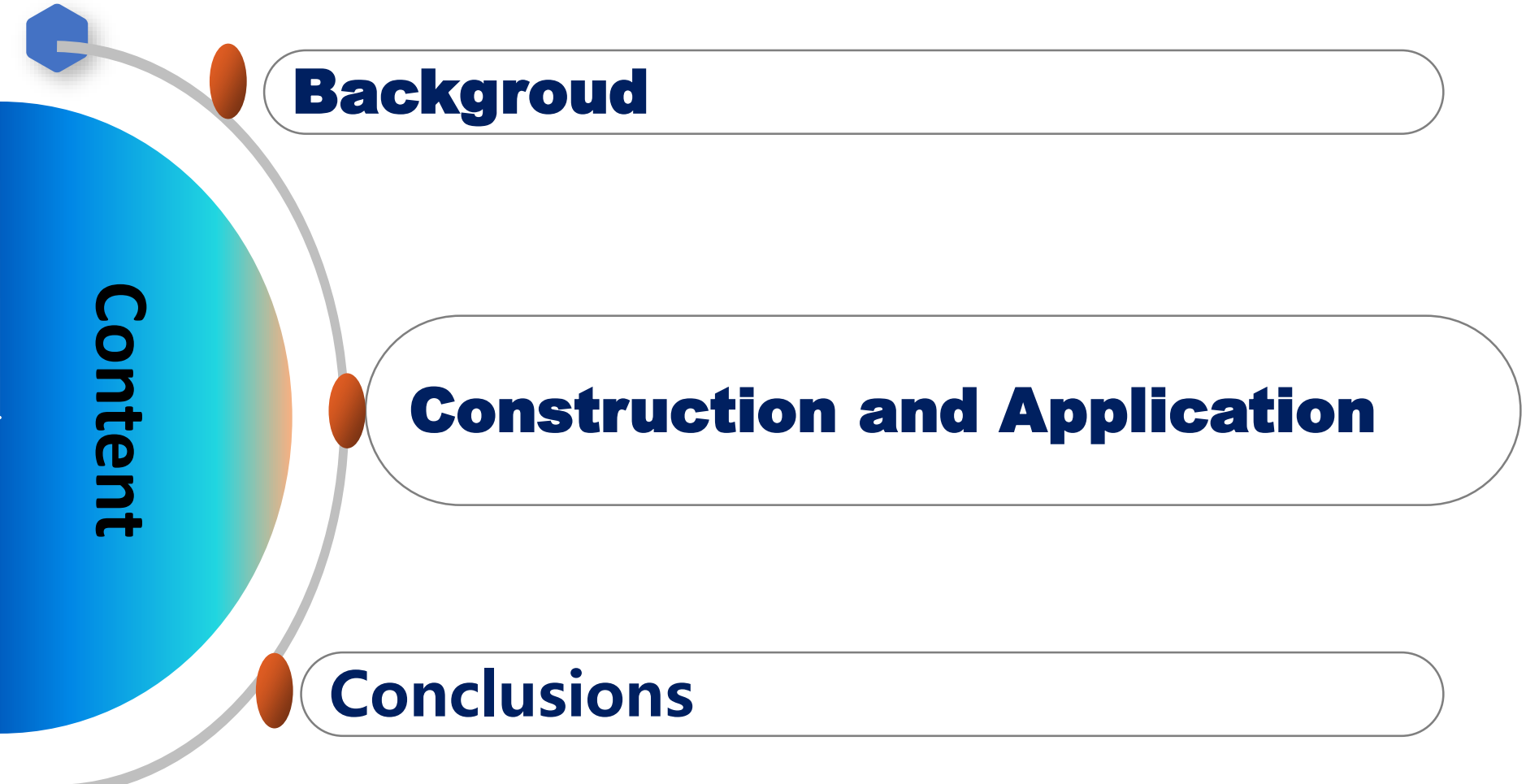


Construction and Application of Smart Land Administration in Wuhan

Peng Mingjun, Luo Changlin
Wuhan Land Resources and Planning
Information Center
Sep. 28th, 2018







1 Background

1 Background

(1) For State level: information technology has become an important means to promote the modernization of its governance capacity.

