

# Traffic Development in Guangzhou

March, 2016



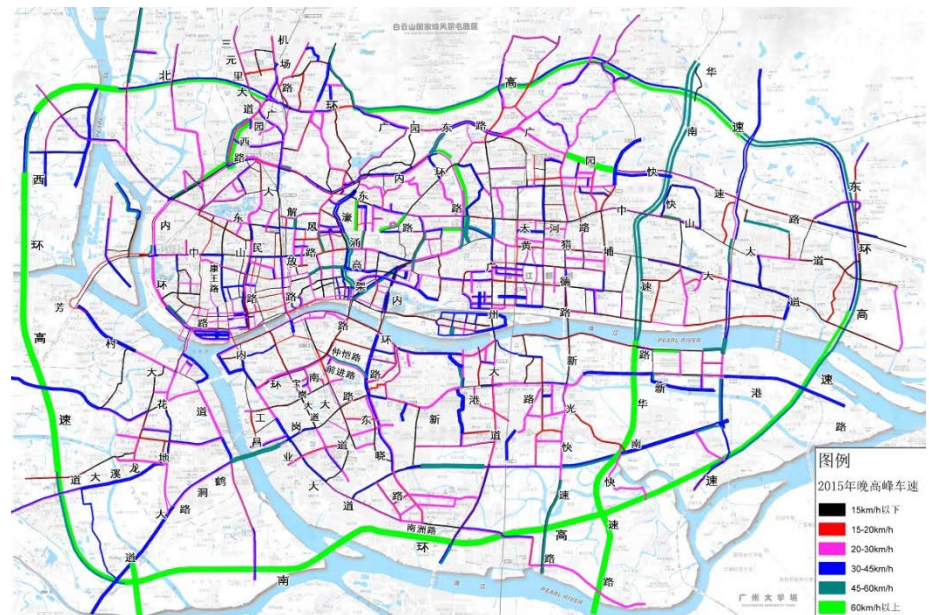
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# 1 Road Traffic

## 1.1 Traffic Situation

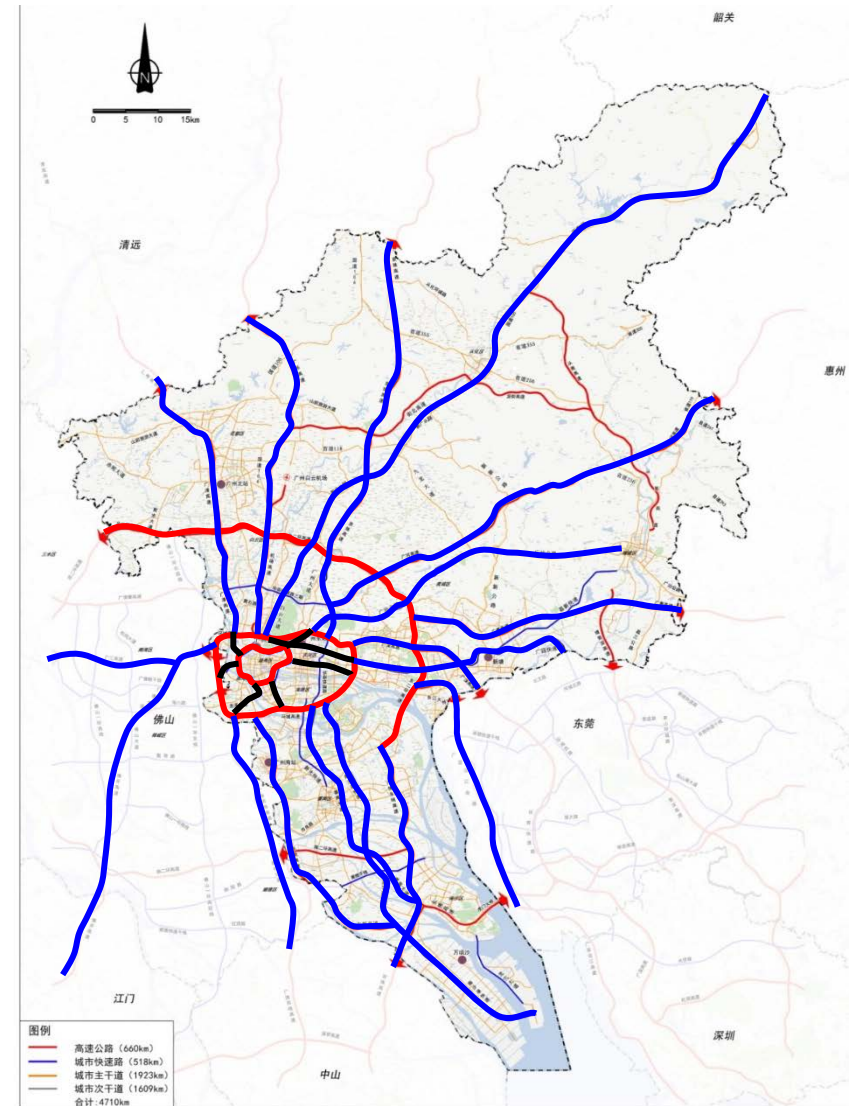
- GZ, China National Central City, hub of the Pearl River Delta, capital of GD Province.
- In 2015, 2.504 million motor vehicles, 75.7% cars (1.887 million).
- Evening peak period: car speed in CBD drops by 55% from 22.5km/h to 21.2km/h.
- Traffic demand exceeds supply. Insufficient parking spaces ( about 650 thousand, 26% of total car number)



