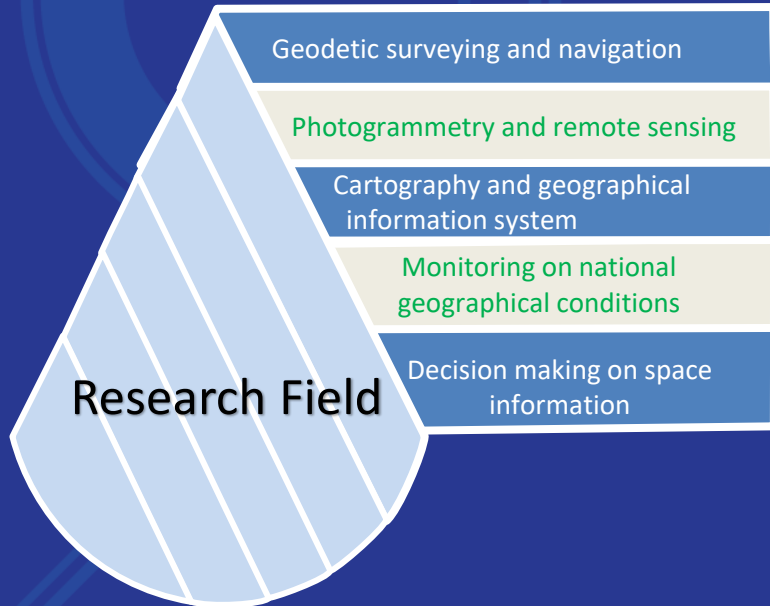


SATELLITE MAPPING



Surveying & Mapping



Our service

Hermesys Surveying & Mapping is mainly engaged in basic research and applied research on surveying, mapping & geoinformation and related disciplines, the four key research directions are: **modern geodetic surveying and navigation, photogrammetry and remote sensing, cartography and geography information system and decision-making on space information.**

Enterprise Business Portfolio

Satellite and application

Emergency rescue support

Security system design

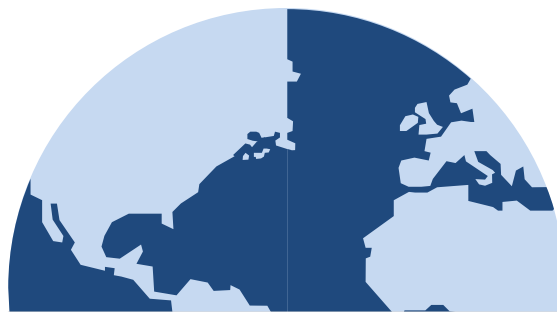
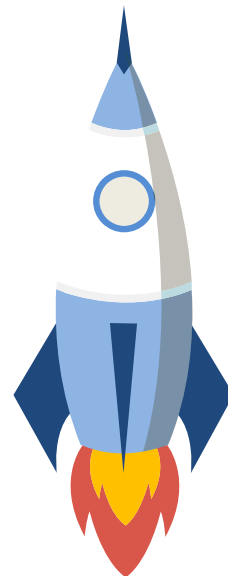
Location-based service

