

Geo-referenced Information System for Disaster Risk Reduction in China

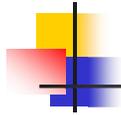
National Administration of Surveying Mapping
and Geo-information

15 February 2012, Bangkok, Thailand



Outline

- n Background
- n Capabilities
- n Case Study(Earthquake in Wenchuan)



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Cities close to the epicenter are flattened; whole mountains collapsed.

Wenchuan Earthquake, 2008, M8.0

舟曲县城灾区灾后影像图

Mudslide in Zhouqu 2010

2010.09

长江流域

Floods in South China, 2010

青海玉树7.1级地震

Yushu Earthquake, 2010, M7.1

n Frequent and varied types of natural hazards in China



... Strengthen development on **key technologies about disaster prevention and mitigation** ... speed up high-tech achievements transformation and integration of **RS, GIS, GPS**, network communication technology, as well as disaster prevention and mitigation , establishment a comprehensive **national disaster risk reduction and management platform** containing socio-economic statistics and geo-information to improve capabilities of **disaster monitoring, early warning, risk assessment and emergency rescue**.

——Speech at Academician Council by Hu Jintao, Chairman of China

n DRR and DRM were proposed in Chinese 12th 5-Year Plan.

4-Level Emergency Plan to disasters in China

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国家自然灾害救助应急预案(2011年10月16日修订)

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国家自然灾害救助应急预案

(2011年10月16日修订)

1 总则

1.1 编制目的

建立健全应对突发重大自然灾害救助体系和运行机制,规范应急救助行为,提高应急救助能力,最大程度地减少人民群众生命和财产损失,维护灾区社会稳定。

1.2 编制依据

《中华人民共和国突发事件应对法》、《中华人民共和国防洪法》、《中华人民共和国防震减灾法》、《中华人民共和国气象法》、《自然灾害救助条例》、《国家突发公共事件总体应急预案》等。

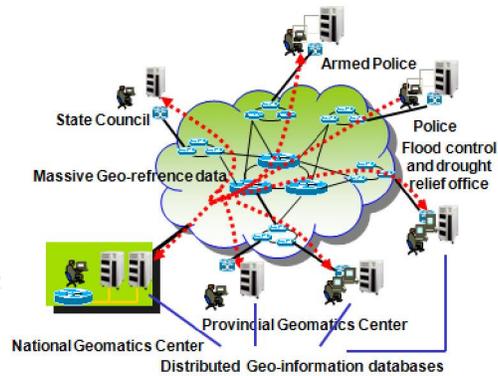
1.3 适用范围

- n 4 levels are classified according to hazards degree;
- n Many departments and local governments have their own duties and tasks;
- n Almost all rescue works are based on Geo-referenced Information System.

National Administration of Surveying Mapping and Geo-information has the duty to provide GIS

