



精准测绘土地，支撑永续发展 Mapping Land Dynamically for Sustainable Development

李朋德 Dr.LI, Pengde

Co-Chair, UN-GGIM

Deputy Administrator, NASG, China
Standing Committee Member
of the National Committee of CPPCC

New Development Concept in China

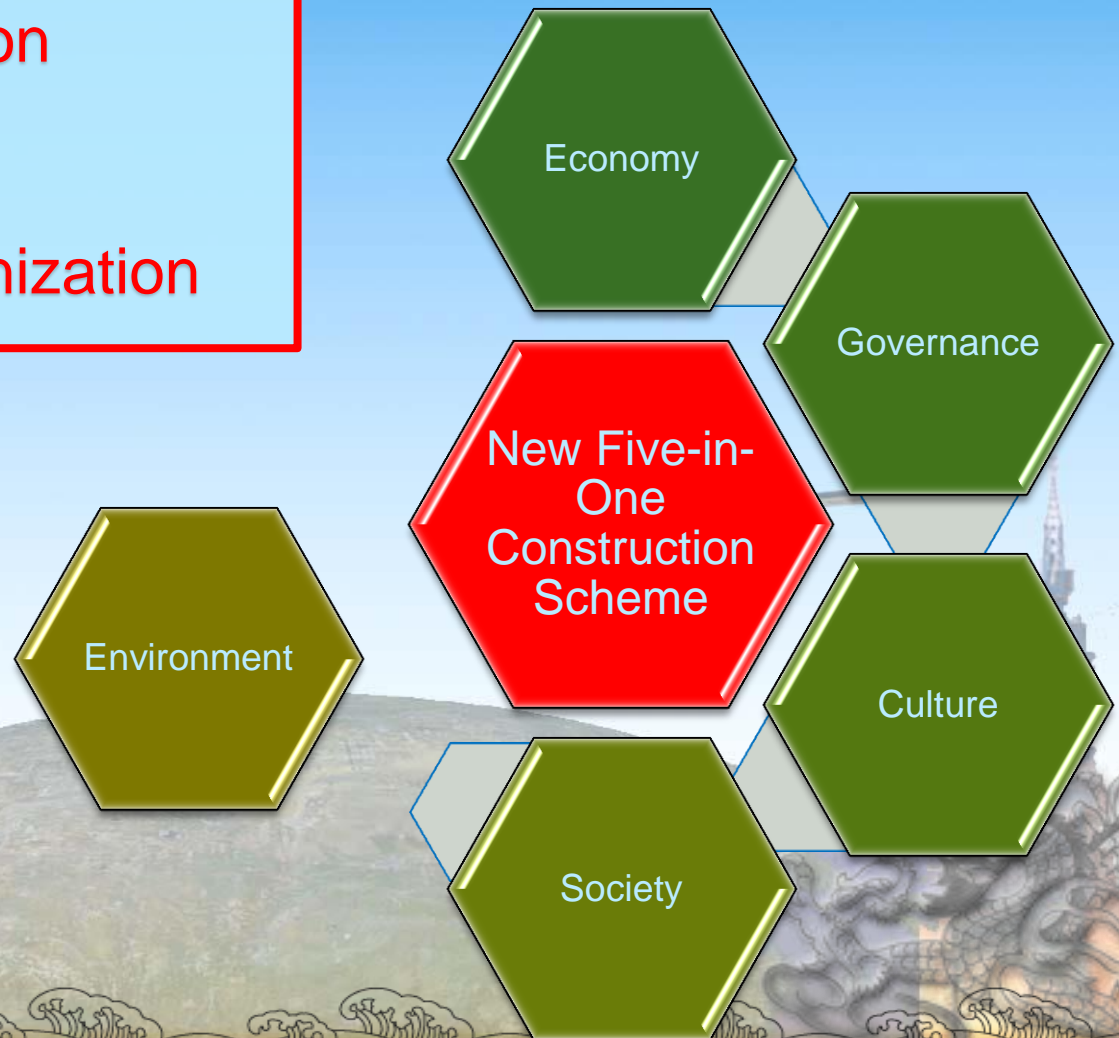


China People's Congress has approved the 13th Five-Year Plan of the National Economic and Social Development last month. The New Development Concept has set the guidance for planning in all sectors.