# 1 Road Traffic

## 1.2 Present Road Network

- 2 ring roads, 1 semicircular expressway, 17 radial roads, 7 access roads.
- A total of 4505km arterial roads within GZ boundary (express way & fast roads: 1067km, trunk roads:3438km).



## 1.3 Present Inter-Province Corridors

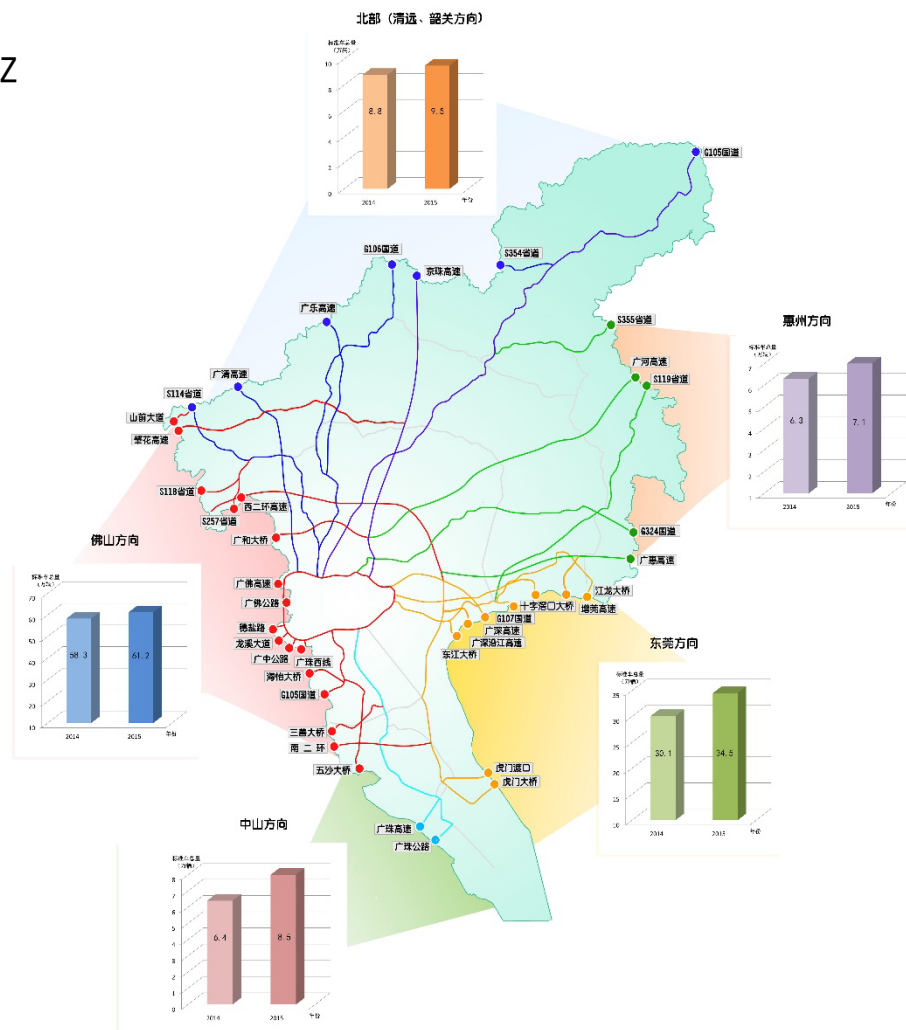
- 7 transport corridors linking GZ with other provinces via National or Provincial expressways.





