

Spatial
today.

SuperMap

SuperMap Solution for Retail Banking

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The background is a dark, muted blue-grey color. It features a complex, faint pattern of overlapping geometric shapes and lines. These include concentric circles, straight lines forming rectangles and hexagons, and various curved segments that suggest a technical or architectural drawing. The overall effect is a subtle, textured backdrop.

BACKGROUND

Challenges and Opportunities for Retail Banking

How GIS can contribute to Bank's growth?

External Factors

Uneven distribution of population

Unbalanced economic growth

Limitation of market data

Trend in digitalization and fintech

Tight competition

Internal Factors

Budget constraint

Manpower distribution

Inadequate human resource capabilities

Opportunities

Demographic Analysis

Trade Area Analysis

Target Marketing Analysis

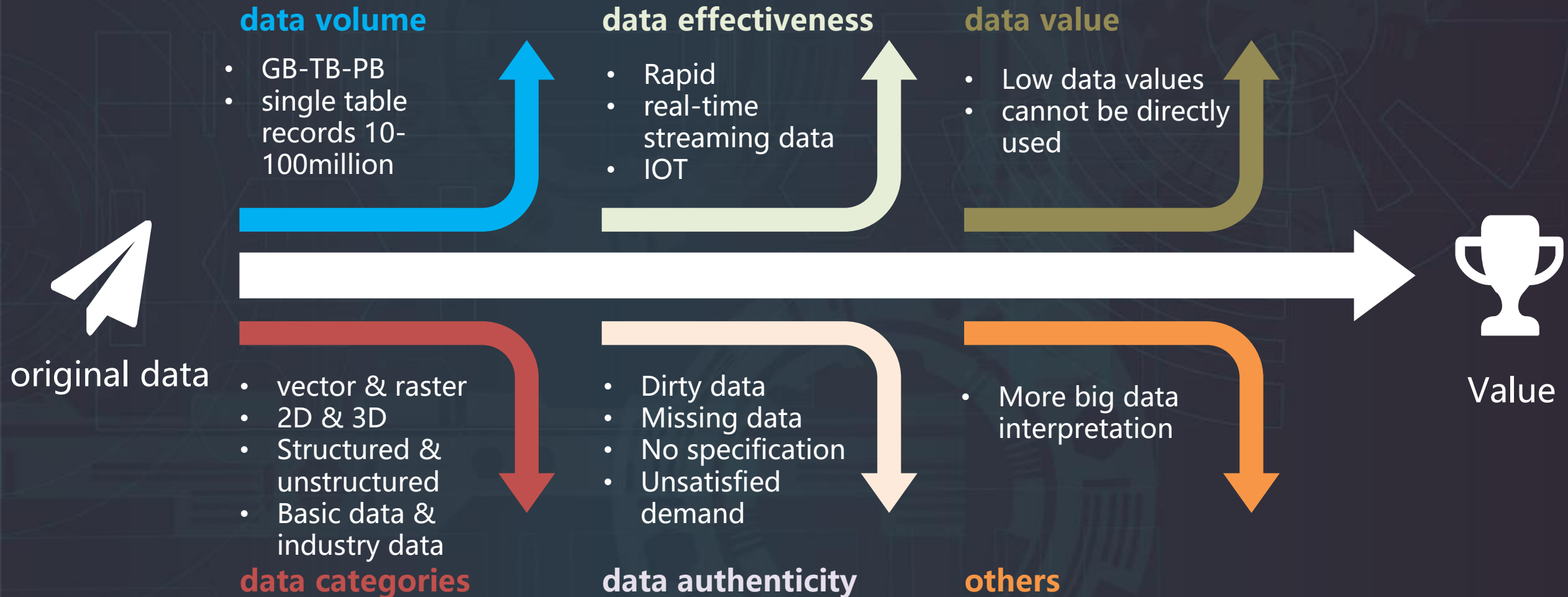
Profile Customer Forecast Market Potential

Score and predict consumer buying behavior analysis

Competitive Market Analysis

Sales Productivity Improvement

Problems Encountered



Why location is important for business?



The background is a dark, muted blue-grey color. It features a complex, faint pattern of overlapping geometric shapes and lines. These include concentric circles, hexagons, rectangles, and various angular lines that create a sense of depth and technical precision, reminiscent of a circuit board or a mechanical diagram. The overall effect is a sophisticated, high-tech aesthetic.

SOLUTION

Banking GIS System



Bank Site
Management and
Monitoring



ATM Network
Management and
Monitoring



Location Analysis of
ATM and Bank Site



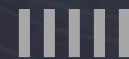
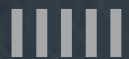
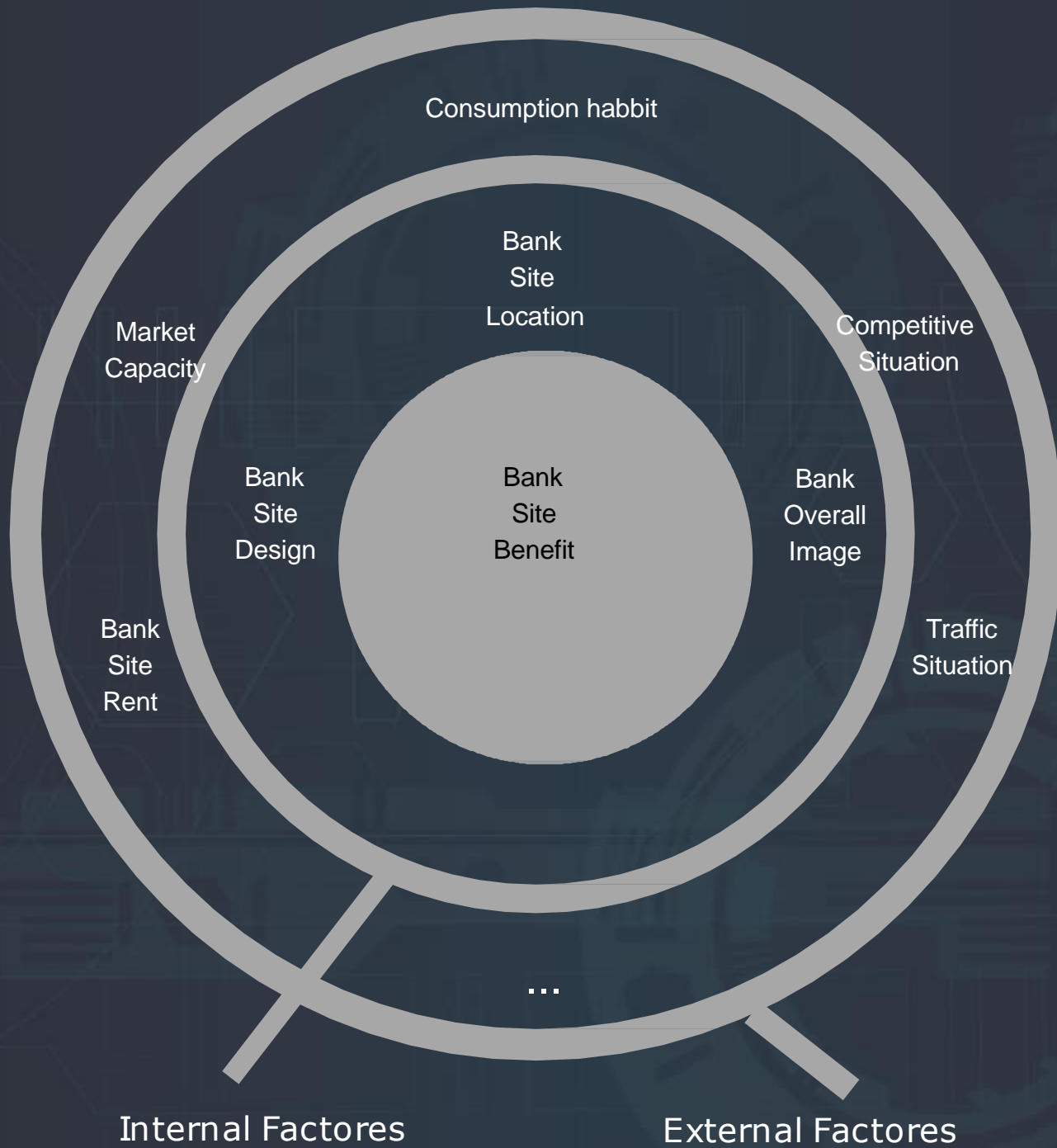
Mobile Application

How does it work?