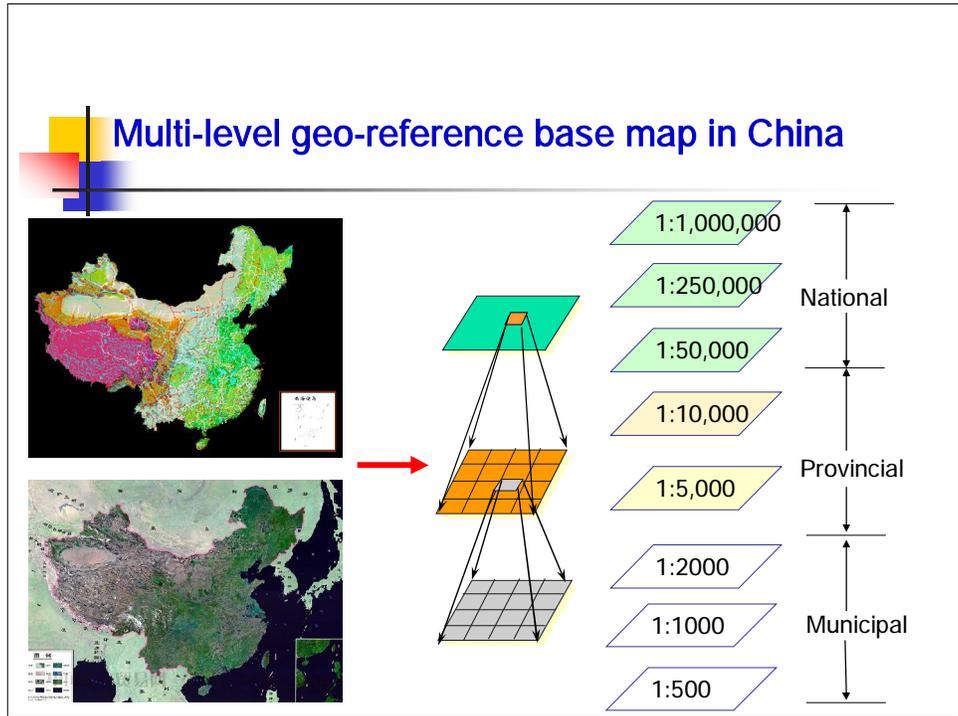
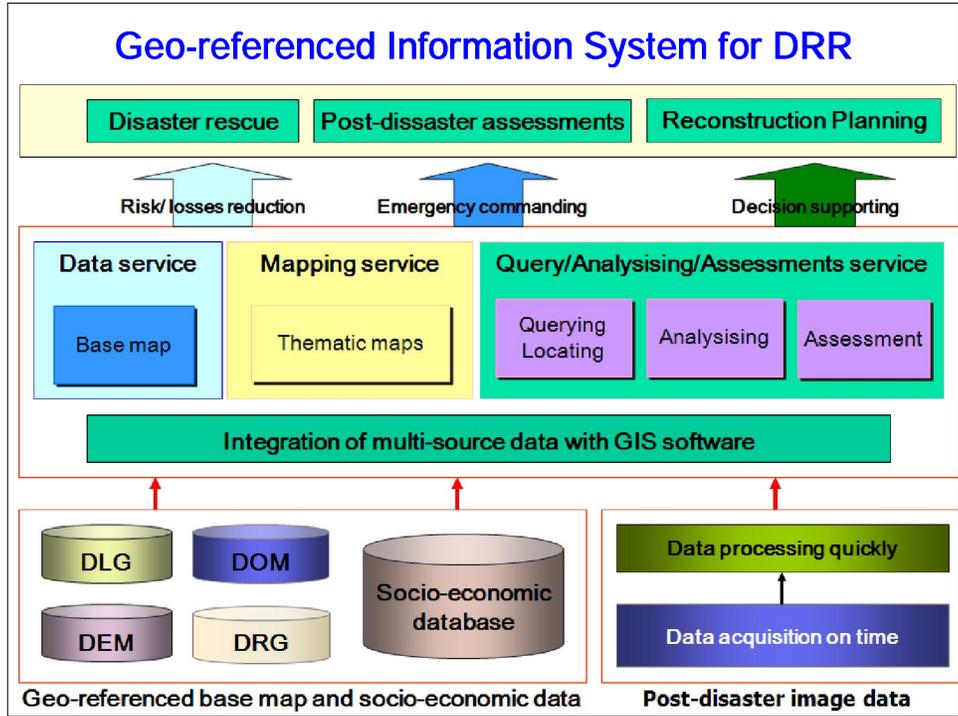
Service for all departments concerned with DRR and DRM:

- (1) State Council;
- (2) Flood control and drought relief office;
- (3) Government of disaster located;
- (4) Army, Armed Police, Police;
- (5) Ministry of Civil Affairs;
- (6) etc.

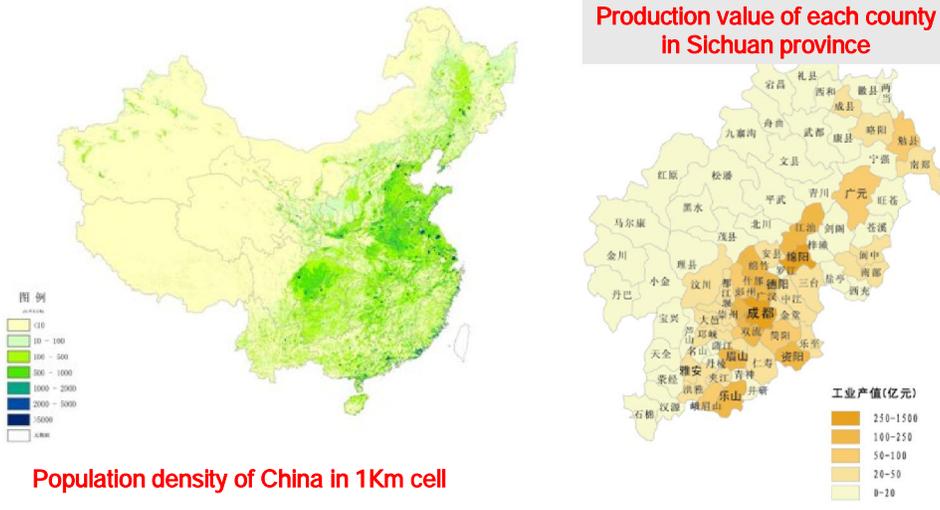


Outline

- n Overview
- n **Capabilities**
- n Case Study(Earthquake in Wenchuan)



