



Global Platform for Disaster Risk Reduction
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RADIUS plus 10 Project



Asia Regional Task Force on Urban Risk Reduction (RTF-URR)

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Global Platform for Disaster Risk Reduction

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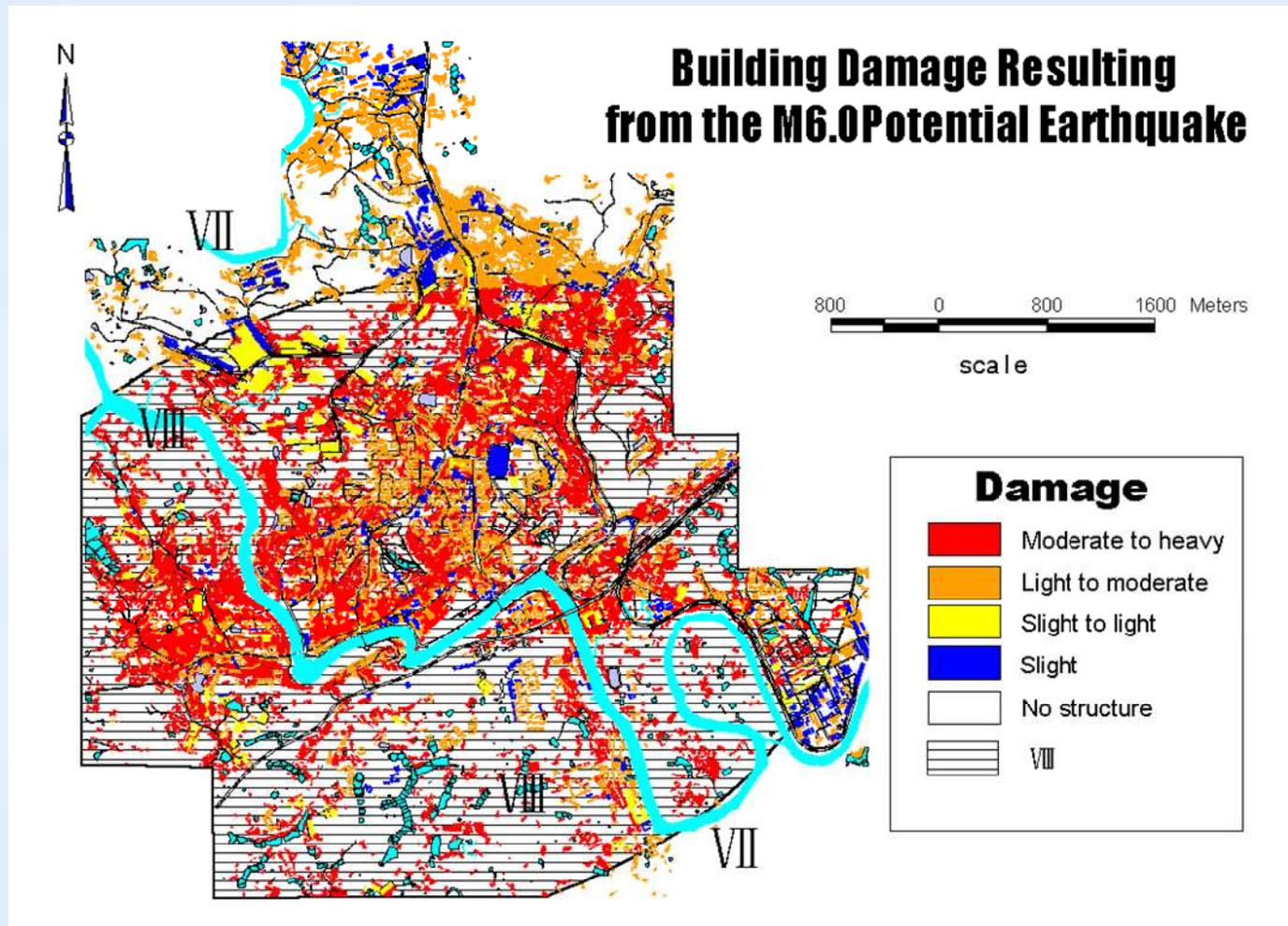