Features





Implementation plan of urban planning

The urban development plan

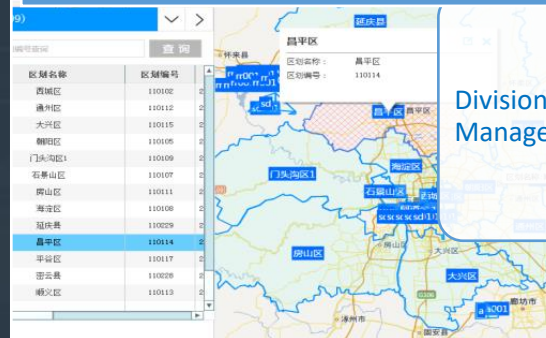
- Short-term factors
- Urban planning
- Implement plan
- Economic indicator
- Historical data
- Long-term factors
- Urban planning
- Development strategy
- Long-term economics trend

Precise and real-time display of sales network



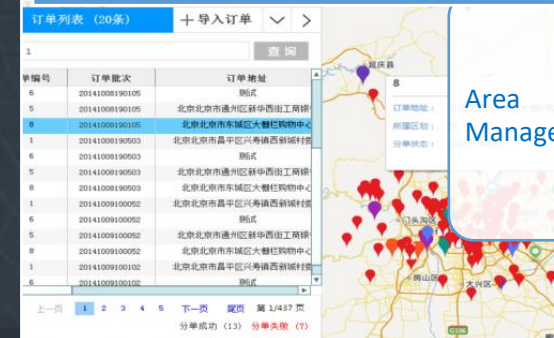
Sales Network Management

Fine management of business scope



Division Management

Position the areas of responsibility



Area Management

Provide optimal Delivery Routes



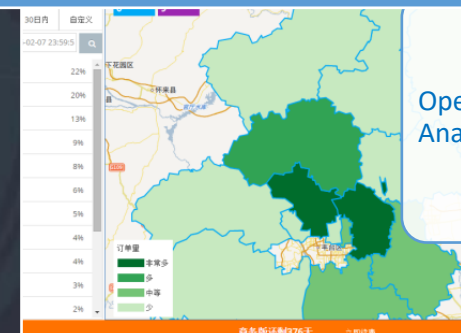
Route Planning

Get position and status of staff, vehicles, and goods



Vehicle Management

Statistical analysis and visual display of business data



Operational Analysis

Data Visualization

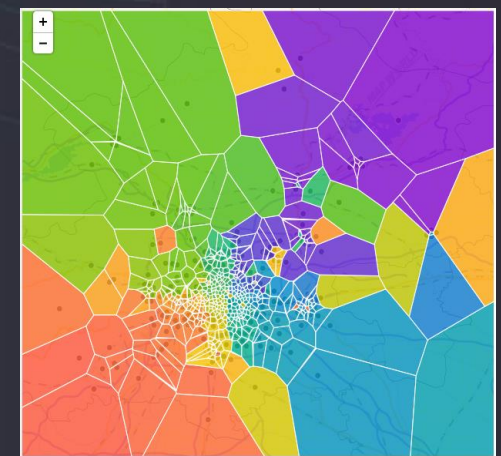
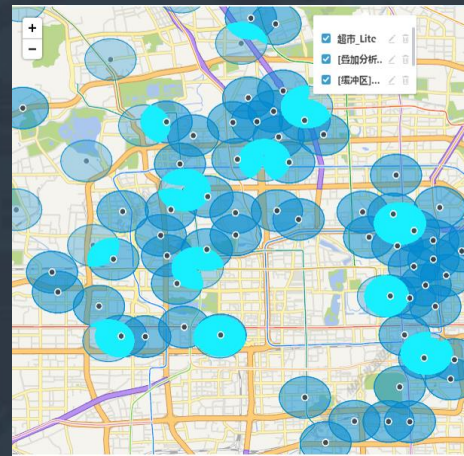
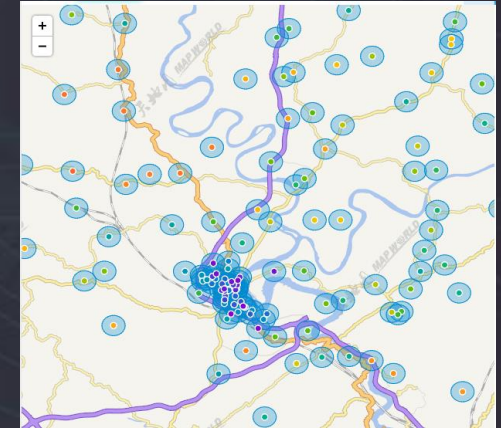
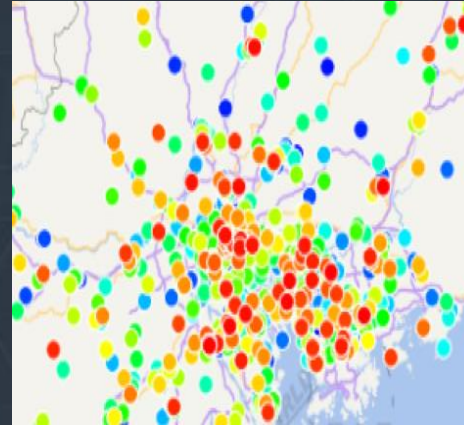
Gather external data of POI, industry and demography

Analytics to combine external data with internal data

Display strategic places, customer profile, location insight, competitor analysis, and distribution channel

Monitor the sales review

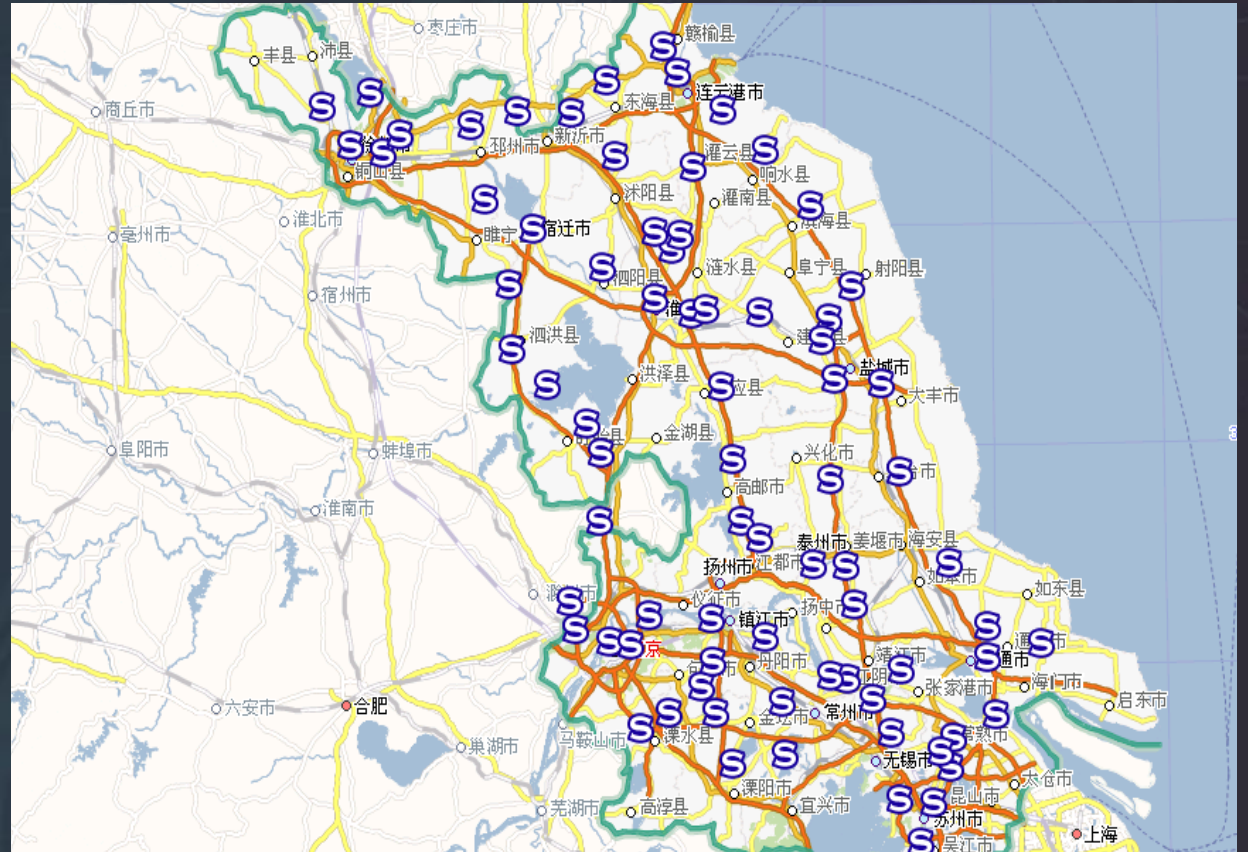
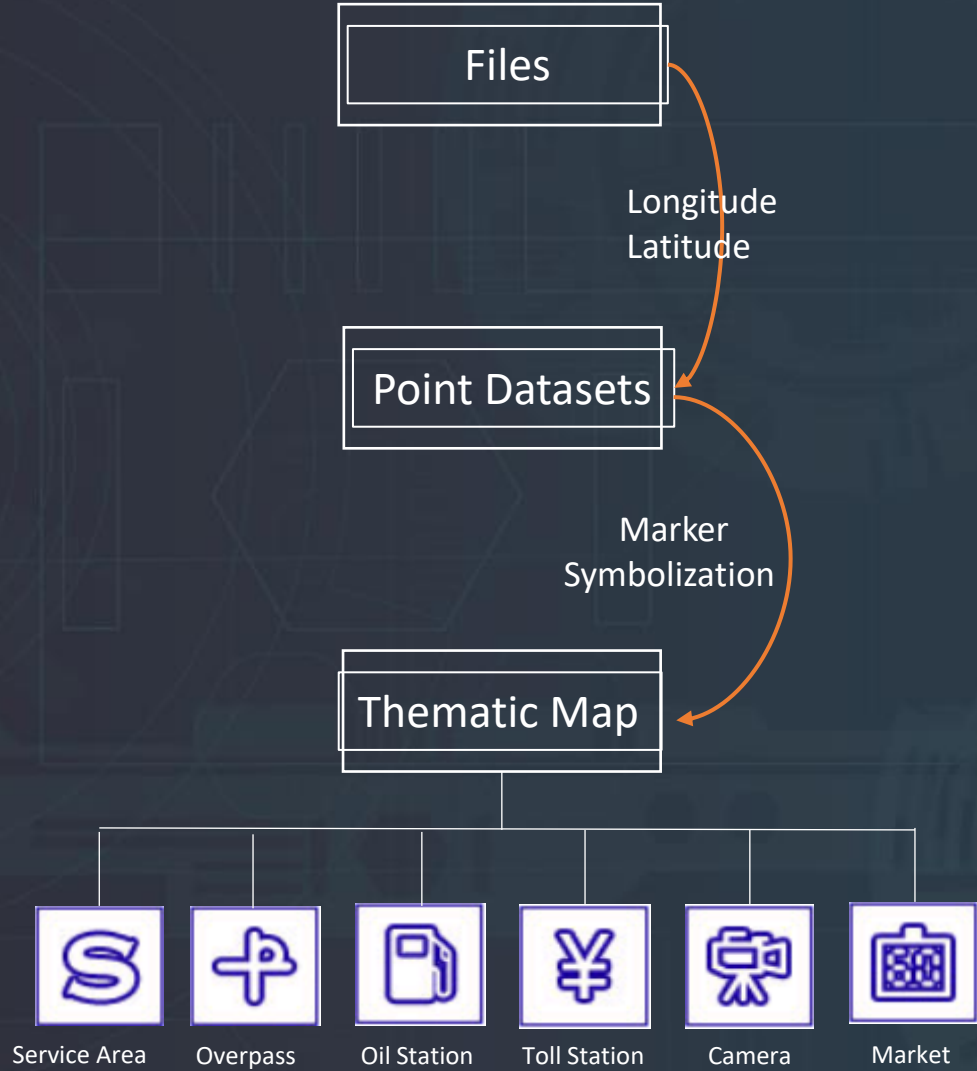
Segmentation