Geographic Information
Surveying and mapping

Marine surveying and
mapping

Land and resources
administration

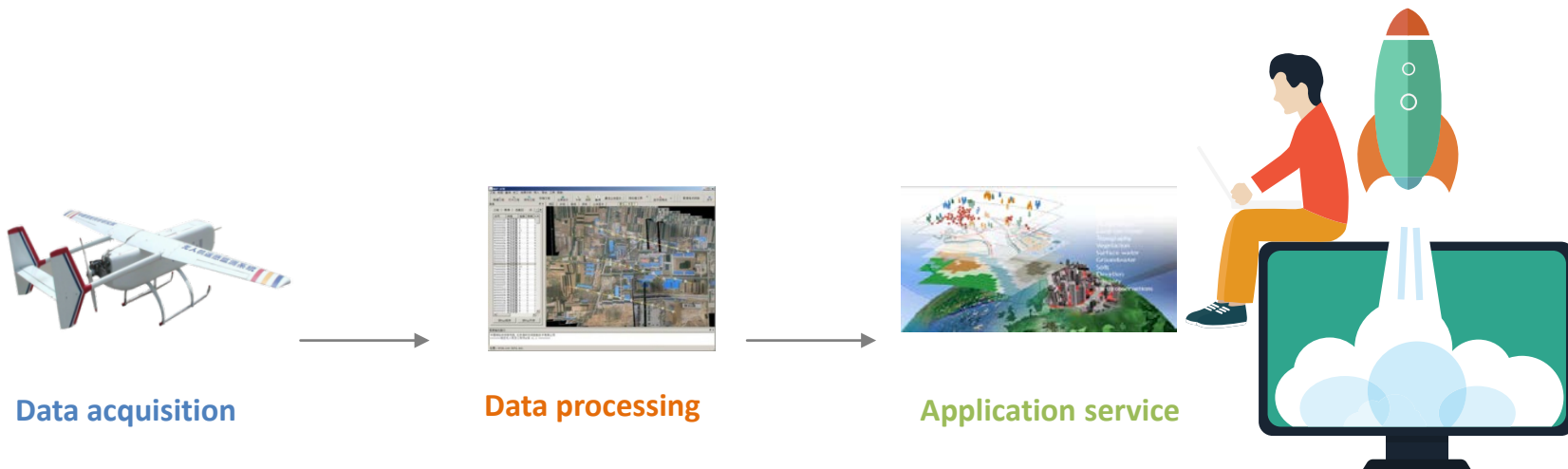
Smart city construction



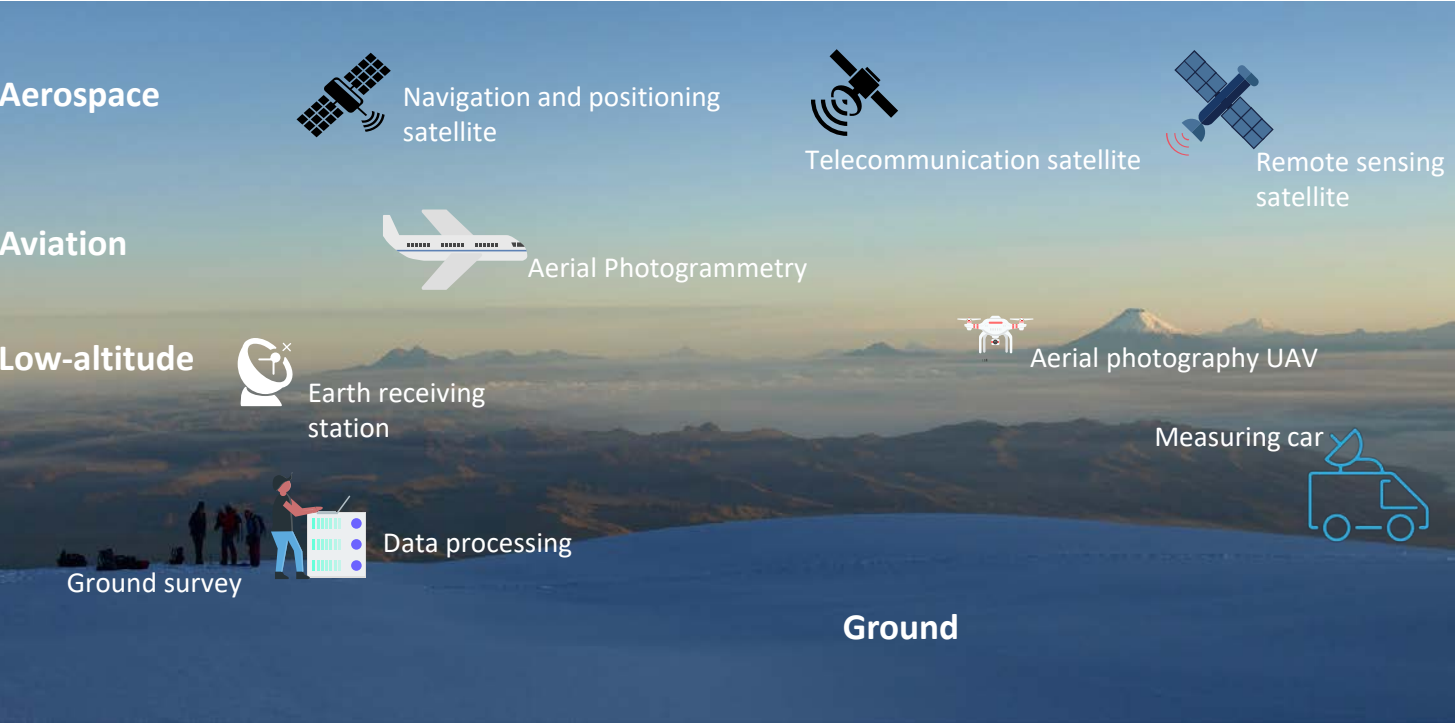
Integrated aviation-air-ground survey and mapping

