



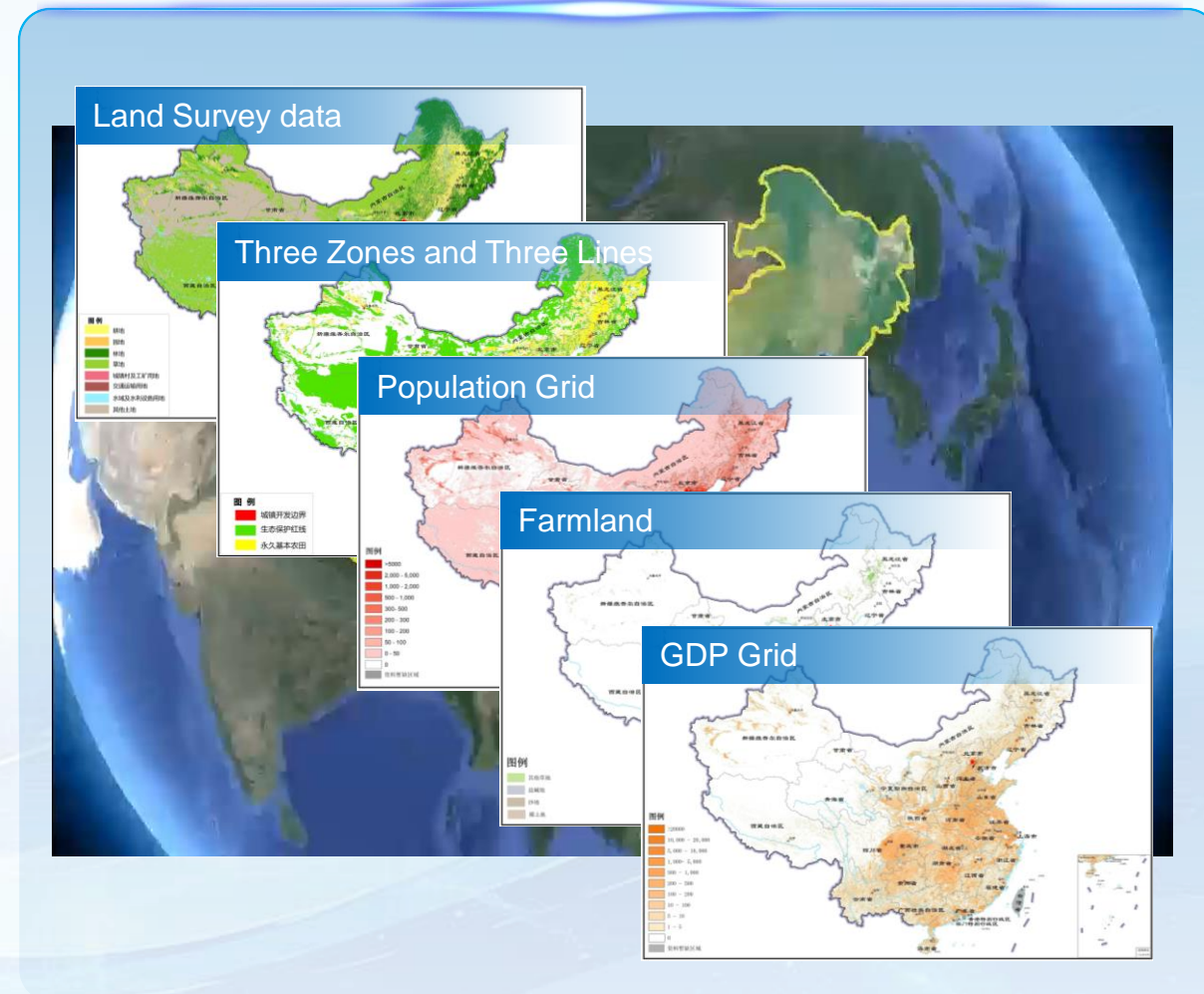
中国土地勘测规划院
China Land Surveying and Planning Institute

China's Practice and Exploration of Empowering Land Spatial Governance with Geospatial Technology

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Become the legally Unified Base Map