External Data Library

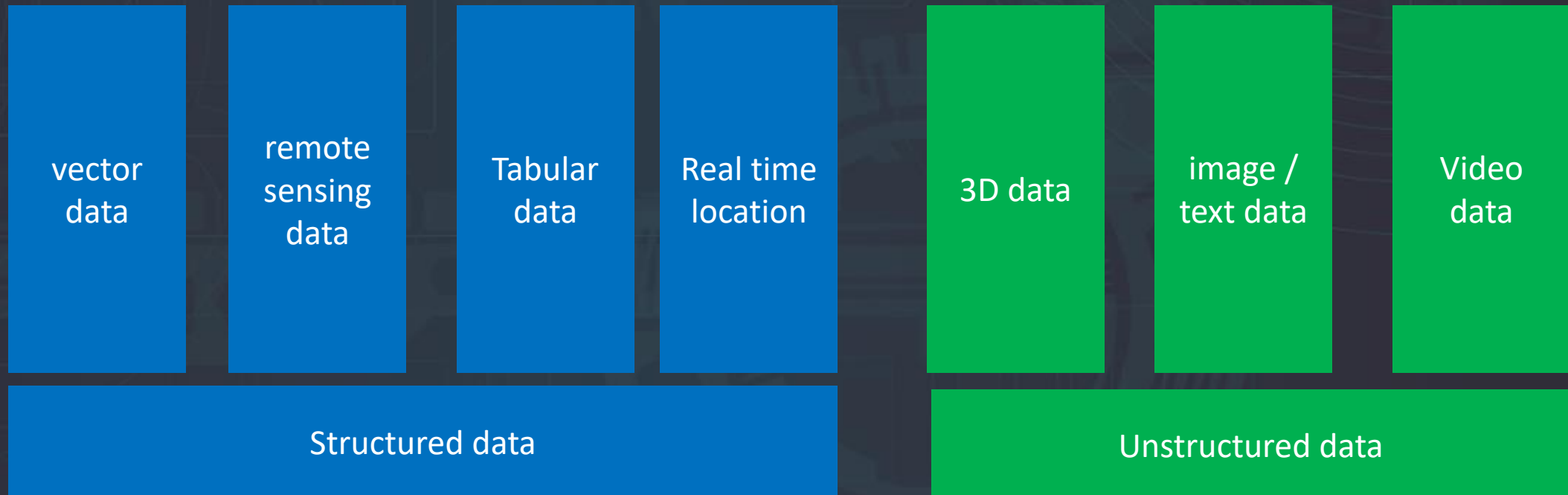
- Population
- Age
- Gender
- Expense
- Crime Level
- Education
- Zoning Regulation
- Disaster Area
- Land Value
- Road
- Public Facility
- Industrial Map
- Plantation and Mining
- Bus Route
- Tourism Industry
- Health
- Point of Interest (POI)

Data Visualization

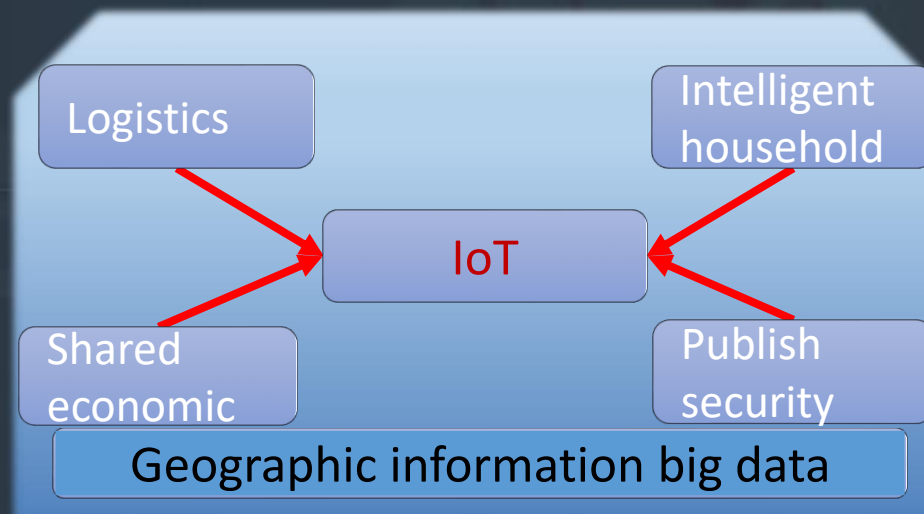
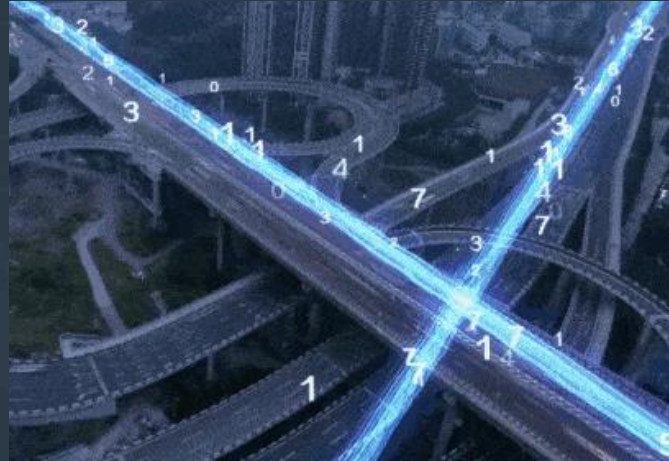