- ◆ The technology guidelines for the construction of the “Internet + government service” was released by the State Council in 2016.
- ◆ It's necessary to improve the government services on the Internet for all level management departments.



1 Background

(2) For Ministry level: informatization is an important method to improve the ability of land resources management and provide service to people's livelihood.

The general framework for the construction of land resources cloud was released by the Ministry of Land and Resources information center in 2016.

- ◆ Eliminating the isolated information of lands resources
- ◆ Expanding resource sharing
- ◆ Expanding the informatization service range for the whole business of land resources management.
- ◆ Ensuring the data of land resources are updated in real time.

1 Background

(3) For province level: the department of land resources in Hubei province carried out the construction of Land Resources Cloud.

The notice on construction smart land resources cloud was released by the department of land resources management of Hubei province in 2016.

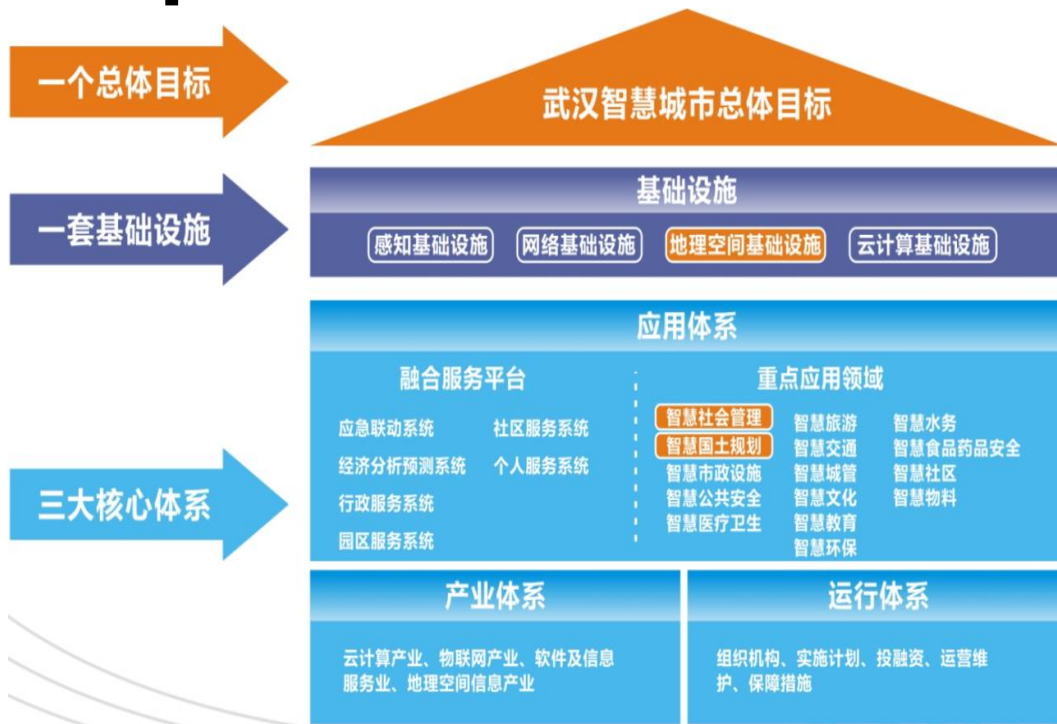
- Constructing the cloud architecture service.
- Constructing the provincial, municipal and country administrative service platform for land resources.
- Completing the all-level cloud construction within two years.

1 Background

(4) For municipal level: The land resources and planning cloud of Wuhan is put forward in 2013.

Smart City's general planning and design in Wuhan

- ◆ Smart Wuhan spatiotemporal information cloud platform.
- ◆ Smart Wuhan land resources and planning cloud platform.





