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Introduction of Taiwan Session:
10-year Lessons Learn
from
the Chi-Chi Earthquake

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Presentation Outline

- General description for Chi-Chi earthquake and its devastation;
- Damage overview of Chi-Chi earthquake;
- Lessons learned from Chi-Chi earthquake;
- Presenters Introduction

General Description of Chi-Chi Earthquake

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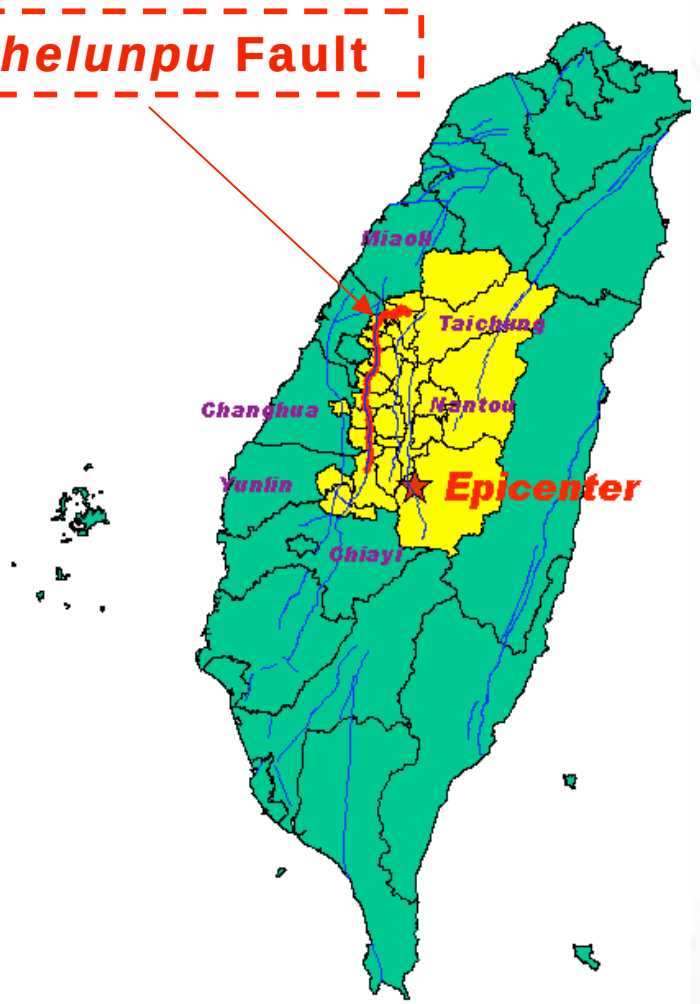
Time : Sep.21 1999
(1:47 local time)
Epicenter : Chi Chi
Magnitude : Ml 7.3

Chelunpu Fault, north to south direction and the epicenter on the central Taiwan, expressed significant energy and caused strongest earthquake in the last hundred years period.



General Description of Chi-Chi Earthquake

Death ：2,455
Missing：50
Injured：11,305(755 hurt seriously)
Housing Collapsed：
50,644 (households)
38,935 (units)
Housing Partial Collapsed：
53,317 (households)
45,320 (units)
Property loss：US$11.1 billion

Damage Overview for the Chi-Chi Earthquake

Damage Overview of Chi-Chi Earthquake

- Serious landscape changes and geological destructions;



- Public facilities: schools, police station, public office building were damaged seriously;


- Infrastructures damaged: electric power, gas pipe-line, Dam, public transportation system ;

- Residential Housing collapsed and partial collapsed
- Industrial damaged, mental health injured

Disaster Management Issues Discovered

- Inadequate capacity of technology for supporting disaster management
- Insufficient coordination between decision making and implementation
- Insufficient capability of local government in response and recovery phases
- Response actions seriously affected by inaccurate information
- The poor risk perception in the communities

Our Efforts

◆The government and peoples has been involved not only in the physical recovery of earthquake damage, but also put lots of effort on different aspects such as improving the industry environment, livelihood and mental recovery.

◆ Building disaster management system. We enhancing the capacity of hazards preparedness of each level, through the collaboration among multi-public sectors and research groups.

◆In this session, we would like to share what we learned and what have been improved on four topics .

Presenters Introductions

◆Liang-Jung Wei --

Program Manager, Sustainable Development Research, National Science Council

National Science & Technology Program for Hazards Mitigation in Taiwan

◆Keh-Chyuan Tsai --

Director, National Center for Research on Earthquake Engineering

Earthquake Hazard Mitigation Research and Practice in Taiwan

◆Jie-Ying Wu--

Assistant Professor, Dept. of Urban Planning and Disaster Management, Ming-Chun University

Fostering Community Resilience-Taiwan's Community-Based Strategy for Disaster Reduction

◆Hsueh-Cheng Chou--

Information Division Head, National Science and Technology Center for Disaster Reduction

Professor Dept. of Geography, National Taiwan Normal University

The Experience of Developing Safe Taiwan Information System (SATIS) in Taiwan

National Science and Technology Center
for Disaster Reduction

The End

Thanks for your attention