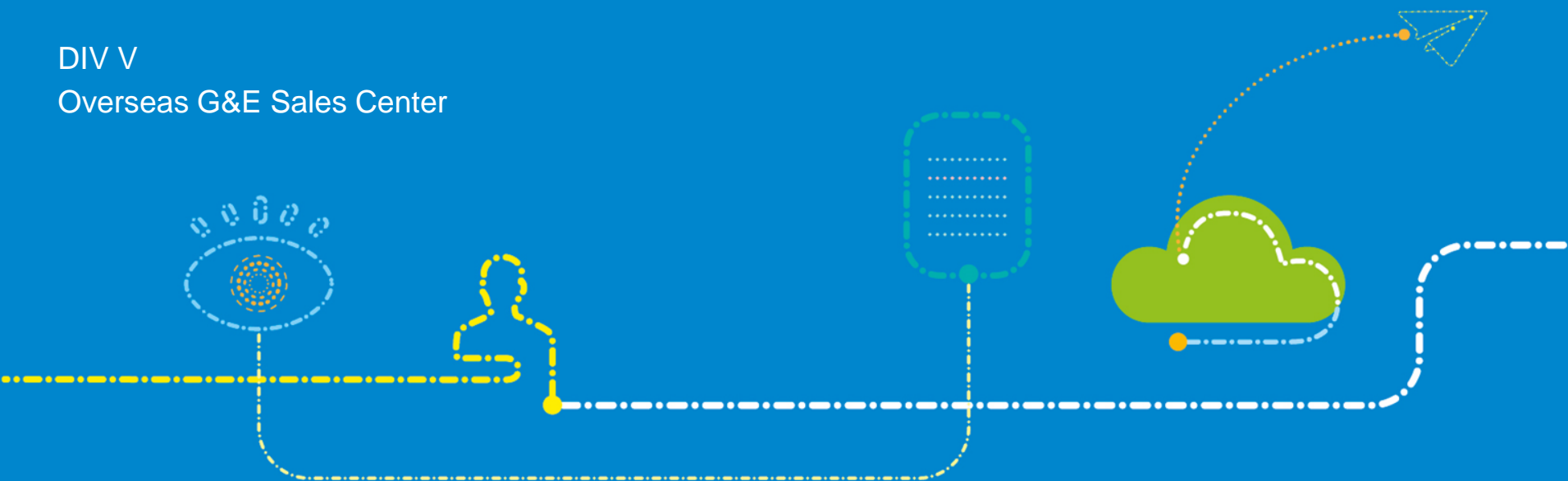


ZTE

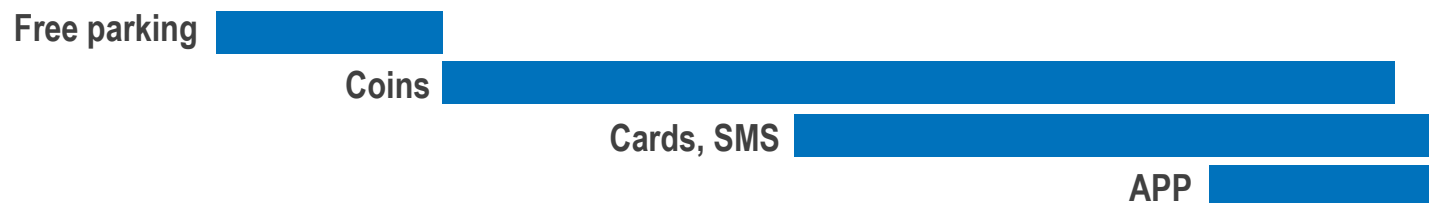