Resource pool

- Traditional cognitive
- Static data
- Dynamic data
 - point type
 - The data volume exploded
 - Data analysis and mining
- Single file size is big
- Not a lot
- as a map reference
- Large amount of data static data
- Multi-source data



Geographic Information and IoT





Congestion query

条件查询

年月: 2017年07月

星期: 星期天

是否工作日: ☒ 是

开始时间: 5点0分

结束时间: 10点0分

最小拥堵时长: 0 分钟

最大拥堵时长: 60 分钟

拥堵最少次数: 2

拥堵最大次数: 20

累计最小时常: 3

累计最大时常: 300

查询

Details

Road section information

Index: 4683

Road: 丁香路

Level: 3

Congestion times and duration

Times: 19

Duration: 306 Minutes

Other information

Data: (20170401-20170531)

Time: 20170630

Real-time Query

Data Analysis

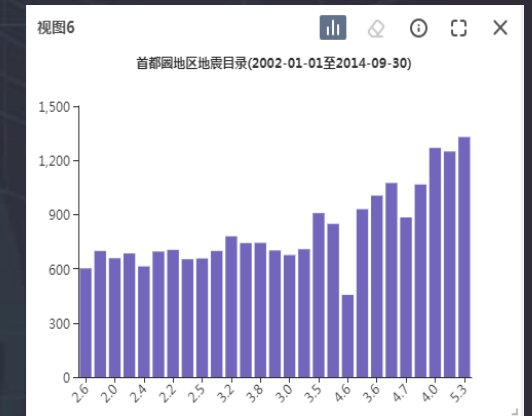
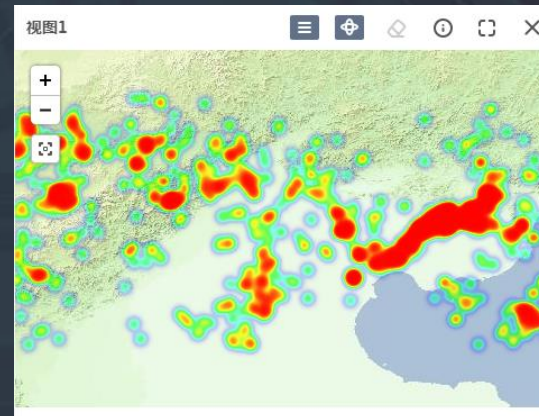
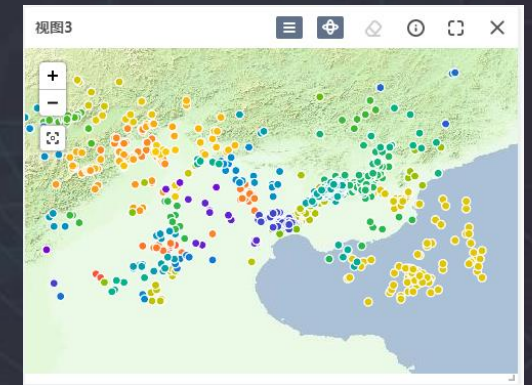
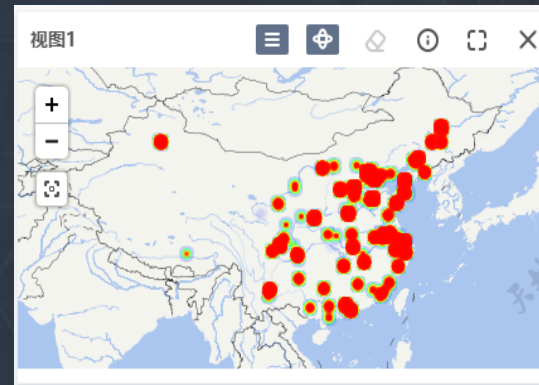
New leads for sales team, for new-to-bank customer

ATM network and branch optimization (Site Selection)

Quantify and cluster the size of each market potential

Calculate bank's market share in each branch location

Comprehensive dashboard data to see trends and display the statistic of total branch, population, average purchasing power (per capita), average income, etc



工作台

数据

添加数据

[点聚合]liaoning_1... 三

位置

序号

SmID

T SmSdrIW

T SmSdrIN

T SmSdrIE

T SmSdrIS

SmUserID

SmArea

SmPerimeter

SmGeometr...

SmGeoPosit...

RecordCount

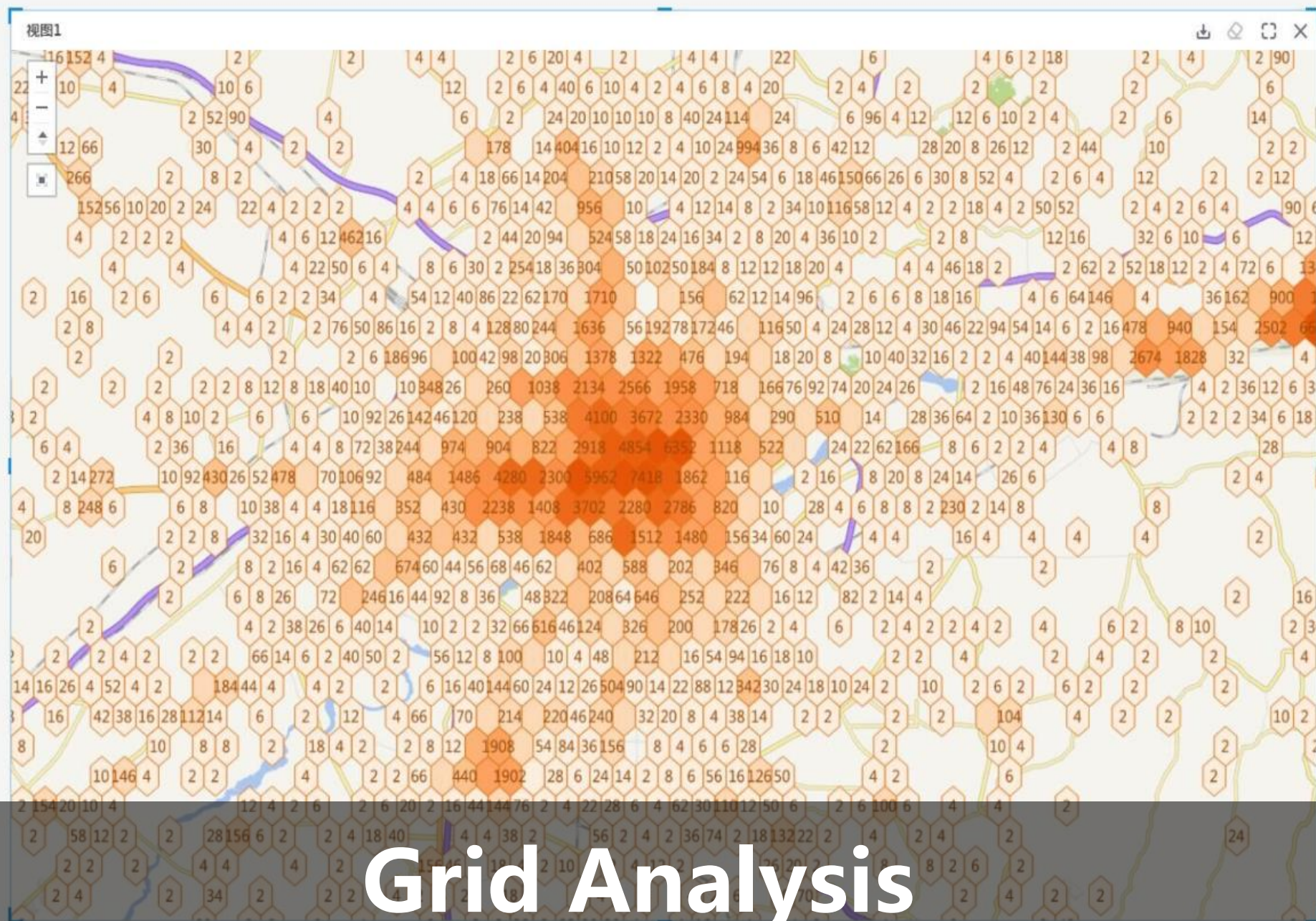
liaoning 三

序号

T CODE

X

Y



视图1

图层

分析

设置

标准工具

分布式工具

点聚合

点聚合为连续多边形...