Geo-referenced socio-economic Information

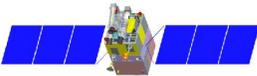


Beidou: Global Navigation Satellite System

- n Developed and operated by China independently
- n Dual-communication and suitable for disaster rescue
- n Will cover all China and part of Asia-Pacific region by 2012



multi-sensor satellites in China

SATELLITE	SOLUTION (M)	USAGE	
CBERS-01	20	Resources Investigation	
CBERS-02			
CBERS-02B			
CBERS-02C			
HJ-1A/1B	30	Disaster Prevention & Environmental Protection	
FY-1/2/3		Weather Forecast	
HY-1A/1B	250	Ocean Resources Investigation & Protection	
ZY-3	2.1	Surveying & Mapping	

ZY-3: High-resolution imaging satellite

Launched in January 2012

Technical Parameters:

Mass: 2,630 kg

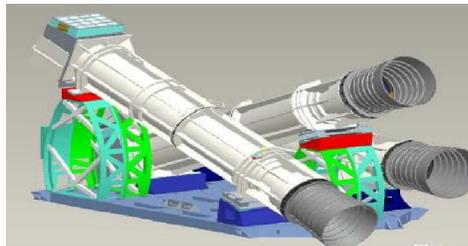
Orbit Altitude: 505.984 km

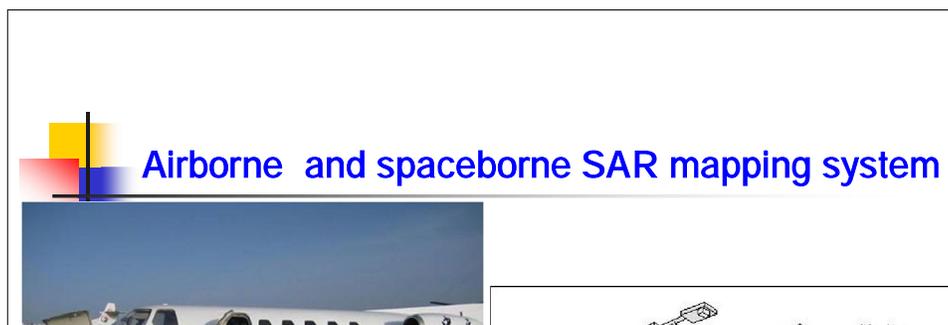
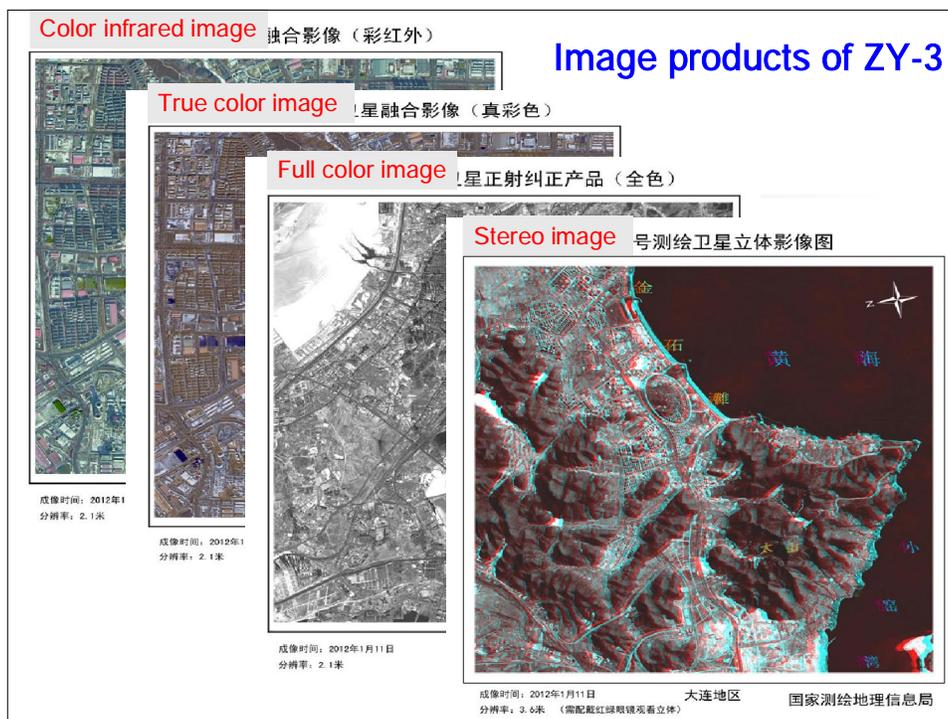
Revisit Cycle: 5 days

Resolution: 2.5-meter

Inclination: 97.421°

Designed life: 4~5 years





预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_7758



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