New Construction Scheme and Emphases in China

Four Emphases

- New Industrialization
- Informatization
- New Urbanization
- Agricultural Modernization



13th FYP of Land Resources

Innovative Land Governance

Coordinated Land Resources Utilization Arrangement

Green Utilization for Land Sustainability

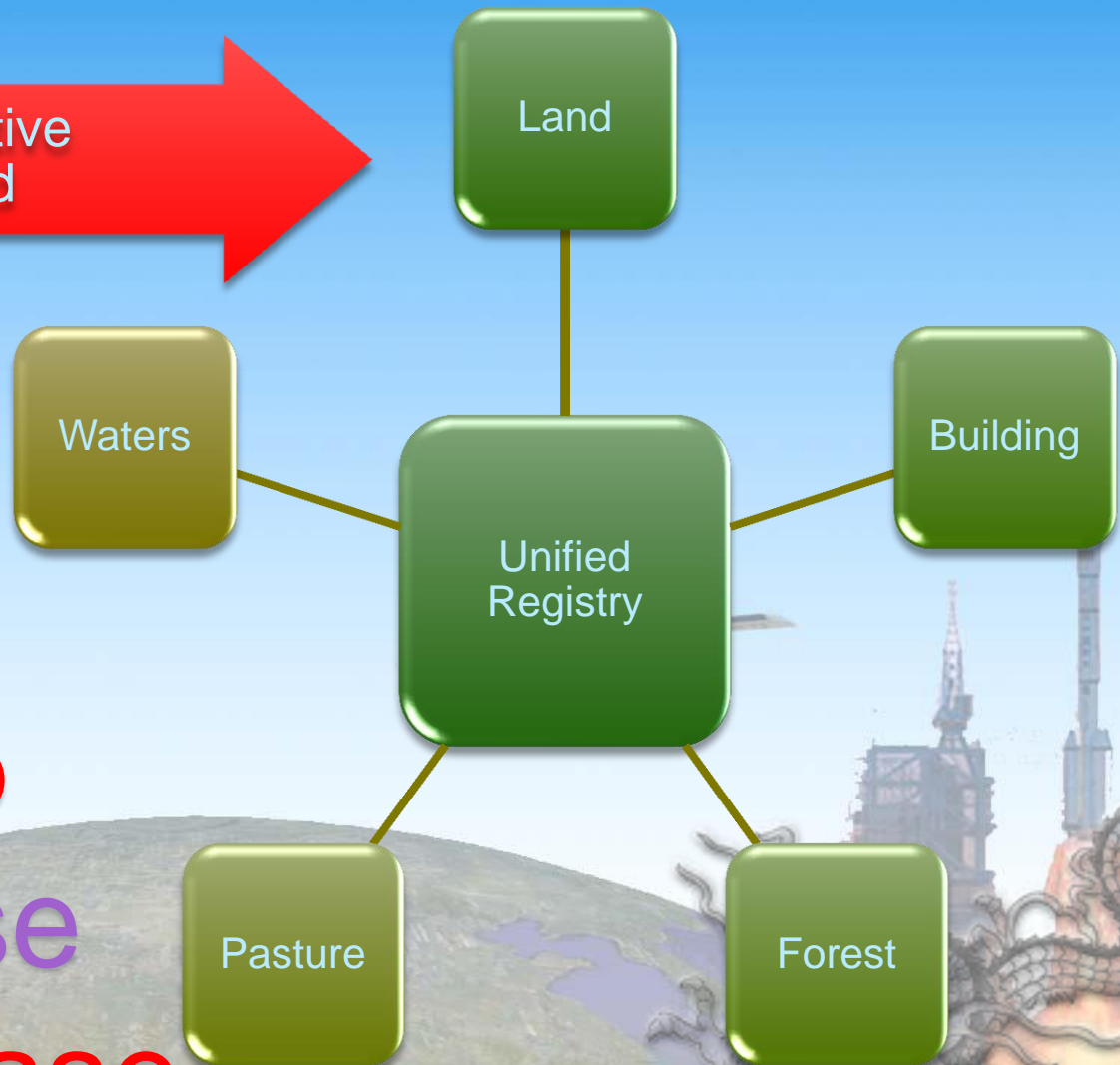
Open for Land Resources Cooperation and Development