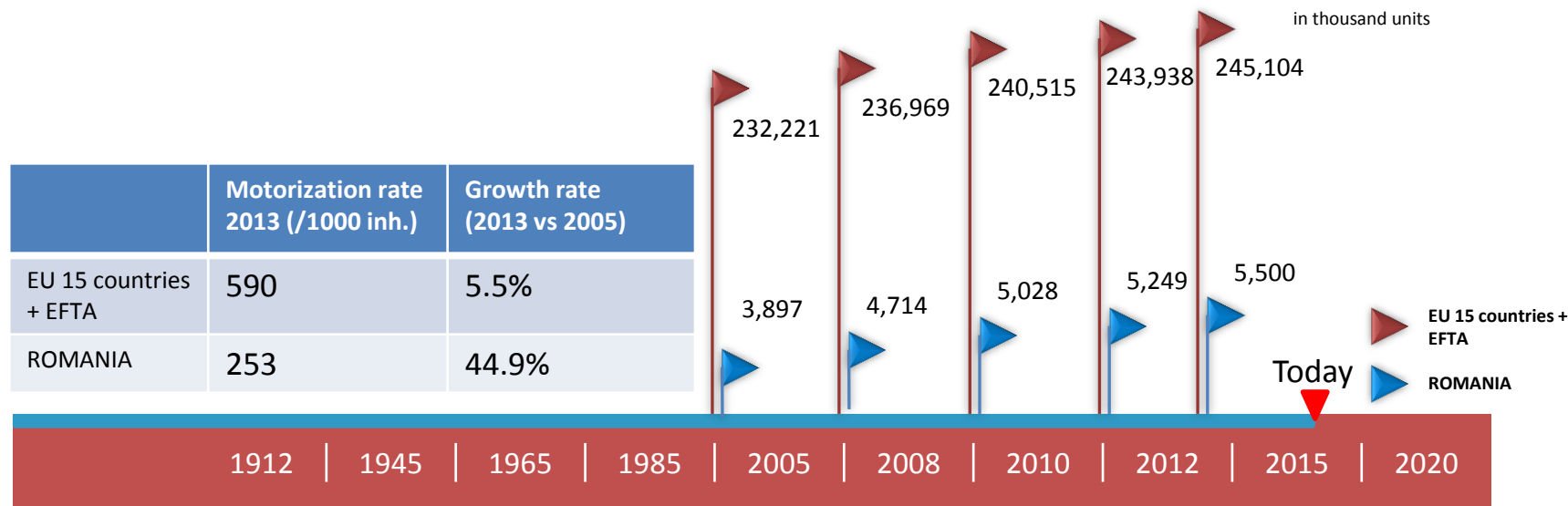
Tomorrow never waits

