

**XIII Meeting of the
INSARAG Americas Regional Group**

Introduction of Earthquake Disaster Mitigation in China

China Earthquake Administration

**Lima, Peru
15-17 October 2014
www.insarag.org**



OUTLINE

- I. Brief Introduction of China Earthquake Administration(CEA)
- II. Earthquake Disaster Response in China
- III.CEA's Contribution to INSARAG

I. Brief Introduction of China Earthquake Administration

High seismicity

Great Earthquakes in the Chinese History

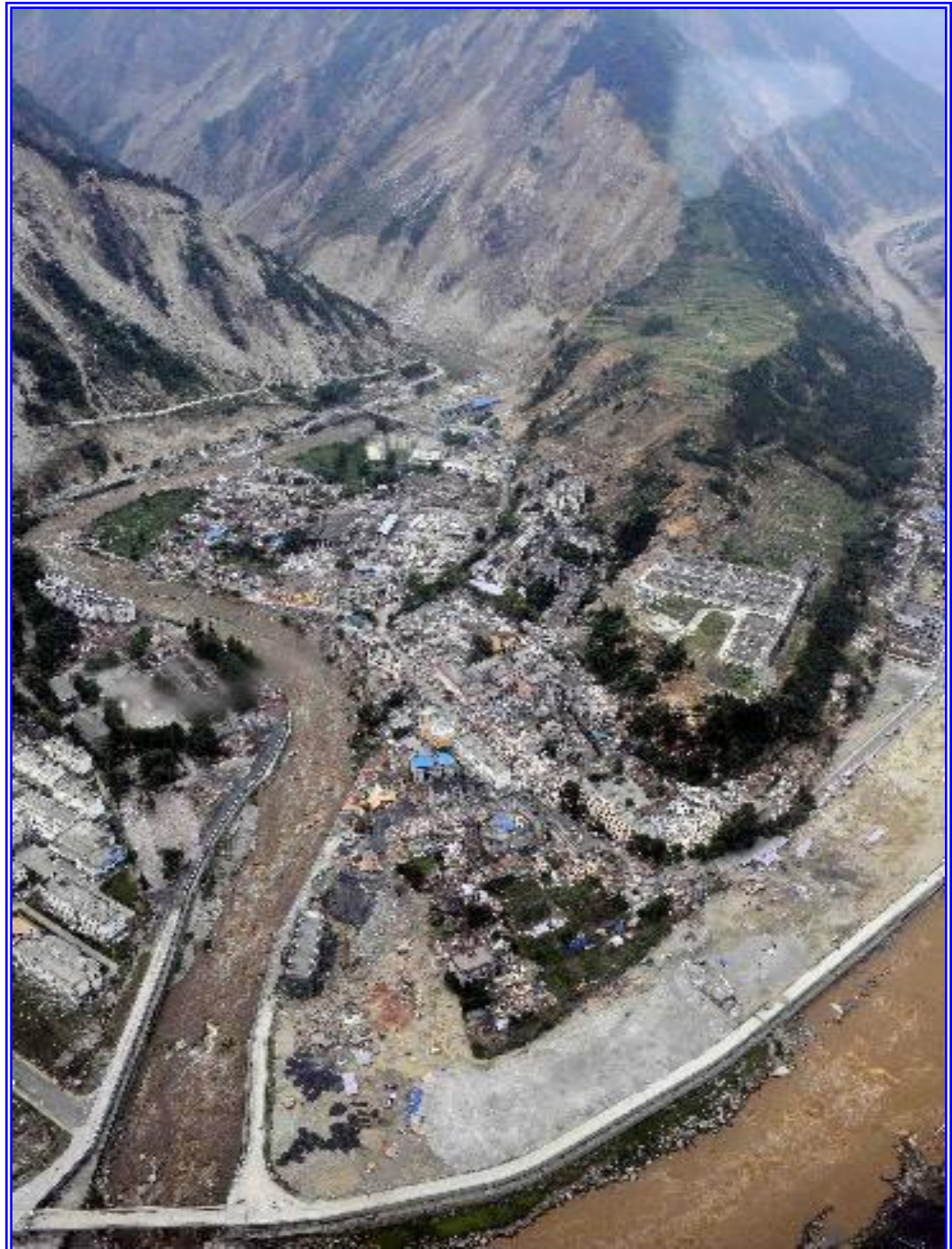
No.	Time	Location	M	Death
1	1303	Shanxi	8	200000
2	1411	Tibet	8	
3	1556	Shanxi	8.5	830000
4	1654	Gansu	8	31000
5	1668	Shandong	8.5	50000
6	1679	Hebei	8	45000
7	1739	Ningxia	8	50000
8	1812	Xinjiang	8	58
9	1833	Tibet	8	5
10	1833	Yunnan	8	6707
11	1879	Gansu	8	30000
12	1902	Xinjiang	8.3	5650
13	1920	Taiwan	8	5
14	1920	Kingie	8.5	235000
15	1927	Gansu	8	40000
16	1931	Xinjiag	8	300
17	1950	Tibet	8.6	3300
18	1951	Tibet	8	
19	1976	Tangshan	7.8	242000
20	2008	Wenchuan	8.0	69000+
21	2010	Yushu	7.1	2698

