

# A National Perspective on Legal Frameworks for Geospatial Information Management

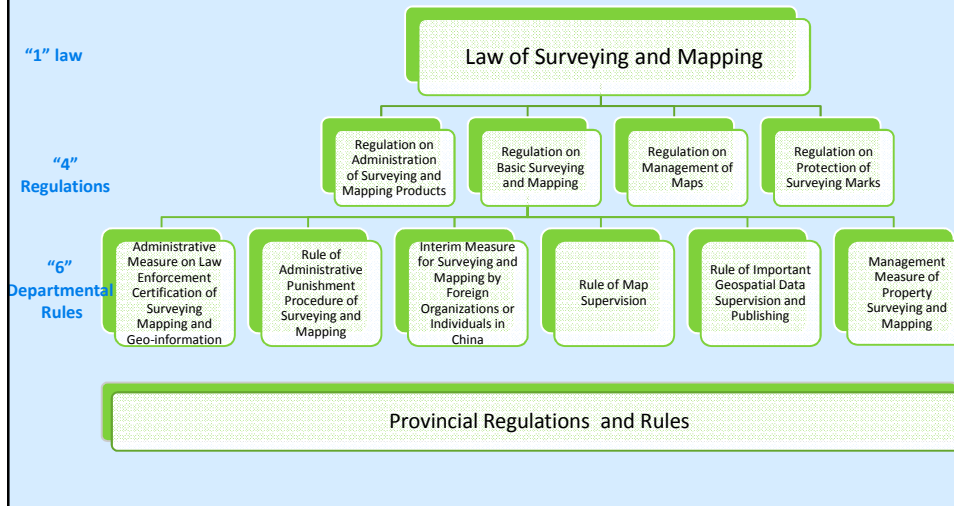
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## Ongoing Law and Regulations

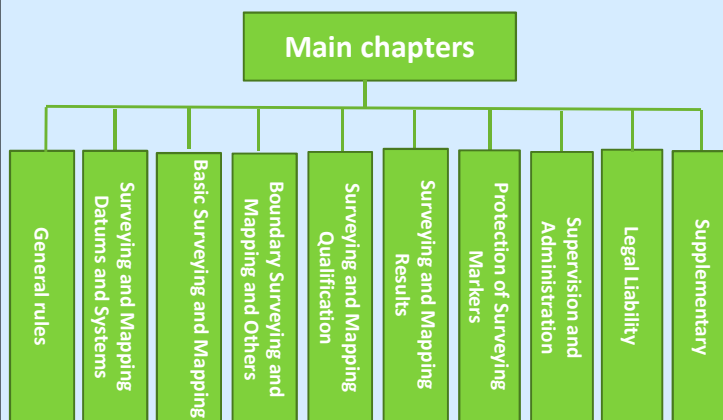


# Framework



# Law of Surveying and Mapping

- **General Law**



- Firstly published in 1992
- Revised twice
- The newest version has come into force since July 1, 2017.

## Special Regulation 1 – Regulation on Basic Surveying and Mapping

Effective Date: August 1<sup>st</sup>, 2009

### Scope of Application:

- Apply to the basic surveying and mapping activities conducted in the territory of the People's Republic of China and other sea areas under the jurisdiction of the People's Republic of China.

### Objectives: basic surveying and mapping, including:

- establishing a national surveying and mapping datum & system;
- conducting basic aerial photography;
- obtaining remote sensing images for basic geospatial information;
- updating national basic scale maps, images and digital products;
- establishing and updating Basic geospatial information System.

## Special Regulation 1 - Regulation on Basic Surveying and Mapping

### Key Points

- Basic Geospatial information collected in 3 levels:

Levels	Task	Range
National level	1: 1,000,000 to 1: 25,000 scale maps, images and digital products; Other basic surveying and mapping projects urgently needed	Whole country
Provincial level	1: 10,000 to 1: 5,000 scale maps, imaging maps and digital products	Local administrative region
Municipal and county level	1: 2000 to 1: 500 scale maps, imaging maps and digital products	Local administrative region

- Geospatial Data Sharing and Utilizing: the basic surveying and mapping products should be priority considered and utilized when other department needed.

## Special Regulation 2 - Regulation on Administration of Surveying and Mapping Products

Effective Date: September 1<sup>st</sup>, 2006

Scope of Application:

- The submitting, storage, utilization of geospatial information data.

Objectives:

- Data, information, maps and related technical materials formed through surveying and mapping.