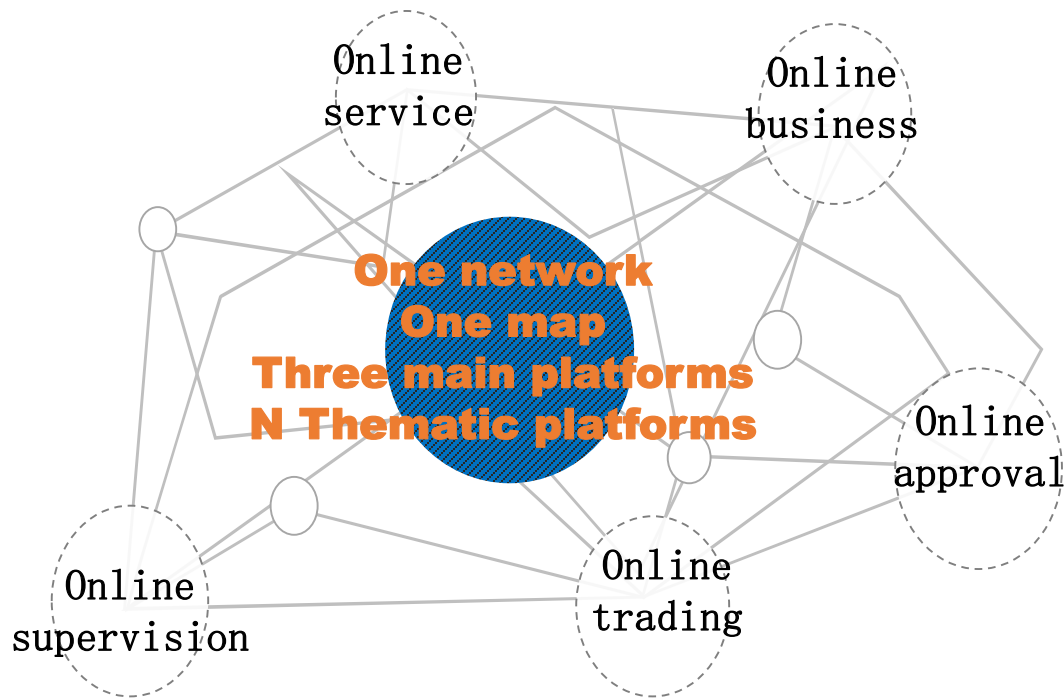
2 Construction and Application

2 Construction and Application

(1) General layout of the “smart land” in Wuhan

Component: “1+1+3+N” system

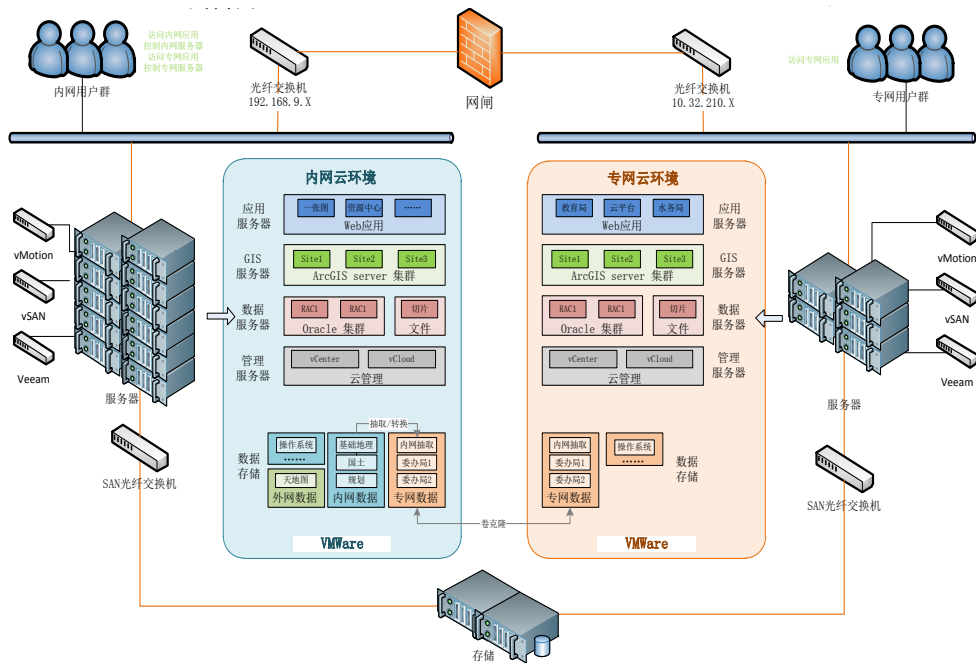
The goal: The governmental affairs and services of land resources and planning management are dealt with online office, examination and approval, trading, supervision and services etc..