Surveying and Mapping System

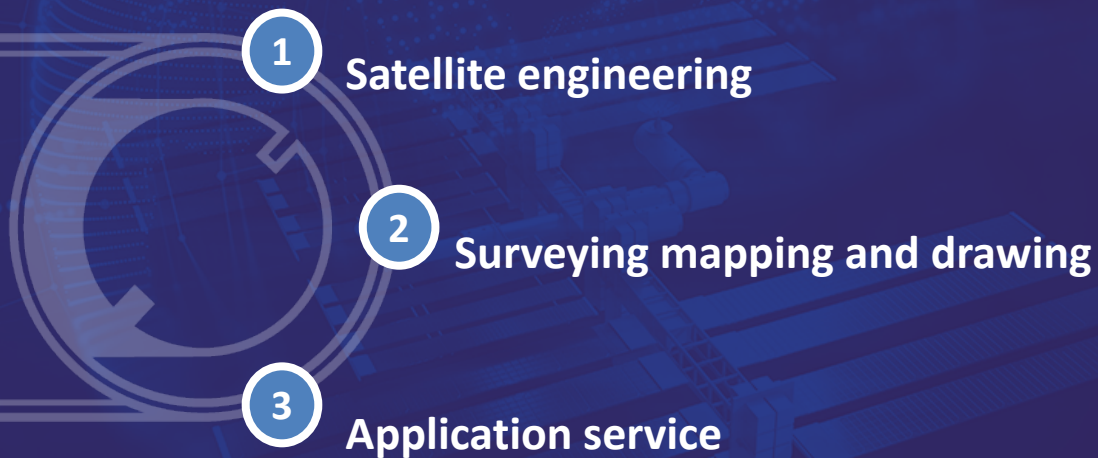
Hermesys can manage comprehensive information in the entire process from data acquisition, data processing to application services, and has gained great achievements in terms of UAV low-altitude aerial surveying system, precise aerial surveying camera, aerospace image data cluster processing system, emergency monitoring station, smart city, etc., which have been widely utilized in **city management, disaster emergency, environmental protection, agriculture, national defense, traffic, navigation and positioning and other fields.**



Integrated aviation-air-ground surveying and mapping system



SATELLITE & MAPPING



A faint, light blue graphic of a satellite orbit is visible in the background on the left side of the slide. It consists of two concentric circles with a satellite icon at the top and bottom of the inner circle, and a line representing the ground track or signal path extending from the bottom of the inner circle towards the bottom left of the slide.

Satellite engineering

1. Construction of satellite earth station

Satellite earth station (SES), an important component of the satellite system, is mainly for receiving and sending satellite data and information, and can be divided into telecommunication, remote sensing, navigation positioning, timing service and weather condition by purpose.



A.

Provide integrated solution of SES construction, including model selection, addressing and construction.



C.

Provide professional training for SES operation .



B.

Undertake SES construction engineering.