中国土地勘测规划院
China Land Surveying and Planning Institute

CONTENTS



Progress & Trend



Practice & Exploration



Opportunities & Challenges

PART 01

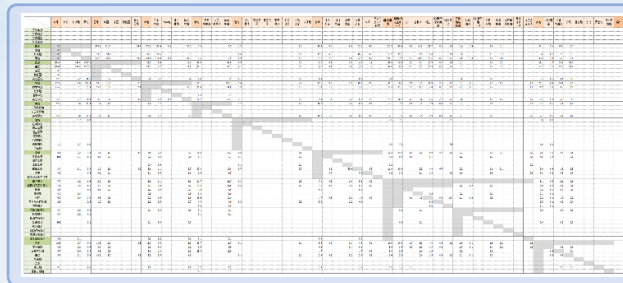
Progress and Trend

Land and resources survey and monitoring

1.1 Progress and Tendency of the National Land Survey

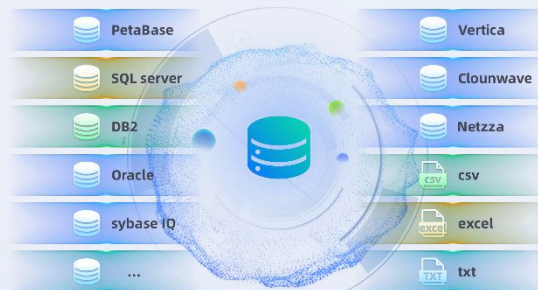
1st Survey: Table

- ◆ Field survey
- ◆ Aerial photography



2nd Survey: Map

- ◆ RS + field survey
- ◆ 2.5m SPOT5 satellite etc.



3rd Survey: Cloud

- ◆ "Internet +" Survey
- ◆ Sub-meter satellite data
(Domestic rate over 90%)



2017-2019
3rd National Land Survey
Cloud

2007-2009
2nd National Land Survey
Map

1984-1996
1st National Land Survey
Statistics table

Institutionalization

Standardization

Digitalization



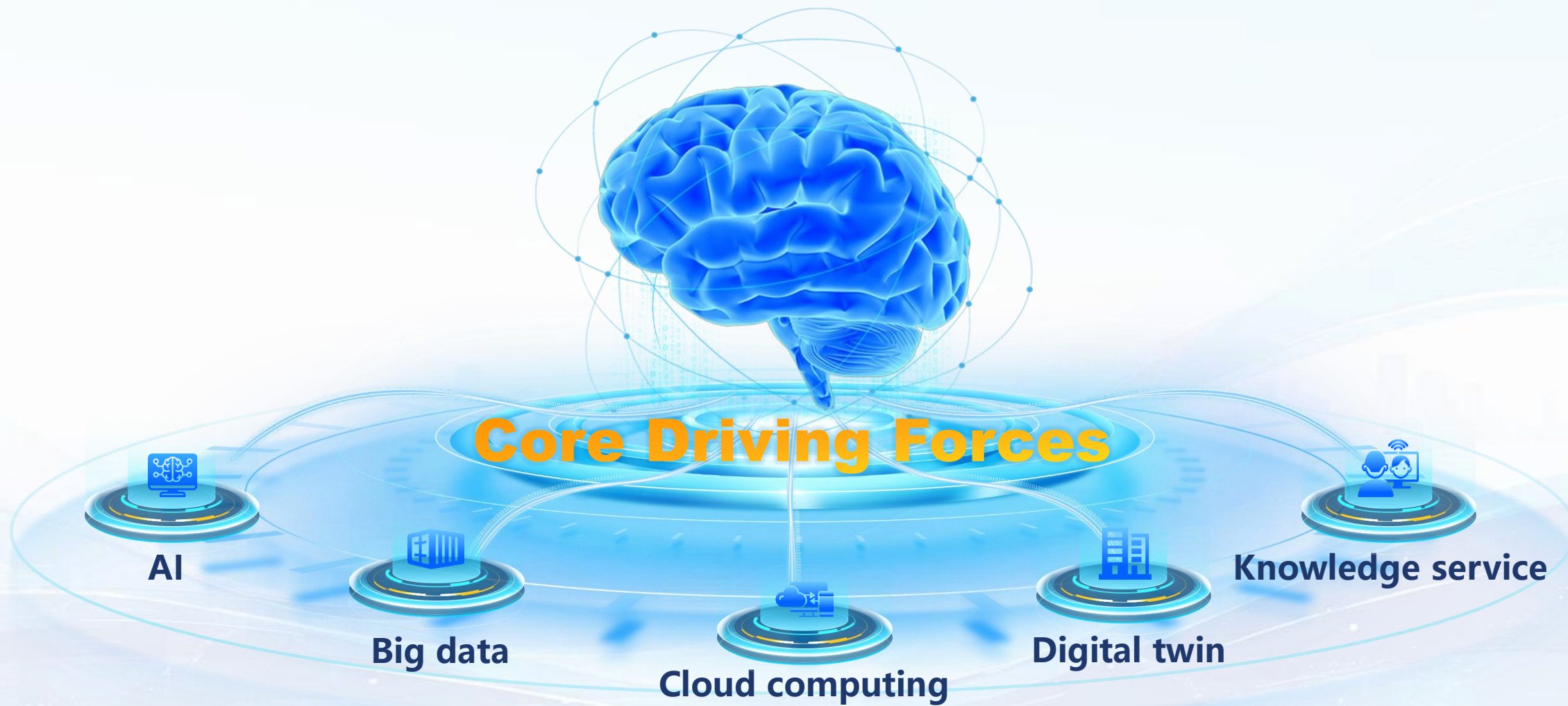
1.2 Development History of Land Survey Could Platform