Shared Service of Land Resources

Unified Real Property Registration

State
Land

Collective
Land



- Ownership
- Right of use
- Right of lease

New Tasks of Surveying and Mapping in Five-Year Plans

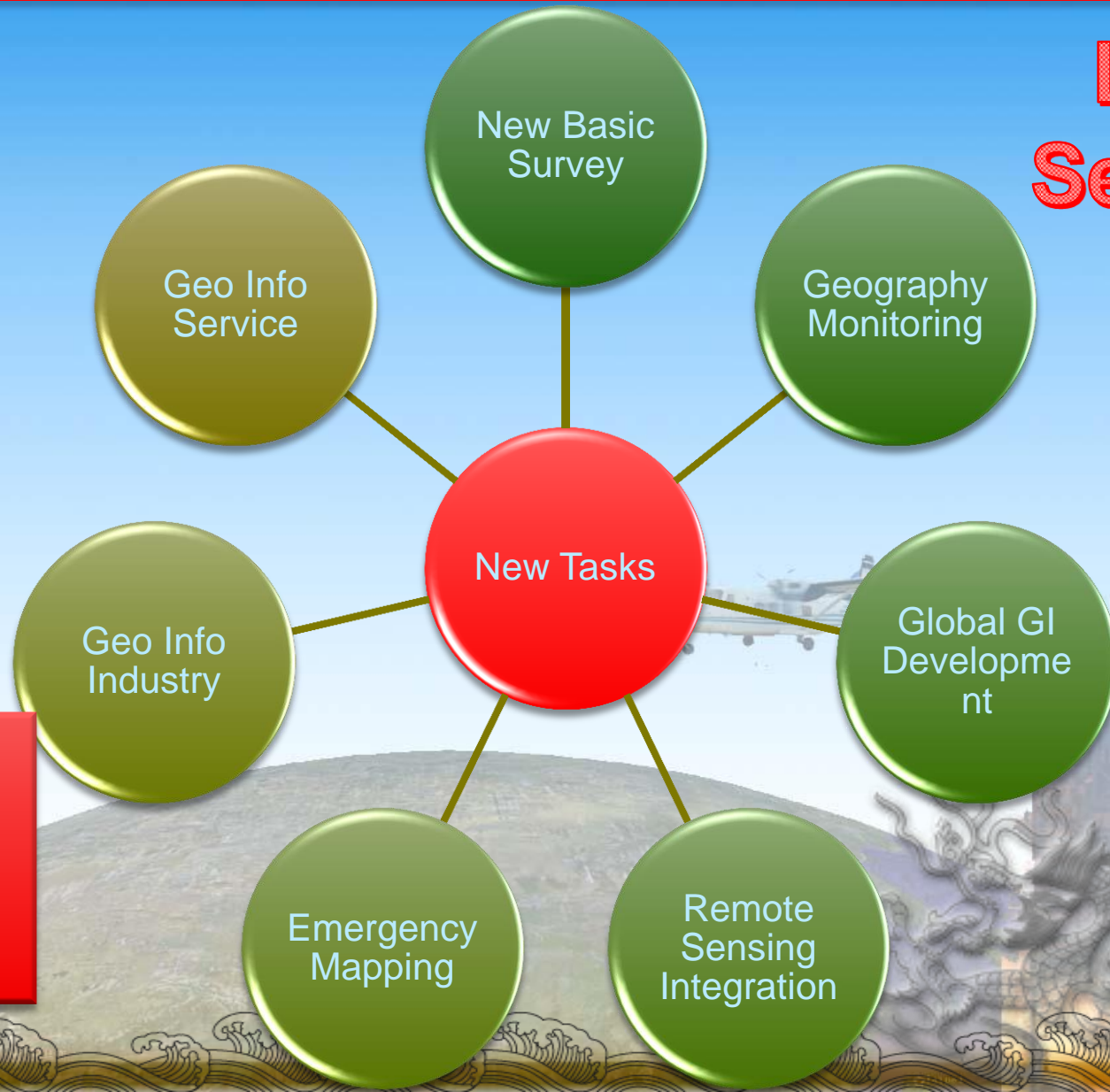
National FYP

Improve Service Capacity

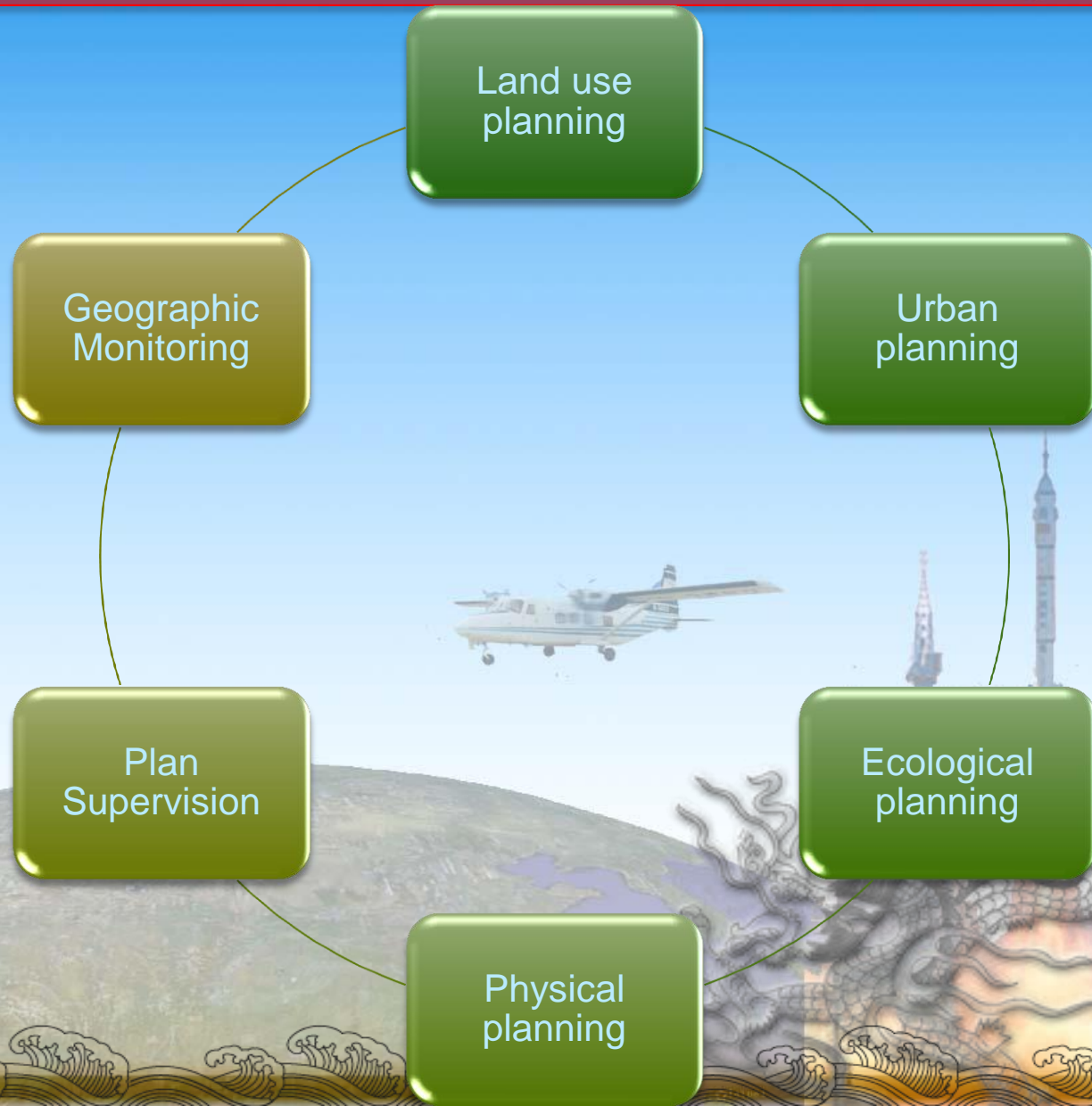
Carry out Geographic Monitoring