## 1.4 Traffic Flow Growth

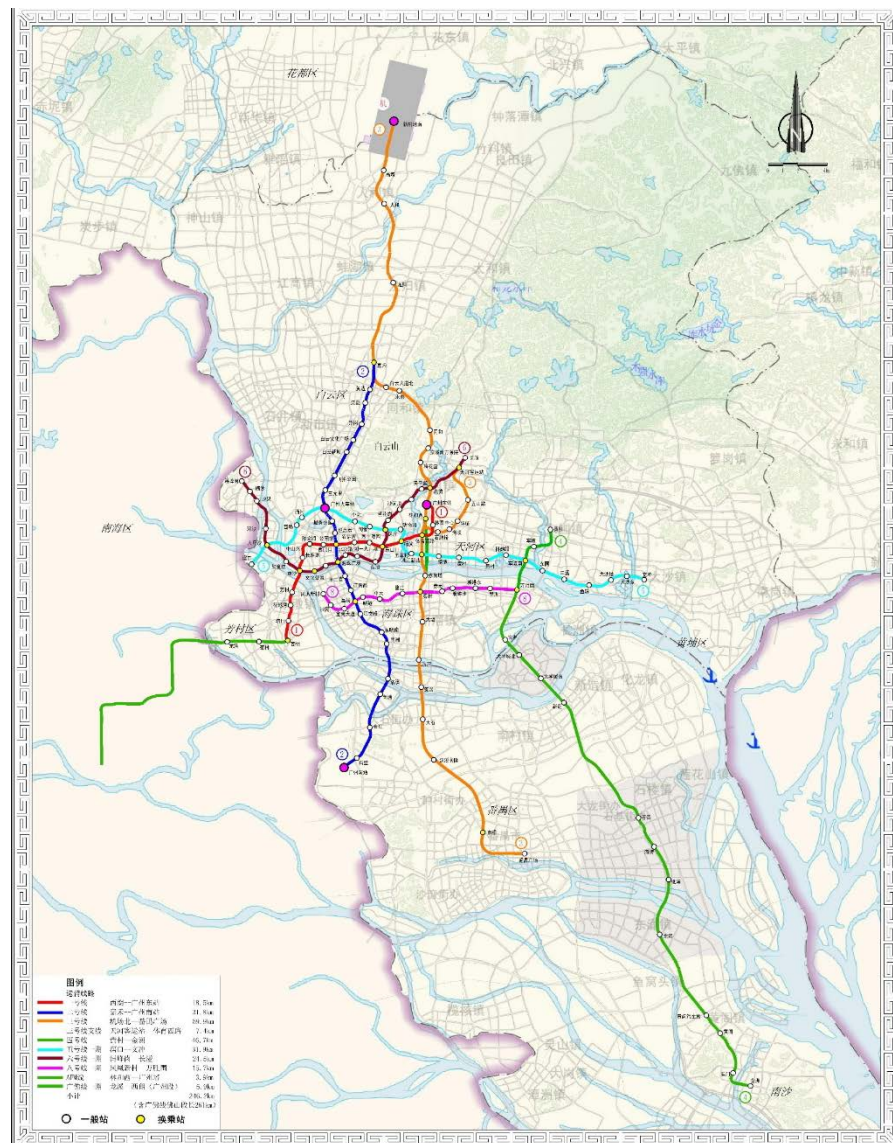
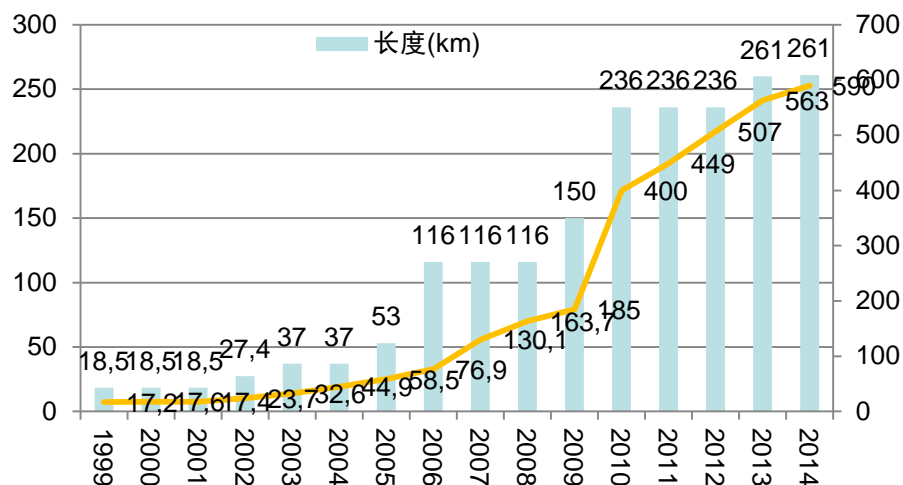
In 2015, the day time 12-hour inbound and outbound traffic flow volume on the roads between GZ & other Delta Regional cities is about 1.207 million standard unit cars, an increase of 9.8% over the previous year, a growth margin bigger than 6.3% of 2014.