Introduction to Land Survey Cloud Platform 5.0



1.3 Entering a new stage of digital ecological civilization



PART 02

Practice and Exploration

Survey and monitoring results support land space governance

Strong Support for Economic Development

国务院组成部门调整

组建自然资源部

国土资源部

职责

国家发展和改革委员会

组织编制主体功能区规划职责

住房和城乡建设部

城乡规划管理职责

水利部

水资源调查和确权登记管理职责

农业部

草原资源调查和确权登记管理职责

国家林业局

森林、湿地等资源调查和确权登记管理职责

国家海洋局

职责

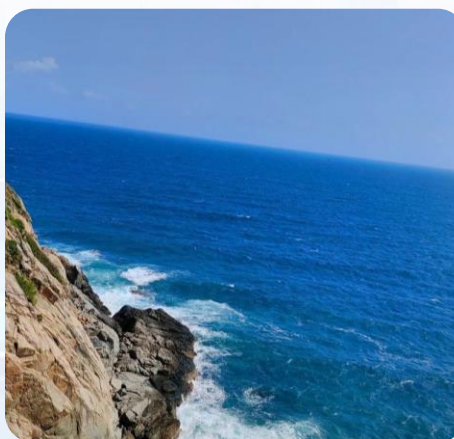
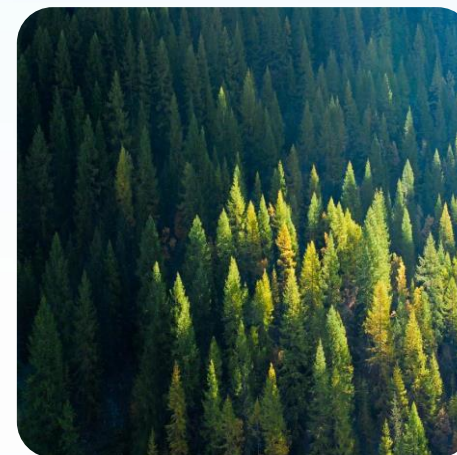
国家测绘地理信息局