Push forward Global Geo-information development

Land Sector FYP



New Concept of Geospatial Governance

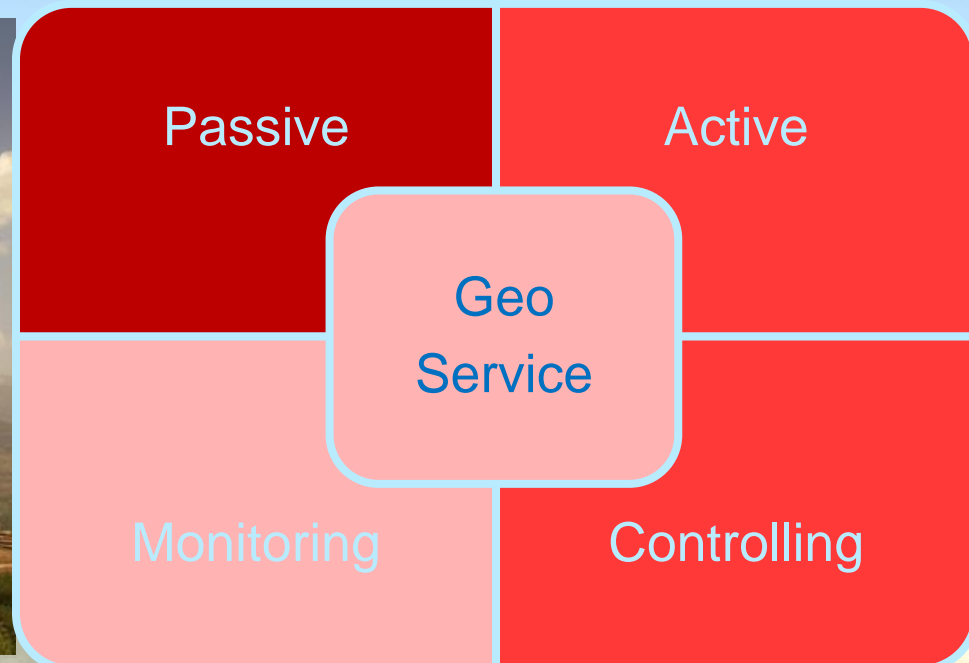


New Role of Surveying and Mapping

Demand

Reform
& Development

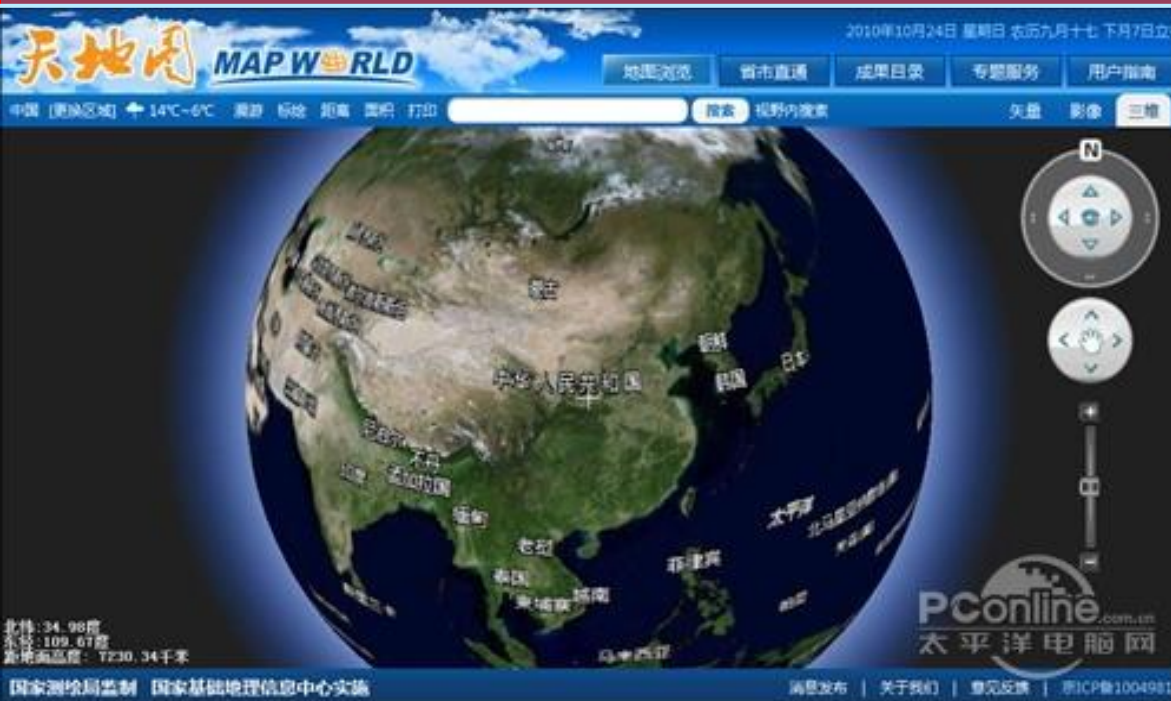
Provision



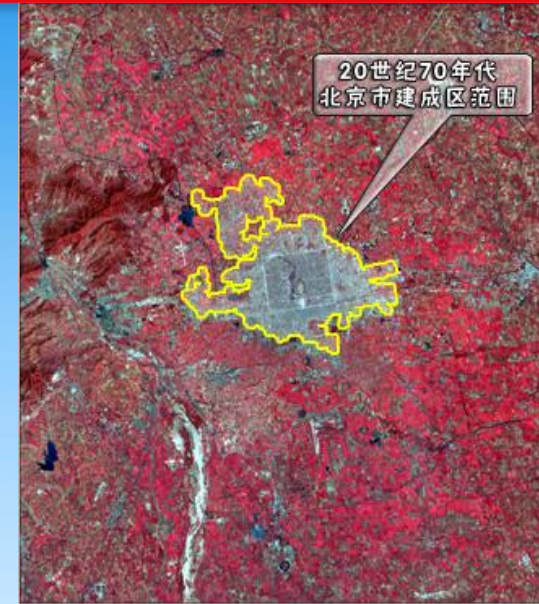
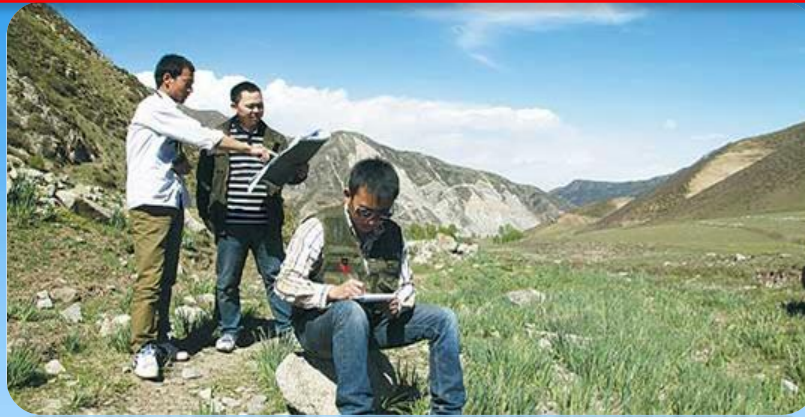