2 Construction and Application

(1) Construction of network facilities

The three levels of network system, such as internal network, government affairs network and public internet, are constructed.



2 Construction and Application

(1) Construction of network facilities

- ◆ There are 2280 computers, 280 servers and 126 network equipments in Wuhan Land Resources and Planning Bureau, and the data amount reaches 1 Pb.
- ◆ They can provide smart government services and unique and universal geographic information service.



2 Construction and Application

(2) Construction of one map

The comprehensive map of land resources and planning was developed.

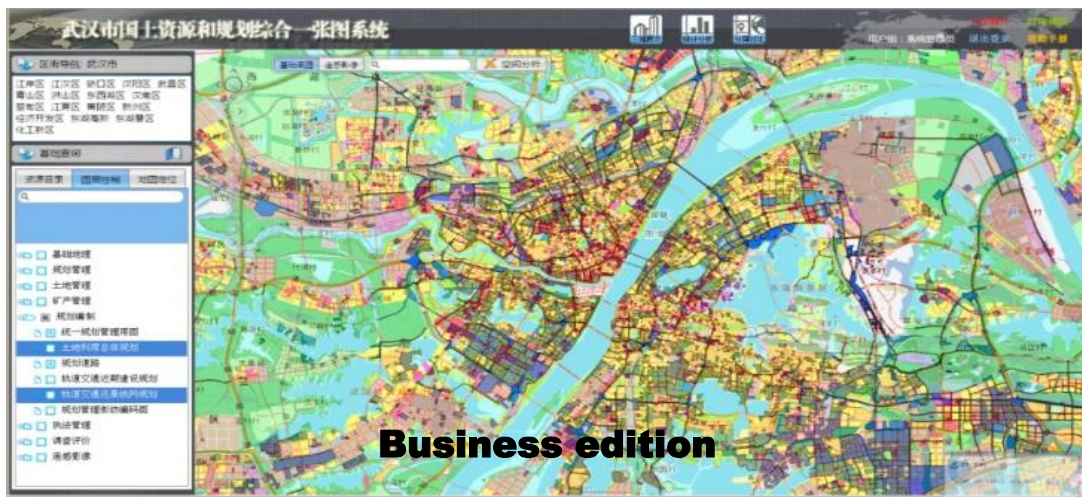
There are 1296 categories geographic data, including topographic maps, investigation and evaluation, planning, approval management, supervision, geology and mineral resources, economic and population, etc.



2 Construction and Application

(2) Construction of one map

- ◆ By developing the comprehensive map system of land resources and planning in the business, public and mobile editions.
- ◆ It provides data support for the application of query, approval and decision-making etc..



2 Construction and Application

(3) Construction of e-government platform

Since 1999, the e-government platform has been updated 4 times. Over the past ten years, we have continuously applied new technologies and concepts to meet the needs of business management reform, effectively supporting the “Internet+Innovation in management”.