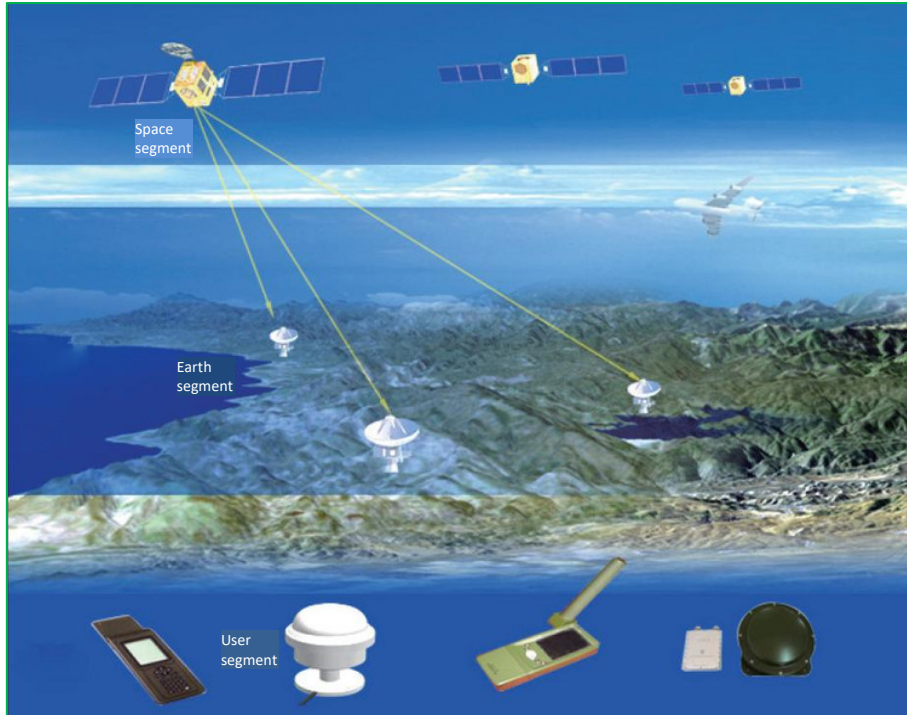


D.

Perfect after-sales service.

1. Construction of satellite earth station

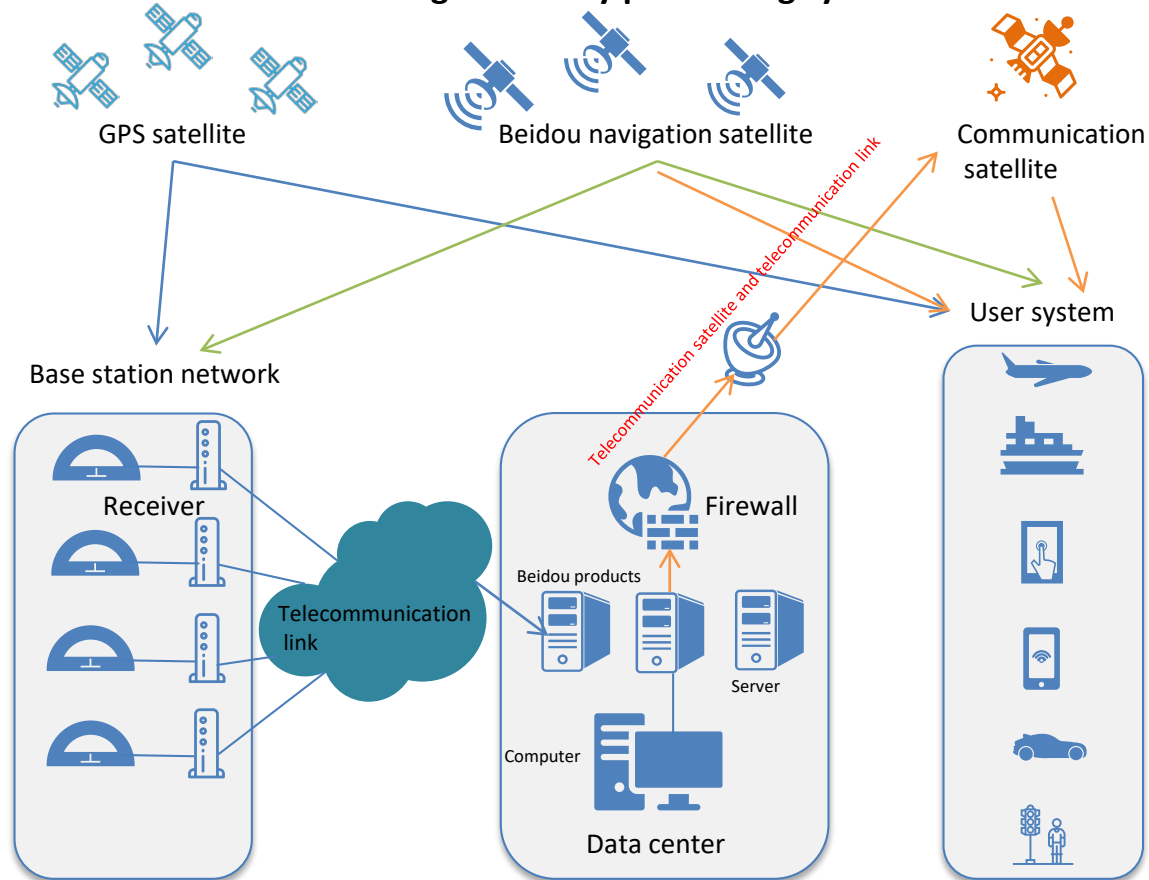
Schematic diagram of the satellite system



2. Satellite system platform construction

It can build the complete monitoring system, including centimeter-level, decimeter-level and meter-level platform, etc.