Surveying and Mapping with New Capacity



Intelligent Cities and MapWorld Geo-Portal



Geographic Census and Dynamic Monitoring



Geographic Census

Physical
Geography

Human
Geography

Natural
Features

Land
Cover

Artificial
Features

Social-
Economic
Data



Global Land Cover Map Data: GlobeLand30



**Water
bodies**



Wetland



**Artificial
surface**



Cropland



Forest



Shrub



Grass



Bare area



Snow & Ice



Tundra

International Cooperation on GlobeLand30



UN



- Open to the World
- Verification

- Donation to UN
- Service to UN

NASG
China



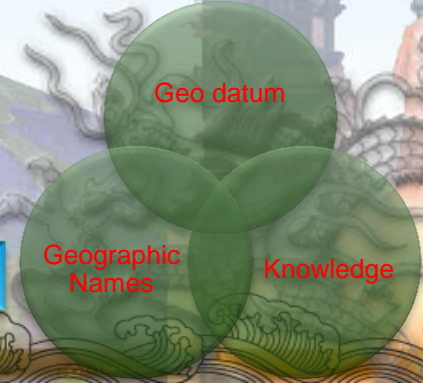
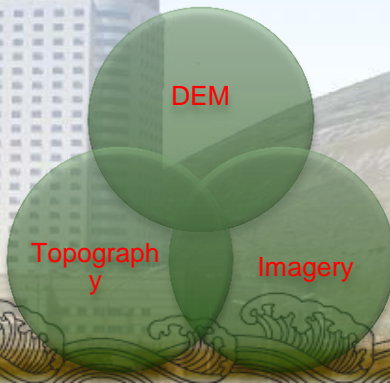
GlobeLand
30



