

上海停车信息化发展

The Development of Shanghai Parking Information Networking



梁华军 Huajun LIANG

上海市交通委员会

Shanghai Municipal Transport Commission

March, 2016

1.Introduction

□ 上海 Shanghai

- 至2015年底，常住人口**2415**万，小客车360万辆，停车泊位需求430万个，停车泊位供给290万个。停车需求量大，政府通过多种手段解决停车问题。停车信息服务是解决停车问题的一个重要手段。停车信息服务需要对全市停车收费系统统一接口，通过公共停车信息系统对分散的停车信息资源进行联网。

At the end of 2015, the resident population reached 24.15 million, the registered car ownership reached 3.6 million, and the needs of parking lots reached 4.3 million. The parking service can only provide 2.9 million parking lots. The government applied different ways to solve the problem of “parking difficulty”. The parking information service is one of the important solution. Develop the unified interface of toll collection system and interconnect the scattered parking information resource.

□ 上海市交通委员会 Shanghai Municipal Transport Commission

- 上海市交通委是上海市城市交通的主管部门。在停车方面主要负责，在停车设施规划、建设及运营管理方面的政策制定、落实及行业秩序监管等工作。the key management department of Shanghai Transportation, responsible for the work of parking infrastructure planning, policy making, policy implementation, industry order supervision, and etc.

2、Problem

- ❑ 全市停车信息资源缺乏整合。Lack of the integration of parking information.
 - ❑ 缺少多样化的实时动态信息服务。Lack of the different kinds of real time information service .
 - ❑ 缺少动态的停车信息服务，车辆开到停车场没有车位，会出现车辆巡泊情况。Lack of the real time parking information service e.g. there will be no parking lot left when the car enter the parking zone. The car will wander for a long time.
 - ❑ 同一区域不同的停车场使用不均衡，忙闲不均。Uneven usage of the same parking zone.
 - ❑ 政府缺少对停车信息的有效监管手段。The government doesn't have the effective ways to supervise the information of parking lots.
-

3. Background

上海公共停车信息系统由“一个总平台、四个子系统”组成。
Shanghai public parking information system: 1 platform: 4 sub-systems:

1、上海市公共停车信息平台

Shanghai public parking information platform

2、停车场（库）智能收费管理系统

Intelligent toll collection system

3、区域停车诱导系统

Regional parking guidance system

4、道路停车信息系统

Roadside parking information system

5、停车信息服务系统

Parking information service system



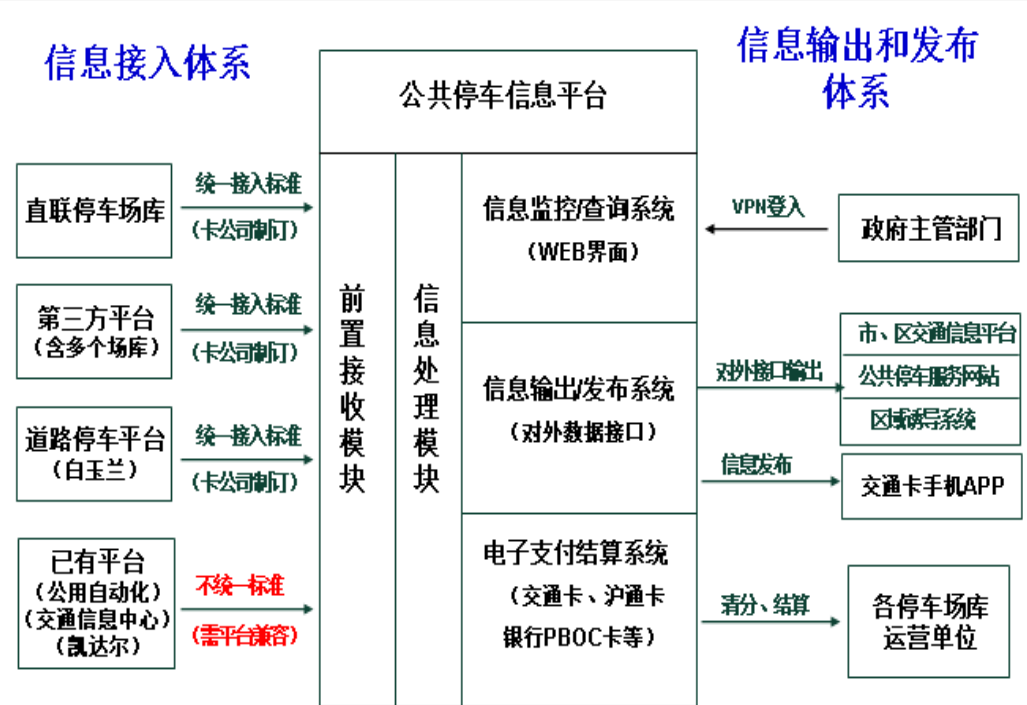
3. Background

公共停车信息平台实时采集公共停车场（库）和道路停车场信息，对采集到的停车信息统一处理，然后通过多种形式向公众、政府机关、停车场（库）的经营者提供多样化的信息服务。

The public parking information platform collects the information of public parking lots/garages and roadside parking lots.

process and standardize the parking information.

provides the information service to the public, government agencies and parking operators in different ways.



4、Key Issues of Project Implementation

1、如何解决停车信息联网的资金问题。

How to solve the funding issues of the parking information interconnecting work

2、如何选择第三方互联网公司加入

How to select the third party internet company to participate this work

3、如何实现设备的标准化

How to standardize the equipment of parking lots

4、如何保障数据上传的精度

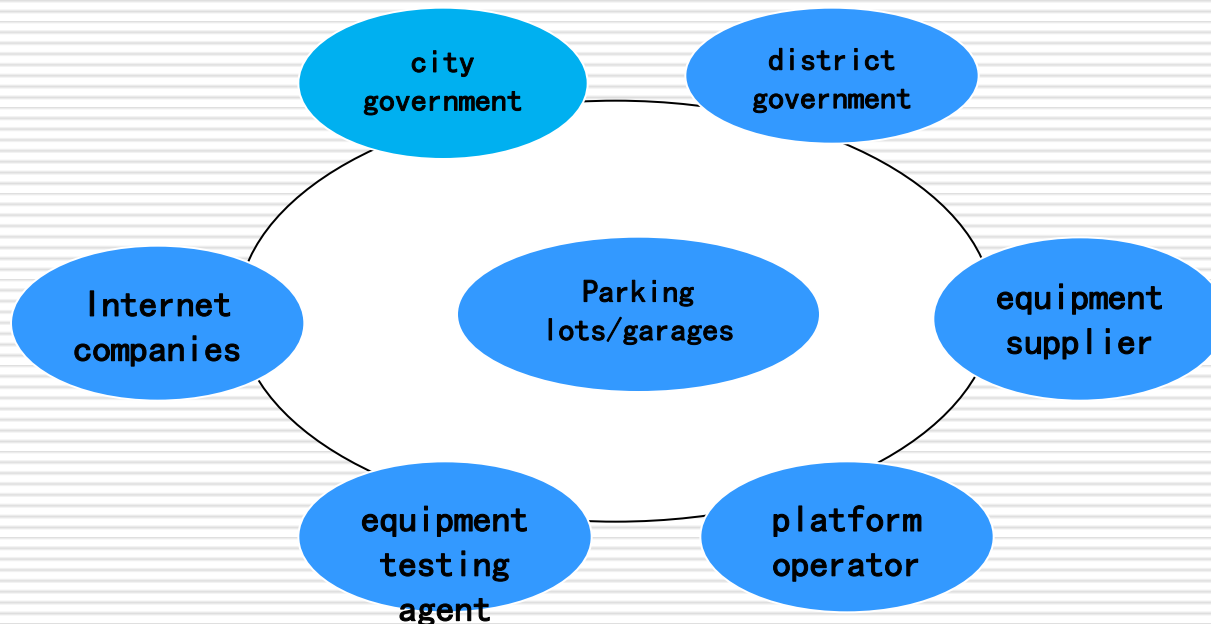
How to keep the accuracy of the upload data