C/S V1.0

B/S V2.0

SOA V3.0

SOA+BPM V4.0

1999年

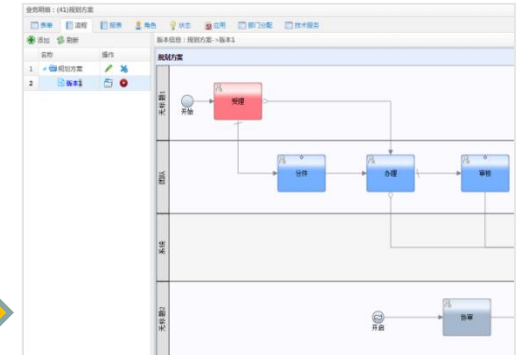
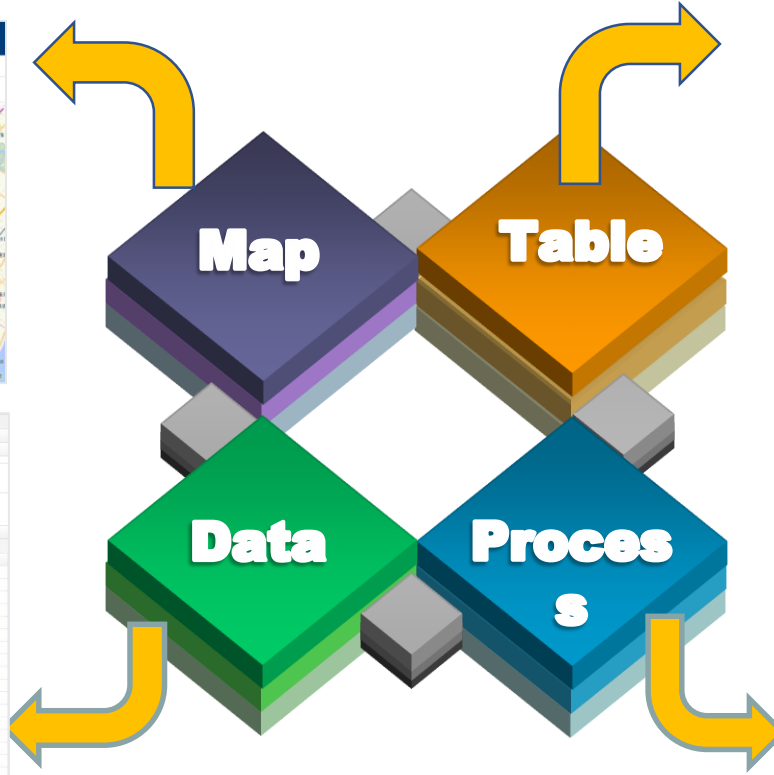
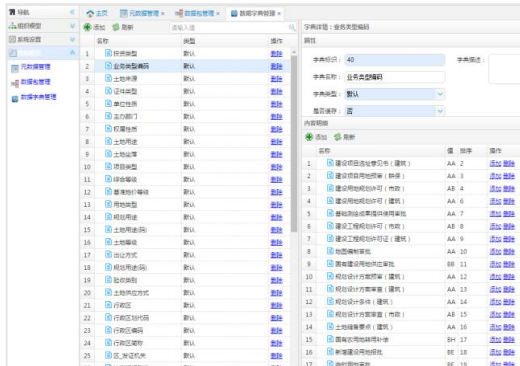
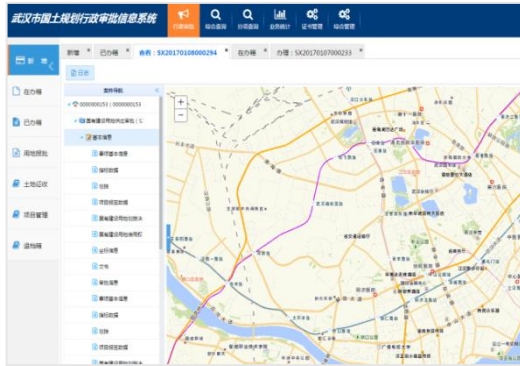
2005年

2011年

2016年

2 Construction and Application

(3) Construction of e-government platform



2 Construction and Application

(4) Construction of public service platform

- ◆ The smart land resources and planning service website is constructed.
- ◆ It provides perfect government information services for the public.



2 Construction and Application

(4) Construction of public service platform

Opened the “Wuhan land planning” wechat public account, providing public information service as a new window by micro-portal, micro-services and micro-matrix.



2 Construction and Application

(4) Construction of public service platform

The Wuhan portal of map world was constructed, the massive online spatial geographic information data services and functional smart technology services, to provide timely and authoritative geographic information services for the public.



2 Construction and Application

(5) Real estate registration management information platform

Registration agency Registration book Registration basis Information platform

The unification of information platform is the most important thing.