Inbound and outbound traffic flow volume (2015)

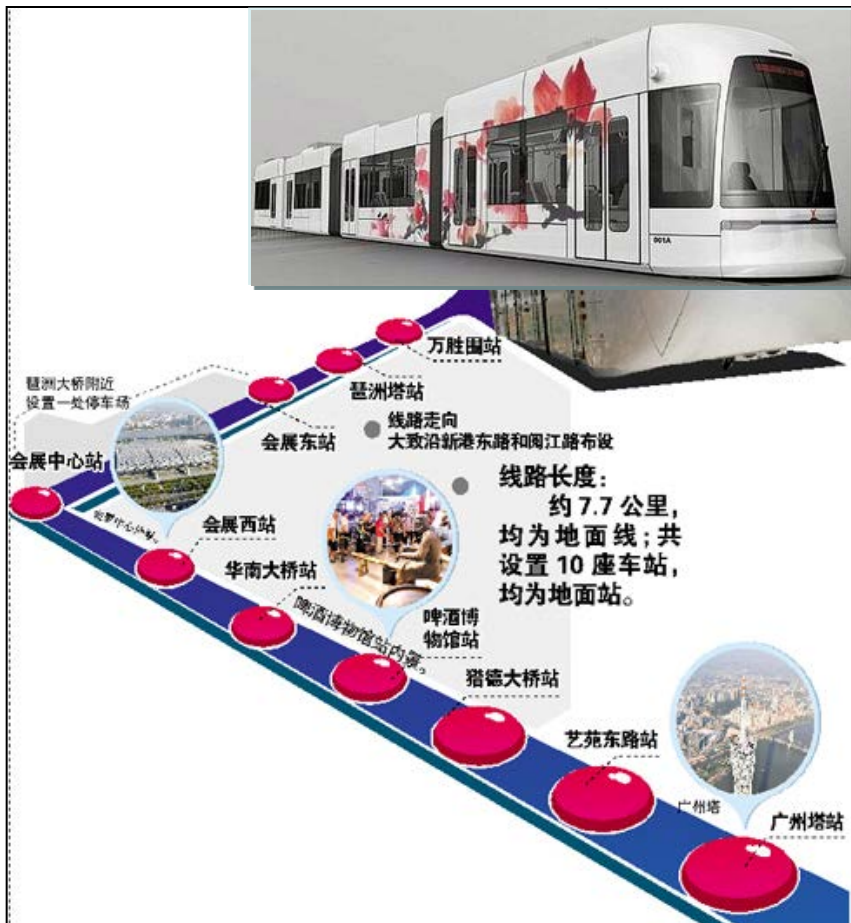
## 2.1 Present Rail Traffic

- 9 metro lines, 266km, ranking 3<sup>rd</sup> of China, longer than HK & Singapore metro mileage, annual passenger volume 2.05 billion person trips (daily average 6 million person trips).
- 11 lines/sections under construction, 303km. 15 lines to be completed in 2018 with a total length of 564km.



## 2.2 Multi-level Public Transport Systems

Multi-level Public Transport Systems: regular bus, BRT, modern tram car, customized shuttle bus...