**July 28, 1976, Tangshan M
7.8 Earthquake**



**Death toll exceeded
242,000,
destructive area
300,000 square km²**

*Yingxiu Town: before
and after the Wen
Chuan Earthquake in
2008*





After 1966 Xintai Earthquake



8064 Dead, 38000 Injured

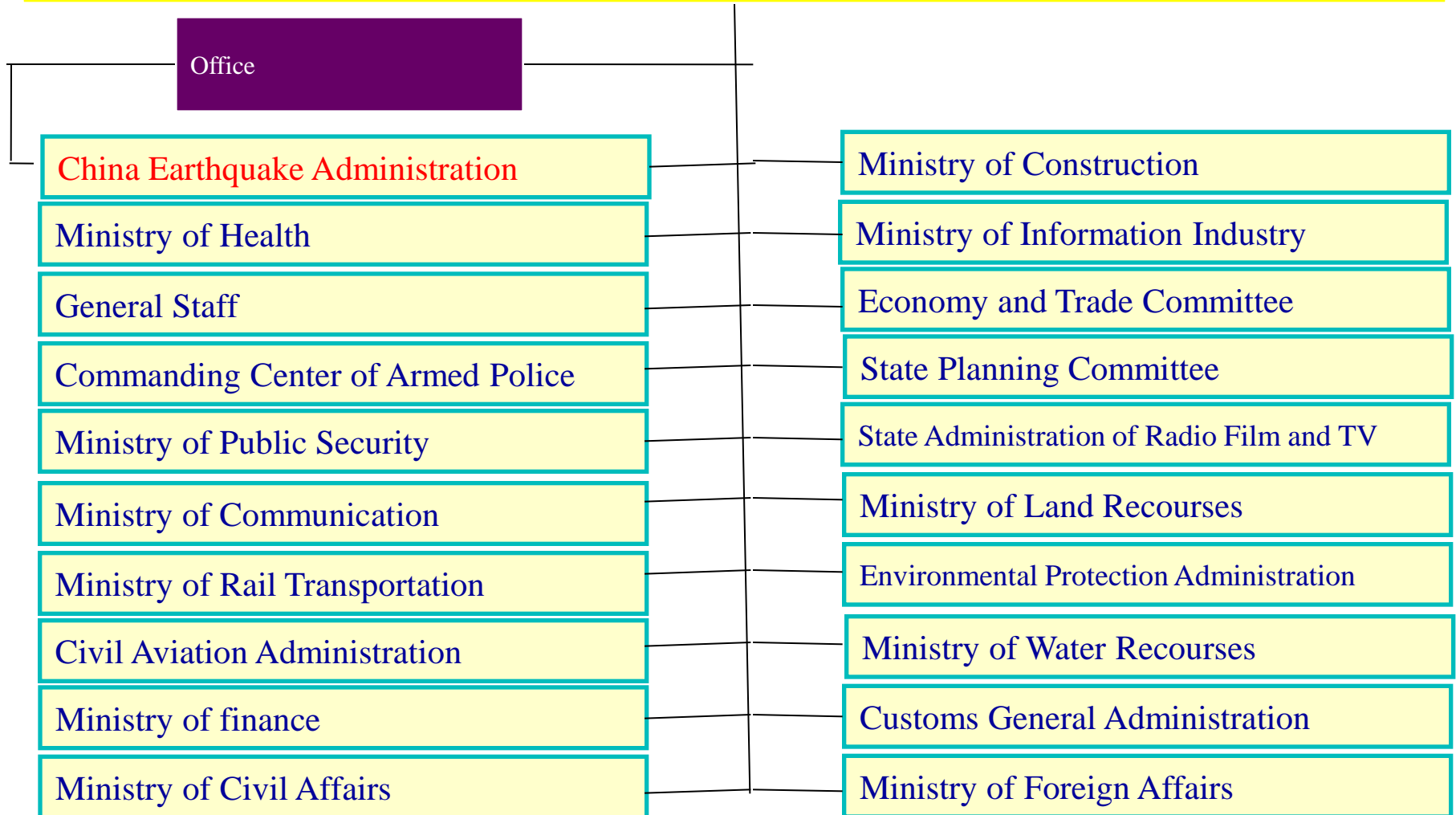


State Seismological Bureau (now China Earthquake Administration)
established in 1971

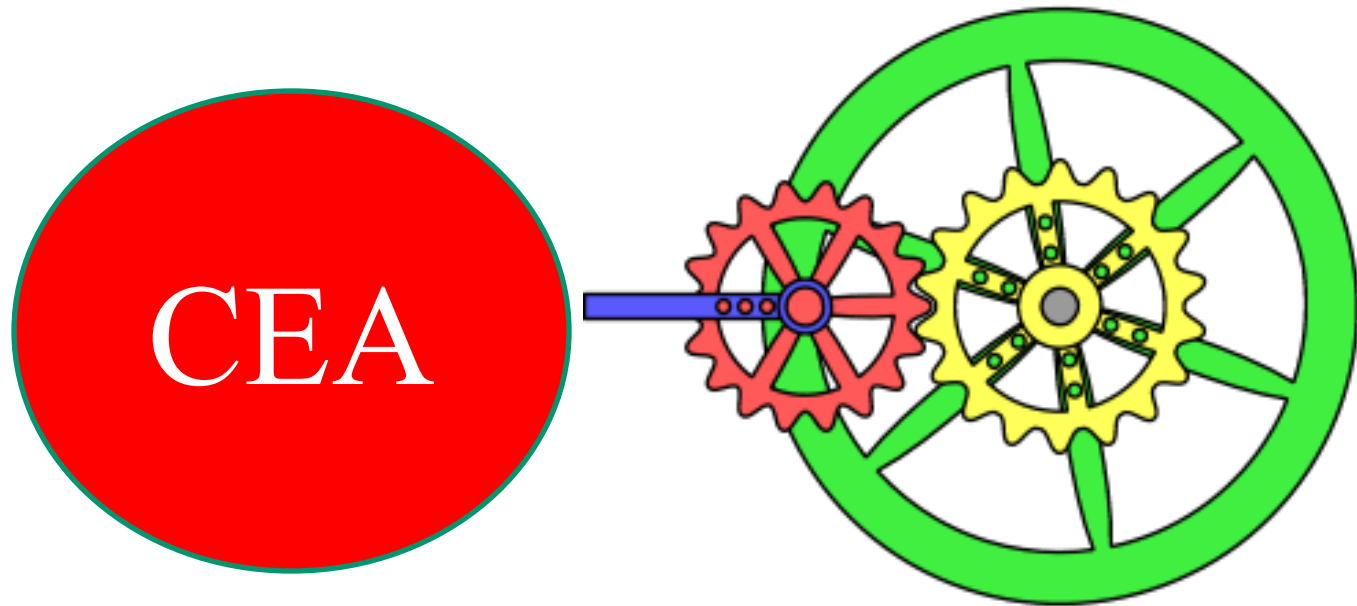
As an independent agency directly under the State Council