2 Construction and Application

(5) Real estate registration management information platform

① Step 1

Basically completing the integration of information, the development of registration and certification system, and completing the remittance of real estate registration information in

2015-2016

③ Step 2

Constructing the real estate one map system, real estate data analysis system, expanding the real estate registration information sharing.

2016-2017

① Step 3

We will establish a working mechanism for data updating, sharing and exchanging, and the application of the information platform, and constructing a first-class information platform for the unified registration of real estate.

2017-2018

2 Construction and Application

(5) Real estate registration management information platform

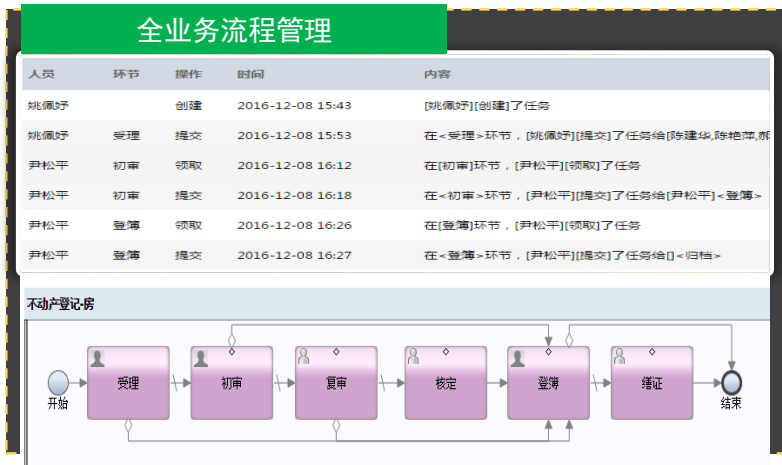


2 Construction and Application

(5) Real estate registration management information platform

Real estate registration and certification information system:

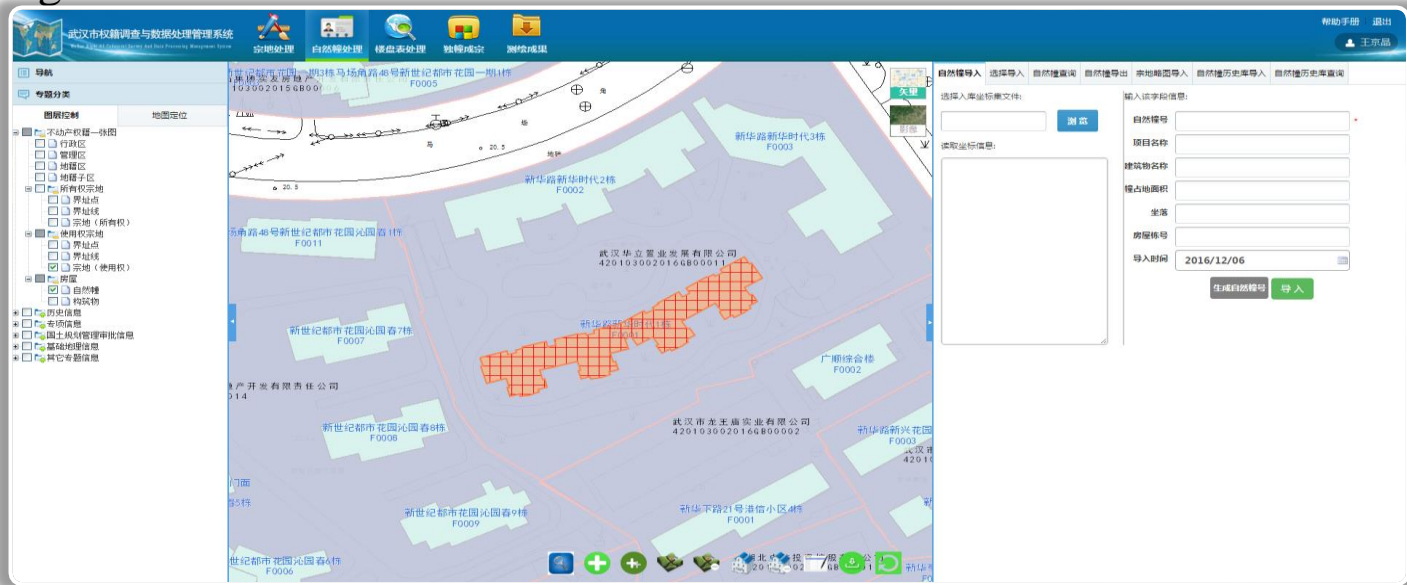
mainly for 13 categories, 63 small categories of real estate registration business types, We will implement the management and operation of receiving, accepting, registering and archives of all kinds of real estate registration business.