Smart Roadside Parking Solution

DIV V
Overseas G&E Sales Center

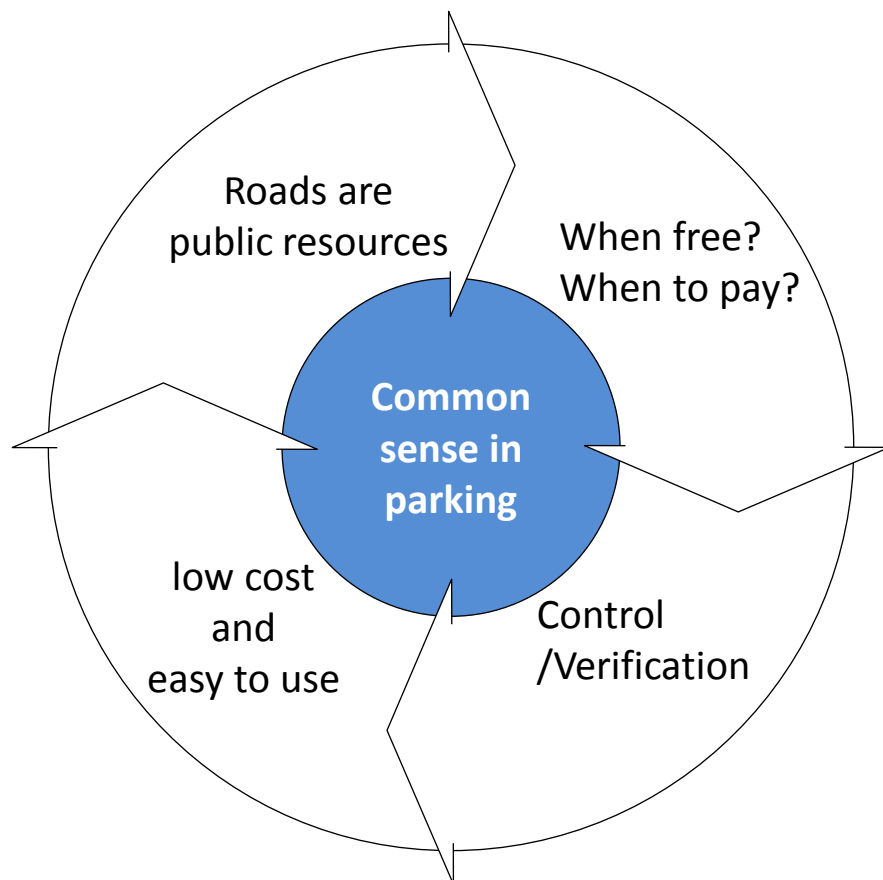


Statistics in Europe



- ✓ More and more cars, limited parking spaces in downtown
- ✓ Payparking since 1950s
- ✓ Means of payment has been steadily progressing

Parking facts



Key requirements in Parking

engineering & maintenance work
Control/Verification
Payment methods
Tariff
Realtime
Traffic & CO2
Online Actions
efficient staff
parking data

Status quo: Coin-operated ticket machines



Coins

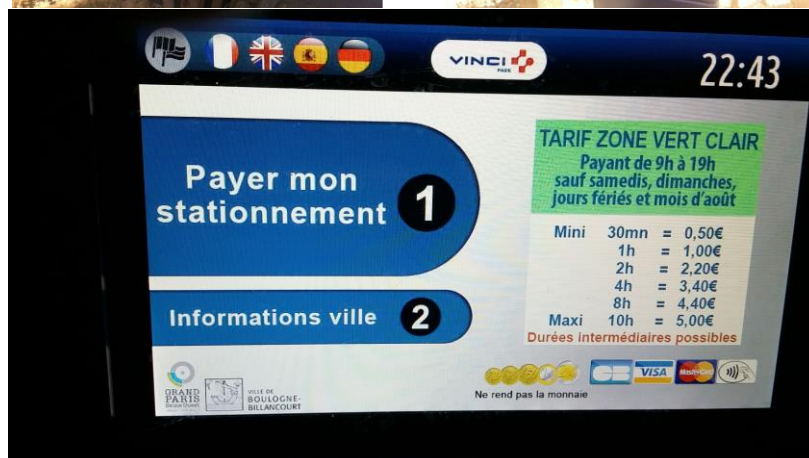
Key characters:

- Pay by coins then tickets printed
- For new style, supports both coins and credit cards
- Installed at every corner or about every 60 meters

Stauts quo: Coin-card-SMS-operated ticket machines



Coins and SMS



Coins, credit cards, and SMS

Key characters :

- Pay by coins or cards then tickets printed
- Send SMS then get payment confirmation
- Payment exceed the maxium time limit is not accepted
- Installed at every corner or about every 60 to 70 meters

Analysis of status quo

Key requirements	Coin-operated ticket machines	Coin-card-SMS-operated ticket machines	SMS	Final trend
engineering work	High	High	Medium	Low
Control/Verification	Manual check	Semiautomatic	Semiautomatic	Automatic & Realtime
Payment methods	Coin	Coin, Card, SMS	SMS	Coin, Card, SMS, APP
Tariff	√	√	√	√ flexible
Traffic & CO2	×	×	×	√
Online Actions (payment & renew)	×	partial	√	√
efficient staff	×	×	×	√
Realtime statistics	×	partial	partial	√

A final solution needed to meet all the key requirements:
ZTE Smart Roadside Parking Solution

Introduction of solution

In congested cities more than **30%** of the traffic is generated by people looking for a parking slot.

In addition , statistics show that ranging from **30% up to 70%** of the public roadside parking slots are occupied **without pay**.