## Special Regulation 2 - Regulation on Administration of Surveying and Mapping Products

Key Points

- Geospatial Data Submission
- Geospatial Data Opening
- Geospatial Data Sharing and Utilizing
- Geospatial Data Security and privacy
- Important Geospatial Data publishing

## Special Regulation 3 - Regulation on Management of Maps

Effective Date: January 1<sup>st</sup>, 2016

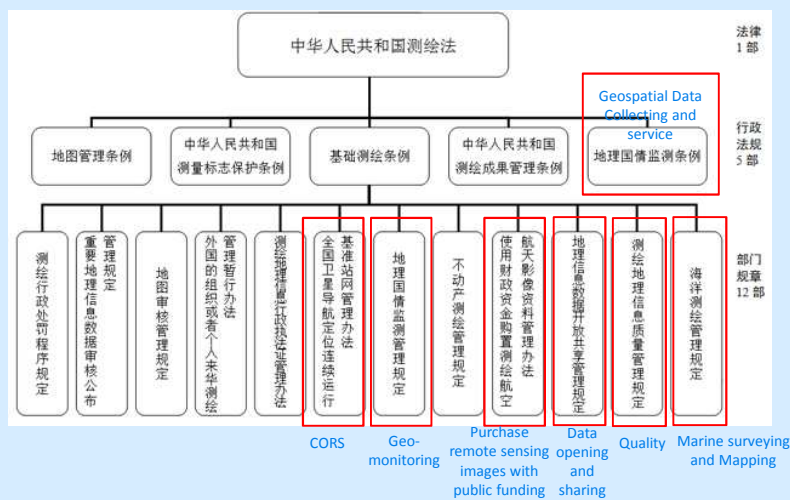
Scope of Application:

- Compiling, supervising, and publishing maps, and providing Internet map services, within the territory of the People's Republic of China.

Objectives:

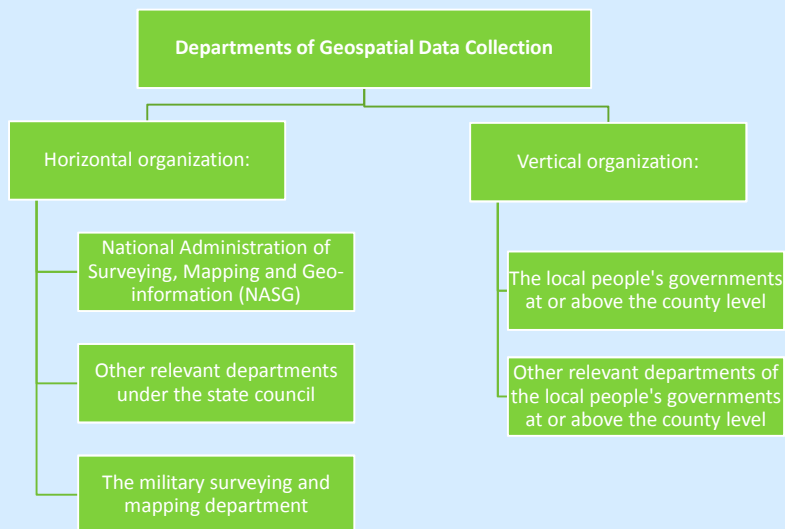
- Maps & Internet mapping services

## Future Framework in plan (2020)



# Terms Briefing

## Terms Briefing on Geospatial Data Collection



## Terms Briefing on Geospatial Data Collection

### Qualification Management ( 3 “Certification” ) for Geospatial Data Collection

1

Surveying and mapping qualification management, to the units engages in surveying and mapping, including qualifying legal personality; professional and technical personnel, **equipment and facility (including UVA)**, to conduct surveying and mapping activities, information security capacity.

2

Professional and technical personnel engaged in surveying and mapping activities shall have registered qualification certification.

3

Personnel to carry out surveying and mapping activities, shall have a surveying and mapping work authority document.

## Terms Briefing on Geospatial Data Submission

- Two format:
  - Basic surveying and mapping products
  - Directory of Non-basic surveying and mapping products

## Terms Briefing on Geospatial Data Opening, Sharing and Dissemination

### Geospatial information sharing among government agencies.

- **Principle:** When using public funds, Preferentially use existing outcomes from departments of surveying mapping and geoinformation.
- **Mechanism:** Establish mechanism to promote the co-construction and sharing of geospatial information resources among government departments.
- **Service Strengthen:** Conduct geo-monitoring for better government decision-making, social development and social public services.

## Terms Briefing on Geospatial Data Opening, Sharing and Dissemination

### Data sharing and opening to the public

- **Compile the catalog of surveying and mapping outcomes,** and publish it.
- Obtain, process and update **basic geospatial information,** and provide to the public through the public geospatial information service platform
- Encourage the development of the **geo-information industry,** support the development of various types of geospatial information products.
- Publish important geospatial data, such as location, elevation, depth, area and length of the territory of the People's Republic of China and other water area under the jurisdiction of the People's Republic of China.



## Terms Briefing on Geospatial Data Opening, Sharing and Dissemination

### Geospatial Information Sharing for Emergency

- provide the surveying and mapping outcomes such as maps and basic geospatial information
- conduct emergency surveying and mapping support such as remote sensing monitoring, navigation and positioning.