Earthquake emergency management

Earthquake Disaster Relief Headquarters of the State Council



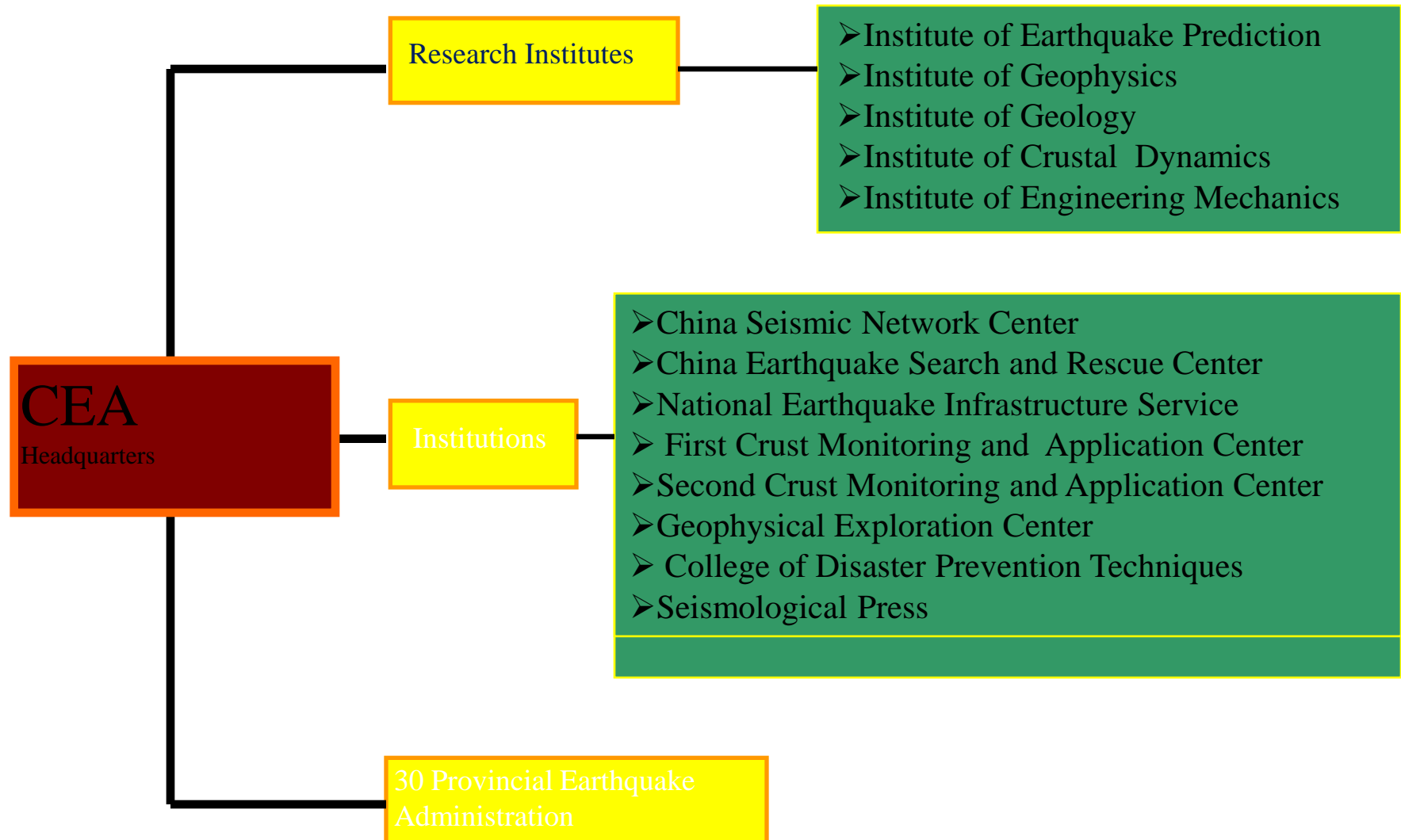
Earthquake Disaster Reduction



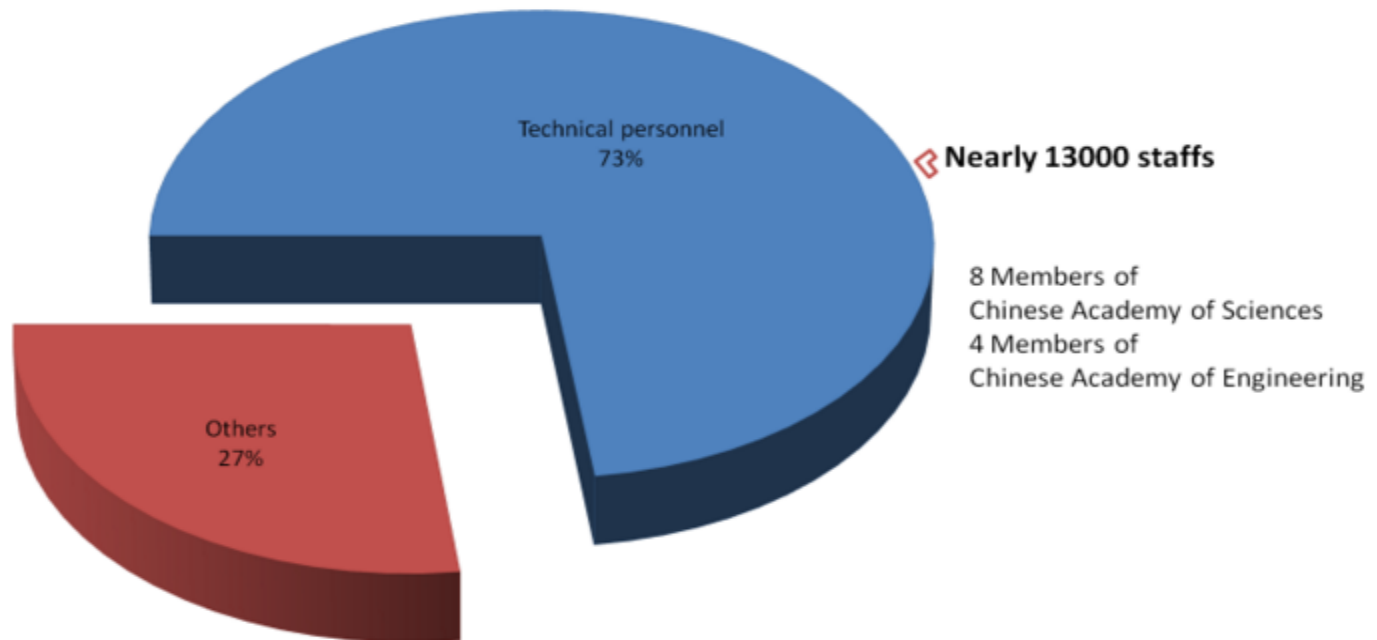


**Former President Hu Jintao and Mr. Chen Jianmin
on the Way to the Yushu Earthquake Stricken Area
(2010)**

China earthquake organizations



CEA's Staff



II. Earthquake Disaster Response in China

What is the most effective way to reduce earthquake disaster in China ?

Earthquake prediction? We can't (up till now)

Zonation? Often “wrong”

Very strong Structures ? We don't have enough money.

**Preparedness first,
combined with rescue!**

“3+1” Approaches

1. Earthquake Monitoring & Prediction

2. Earthquake Disaster Preparedness

3. Earthquake Emergency Response

