Introduction
(earthquake hazard map)

Dissemination Strategy for Standard on Earthquake Resistant Building for Better Preparadness on Earthquake Disaster

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Earthquake Evidence in Indonesia

Last earthquake : 04 June 2012 at 18.18 Sukabumi area with 24 km depth and energy 6.1 Ritcher Scale.

Year 2007 : 27 times > 5 s/d 6,3 SR
(6,3 SR: 1) 27/4/07 8:02:49.6
Year 2008 : 27 times > 5 s/d 7,5 SR
(7,5 SR: 1) 20/02/10 8:08:30.
Year 2009 : 28 times > 5 s/d 5,8 SR
5,8 SR: 4/1/09 20:22:34.0
Year 2010 : 15 times> 5 s/d 7,2 SR
(7,2 SR: 1) 9/5/10 12:59:41.0 dan 2) 12/6/10 02:26:16.0)
Year 2011: 5 times > 5 s/d 5,7 SR
(5,7 SR: 1) 18/01/11 18:33:43
Year 2012 : 26 times > 5 s/d 8.5 SR

How to decrease the risks?
Increase the awareness
Educate the people and stake holders
Factors Affected Building Failures By Earthquake Disaster

- Planning: In-appropriate land-use, Implementation of standards, Low quality of construction techniques, In-appropriate building use, Low quality of construction techniques
- Design: Distance from fault, Site characteristic, Distance from fault, Low quality of construction techniques, In-appropriate building use
- Construction: Not confirm to codes / standards, Not available, No information, Not confirm to codes / standards, Not available
- Operation: Low quality of construction techniques, Lack of knowledge, Corruption, Over-loaded in some parts, Lack of maintenance
- Maintenance: Low quality of construction techniques, Over-loaded in some parts, Lack of knowledge, No information

Actors in Building Construction

- Government: Owners, Governors, Regulators
- People/NGOs: Owners, Builders, Dwellers
- Private Sectors: Owners, Consultants, Contractors

Roles of RIHS

- R & D for producing technologies & draft of policies
- Establishing Standards, guidance & manuals;
- Dissemination of technologies & Standards, guidance & manuals;
- Giving technical advices.

Dissemination Strategy

learning to work together, working to learn together
Target Groups

- Central & Local Government officials
- Consultants including universities;
- Contractors;
- Student in any level;
- NGOs
- Ordinary peoples.

Strategy Process

- Methods of Raising Awareness
- Methods of Raising Interest
- Methods of Moving Individuals to Seek Out Information
- Methods for Decision-Making
- Methods to Move Individuals to Action.

Methods of Raising Awareness

- Socialization through media, printed, television etc.
- Focus on the importance of following standards, application of appropriate technologies;
- Wide range of target groups;
- Using more popular language than technical/scientific sentences;
- More animations.

Methods of Raising Awareness

- Presentation for stake holders in earthquake hazardous cities;
- Focus on the importance of following standards, application of appropriate technologies;
- Selected range of target groups;
- Using more popular technical/scientific language
- More technical presentation.
Methods of Raising Interest

• Improving the dissemination materials with a more practical examples

Methods of Raising Interest

• Getting closer to the target groups, understanding the problems and try to solve together

Socialization in earthquake prone area

Methods of Moving Individuals to Seek Out Information

Survey result to know the people perception on the earthquake resistant of their houses

Methods of Moving Individuals to Seek Out Information

Result of construction survey

Facts about the construction of the houses (structure & construction material).
Methods of Moving Individuals to Seek Out Information

After people understand, they propose to get building permit, goverment approved the proposals

Methods for Decision-Making

• Bottom-up Vs Top-down
• More democratize
• Involvement of informal leaders

Methods to Move Individuals to Action.

• Intensive training

Transfer the knowledge from experts to the goverment officials, consultants, contractors in the form of Training for the Trainers

Methods to Move Individuals to Action.

• Consistency on guidance

Checking size & tolerance of bricks

In-appropriate practise

Good Practises
Methods to Move Individuals to Action.

- Consistency on guidance

   - Checking size & tolerance of steel bars
   - Checking quality of concreting

Methods to Move Individuals to Action.

- Apply together & give intensive technical advices

   - Assist the carpenters and workers in applying good building construction system

Some model earthquake resistant houses

- Kab. Bantul
- Kab. Tanah Datar
- Kab. Agam
- Kota Yogyakarta

Closing Remarks

- Since Indonesia lies in the earthquake disaster prone area, technologies, standards, guidance as well as draft of policy had been developed to support the earthquake safer condition;
- Since the target groups are various, the dissemination strategies developed are different from one to each other target group in the step of raising awareness, raising interest, moving individuals to seek out information, decision making and move individuals to action;
Thank you

Domo arigatou gozaimasu