ZTE smart roadside parking solution aims to **resolve** such problems:

1. reducing traffic congestion
2. increasing revenues
3. Deliver higher customer experience to drivers

An Estimation of Annual parking fee of 10k parking slots

Here is the calculation model, which has been proved in some European cities where currently the number is about €3 million per year.

Number of pay parking slots	Occupancy Ratio of pay parking slots	Average parking hours per pay parking slot	Average parking fee per hour	Pay days per year	Annual revenue(ml n Euro)
10,000 parking slots	Suppose the occupancy ratio is 50%;	Charging time : 8:00am~20:00pm, totally 12 hours. Suppose there are 6 hours when the parking slots are occupied averagely	average 1.4 euro per hour	free parking on weekends(104 days) and holidays(suppose 11 days), so pay days are 250 days	
10000	50%	6	1.4	250	10.5

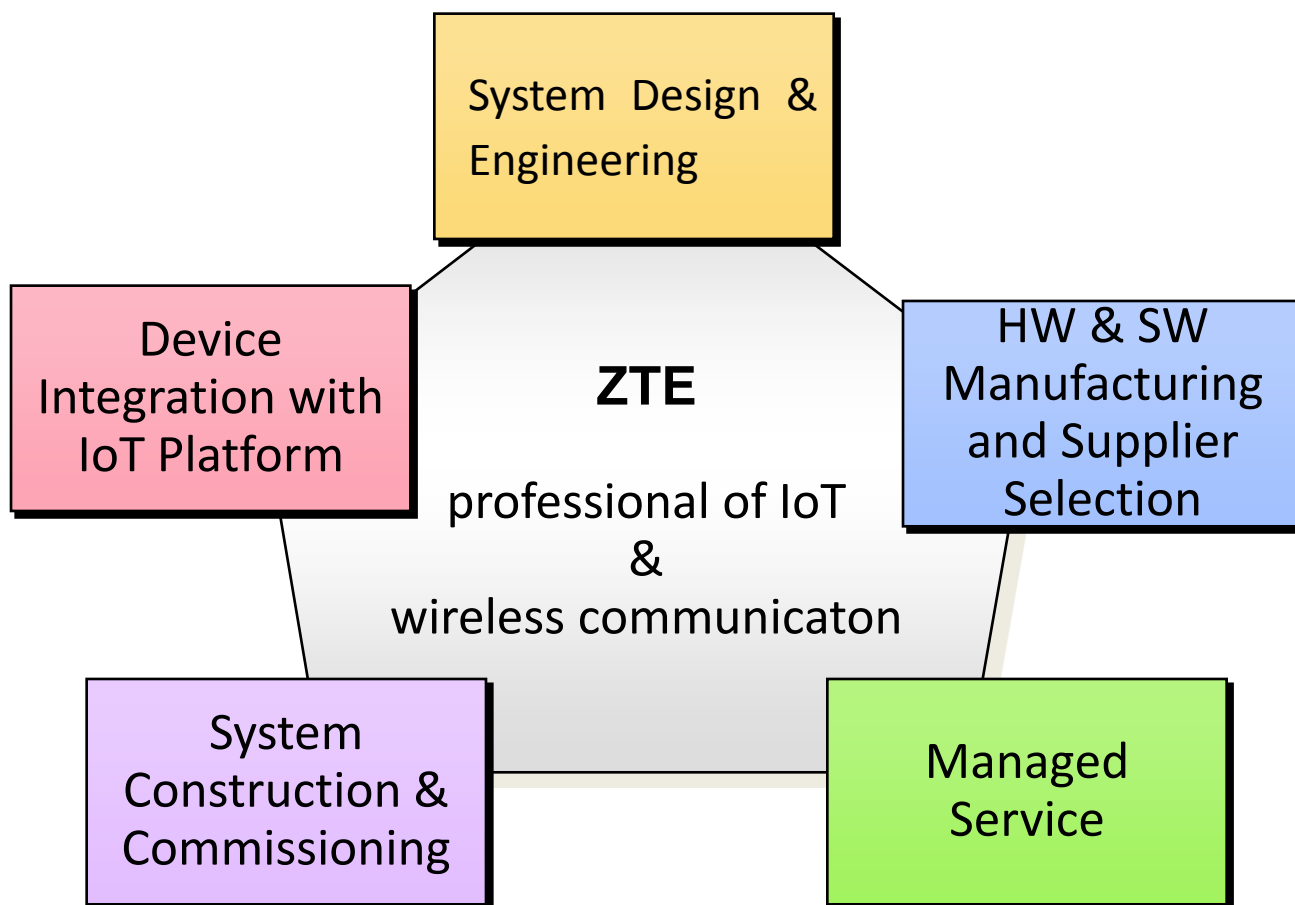


✓ 1 parking slot could contribute €1050 per year

✓ GAP = €10.5 million - €3 million = **€7.5 million** per 10k slots per year

Wireless sensor network and the professional

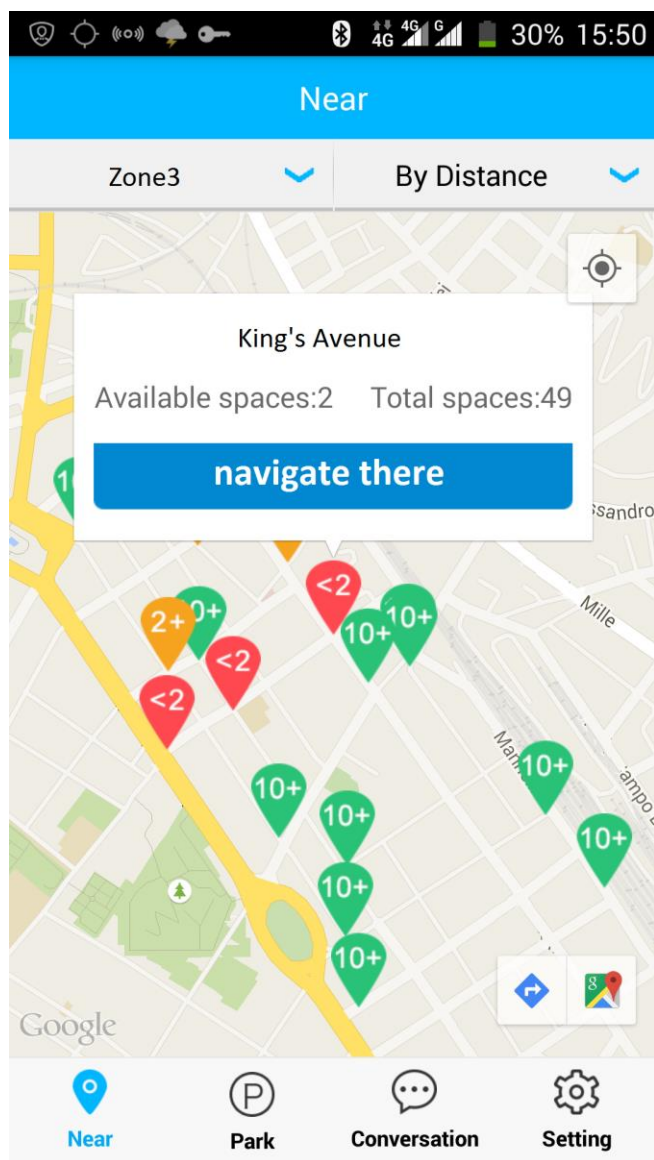
ZTE smart roadside parking solution is based on a **Wireless sensor network**, a form of **IoT**.