High-accuracy positioning system



3. R & D for data processing system

For solving the efficient processing problem of massive satellite remote sensing data, the development of integrated mapping system (PG) for high-resolution remote sensing image data to ensure the data systematic and serial processing

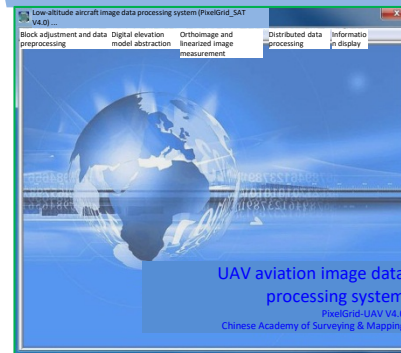
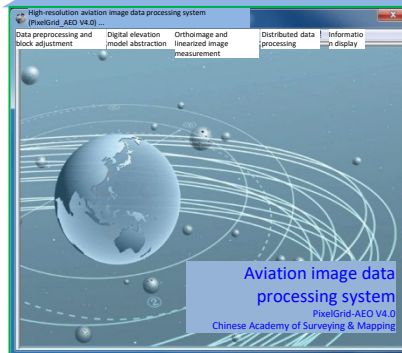
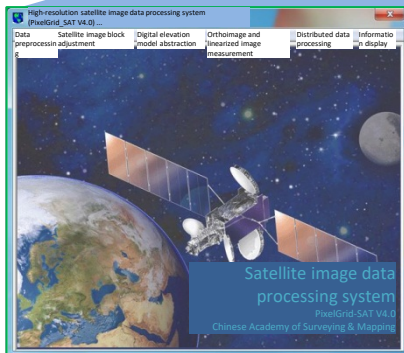
PG system composition

PG-SAT system

PG-AEO system

PG-UAV system

PG-ADS system



4. Satellite data product

Ensures a higher resolution of the the satellite image map with high resolutions of 0.5m, 0.5-1m, 1-3m, 3-5m, 5-8m, 8-16m, 16m.



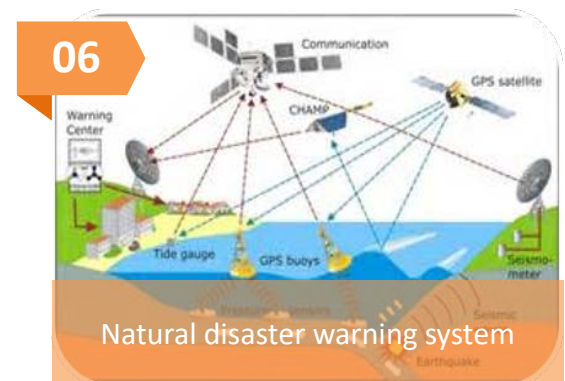
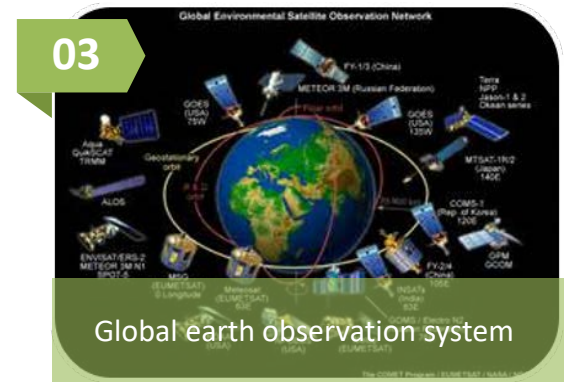
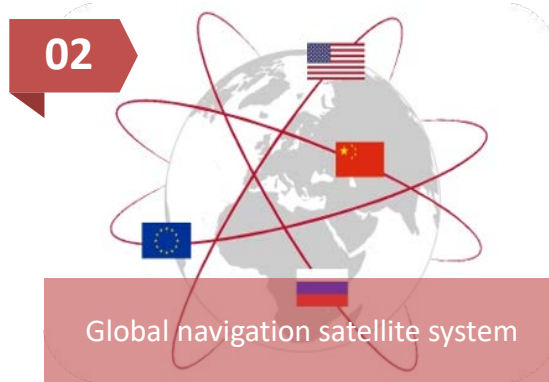
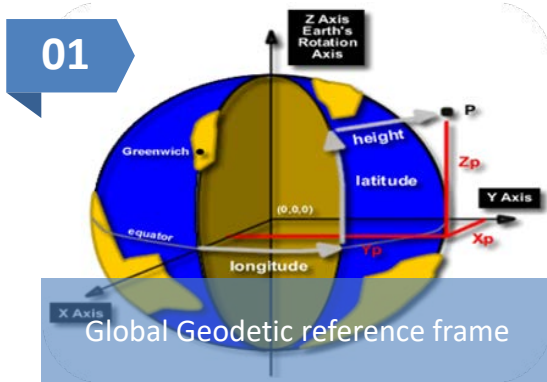
Satellite Image Map