4. Science and Technology

Improvement of legislation system



Law of the People' s Republic of China on Protection against and Mitigating Earthquake Disasters

(Amended and Promulgated by the People' s Congress of People' s Republic of China, 2009)

The works on earthquake prevention and Disaster reduction is supported and guaranteed by the Law.

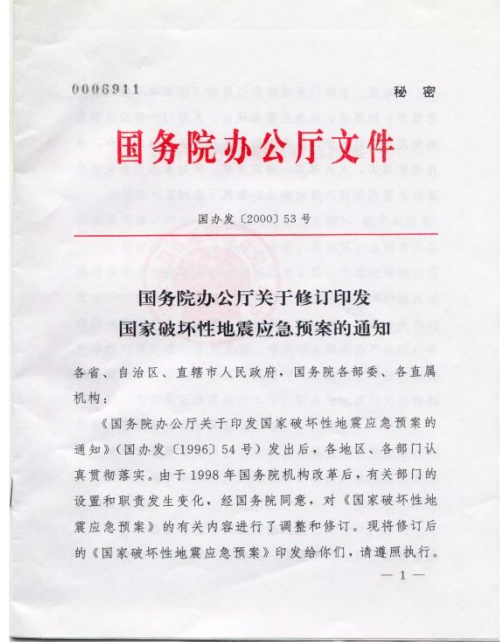


COMMAND SYSTEM

Inter-agency Coordinating Scheme

--National earthquake emergency headquarters,
and any other level sub-HQ.





Contingency Plan



Multi-level Plans: Central Gov. Level



Provincial Level



Prefecture Level



City/County Level

Plans of Different Sectors:
Command HQ, Information Transfer
Water, Food, Energy Supply
Medical Service
Communication
Transportation ...