2 Construction and Application

(5) Real estate registration management information platform

Right investigation system: to realize the integrated management of real estate investigation information in Wuhan.



2 Construction and Application

(5) Real estate registration management information platform

Information sharing system: to real-timely share real estate registration information at all levels of land resources, construction, agriculture and forestry and other departments.

测绘成果共享

房产信息共享

银行信息共享

文件列表

文件编号	文件名	上传
2016070100276	2016第422 武汉魏科光电激光技术股份	
2016070400282	2016丘0177 (卖前) 武汉魏科光电激光	
2016070500288	武汉魏科光电激光技术有限责任公司	
2016120700574	2016第422 武汉魏科光电激光技术股份	

产权证号	房屋坐落	房屋类型	权证状态	权证类型	权证日期	房屋坐落
71	2016 11023 836	其他房屋买卖合同	未注册	房屋买卖合同	2016 05 17	洪山区流塘大洲4号住宅楼2单元206号人室
67	2016 11065 146	实物经济适用房/经济适用房/经济适用房	未注册	房屋买卖合同	2016 06 07	汉阳区五里墩村二里湾1号11楼
21	2014 11020 103	商品房买卖合同	全部注册	房屋买卖合同	2014 09 09	东湖新技术开发区关山大道光谷世界中心国际商务楼
21	2016 11023 421	商品房买卖合同	房屋买卖合同	房屋买卖合同	2016 03 18	洪山区洪山乡流塘村(原流塘村)自留地安置一期11栋1单元101号1楼
22	2015 11041 645	经济适用房买卖合同	房屋买卖合同	房屋买卖合同	2015 06 16	江宁区溧水经济开发区201号街坊天兴花园2号住宅楼401室

业务号	报备单位	法定代表人	营业执照	金融许可证号
YHBA201600090	中国工商银行股份有限公司武汉新洲支行	胡国祥	914201177227292667	800015242900021
YHBA201600089	兴业银行股份有限公司武汉分行	曹翔阳	91420000739119544C	800138242010001
YHBA201600088	华夏银行股份有限公司武汉经济开发区支行	徐辉	91420100757035782J	800085242010007
YHBA201600087	华夏银行股份有限公司武汉江岸支行	彭应国	91420100773929356W	800085242010008
YHBA201600086	华夏银行股份有限公司武汉洪山支行	司德明	91420100662288621W	800085242010009
YHBA201600085	华夏银行股份有限公司武汉水磨湖支行	肖刚	91420100685444420E	800085242010014
YHBA201600084	华夏银行股份有限公司武汉汉口支行	汪俊	91420100780913627A	8000852420010003
YHBA201600083	华夏银行股份有限公司武汉汉阳支行	肖志勇	914201053037124510	800085242010022
YHBA201600082	武汉农村商业银行股份有限公司东湖风景区支行	余俊华	914201006918953674	810295242010092
YHBA201600081	招商银行股份有限公司武汉分行	文行赤	91420000877585797Y	800118242010001

2 Construction and Application

(5) Real estate registration management information platform

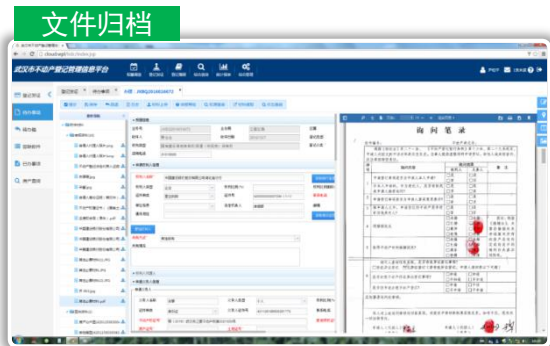
Crowdsourced public service information system: the public to provide real estate registration information online declaration, progress inquiries, wechat services.