Surveying mapping and drawing

Surveying mapping and drawing

1. Global surveying and mapping construction



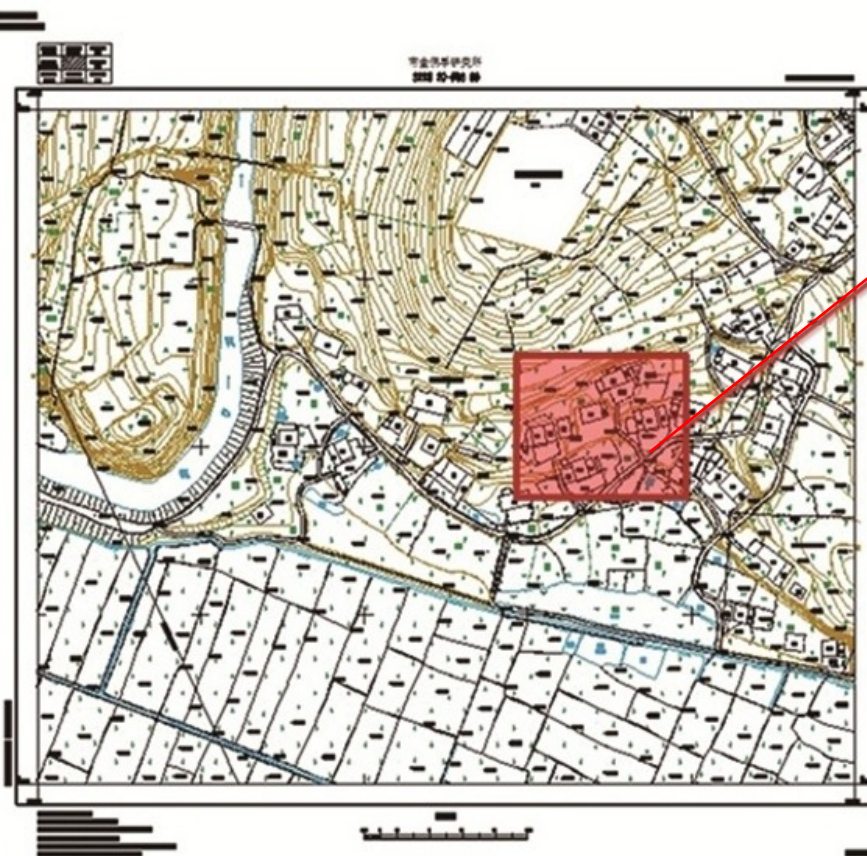
Surveying mapping and drawing

2. Map product manufacturing

Manage the topographic map with large scale of 1:500, 1:1000, 1:2000 and 1:5000, medium scale of 1:10000, 1:25000, 1:50000 and 1:100000 and small scale of 1:200000, 1:500000, 1:1000000.



Topographic map with Large scale of 1:1000



Topographic map product

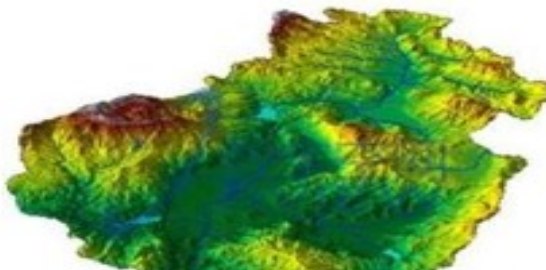
2. Map product manufacturing

Ensure a three-dimensional map expressed by the three-dimensional city model, three-dimensional elevation model, three-dimensional surface model and other models, forming the different thematic application for covering a series of services of life information, e-government, e-commerce and virtual community.