数据集

liaoning_liaoning1000000

聚合类型

网格面聚合

网格面类型

六边形

网格大小(单位为:米)

1000

权重字段

未设置

统计模式

未设置

专题图分段模式

等距高分段

专题图分段参数

分析

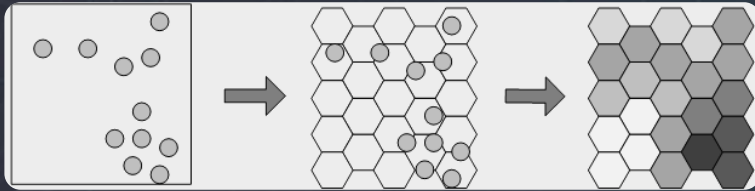
Grid Analysis

Spatial Density Analysis

The principle

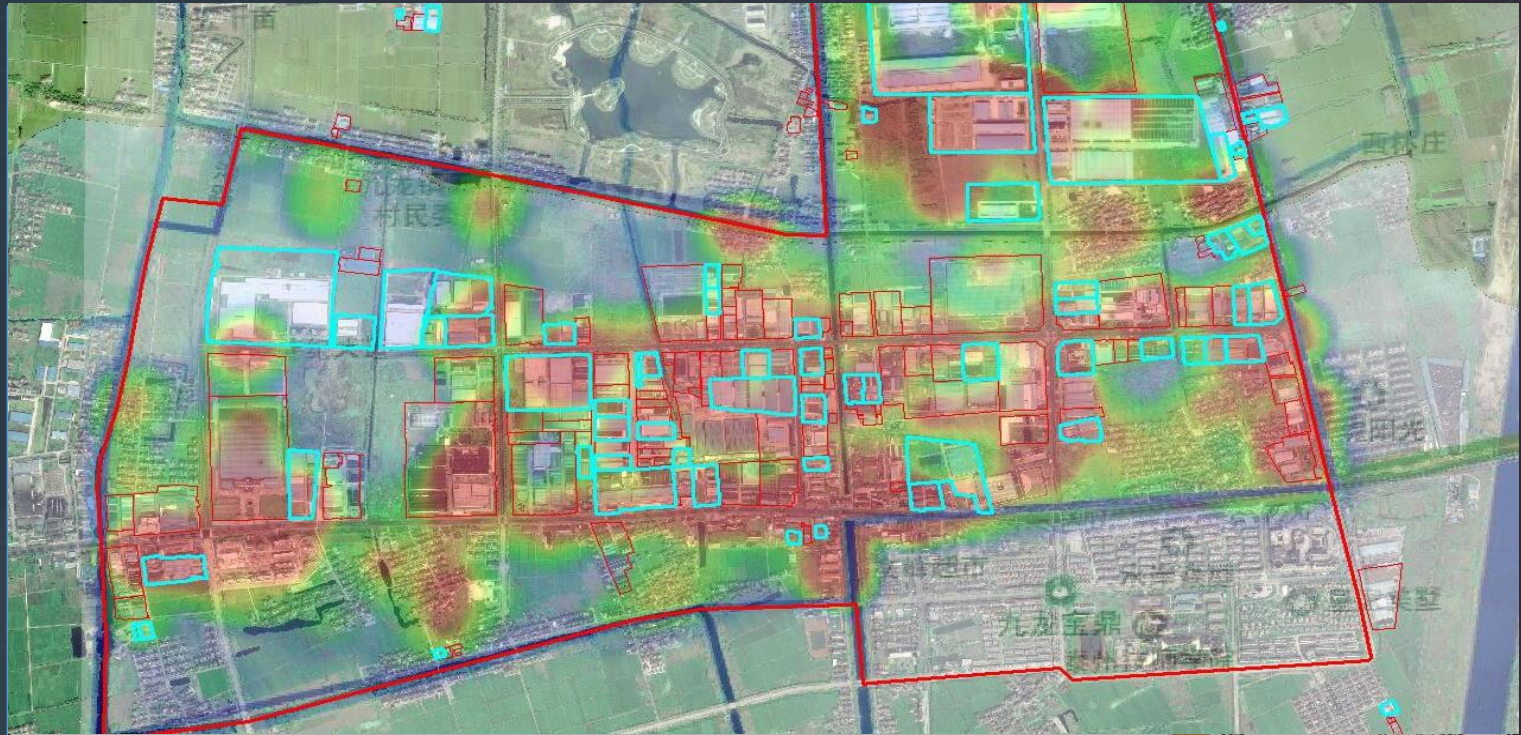
To calculate the spatial distribution density of elements, not only the area but also the surrounding influences are considered.

The legend



Application scenarios

The existing mobile signaling location data can be calculated to get the aggregation diagram of the flow distribution, which can assist in base station deployment and network optimization.



Building A Multivariable Grid

Function Introduction

- Summarize multiple data into one layer for display and analysis
- Support rectangular grid and hexagon grid

Grid Summary Method

- Nearest object distance / property
- Neighbouring / intersection object attribute statistics

Applicable scenario

- The site selection needs to be considered from multiple dimensions, such as population, population education, house price, surrounding shopping malls and other factors.





Bank

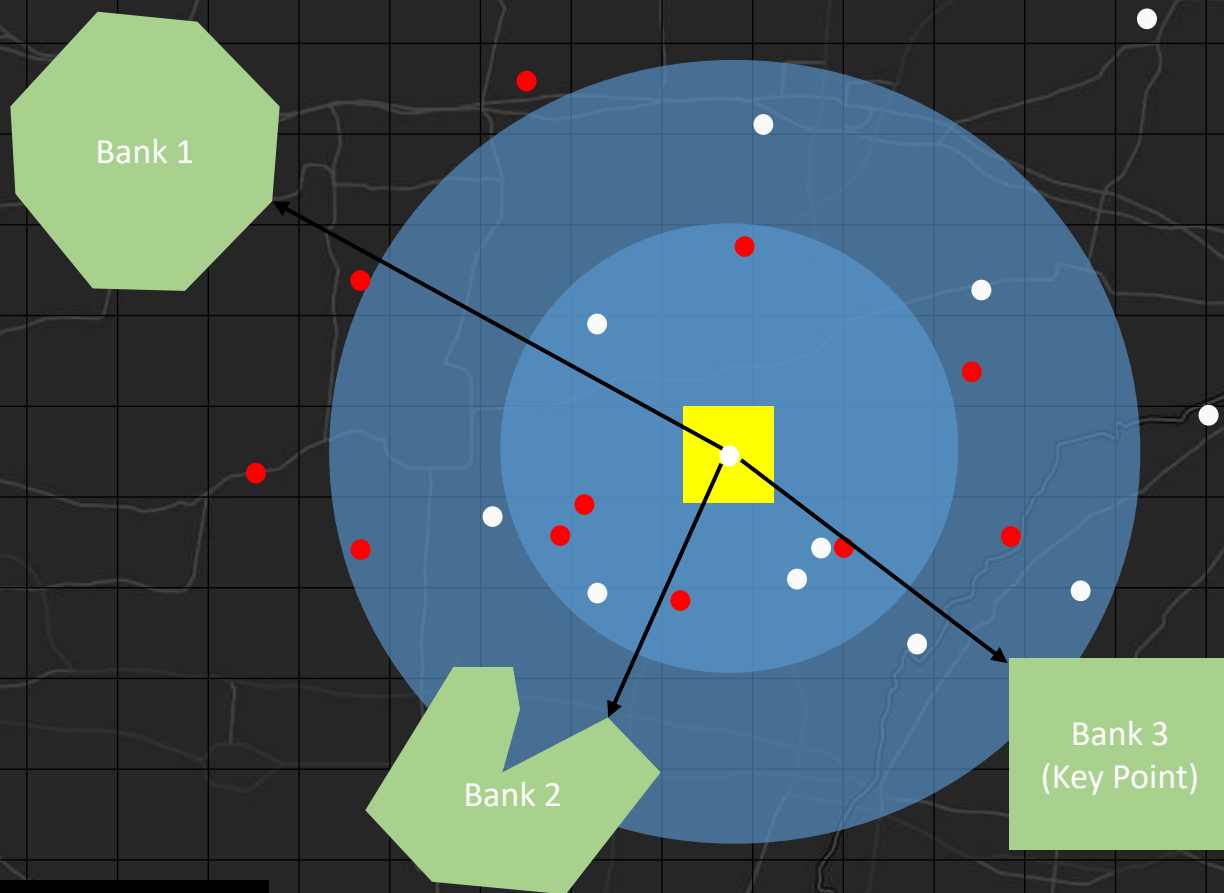
Bus Station

Hospital

	Nearest Bank Distance	5KM Key Bank
203	3600	Bank 3
...		