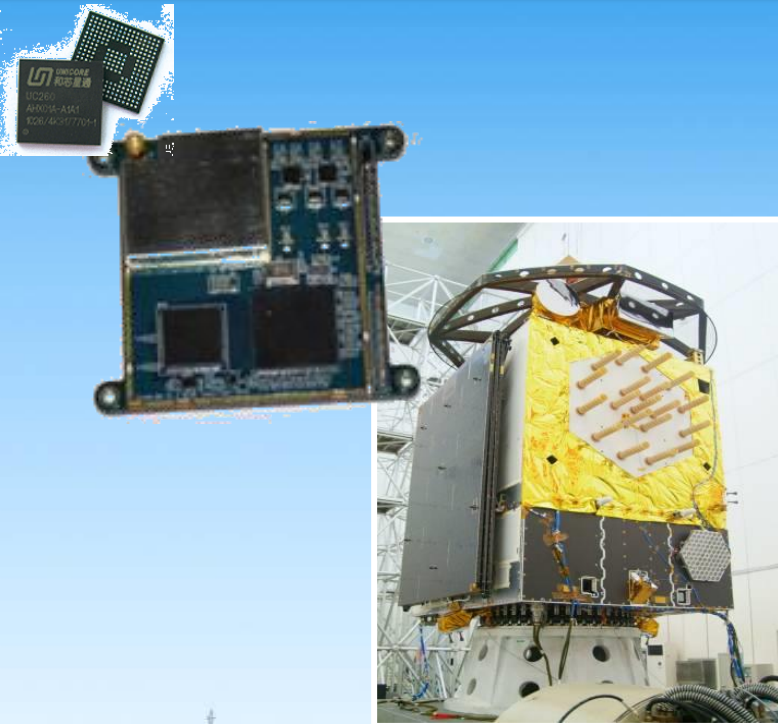
Member
Countries



Analysis
Applications



Beidou Navigation Satellites



Geostationary Orbit (*GEO*) 5

Middle Earth Orbit (*MEO*) 27

Inclined Geostationary Orbit (*IGSO*) 3

2012 Asia Pacific--2020 Worldwide

China's Mapping Satellites



2-5m Pan、 6-10m multi-spectrum

1-2m Pan、 3-6m multi-spectrum

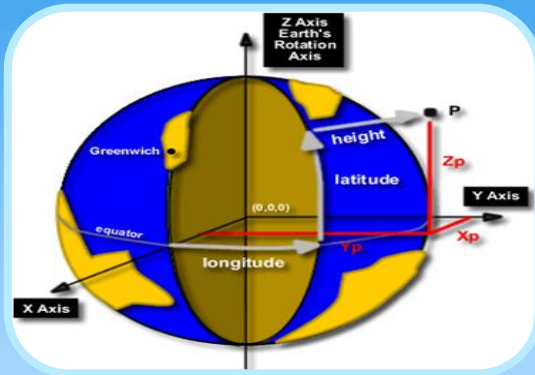
0.5-1m Pan、 1-3m multi-spectrum

3-5m 、 C band/S band SAR

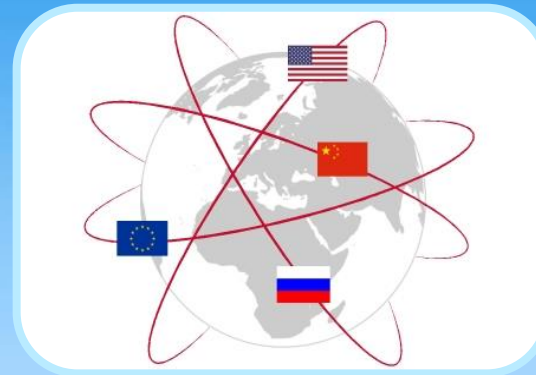
0.5-1m、 multi-band SAR

2 Bands Laser Ranging, 1 m Pan

Good Global Land Governance Needs Capacity Building



A global geodetic reference framework (GGRF)



Global Navigation Satellite Systems (GNSS)



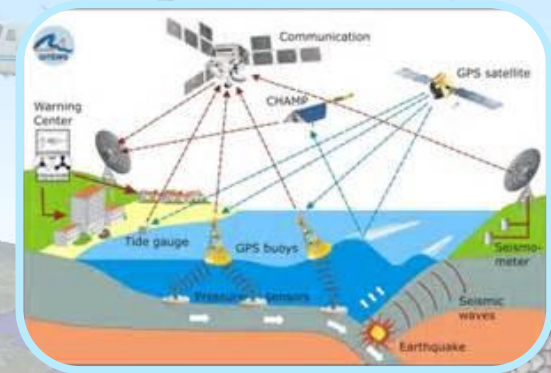
A system of global earth observation systems (GEOSS)



A global geospatial information system (GGIS)



Global Training Network



Natural Disasters Warning System

1. Land governance is always a political issue.
2. Good utilization of land need geospatial planning in an integrated manner.
3. Land administration needs accurate and dynamic surveying and mapping.
4. The world needs global capacity of geospatial information management.

Thank you!