5、如何实现停车信息的增值服务，保障停车信息的可持续发展

How to realize the parking information value-added services to guarantee the sustainable development of parking information system

5、 Key Strategies for Success

- 目标：2015年完成300家试点接入；2016年基本实现公共停车信息联网。
Goal: involve 300 parking lots/garages in 2015. establish the basic public parking information interconnection system in 2016
- 多主体协同推进
Multi-agents promote together cooperatively



5、 Key Strategies for Success

□ 明确管理依据

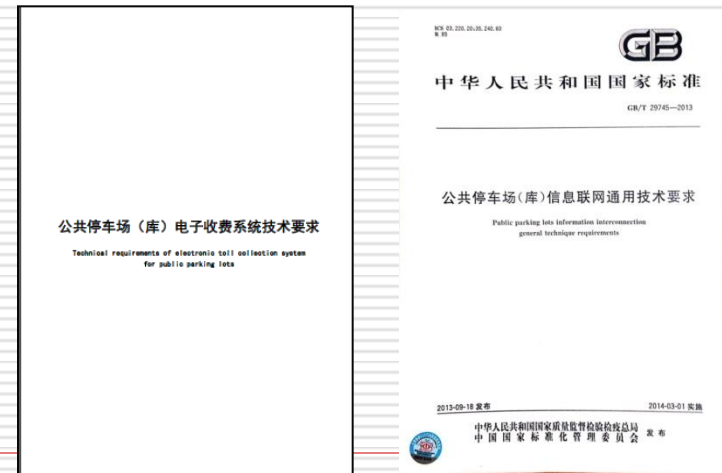
Clear management foundation

- 《上海市停车场（库）管理办法》（上海市人民政府令第85号） Shanghai parking lots (garages) management measures (Order No. 85 of the Shanghai Municipal People's Government)
- 《上海市公共停车信息系统联网管理规定》 Shanghai public parking information system networking management regulations
- 《关于推进上海停车行业信息化工作的实施意见》 The implement opinions on promoting Shanghai parking Information Work

□ 统一技术标准

Draft the technical standards

- 公共停车场（库）电子收费系统技术要求 Technical requirements of electronics' toll collection system for public parking lots.
- 公共停车场（库）信息联网技术要求 Public parking lots information interconnection general technique requirements



5、Key Strategies for Success

□ 规范参与单位

Standardize the Participants

➤ 第三方改造企业

The third party reforming company

➤ 设备供应商

The equipment supplier

➤ 技术检测单位

The technology testing agent

□ 政府托底+企业运作government construction +commercial operation

➤ 政府建立公共停车平台提供公益服务The government build the public parking platform to supply the charity service

➤ 第三方企业投资改造停车场设备The third party company invest in parking equipment reforming

➤ 第三方企业进行大数据、后汽车服务等商业运作The third party company supply commercial operation of the big data processing, post vehicle service etc.

6、Lesson & Implication

1、制定停车信息化推进的政策依据和统一的技术标准。

It is necessary to draft the parking information policy and the technical standards

2、引入第三方互联网公司，由互联网公司进行商业运作。

Involved the third party internet company. Let the internet company carry out the operation commercially

3、停车场电子设备标准化，制定停车场电子收费系统标准。

Standardize the parking electric equipment, draft the electric toll collection standard

4、停车场电子设备接入流程化，公布信息联网和检测流程。

Process the electric parking equipment importing, inter connect information publishing and equipment detecting

Thank You !

www.themegallery.com