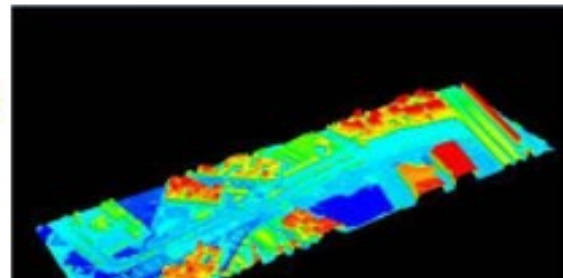
1

Three-dimensional city model



2

Three-dimensional elevation model



3

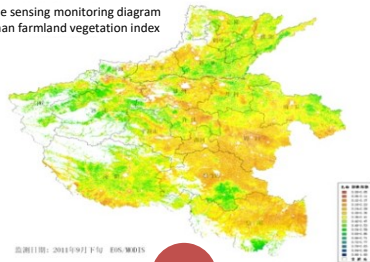
Three-dimensional surface model

Three-dimensional map product

2. Map product manufacturing

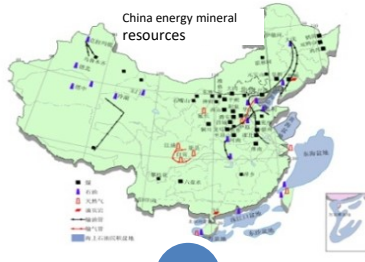
Includes agriculture, minerals, water conservancy, traffic, homeland and other themes.

Remote sensing monitoring diagram
of Henan farmland vegetation index



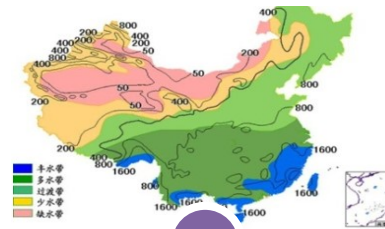
Farm and vegetation monitoring map

China energy mineral
resources



Mineral resource distribution map

China water resource distribution



Water resource distribution
map

Thematic map product



Application Service

1. One decision-making map engineering

The One decision-making map engineering is supported by spatial-temporal data infrastructure such as framework, faces comprehensive making demands for government departments, collects data from government departments, internet and professional institutions, applies technologies for spatial information decision-making, data analysis and generation to form comprehensive, intuitive and scientific "decision-making map" for comprehensive decision-making for governments at each level.

Major government strategic decision-making

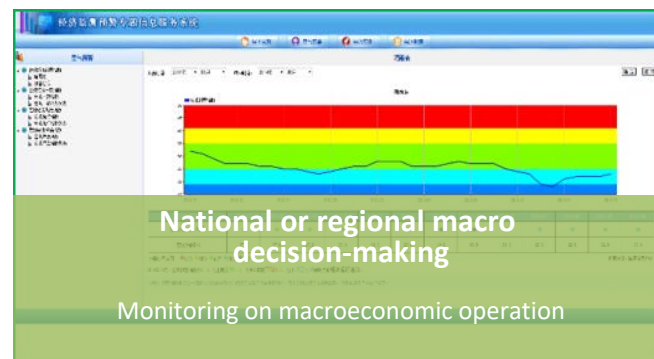
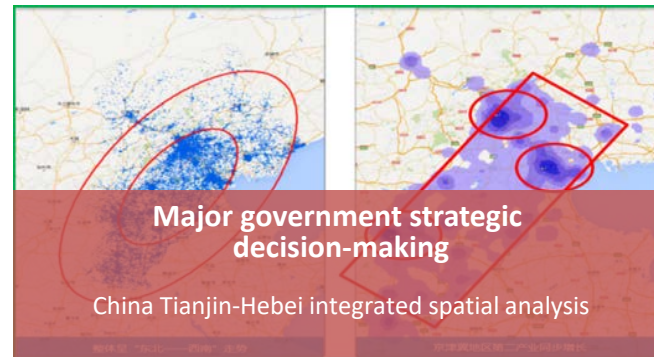
Daily government decision-making

National or regional macro decision-making

Emergency government decision-making



1. One decision-making map engineering



2. Smart city

Smart city takes the public geoinformation platform as core, integrates various comprehensive social and economic information in the city, rebuilds digital material city, promotes precise city operation and management, and improves scientific decision-making level of the city.