Object Distance/Attribute Summary

Neighbouring / intersection object spatial attribute statistics



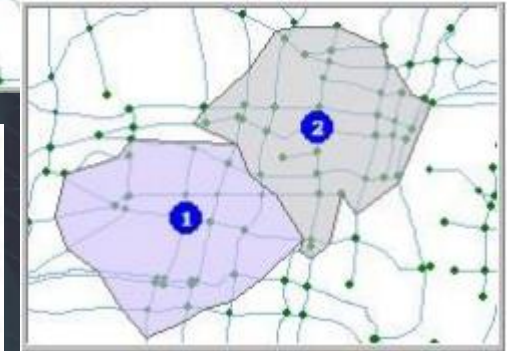
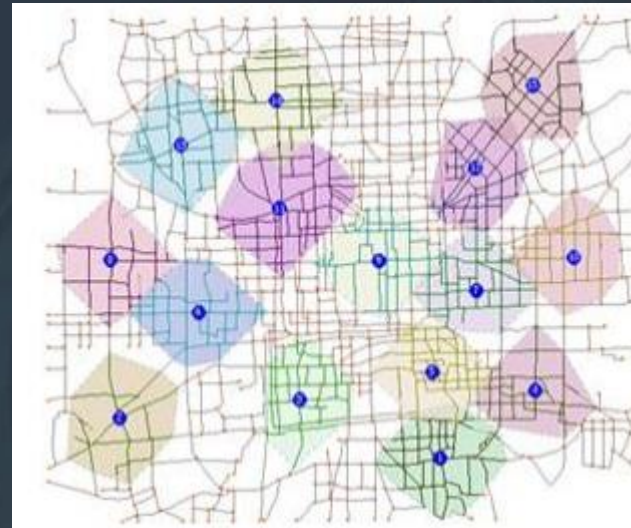
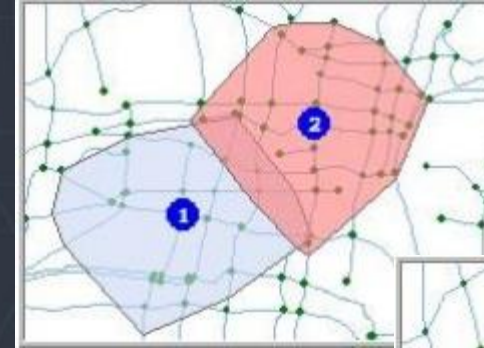
- Bank
- Bus Station
- Hospital

格网	最近 学校距离	5KM 重点学校	5KM 医院数量	10KM三甲 医院数量	5KM覆盖 公交站点	...
203	3600	学校3	4	2	4	

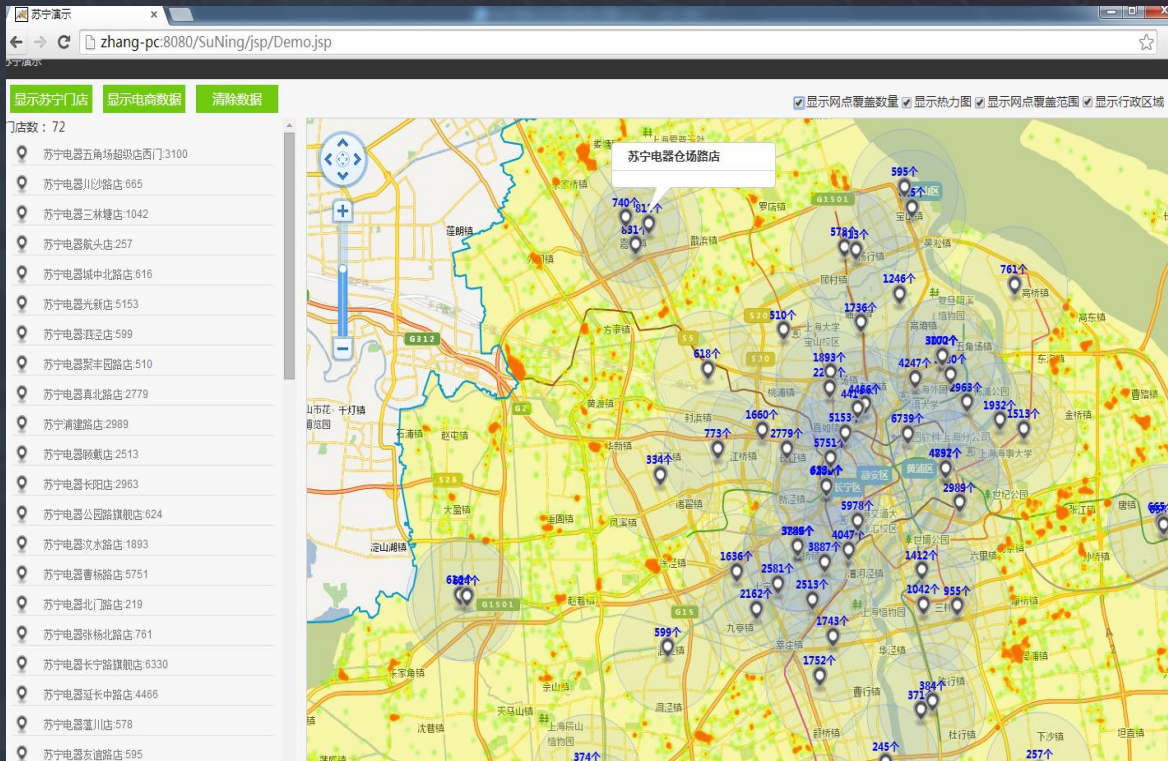


Service Area Analysis

The service area analysis mainly analyzes the service scope of the service facility to provide the decision-making for business analysis. A service facility generally has its own service radius, such as the different types of supermarkets have distinct service radius (service area).



Sales Network Management



天河潭旅游度假区GIS平台管理系统

172.21.24.31:8080/#!/bus

SuperMap

工作人员定位

工号: 01030
姓名: 姓名A7BK03

游客中心
卧龙湖
卧龙瀑布
银河富游船码头
休闲中心
欢乐草坪
卧龙湖 (木栈道亭)

车辆管理

编号	车牌号	状态	操作
01038	贵A70C03	-	📍🔗
01025	贵A70K0D	-	📍🔗
01024	贵A70K0C	-	📍🔗
01027	贵A70K0F	-	📍🔗
01026	贵A70K0E	-	📍🔗
01021	贵A7HK09	-	📍🔗
01020	贵A7CK08	-	📍🔗
01023	贵A70K0B	-	📍🔗
01022	贵A70K0A	-	📍🔗
01029	贵A7AK03	-	📍🔗
01028	贵A70K0G	-	📍🔗
01015	贵A7RK0B	-	📍🔗

第1至12条(共26条)

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Vehicle management

天河潭景区GIS管理系统

172.21.24.31:8080/#!/bus

天河潭旅游度假区GIS平台管理系统

地图首页 人员管理 车辆管理 游客管理 景区大屏 景区监控 景区广播 景区热点

车辆管理

搜索

编号	车牌号	状态	操作
01038	贵A70C03	-	📍 🔗
01025	贵A70K0D	-	📍 🔗
01024	贵A70K0C	-	📍 🔗
01027	贵A70K0F	-	📍 🔗
01026	贵A70K0E	-	📍 🔗
01021	贵A7HK09	-	📍 🔗
01020	贵A7CK08	-	📍 🔗
01023	贵A70K0B	-	📍 🔗
01022	贵A70K0A	-	📍 🔗
01029	贵A7AK03	-	📍 🔗
01028	贵A70K0G	-	📍 🔗
01015	贵A7RK0B	-	📍 🔗

第1至12条(共28条)