RADIUS Project: (1997-1999)

- **R**isk **A**ssessment Tools for **D**iagnosis of Urban Areas against **S**eismic Disasters
- Initiative of IDNDR (**I**nternational **D**ecade for **N**atural **D**isaster **R**eduction: 1990-1999) funded by Government of Japan
- Methodology for raising awareness about earthquake disasters of city government officials and other stakeholders of the community
- Case Study Cities: 9 cities (**Zigong**, Tashkent, Bandung, Tijuana, Guayaquil, Antofagasta, Addis Ababa, Skopje, Izmir)
- Associate Cities: Cities which had already carried out a seismic risk assessment or were in the process (35 cities around the world)
- Member Cities: Cities which participated in the study called “Understanding Urban Seismic Risk Around the World” to understand their seismic risk (74 cities around the world)



Output of Zigong Case Study:



Building damage scenario in Zigong

(red parts mark moderate to high damages in the central part of the city)



Output of RADIUS Project:



RADIUS tool (a simple excel based training tool for damage assessment)



Wenchuan Earthquake: (12 May 2008, Sichuan Province of China)

- Magnitude 8.0, rocked more than half of China's territory, almost 88,000 people dead or missing
- City of Zigong located approx. 200 km from the epicenter
- Reminded us of the need for seismic risk reduction in urban areas

Assessment Mission to China: (26-31 October 2008)

- Opportunity to review the effect of RADIUS project as seismic disaster reduction program in Zigong and Sichuan Province
- Sponsorship and financial support from UNISDR and ADRC, WSSI (World Seismic Safety Initiatives) was tasked to evaluate the effectiveness of RADIUS project in Zigong
- A team of 6 experts representing WSSI and RTF-URR visited Beijing, Zigong, Chengdu, and the areas affected by the Earthquake



Objectives of the Assessment Mission:

- Assess the impact of RADIUS project in Zigong City and Sichuan Province;
- Review and analyze what changed following the completion of RADIUS in 1999 and the barriers (politics, power, technical issues etc) that might have prevented some actions post RADIUS;
- Identify a set of recommendations for future disaster reduction strategies that are actionable in Zigong City and Sichuan Province in general;
- A set of questionnaire was sent to some of the RADIUS Associate and Member Cities in China (Beijing, Tianjin and Shenyang close to Dalian).



Key Findings Include:

- The direct application of RADIUS results for fast government response after a destructive earthquake event;
- The project's serving as the catalyst for more comprehensive national programs on earthquake disaster reduction;
- The importance of a specialized government agency for earthquake disaster reduction;
- The need to expand the functionality of RADIUS project.



Recommendations and Actionable Items:

- Accuracy improvement of the RADIUS tool;
- Expansion of the RADIUS functionality to include networking and interface to other existing systems;
- Web-based application;
- Integration with fast intensity reporting and emergency response system;
- Improvement of casualty estimation and its distribution;
- Quantitative evaluation of earthquake disaster reduction programs.



RADIUS plus 10 Project:

Phase 1: Evaluation of RADIUS project in Zigong city
(assessment mission completed, report being finalized)

Phase 2: Recommendations actionable for Zigong and
Sichuan Province, analysis of questionnaire for RADIUS
Associate and Member Cities in China (on-going)

Phase 3: (Plan)

- Similar activities in other RADIUS case study cities in Asia, such as Bandung (Indonesia), Tashkent (Uzbekistan) and possibly Izmir (Turkey), taking into consideration the lessons learned from the Zigong City case.
- Come up with a set of recommendations that are actionable in those cities focusing on a few priority issues including critical infrastructure like schools and hospitals.