Confidential ▲



Find a parking slot quickly via APP



□ realtime updated

□ navigation

□ less traffic

And

□ online renew

□ paperless

□ Versatile payment methods

Benefits of the Smart Roadside Parking Solution

Confidential ▲



Government

- **Reduce traffic** congestion up to **30%** (via APP)
- **Increase** the fiscal **revenue**
- **Fast deployment**
- **Green** and **low carbon**
- **Provide** accurate **Data** for city traffic planning
- **Smooth expansion** to other smart city applications (Based on Big Data Analysis)
- **Share** of Information and **Collaboration**
- Conform to **EIP-SCC**



Ticket's Inspectors

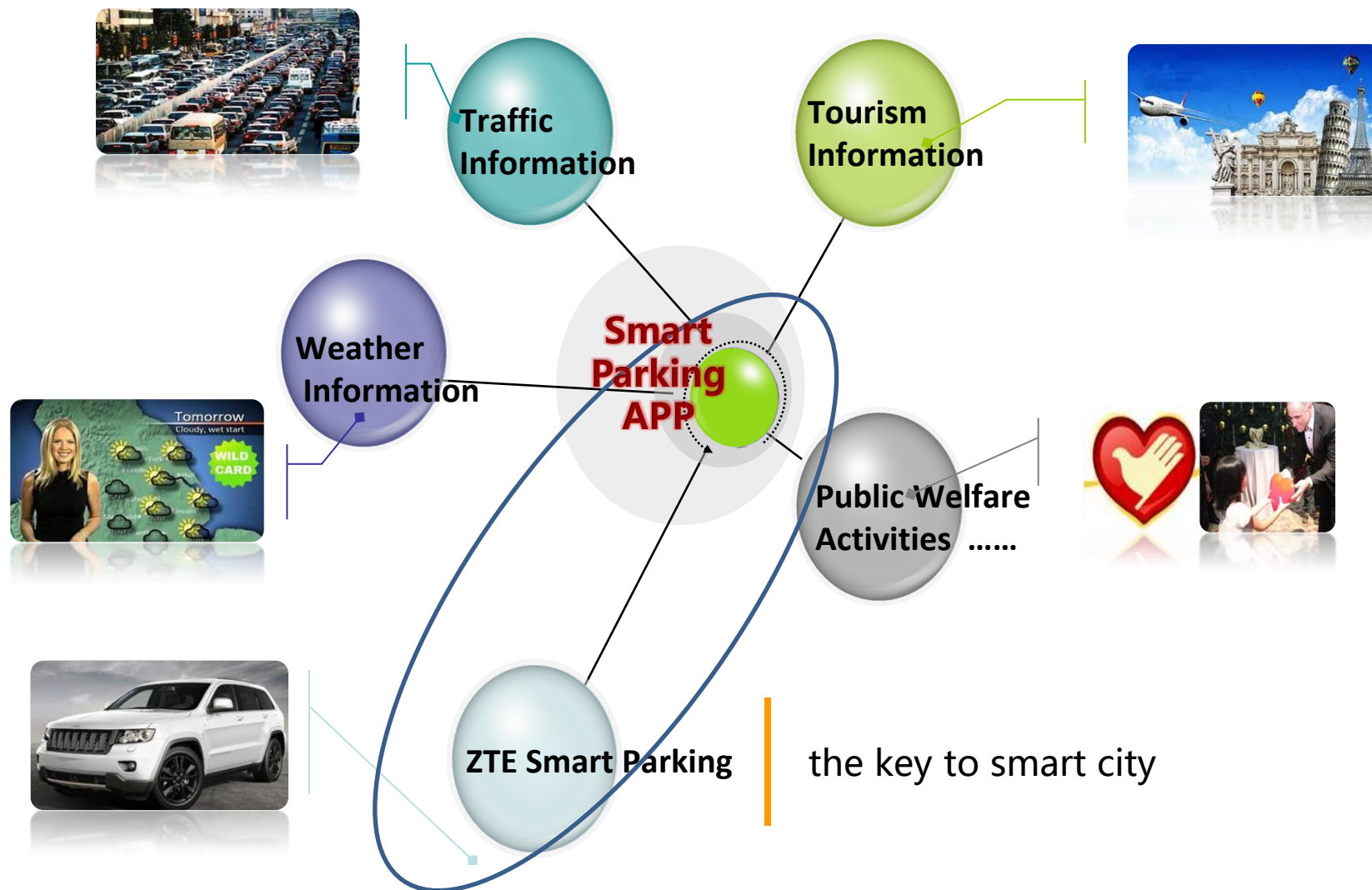
- **Improve efficiency of inspectors:** Via APP, illegal parking such as unpaid violation and overstay is shown precisely on the map.
- **Improve parking management:** Working routes of inspectors are recorded; the working area of each inspector can be adjusted automatically



