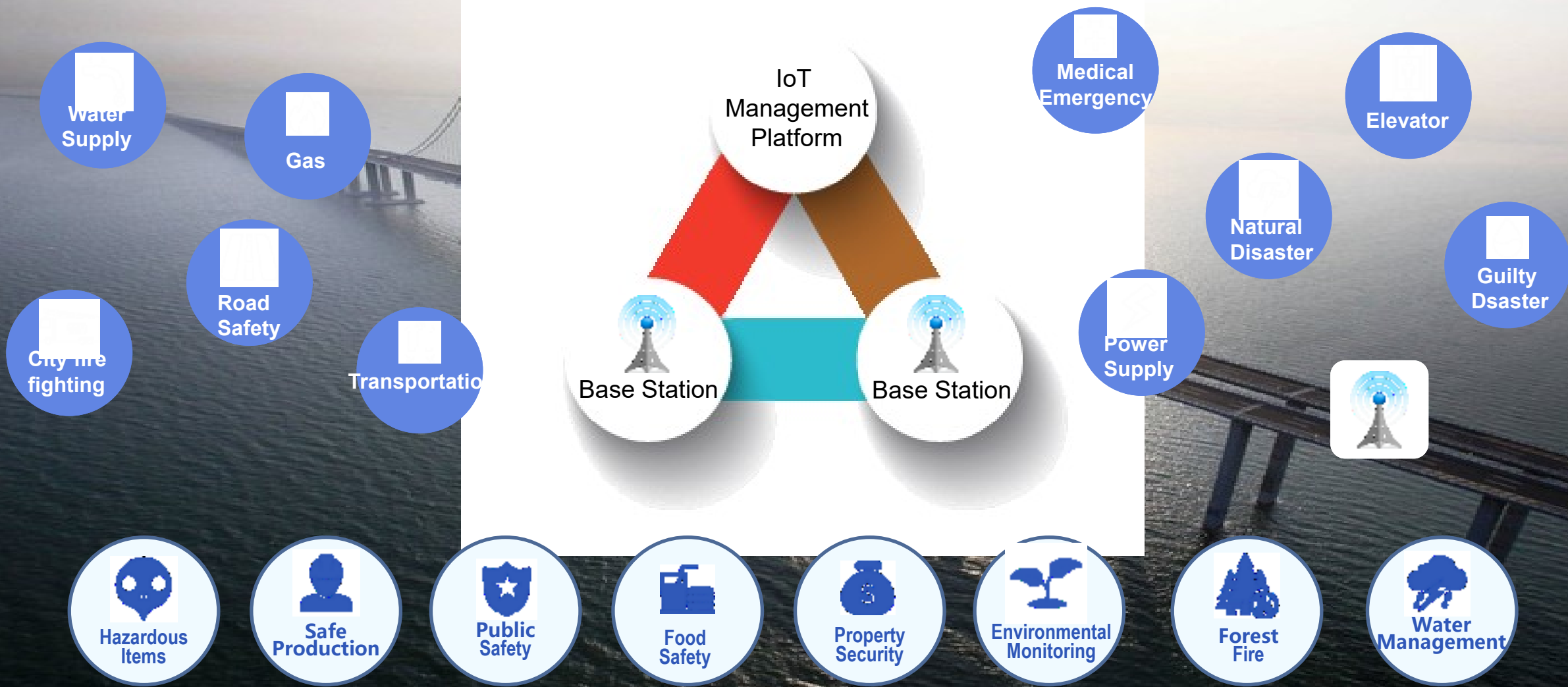
## Cultivate emerging industries.

Smart cities create a smart infrastructure environment, provide soil for emerging industries, promote and foster new industries, and promote economic restructuring.

## Drive the industrial upgrading and transformation.

Smart cities drive the use of new technologies, promote the upgrading and transformation of traditional industries, to enter the high-value economic field.

# Smart City is a Connected City with IoT Sensors



# Open Data is Crucial to Open Innovations in Cities

Powering economic growth of the city & changing citizens' experience of the cities