车辆定位信息

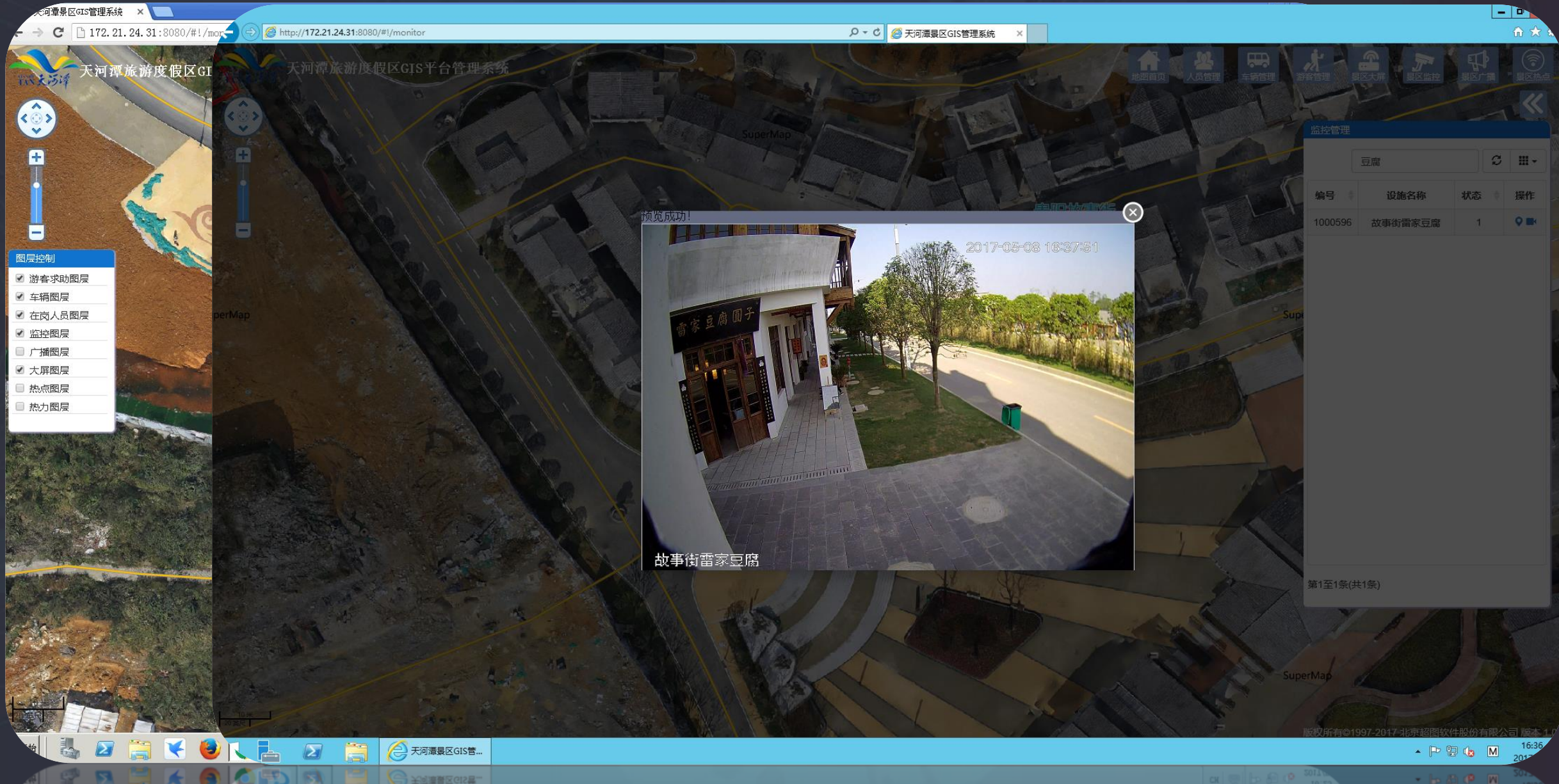
编号: 01028
车牌号: 贵A70K0G
时间: 2017-05-06 13:27:04

SuperMap

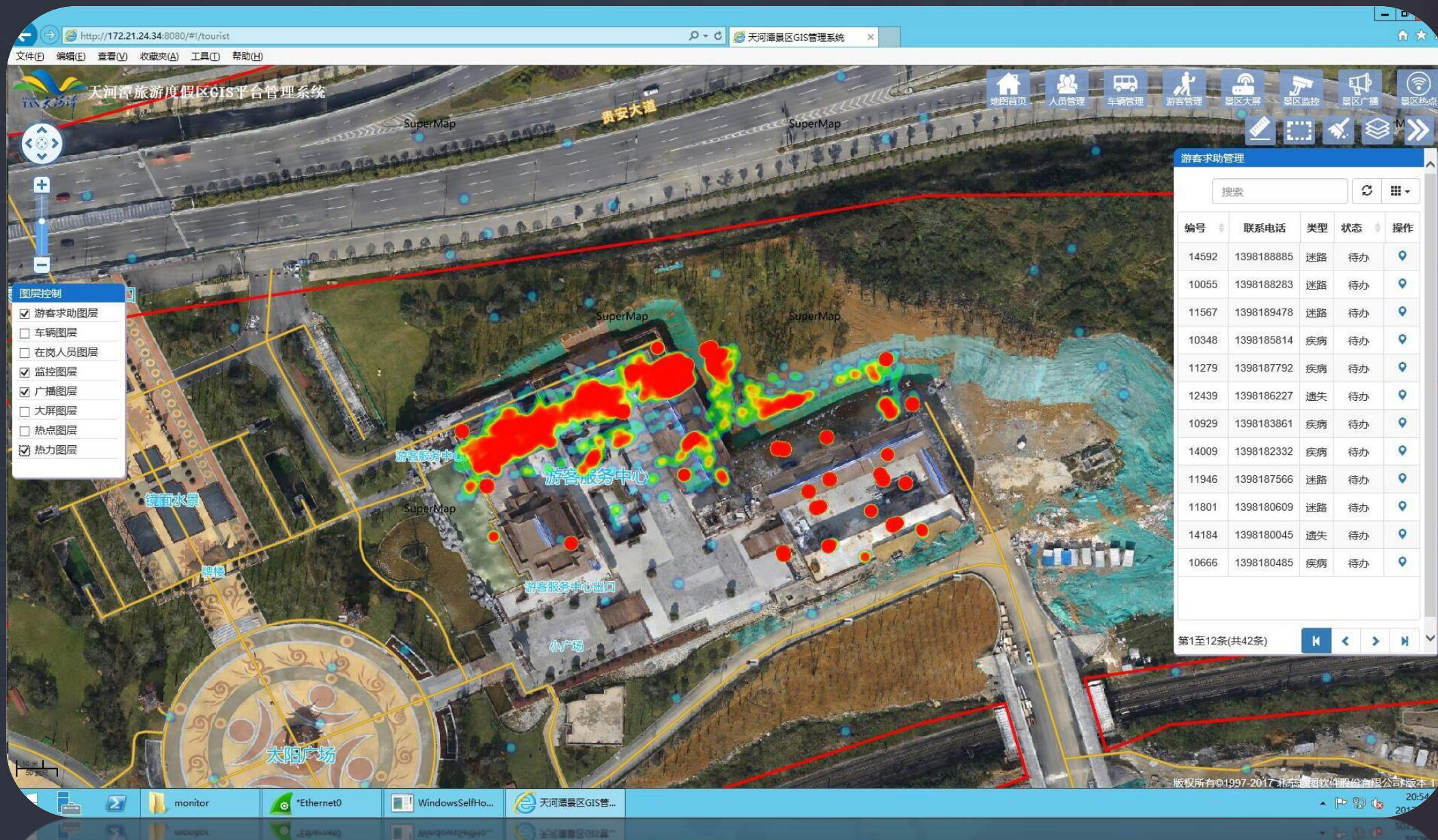
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16:22
2017/5/6

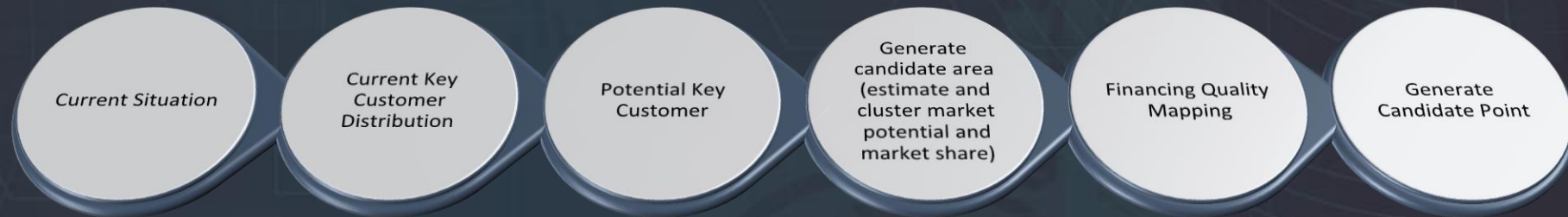
CCTV Integration



Heat Map Display

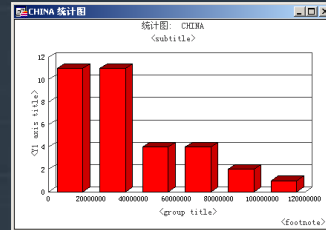


Location Analysis Simulation



Location Analysis

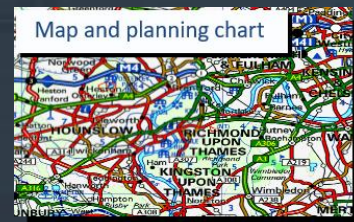
Business Survey Data



Social Economic Data

Branch	96 Rev	Employees	Productivity	96 Target	Address
1. Charing	£ 24,250	45	450	£ 22,275	King St
2. Ascut	£ 8,600	11	800	£ 9,680	19 High Street
3. Dunningdale	£ 9,000	12	750	£ 9,900	Station Parade Ln
4. Backwell	£ 17,600	25	700	£ 19,250	1 High St
5. Gerrards Cross	£ 1,000	6	300	£ 1,900	Children House, 1...
6. Hendey	£ 18,400	29	600	£ 20,240	10 West St
7. Hungerford	£ 5,640	12	470	£ 6,204	30 High Street
8. Marlow	£ 16,790	23	730	£ 19,489	10 High Street
9. Newbury	£ 5,940	18	330	£ 6,534	6 Market Place
10. Pangbourne	£ 5,160	12	430	£ 5,676	12 Reading Rd
11. Reading	£ 16,380	42	380	£ 18,018	273 Eastingstone I
12. Caversham	£ 5,280	11	480	£ 5,808	2-4 Church Road
13. Wokingham	£ 2,700	6	480	£ 2,870	184 Crowthorne Rd