2 Construction and Application

(5) Real estate registration management information platform

Real estate archive management system: to provide real estate registration archives scanning, integration, archiving and other integrated management.



2 Construction and Application

(6) Online supervision information platform for land consolidation

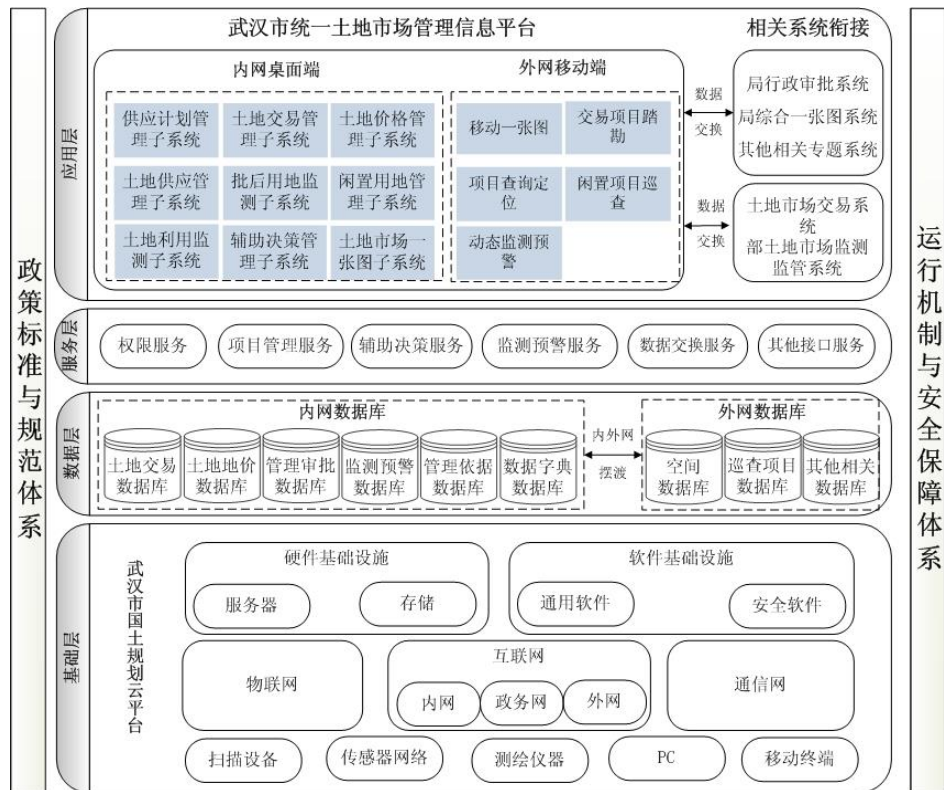
It's realized the network of project declaration, standardization of management, standardization of examination and approval, and dynamic supervision of the whole elements and whole process of land consolidation management across platforms and terminals.

It can meet the requirements of seamless docking and real-time exchange of information at the four levels of provinces, cities, districts and projects, as well as scalable and extensible multi-scene applications.

2 Construction and Application

(7) Land use management information platform

Realizing the dynamic monitoring of land transaction, quantity, scale, layout and price of land by year, by region, by type and by use, And early warning and decision support from land life cycle monitoring.



2 Construction and Application

(7) Land use management information platform

- ◆ Overall management of land use in the whole city
- ◆ City land transactions to supply, start and complete the life cycle monitoring early warning;
- ◆ Analysis of real estate market regulation in Beijing;
- ◆ Evaluation of land conservation and intensive use; Update of base premium.



3 Conclusions

3 Conclusions



The construction and application of smart land will play an active role in protecting land resources, economizing and intensive use of land resources, and striving to safeguard the rights and interests of the masses.

- ◆ Deepening the cloud technology system of land planning
- ◆ Establishing and perfecting the system of investigation, monitoring and supervision of land and resources
- ◆ Perfecting the smart management, decision and service system of land management



**Thanks for your
attention!**