Haizhu Tram Car



Customized Bus





Haizhu Tram Car

### 2.3) BRT

BRT on Zhongshan Avenue:

- Largest Asian BRT Single Line
- Passenger Carrying Volume:  
800 thousand person trip/day.
- BRT Speed: 12.5km/h → 23km/h (84%)
- Other Car Speed: 18km/h → 23km/h (28%)





## 3.1 Government Policy

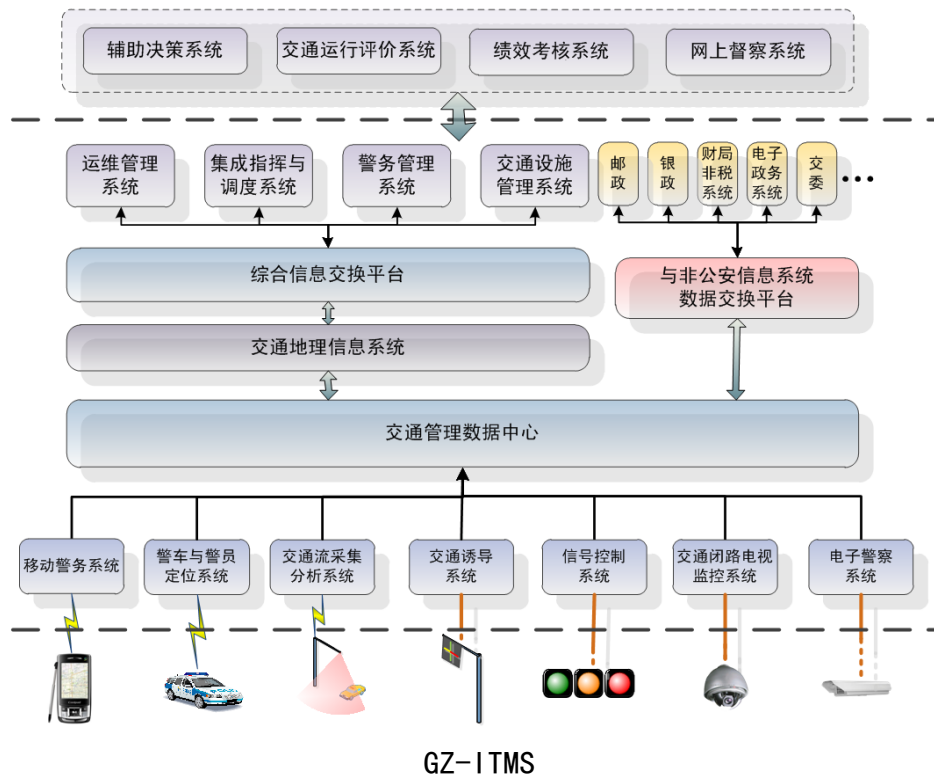
- (i) Planning & Construction: regulate urban function & population; improve traffic infrastructure.
- (ii) Service Enhancement: enhance traffic service functions, raise traffic operation efficiency.
- (iii) Management Reinforcement: strengthen traffic administration and on-the-side direction, exercise traffic congestion rectification.
- (iv) Demand Regulation: combined regulation & control measures for sustainable development.



广州警察五羊将

## 3.2 Intelligent Transport System Development

➤ 1 center, 2 platforms, 2 networks, 15 subsystems. System & facility are developing into a mature stage: SCATS(imported in 1990s), Traffic Command Center(open in 1993), GZ-ITMS (established in 2006), ITS expanded from signaling to many traffic aspects.





# 3 Traffic Management

## 3.3 ITS application

GZ JINGMINTONG (Police-Civilian Communication) Go Easy App

GZ XINGXUNTONG (Trip Info Communication) App



GZ JINGMINTONG Go Easy App



GZ XINGXUNTONG App

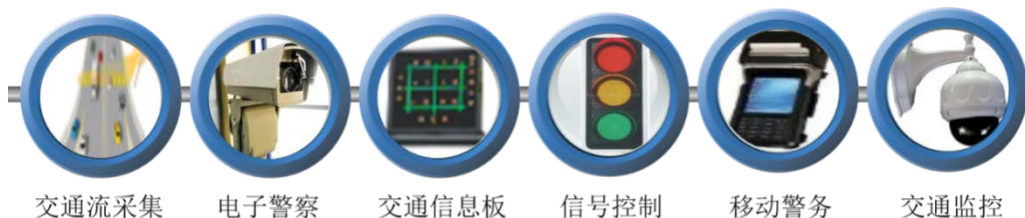


# 3 Traffic Management

## 3.4 ITS Development Plan

Development Planning Guidelines for GZ ITS in the 12<sup>th</sup> five-year Plan Period

GZ ITS Development Plan (2011-2015)