Map and Planning Chart



Client information

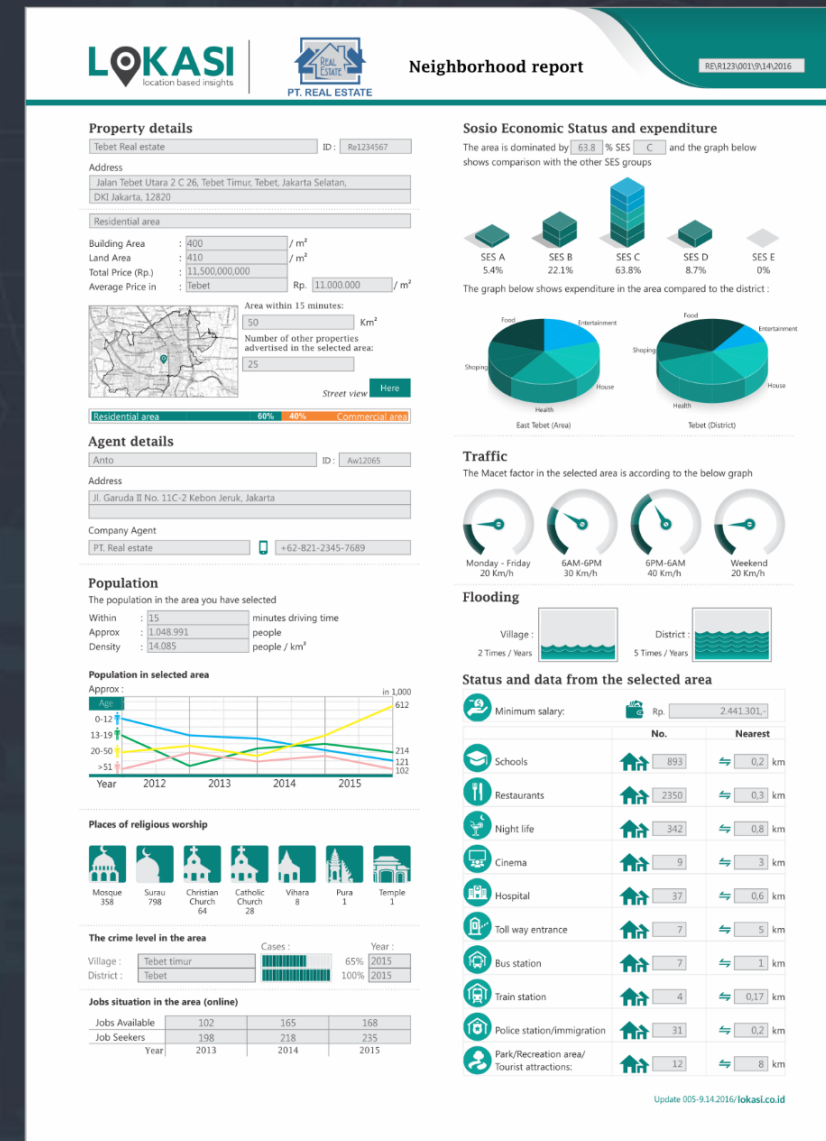
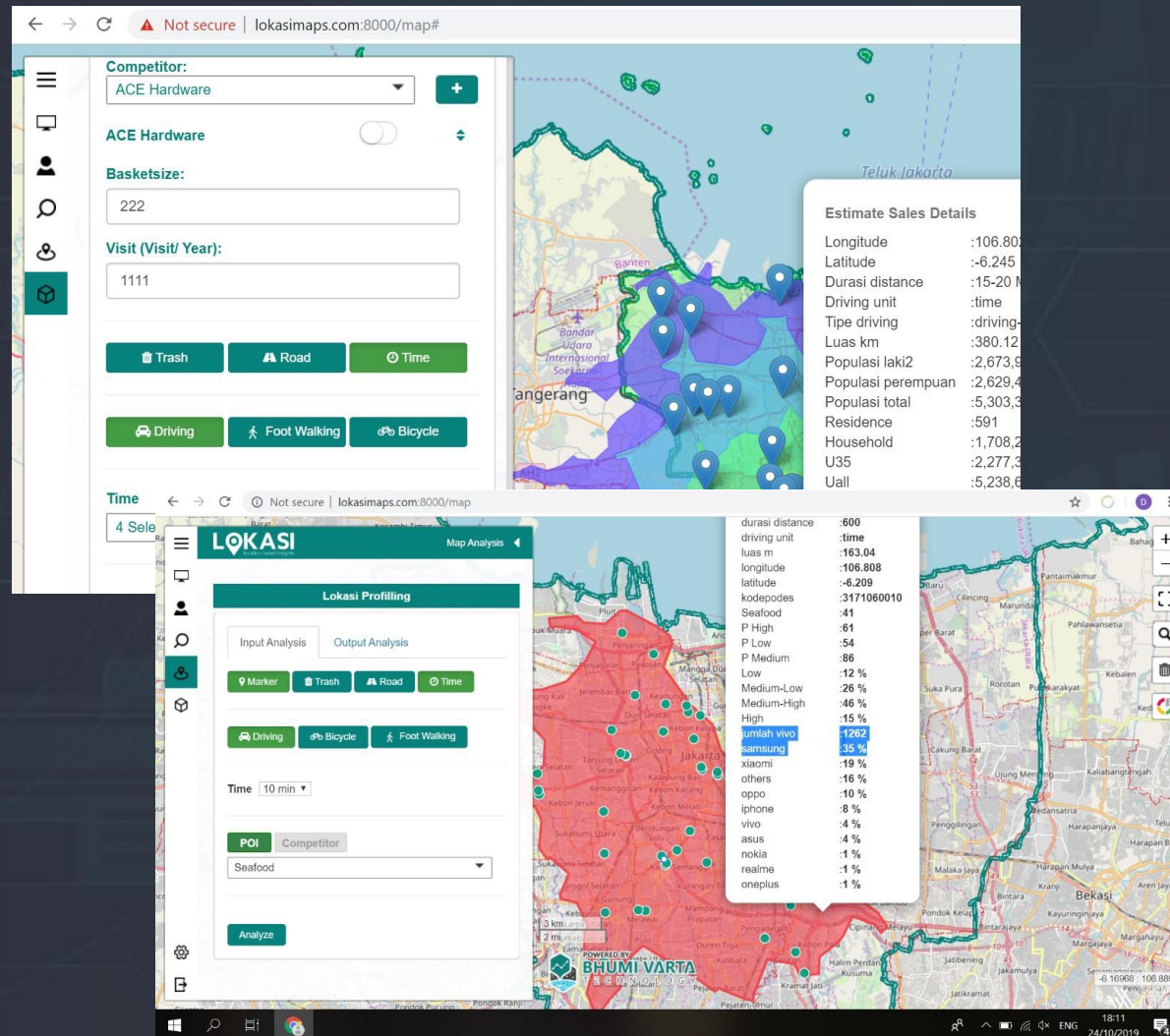
Bank information

Traffic network information

Thematic map of society, economic and population

Geographic map

Location Insight



Mobile Reporting

- GPS is used to locate the incident, fill in the form information quickly, assist multimedia means such as photographing, hand drawing, audio, etc., clearly display the site status, and report in real time based on the mobile network



Location



Report



Checking

Advantage

Monitor activity in real time

Optimize ATM network and acquire customers with less branches by analyzing site location

Being agile in market change as technology also keep changing

Improve Sales Productivity

Position and Audience of Data Science Service

Position: Platform for GeoAI and Spatial Data

Meet the needs of online data processing, modeling, mining and analysis based on spatial data

GIS analyst



Developer



Data analyst



Data Scientist



Spatial today.

SuperMap

Thank you!

Email : vella@supermap.com