Topic 3:
Strategies for Dissemination of Technologies to Communities

Kenji OKAZAKI
National Graduate Institute for Policy Studies (GRIPS)

Objectives

- To develop guidelines to disseminate and broadly apply the recommended technologies for earthquake resistant construction and retrofitting of conventional houses at community level.

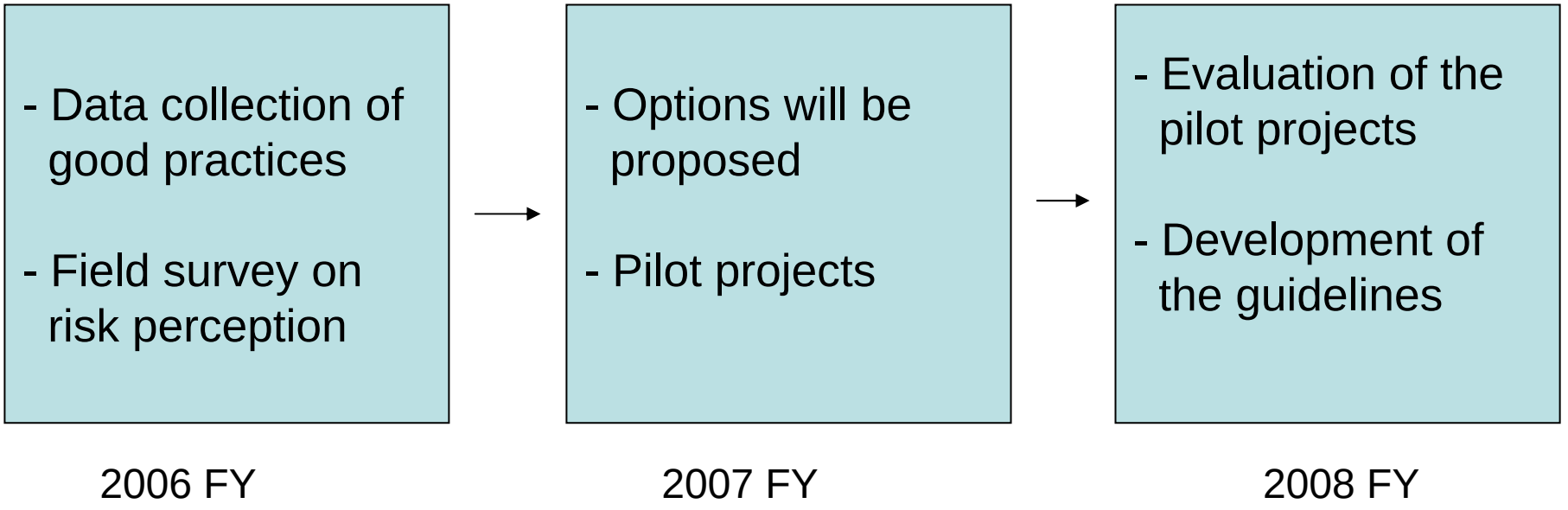
Background

In order to reduce the damage caused by earthquakes, it is indispensable to improve the structural safety of conventional houses. Technologies for structural improvement of such houses are already available and some will be evaluated through this research project.

What is necessary for dissemination of technologies?

- Develop appropriate building regulation schemes for non-engineered construction which more people would comply with
- Enhance capacity of engineers and masons through trainings and education
- Raise awareness among people to better understand individual seismic risk
- Motivate people to invest for safety of their houses to protect their family lives and houses from earthquakes.

Activities 2006-2008 FY (3 years)



Activities 2006 FY

- Good practices will be compiled, particularly from the selected countries (Indonesia, Nepal, Pakistan, and Turkey), and analyzed to identify factors for success toward safer housing
- A field social survey will be conducted in the selected countries to better understand the earthquake risk perception and identify factors to affect actions for housing safety.
- A pre-test has been conducted by NSET Nepal in early November. The result is reported during the workshop.
- Another research on disaster education will be also conducted

Questions in the questionnaire

- Address, Sex, Age, Ethnic group, Family members living together , Migrated or ancestral, Household income, Occupation, Academic qualification
- About the house

  - Ownership, Floor area, Type of houses, Major structure, Cost
- About risk

  - Have you ever experienced any kind of disasters in your lifetime? If yes, what kind of disaster(s) you have experienced?

  - What do you think will most severely affect your life?

  - What kind of disaster risk do you think is the highest in this area within next 10 years?

  - Do you think a big earthquake will occur in this area in the future?

  - What kinds of impacts do you anticipate due to a big earthquake? etc.
- About communities

  - What facilities do you think should be protected with high priority

  - Any community based associations or organizations are working for disaster risk reduction in this area?

  - Have you participated in any initiatives/activities for disaster risk reduction?

Activities 2007 – 2008 FY (tentative)

2007 FY

- Options will be proposed for dissemination and application of the technologies, based on the study in the previous year.
- The pilot project will be conducted in the selected countries. The pilot project may include;

  - Development of audio visual materials for disaster education

  - Implementation of the improvised shake table demonstration for awareness raising

  - Training of masons and engineers

2008 FY

- The pilot projects will be evaluated and the results will be incorporated into development of the guidelines for dissemination and application of the technologies for housing safety

Outcome

- Introduction of good practices for dissemination and application of technologies for safer housing
- Study on risk perception in the 4 countries
- Pilot projects in the 4 countries
- Guidelines for dissemination and application of technologies for safer housing