Drivers

- **Easier to park:** via APP, available slots are shown in real time on the map. Drivers can be navigated to the nearest available parking slot.
- **Convenient to local residents:** the system can recognize local residents
- **Easier to pay:** drivers can pay the parking fee via app or just make a phone call

Expand to Cross-Domain Services conforming to EIP-SCC



ZTE Smart Roadside Parking Applications in the World

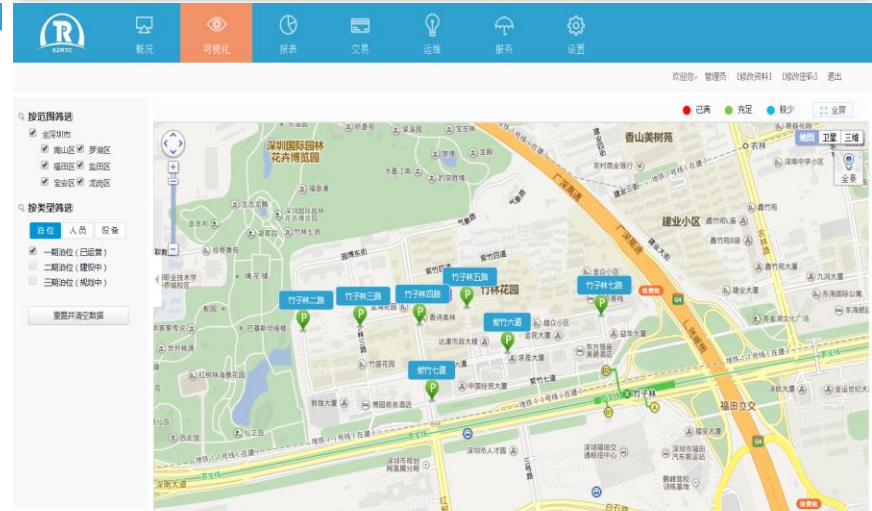
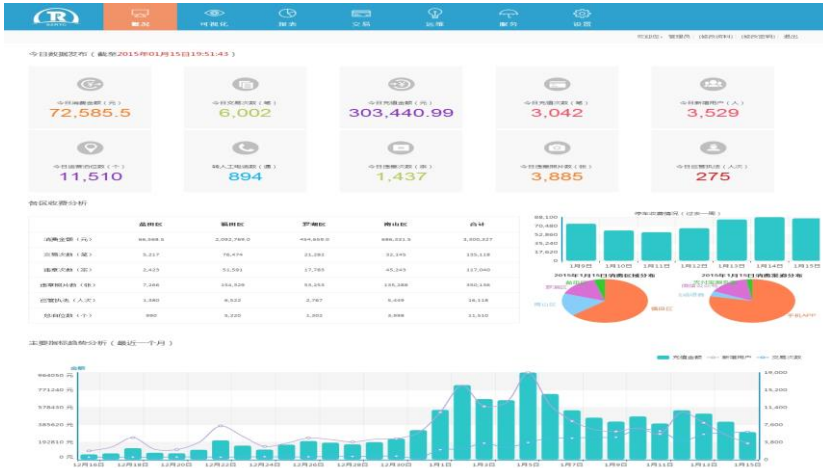


The ZTE smart roadside parking solution (indoor and roadside) has been deployed in more than 20 cities in different countries.