Earthquake Drilling

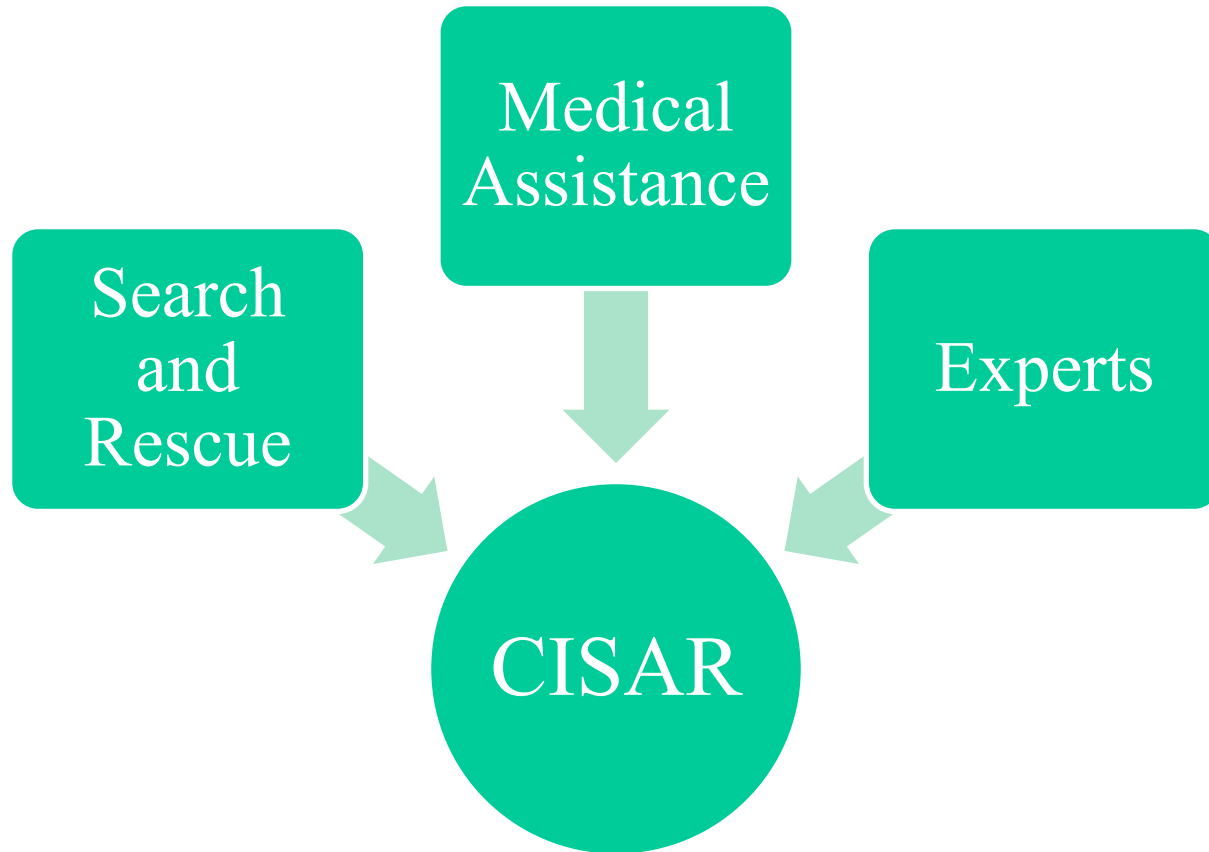


山西永济地震应急综合模拟演练





China International Search and Rescue Team (CISAR) was established on April 27, 2001. Vice Primer Wen Jiabao handed over the Team Banner.





CISAR Activities

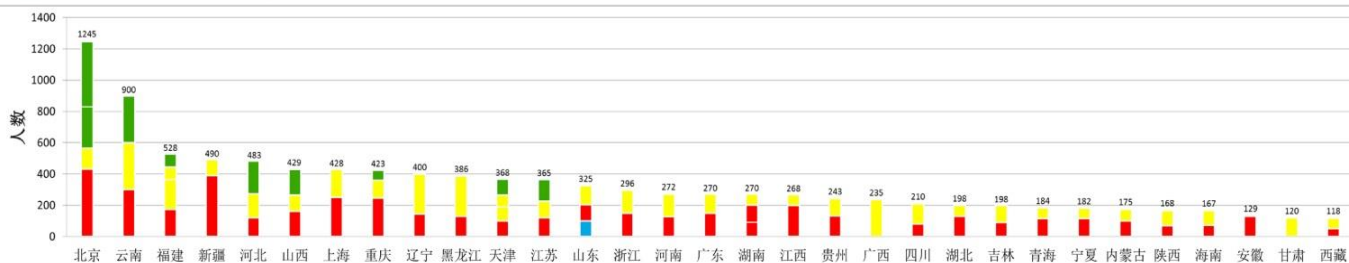
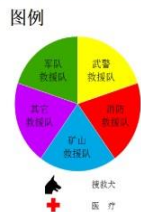


Lushan 7.0 M Earthquake happening on April 20, 2013, with 196 peoples killed and tens of thousands injured.

71 Provincial SAR Team

全国地震灾害搜索与救援专业力量分布图

(省级以上)



全国地震灾害搜索与救援专业力量分布图介绍了全国31个省、自治区、直辖市的搜救力量分布情况(香港、澳门、台湾地区暂时没有数据)。按照5个类型分类:军队救援队、武警救援队、消防救援队、矿山救援队、其它救援队。