### City Big Data Platform



### Industry Insight Analysis based on Big Data



### Big Data Service based on Smart Metering



### Accurate Poverty Alleviation based on Big Data



### Big data-based enterprise/city Environmental Regulation



### Global Tourism based on big data



# Smart City - Intelligent Operation and Command Control Center





# Urban Planning - Simulation with City Data



360° City View



Display of Hot Spots in the City



Simulate City Changes in 10 Years



Job Distribution in the City

# DiDi — World's Largest Mobility Platform

How DiDi share-ride Innovations help to achieve the UN SDGs



**NO POVERTY**

**GENDER EQUALITY**

>21 million flexible job opportunities

1.37million are from zero-income families

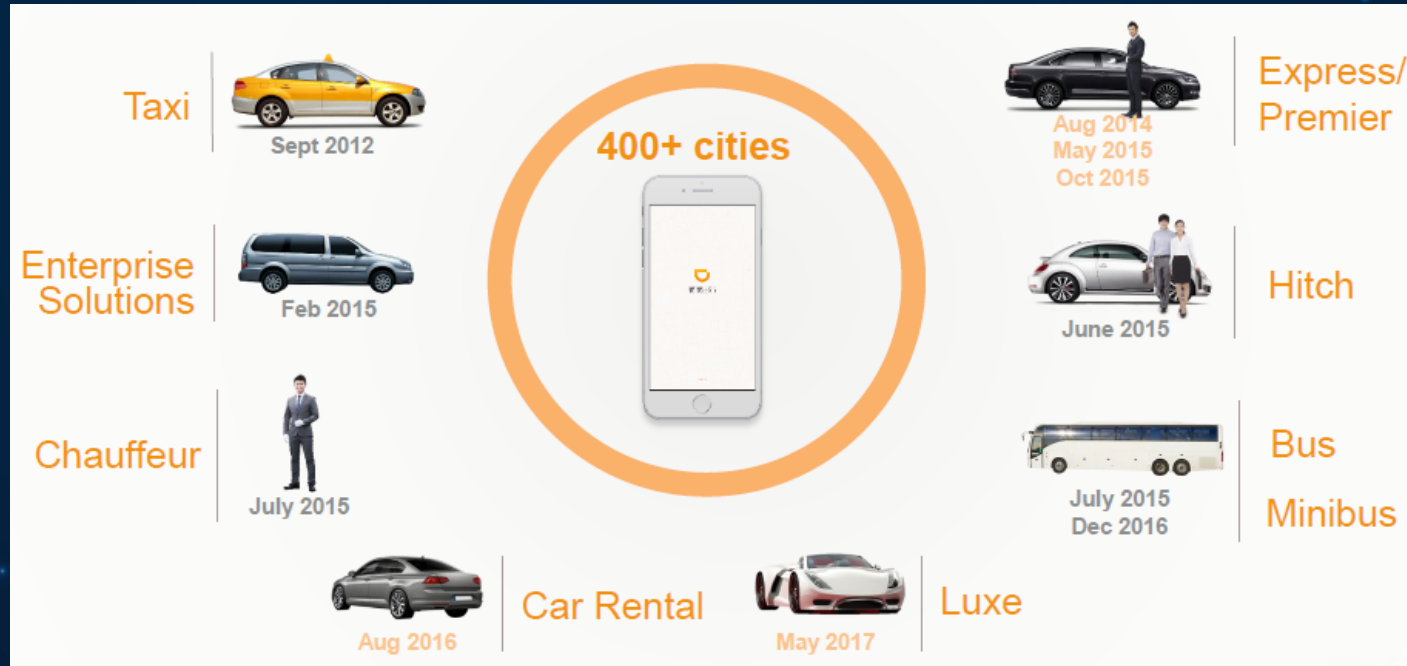
2 million women get job opportunities

**SUSTAINABLE CITIES AND COMMUNITIES**

**CLIMATE ACTION**

1.44 million tons carbon emissions were reduced through carpooling in 2016

In Q2 2017, shared trips saved **62 million miles** of trips.



**DECENT WORK AND ECONOMIC GROWTH**

**INDUSTRY, INNOVATION AND INFRASTRUCTURE**

DiDi optimized over 1,200 traffic lights, which decreased traffic congestion by 10% to 20%

Facial recognition for verification of drivers' identities

**RESPONSIBLE CONSUMPTION AND PRODUCTION**

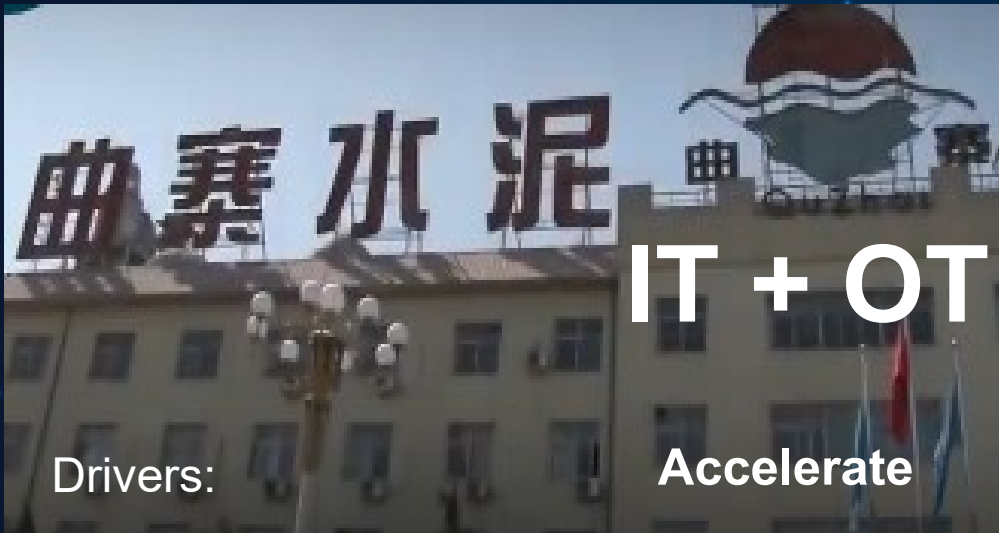
**AFFORDABLE AND CLEAN ENERGY**

Currently there are over **260,000 electric cars** operating on DiDi's platform.