## Terms Briefing on Geospatial Data Opening, Sharing and Dissemination

- Way of supply: free and fee
- **Free:**
  - products of basic surveying and mapping and products of other surveying and mapping supported by state investment, provided for government decision-making, national defense construction and public services.
  - Any products of surveying and mapping, used by governments at all levels and the relevant departments, and the military, for disaster prevention and reduction, responding to emergencies and safeguarding national security and other public interests.
- **Fee:** except the above situations.

## Terms Briefing on Geospatial Data Opening, Sharing and Dissemination

- National, provincial, municipal and county departments of surveying mapping and geoinformation should work jointly to establish, and share a unified satellite navigation and positioning reference service system, to provide public services of navigation and positioning reference.



## Terms Briefing on Maps and Internet Map Services

- The compilation, publication, exhibition, publication and updating of the map shall comply with the national regulations of map compilation standards, map content representation and map verification.
- Internet map service provider shall use maps verified and approved, build map data security management system.

## Terms Briefing on Geospatial Data Security and Privacy

### Content of Security Management

- Construction, operation and maintenance of the satellite navigation and positioning reference stations shall comply to national standards and regulations, shall establish a data security system, and manage data comply with security laws and administrative regulations.
- Units engaged in surveying and mapping activities should have "technical and quality assurance system, safety and security management measures, information security management.
- Departments of surveying, mapping and geoinformation at or above the county level shall promote the producing of the public surveying and mapping products, and promote the social application of the surveying and mapping outcomes by providing public version products and security technology processing.
- The security range and level of surveying and mapping outcomes shall be adjusted and published, based on the principle of promoting the sharing and application of geospatial information On the premise of ensuring national security."

## Terms Briefing on Geospatial Data Security and Privacy

### Security Management

- **Establish geospatial information security management system and technical control system.**
- **keep the record of security geospatial information access, possession, provision and utilization for a long time.**
- Comply with national laws, administrative regulations and relevant rules.
- Confidential outcomes providing follow examination and approval procedures made by the State Council and the Central Military Commission.

## Terms Briefing on Geospatial Data Security and Privacy

### Privacy Protection

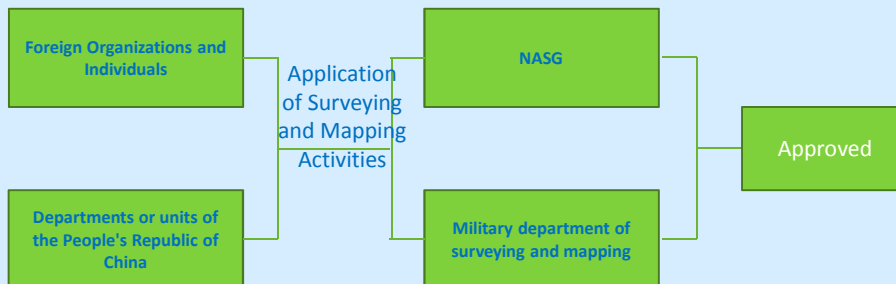
- Producers, users of geospatial information and the Internet mapping service providers shall collect and use personal information, in accordance with laws and administrative regulations.

### Intellectual Property Protection

- The intellectual property rights of surveying and mapping outcomes will be protected according to national laws.

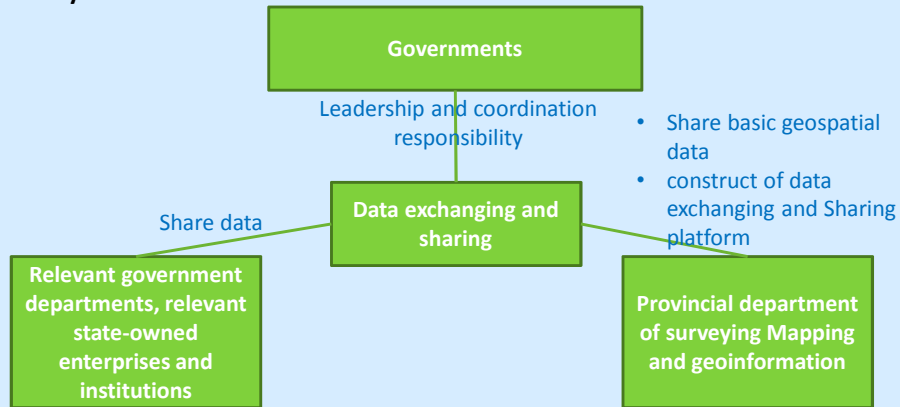
## Policies towards Foreign Organizations and Individuals

- Surveying and mapping activities shall be approved by the NASG, together with the military department of surveying and mapping.
- Shall cooperate with the relevant departments or units of the People's Republic of China
- shall not involve any state secrets or endanger the security of the state.



## Local Regulations of Geospatial Information Management – Case Study of Zhejiang Province

- Geospatial Data Exchange and Sharing Management Measures in Zhejiang province
- Geospatial Data Exchange and Sharing Platform Management Application Requirements in Zhejiang Province
- Key Points:



Thank you!