军队救援队分布图



武警救援队分布图



消防救援队分布图



矿山救援队分布图



其它救援队分布图



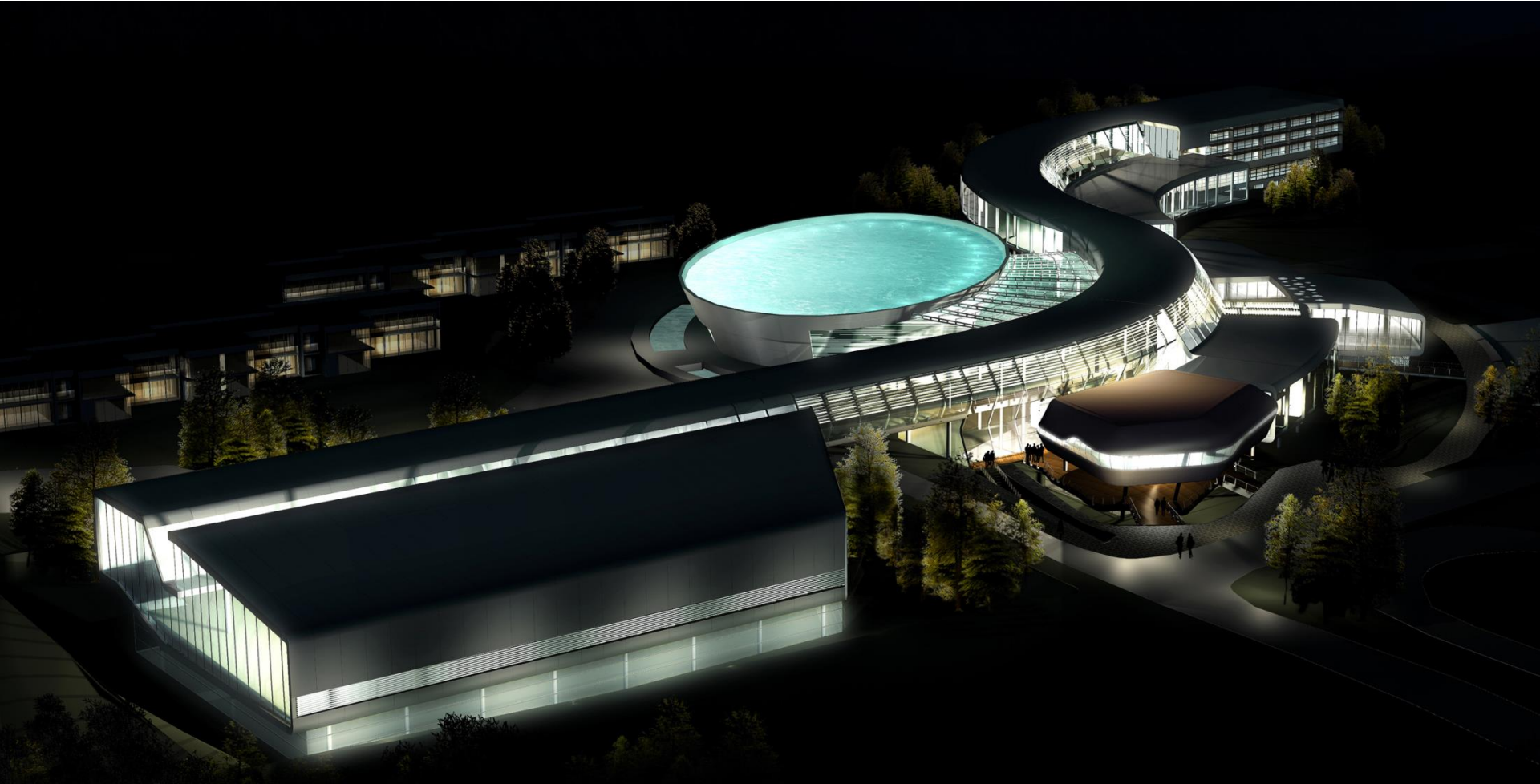
0 800 1,600 3,200 Kilometers

制图单位: 中国地震应急搜救中心
2012年9月1日

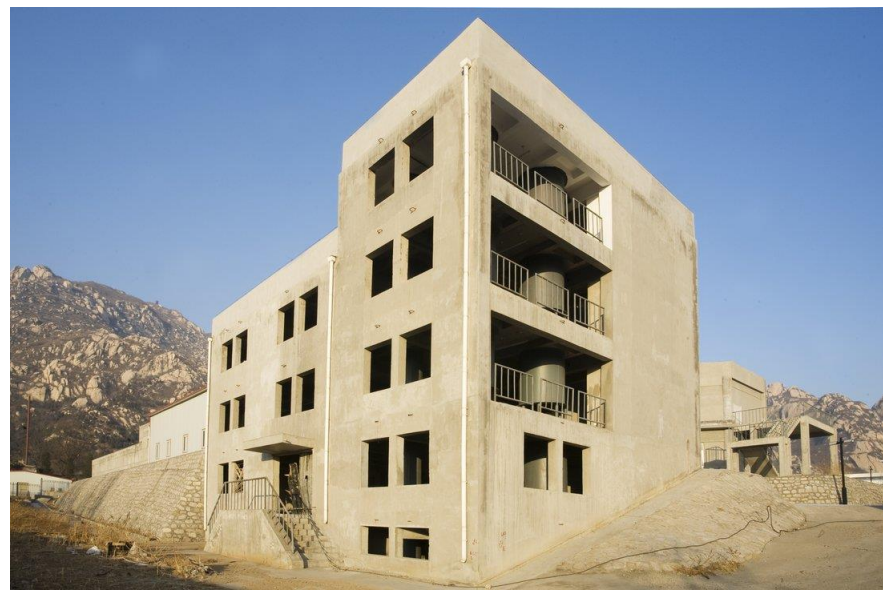
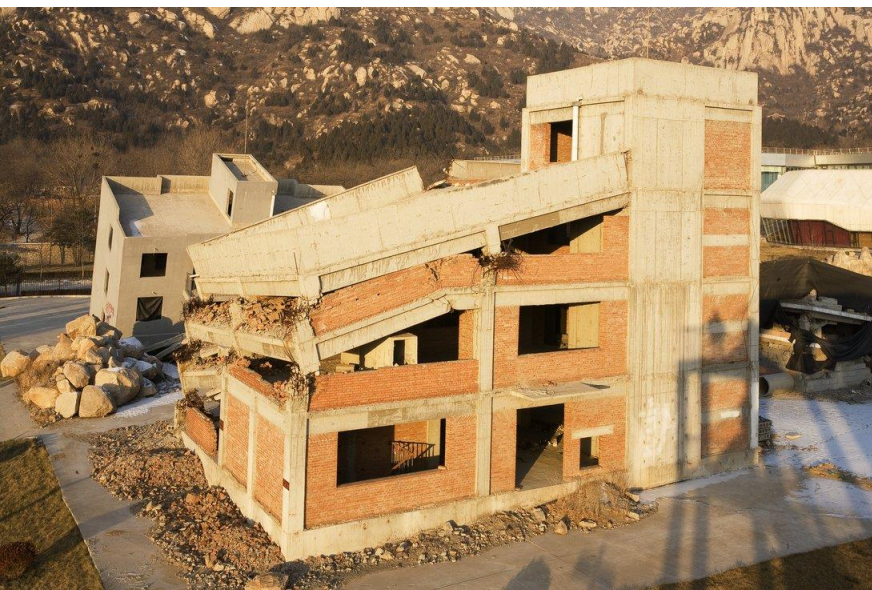
Volunteers