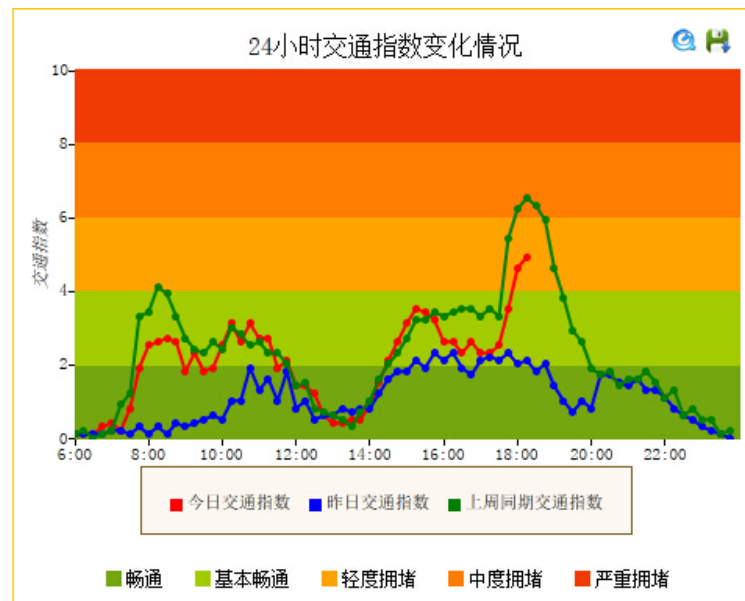


系统化布局

扩大点位规模

设备升级改造

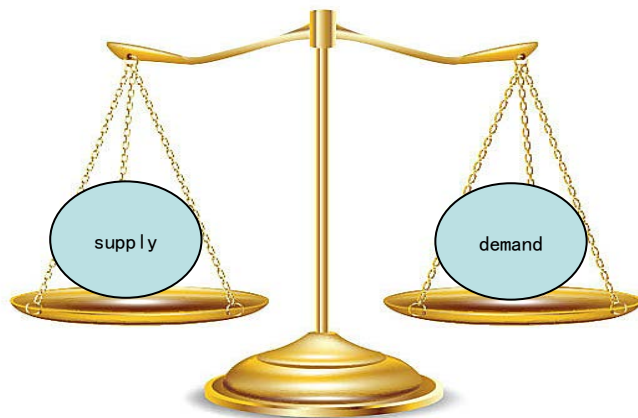
引入新途径、技术



## 4.1 New Traffic Momentum:

New trip mode(Uber, Dididache-Ridesharing Taxi-hailing);diversified traffic participants &social investors; more service focus on client experience; intelligent traffic as crucial element for building GZ into a smart city

- ➡ We should have:
- ➡ Higher Efficient Management Mechanism;
- ➡ More Open Management Philosophy;
- ➡ More Humanized Management Interface;
- ➡ More Advanced Management Means.



## The Development Vision:

Automatically Detecting Traffic Congestion.

Proactively Regulating Traffic Control.

Fast & Accurate Law Enforcement.

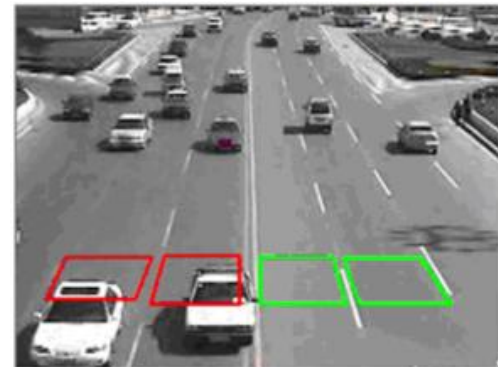
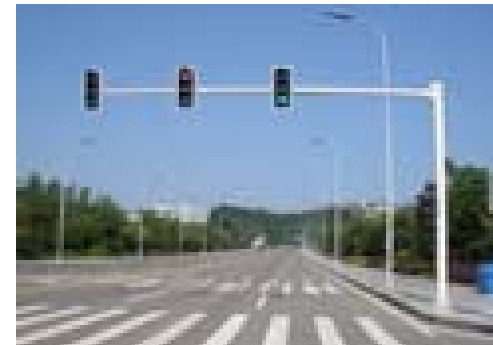
Proactively Identifying Traffic Accidents.

Fair & Transparent Police Administration.

Standardized & Efficient Facility Maintenance.

Whole-Trip Public Service.

Online Business Handling Available At Home.





**The end**