A Snapshot View of Building Code Enforcement and Dissemination

Shoichi Ando Dr.

Coordinator
United Nations Centre for Regional Development
Disaster Planning Hyogo Office

UNCRD project on housing safety

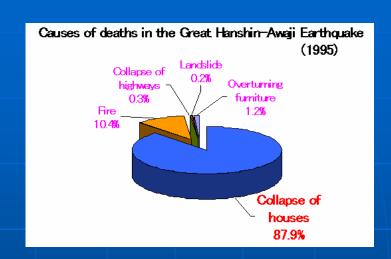
Housing Earthquake Safety Initiative

Anti-Seismic Building Code Dissemination (ABCD) in 2007

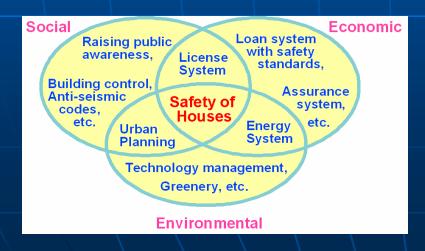
- Target country:
 Algeria, Indonesia, Nepal & Peru
- Duration:2007 2009
- Funding source:
 Ministry of Land, Infrastructure and Transport, Japan

Why Building Code?

1. Close to 90% of victims of the Kobe Earthquake in 1995 lost their lives due to collapse of houses.



2. Building code is one of the most effective and efficient policy tools for housing safety.

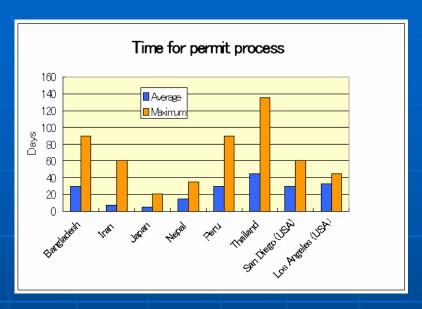


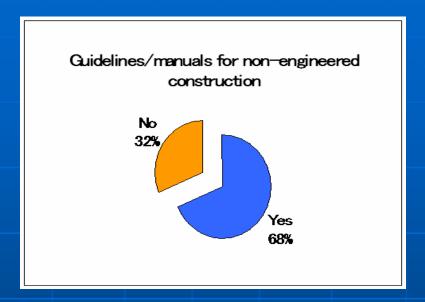
Evaluation criteria	Effectiveness for safety	Economic efficiency	Administrative feasibility	Total Policy Evaluation
Code	High	High	High	Best
Subsidy	High	Law	Middle	Middle
Rating	Middle	High	Middle	Middle
Manual	Middle	High	High	Better
R&D Fund	High/Low	Law	High	Middle

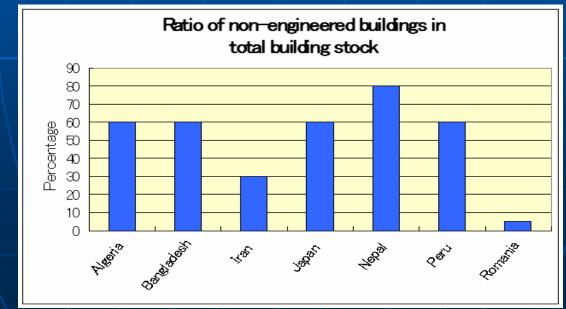
HESI Questionnaire

- Questionnaire period:October December 2006
- No. of replies:
 20 (11 under national jurisdiction, 9 local governments)
- Respondent countries
 Algeria, Bangladesh, Djibouti, Gaza, Indonesia, Iran, Japan, Nepal, Peru, Romania, Thailand & USA

Selected Facts







Problems in effective enforcement of Building Code

Implementation system

- Absence of technical supervision
- Partial geographic coverage
- Insufficient penalty system

Building code

- Need for simplification
- Unsatisfactory coverage
- Need for revision
- Too frequent change of codes

Problems in effective enforcement of Building Code (cont'd)

Capacity of local governments

- Inability to evaluate performance based design
- Insufficient training of technical personnel

Capacity of Stakeholders

- No opportunity to learn code
- Lack of motivation among professionals

Socio-economic obstacles

- Lack of knowledge about code
- Negligence and unwillingness of house owners to apply earthquake safe techniques
- High cost of retrofitting