National SAR Team Training Base







International Winter Training



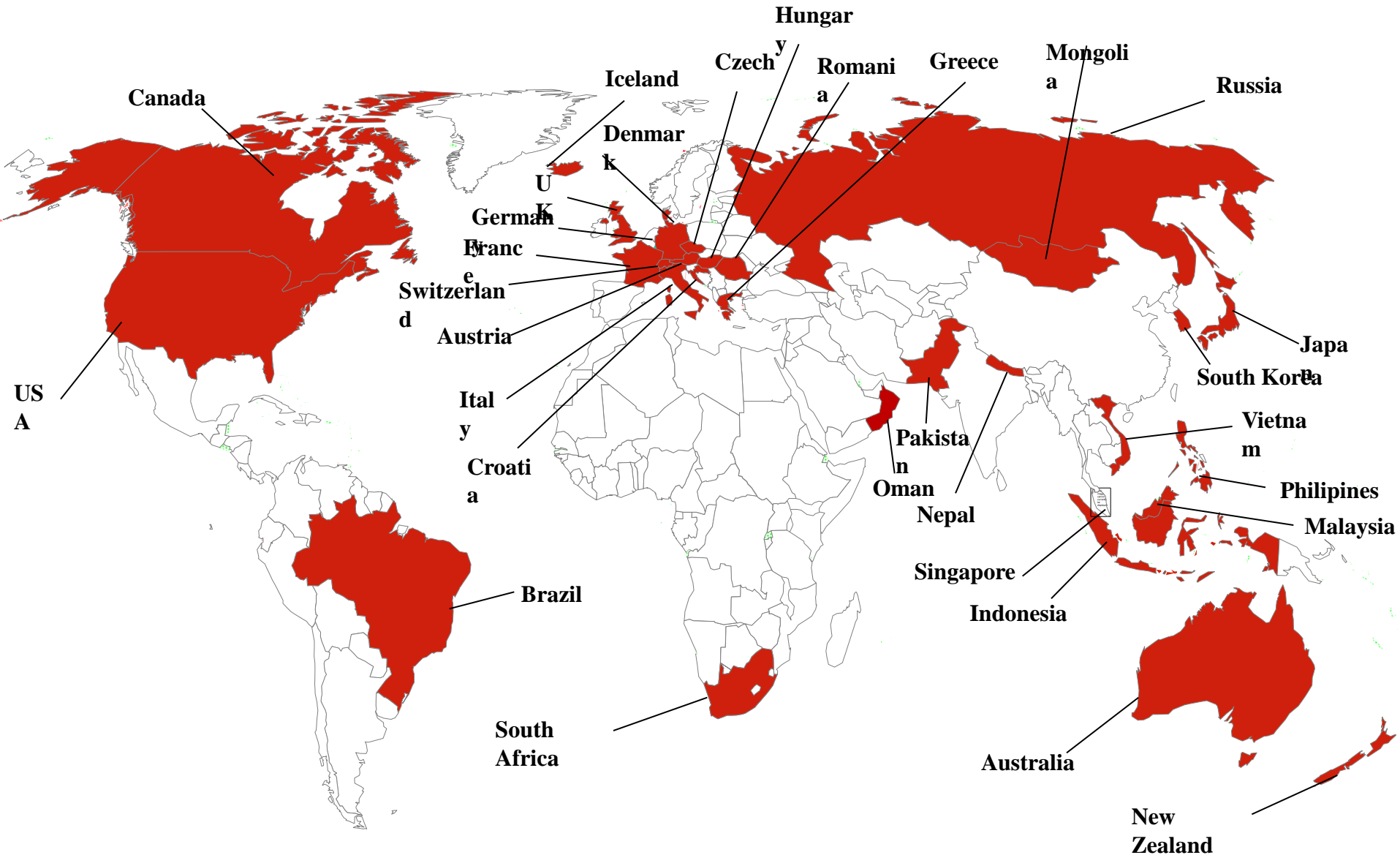
In January, CEA provide the Winter Training for SCDF. Help SCDF to building search and rescue capacity in cold areas .9 DART members from SCDF attended the one-week training.

