

**Joint Workshop on Theme 1 and Theme 3 of
Collaborative Research and Development Project for Disaster Mitigation
in Earthquake Prone Areas of Asia**

27 September 2007, Kathmandu, Nepal

**Project Status in Nepal: Theme 3
Effective Dissemination of Safe Building Technologies**



NSET

www.nset.org.np

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(NSET)**



Theme 3: Strategies for Dissemination of Technologies to Communities

Objective

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

Implemented by:

- **GRIPS and NSET**



Envisioned Activities

- **Data collection of good practices**
- **Field survey on risk perception**
- **Propose options for dissemination**
- **Implement pilot projects**
- **Evaluation of pilot projects**
- **Develop guidelines**



Activities conducted so far

Mainly,

- **Field survey of risk perception**
 - **Risk perception of common people / households**
 - **Risk perception by Municipal Officers and high level government officials**

- **For**
 - **Audience Characteristics Analysis**
 - **Need Analysis for Dissemination Strategy Development**



Methodology of Risk Perception Survey (survey at community)

- **Development of questionnaire for field survey of risk perception**
 - **NSET assisted Prof. Kenji for finalization of questionnaire,**
 - **Translation into Nepali and**
 - **Printing**

- **Training of surveyors**
 - **Around 12 community volunteers who are university students also – trained on conducting the survey**
 - **The survey itself was an awareness raising event**



Methodology...

- **Pre-testing of questionnaire**
 - **To know the appropriateness of survey questions**
 - **Make modifications if necessary**
- **NSET carried out a pre-test survey in Nov. 2006**
 - **In community of Ward No. 17 of KMC,**
 - **In around 65 households**
 - **The questionnaire was modified based on the experience of pre-test survey**
 - **The results/observations were presented to a video conference organized on 22-23 Nov. 2006**



Methodology...

- **Selection of 2 communities for survey**
 - **Similar type of development and economic status**
 - **Different in terms of exposure to the DRM activities**
 - **Selected communities:**
 - **Ward No. 17 – Chhetrapati: exposed to DRM activities**
 - **Ward No. – 13 – Kalimati: less exposed to DRM activities**
 - **Survey was completed – end of January 2007**
 - **In around 800 households**

Glimpse of Survey





Questionnaire

- **35 questions**
- **Categories**
 - **Demography**
 - **Housing details**
 - **Perception on different disasters**
 - **Perception on responsibility to make the house safer.**
 - **Priority to make the community earthquake safe**