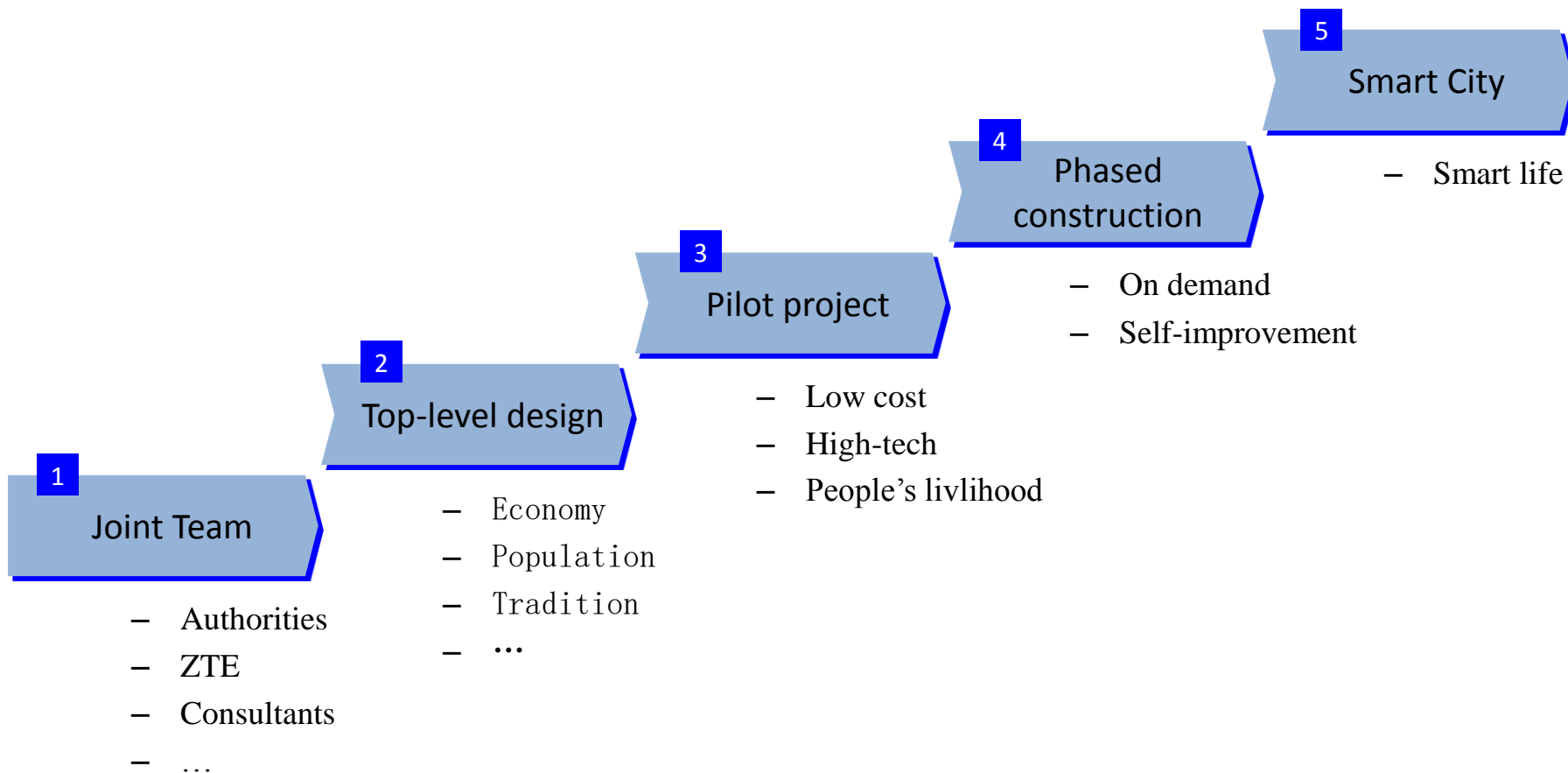
Success Story in Shenzhen

Solution Highlights

- The largest-scale smart parking system in the world (totally about 32K slots, 12K done, the rest is under construction)
- Large-size LCD for monitoring
- Payment methods include APP and virtual accounts



Next Steps



Thank you



Tomorrow never waits