CEA attaches great importance to the international Cooperation

➤ cooperative relations with more than 67 countries

➤ actively carry out and participate in international activities and meetings

International Exchange and Cooperation



III. CEA's Contribution to INSARAG

Since 2000, CEA positively attend the international humanitarian activities under the UN Framework

1. International Search and Rescue Missions

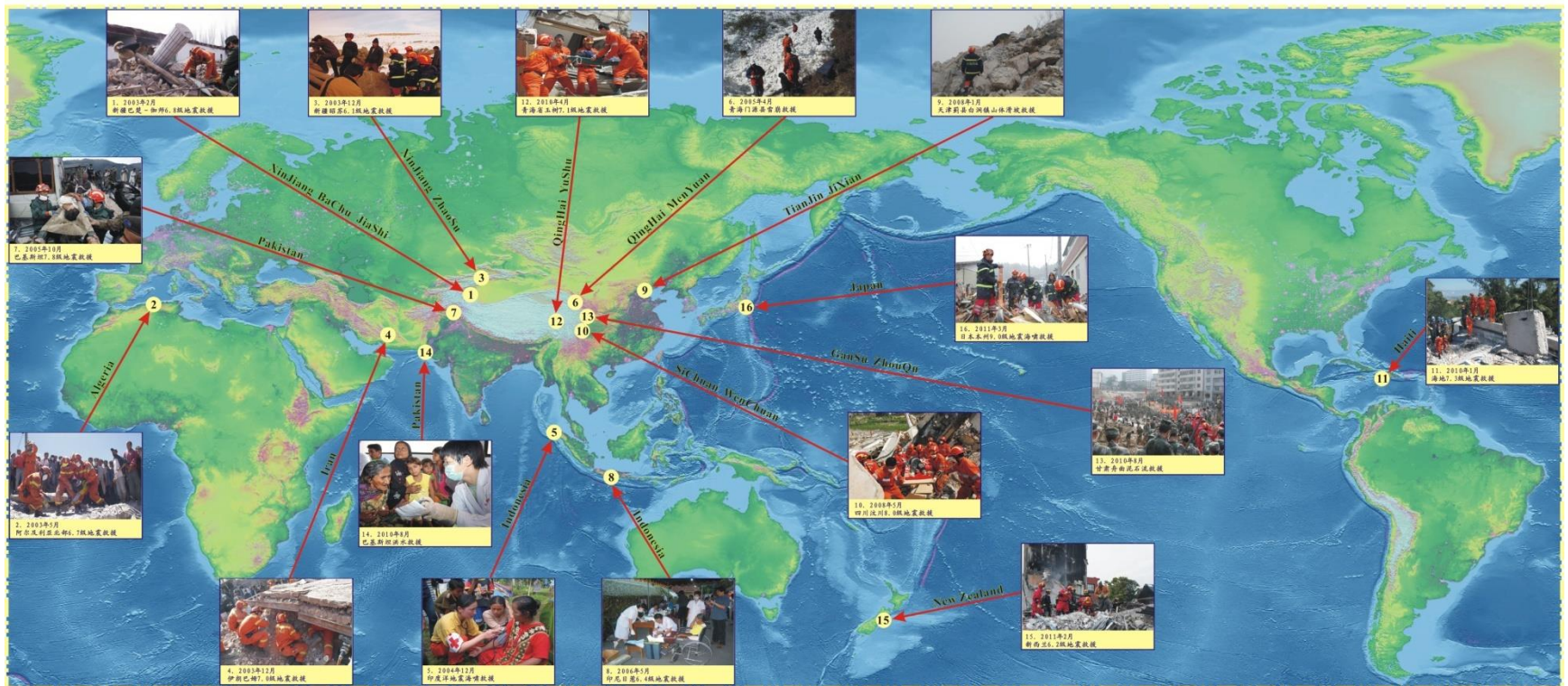
2. Relevant issues of INSARAG

1. International Search and Rescue Missions

- ❑ 2003 Algeria Earthquake
- ❑ 2003 Iran Earthquake
- ❑ 2004 Indonesia Earthquake and Tsunami
- ❑ 2006 Pakistan Earthquake
- ❑ 2006 Indonesia Earthquake
- ❑ 2010 Haiti Earthquake
- ❑ 2010 Pakistan Flood
- ❑ 2011 New Zealand Earthquake
- ❑ 2011 Japan Earthquake

Missions of CISAR

中国国际救援队历次救援行动分布图



Right now, 19 missions (9 international missions)



Mission in Indonesia





In the end of 2004, Indonesia Vice President Mr. Yusuf Kalla met with CISAR team leader during the Indian Tsunami. In 2006, after Yogyakarta Earthquake,. CISAR presented the CISAR flag to Indonesia President, Mr. Susilo Bambang Yudhoyono.



Mission in Haiti





Mission in Japan





Besides earthquake disaster, CISAR also conduct relief mission in some other disasters.

CHINA RESCUE

中

国

Medical Relief in
Pakistan Blood

援

China international Search and Rescue Team passed the IEC in 2009 and IER in 2014



IER Procedure of CISAR

2.



□ Participant INSARAG Asia - Pacific Regional Earthquake Response Exercise in 2005,2007,2008,2011,2012,2013 and 2014



2012 in Indonesia



2013 in Malaysia

Host 2006 and 2014 INSARAG Asia - Pacific Regional Earthquake Response Exercise



联合国国际搜索与救援咨询团亚太地震应急演练 INSARAG ASIA-PACIFIC REGIONAL EARTHQUAKE RESPONSE EXERCISE

中国·成都·2014
CHINA·CHENGDU·2014



■ Since 2010, CEA organized 10 “First Responder” in China, more than 1000 participants attend.



□ Dispatch Experts to attend IEC and IER for other countries.

□ Mentor of IER for Singapore and Swiss

□ Experts of IEC for Korea, Spain, Oman, Hungary, UAE

□ Experts of IER for Australia and Germany

3. Relevant issues of UNDAC and APHP



A photograph of a large, multi-story building with a central glass facade and a tall antenna tower on the roof. The building is viewed from a street with trees and cars. The text "Thank you for your attention!" is overlaid in red.

Thank you for your
attention!



OCHA

<http://www.unocha.org>



The International Search
and Rescue Advisory Group

<http://www.insarag.org/>