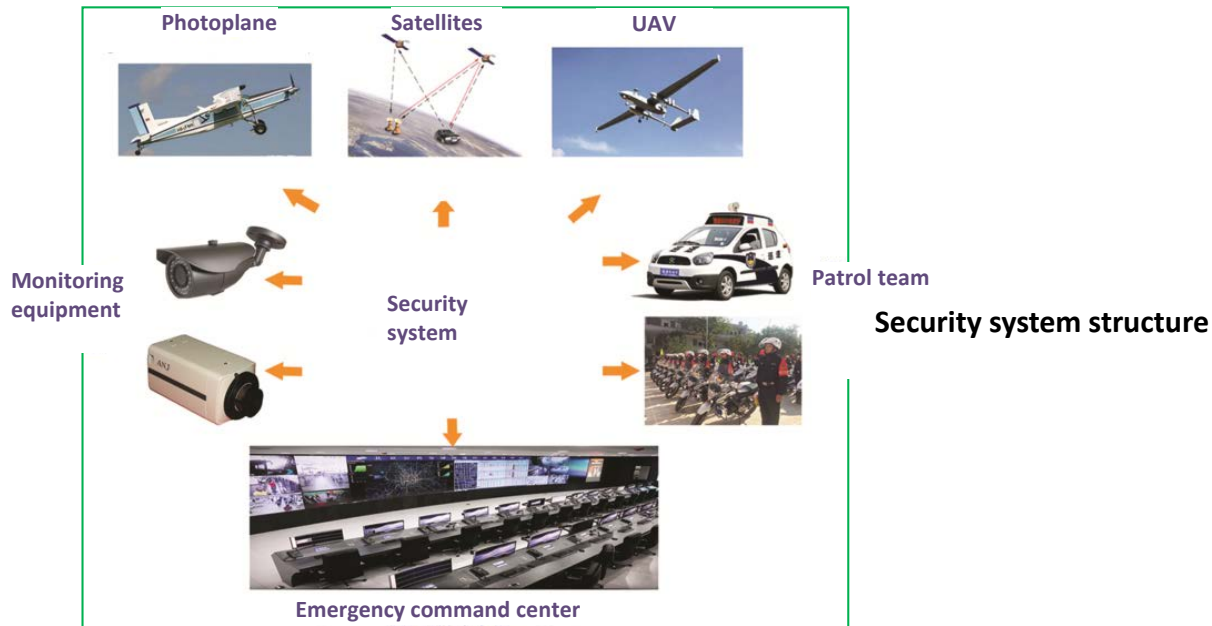
Digital city reconstruction



3. Security system

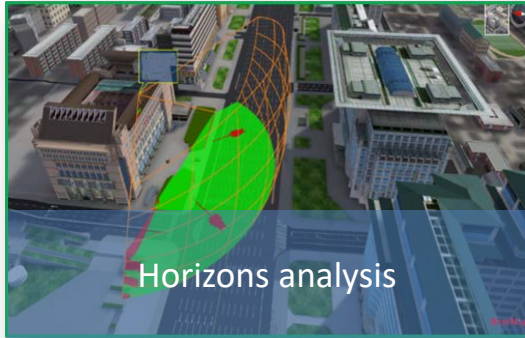
Based on the GIS, 3D, GPS, big data and other advanced information means, provide three-dimensional, dynamic, visual and visual security system, especially in integrated management and safeguard stability of key areas, emergency handling of major event, it can make an effort on science prevention and control and delicacy management.

Real-time access to the Internet such as staff position and video information



Satellite & Mapping

3. Security system



4. Border monitoring

Based on GIS technology, the use of the surveillance cameras equipment, UAV, remote control integration driven equipment and monitoring center are to observably improve the scientificity and rationality of the border monitoring construction.



UAV patrol inspection



Monitor warning



Supervisor station



Border fence



5. Other application



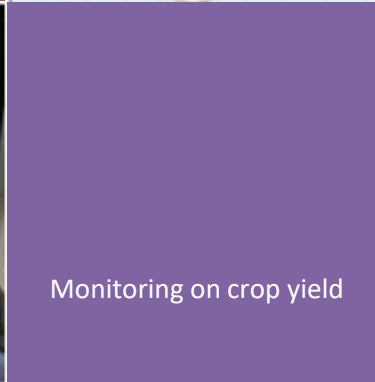
Real-time monitoring on public security



Sea reef surveying and mapping



Monitoring on changes before and after earthquake



Monitoring on crop yield



Engineering surveying



Thank you

www.hermesys.it