职责

自然资源部

对外保留国家海洋局牌子

Comprehensive Business of the Ministry of Natural Resources



2.1 Food Security

Safeguard Food Security and Secure China's Rice Bowl



2.1 Food Security

01 AI-Powered Precise Farmland Survey.



2.1 Food Security

02 Integrate the registration information of contracted management rights.

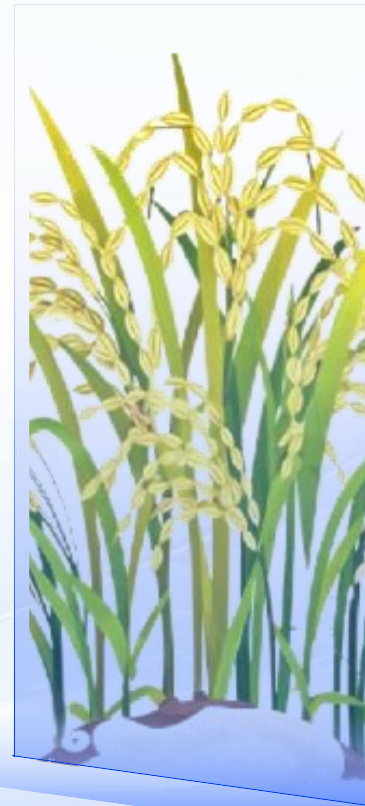


2.1 Food Security

03 Using the FAO model to calculate the production potential of food crops.



Paddy Rice



Corn



Wheat

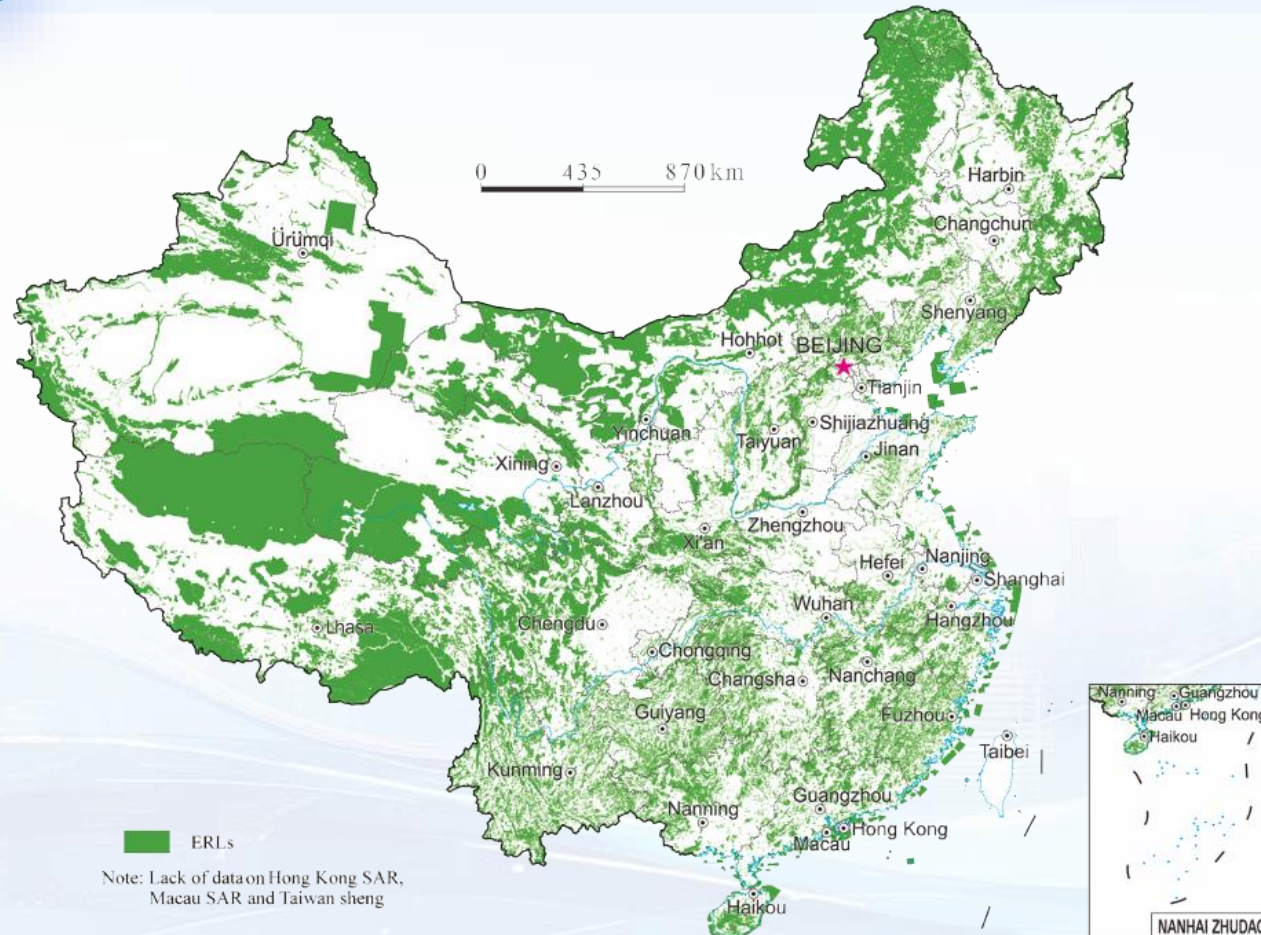


2.1 Food Security



2.2 Ecological Conservation

01 First delineate an ecological red line covering both land and sea.



319 km²
Ecological Red Lines

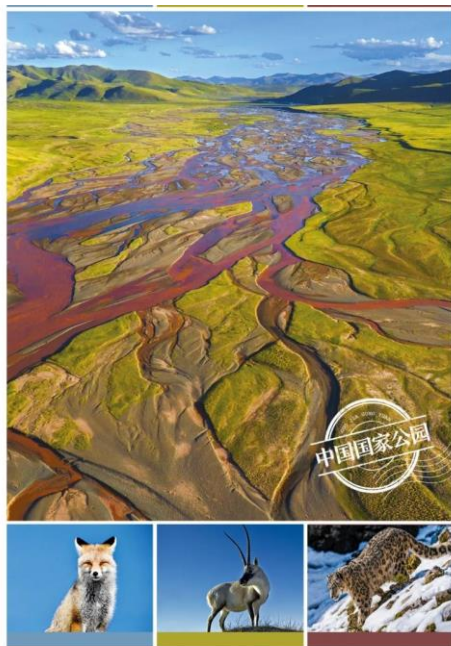
Land **304** km²

Marine **15** km²

2.2 Ecological Conservation

02 The first batch of natural resource registration for national parks.

Three-River-Source National Park



Giant Panda National Park



Northeast China Tiger and Leopard National Park



National Park of Hainan Tropical Rainforest



2.2 Ecological Conservation