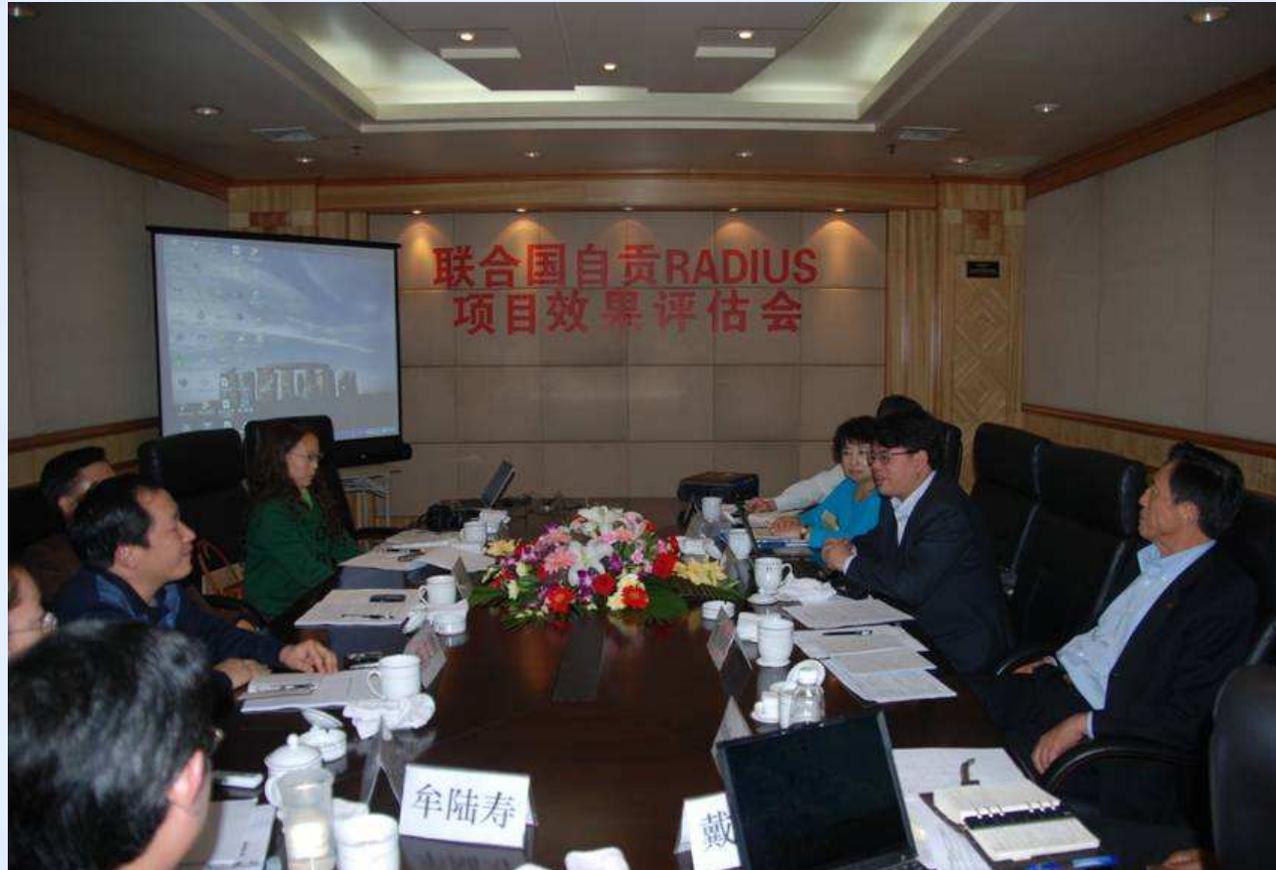
Way Forward:

Possible Longer-term Activities

- **Development of a training programme**
- **Conduct of training seminars for a few pilot cities**
- **Development of action plans to reduce seismic risk and to advance their earthquake disaster preparedness in the pilot cities, using the updated RADIUS tool and recommendations**
- **Organization of local workshops in the pilot cities for capacity building and implementation at the city level**
- **Replication of assessment and training for other RADIUS case study cities (Addis Ababa, Antofagasta, Guayaquil, Skopje, and Tijuana)**



Thank you!



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