# Schneider Cement Process Control & Optimization Solution



Improves Plant and Energy Efficiency at the Quzhai Cement Plant in China

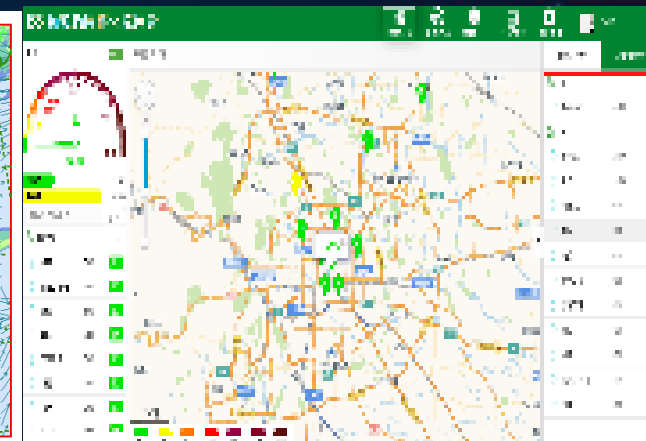
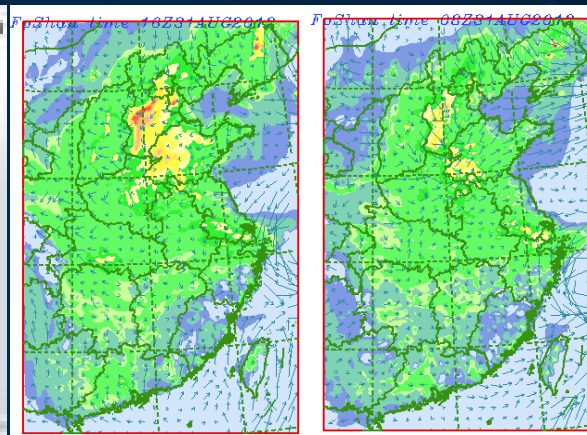
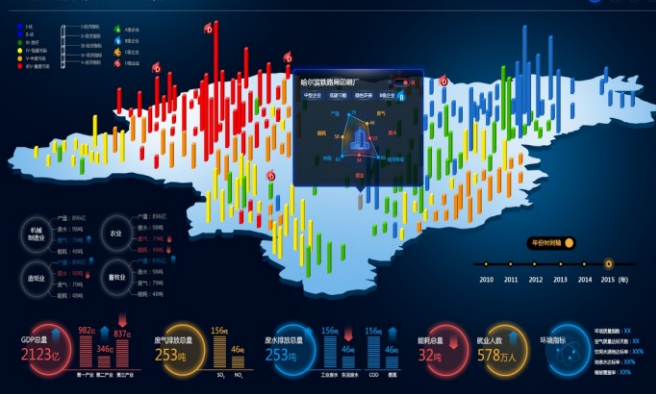


- Widespread Mobile Technology
- Embedded Sensing Technology,
- Artificial Intelligence and Analytics

Lifecycle service			StruxureOn Digital cloud service			Facility Advisor											
Data Center Infrastructure Mgt.			PaCIS Energy Monitor			PME/PSE Energy Monitor Expert			DCO Datacenter Operation Expert			DCE IT Devices Power Mgt.			SBO Smart Building Control		
WMTS	PIX550	VAMP/MiCOM	Trihal	OKKEN	WOTPC	Galaxy VX	iBusway	InfraStructure	EcoBreeze	SmartBunker	Pelco	AS-P	KNX	Actassi			

# Smart Environment Protection with IoT, Cloud and Big Data analysis

总量减排及企业画像



**HUAWEI**  
Huawei Cloud  
OceanConnect IoT Platform    OceanInsight Big Data Platform



# Integrated Use of Technologies for Public Safety: IoT Sensors, Edge Computing, Cloud, Video Apps, AI

## City Safety & Security

Prevent

Control

Manage

Investigate

Video Security Patrol

Emergency Command

People / Vehicle Management

Smart Video Image Processing



- **100%** online security patrol
- **360°** Stereo coverage
- **Intelligent** security control

- Multi-sector **coordinated operation**
- Live information in **real time**
- **Quick response**

- **Unified centralized** management
- Transform Management to **Services**
- Strengthen **supervision** and **self-discipline**

- Monitoring and **intelligent investigation**
- Case **tracking & deduction**
- **Precise blow**

# 大视频+公共安全

## AI Enabled City Safety Management

### Smart Street Surveillance



**SENSEVIDEO** 2017-03-28 TUE 09:55:18

Camera 1 Vehicle 38 Cyclist 88 Ped 64 Alarm 0

72 47 12

Vehicle Image

Pedestrian

SENSETIME | 商满科技

# 大视频+公共安全

## AI Enabled Security Management

### Facial Recognition for Boarding Flights





# THANK YOU!

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