03 Integrated “Space-Air-Ground-Net” Digital Survey & Monitoring System.



2.3 Efficient and Intensive Utilization

01 Achieved "One-stop Service" for registration, and "Instant Provision" for transfer and mortgage.



2.3 Efficient and Intensive Utilization

02 The index of economical and intensive utilization increased by 3.4%.



2.3 Efficient and Intensive Utilization

03 Conducting urban examination, spatial structure and functions continue to be optimized



PART 03

Opportunities and Challenges

Survey and monitoring to support land space governance in the new era

Opportunities and Challenges

01 How to improve security and resilience in the face of extreme shocks?



Global Climate Governance



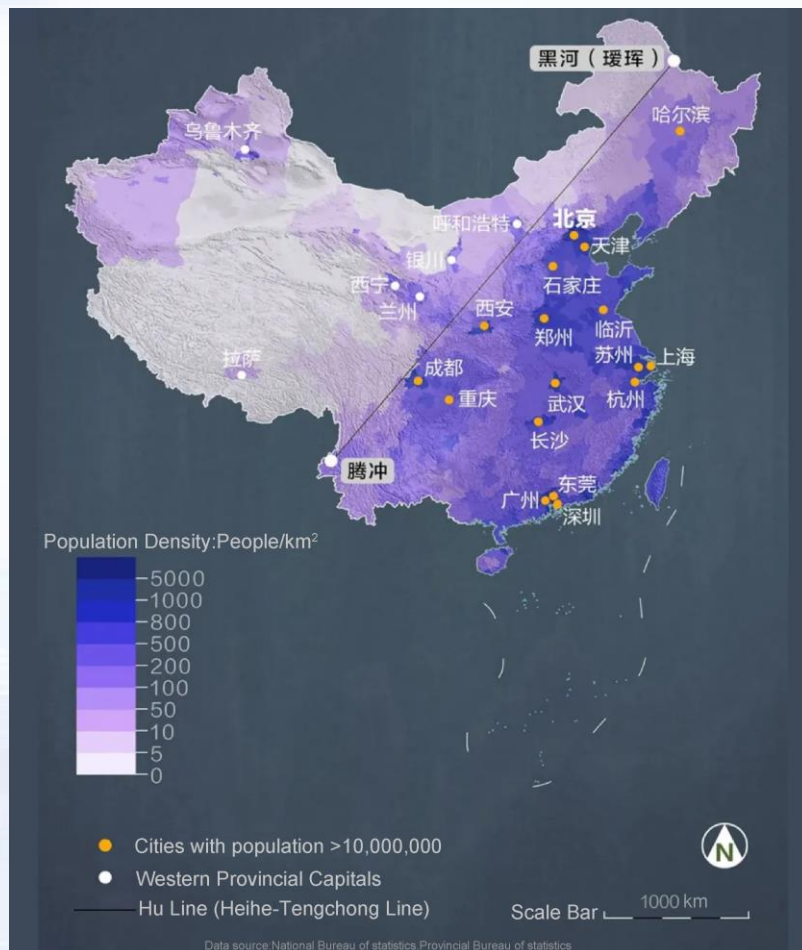
Biodiversity Conservation



Extreme Disasters

Opportunities and Challenges

02 How to promote high-quality in the face of population reduction and green energy revolution?



03 How to improve the accuracy of spatial governance and cadastral management?



Our Home Beautiful Future