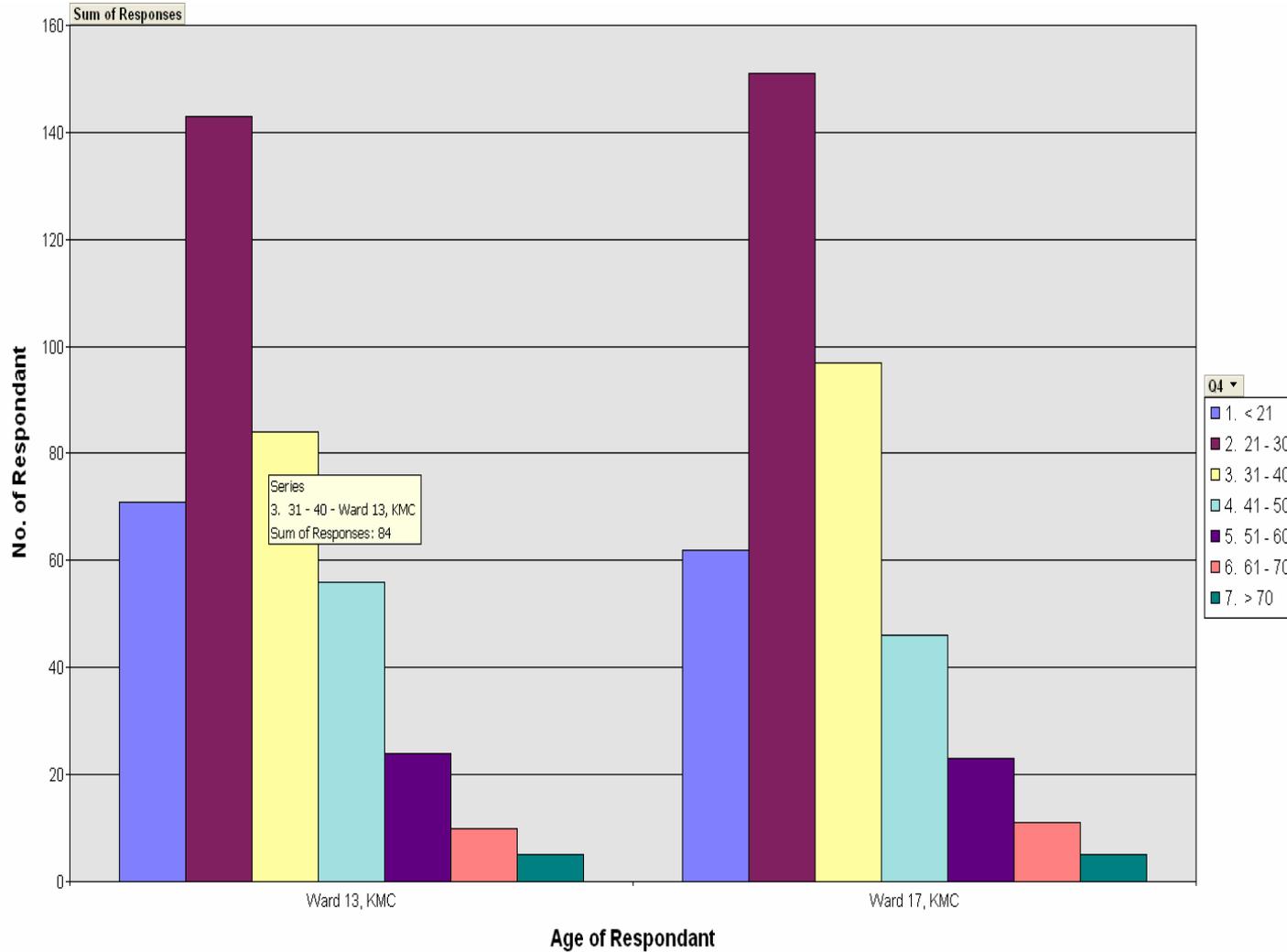


Methodology...

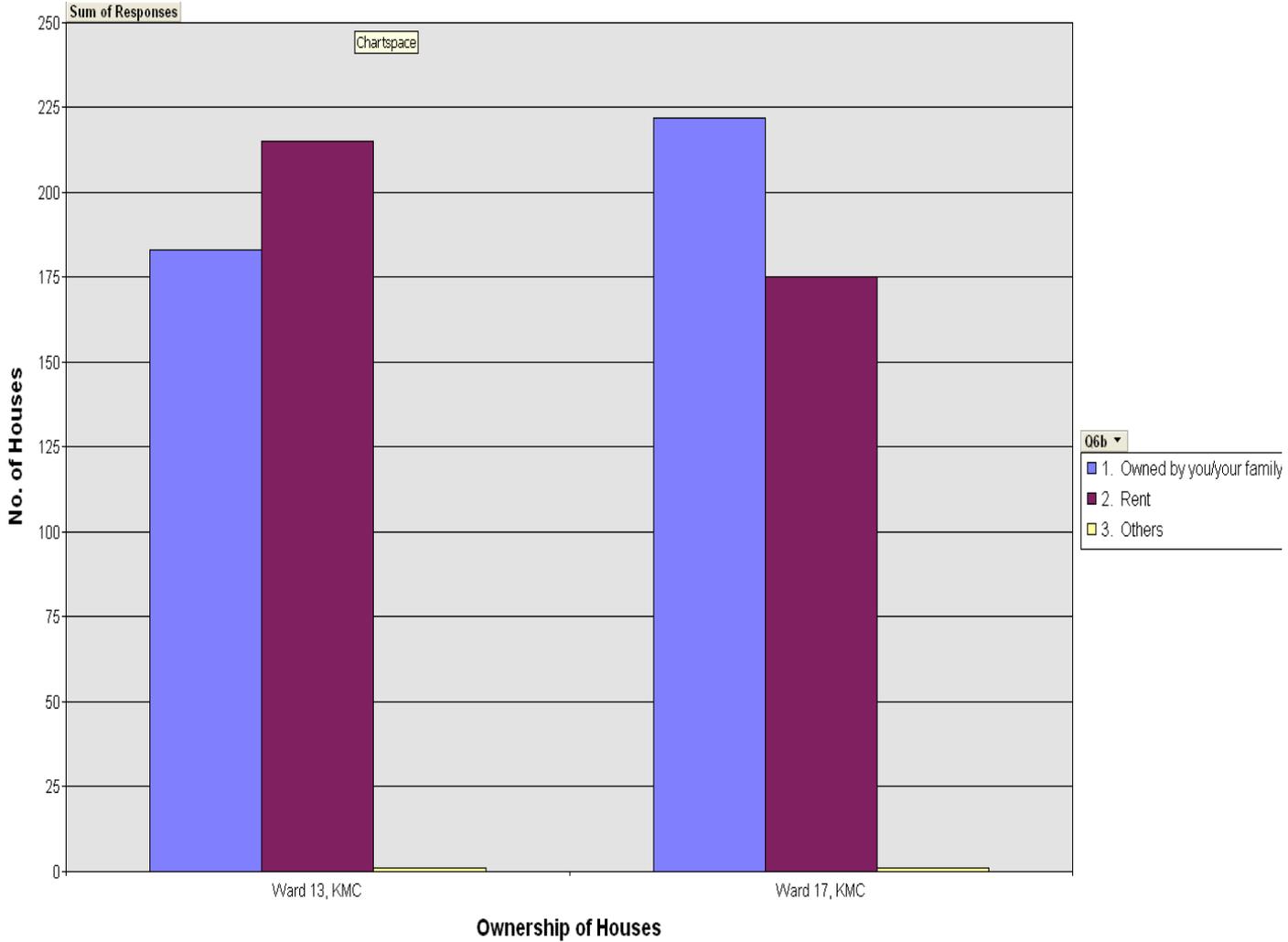
- **Analysis of survey data**
 - **By using analysis tool provided by GRIPS: Prof. Kenji**
 - **Presented as charts and tables**



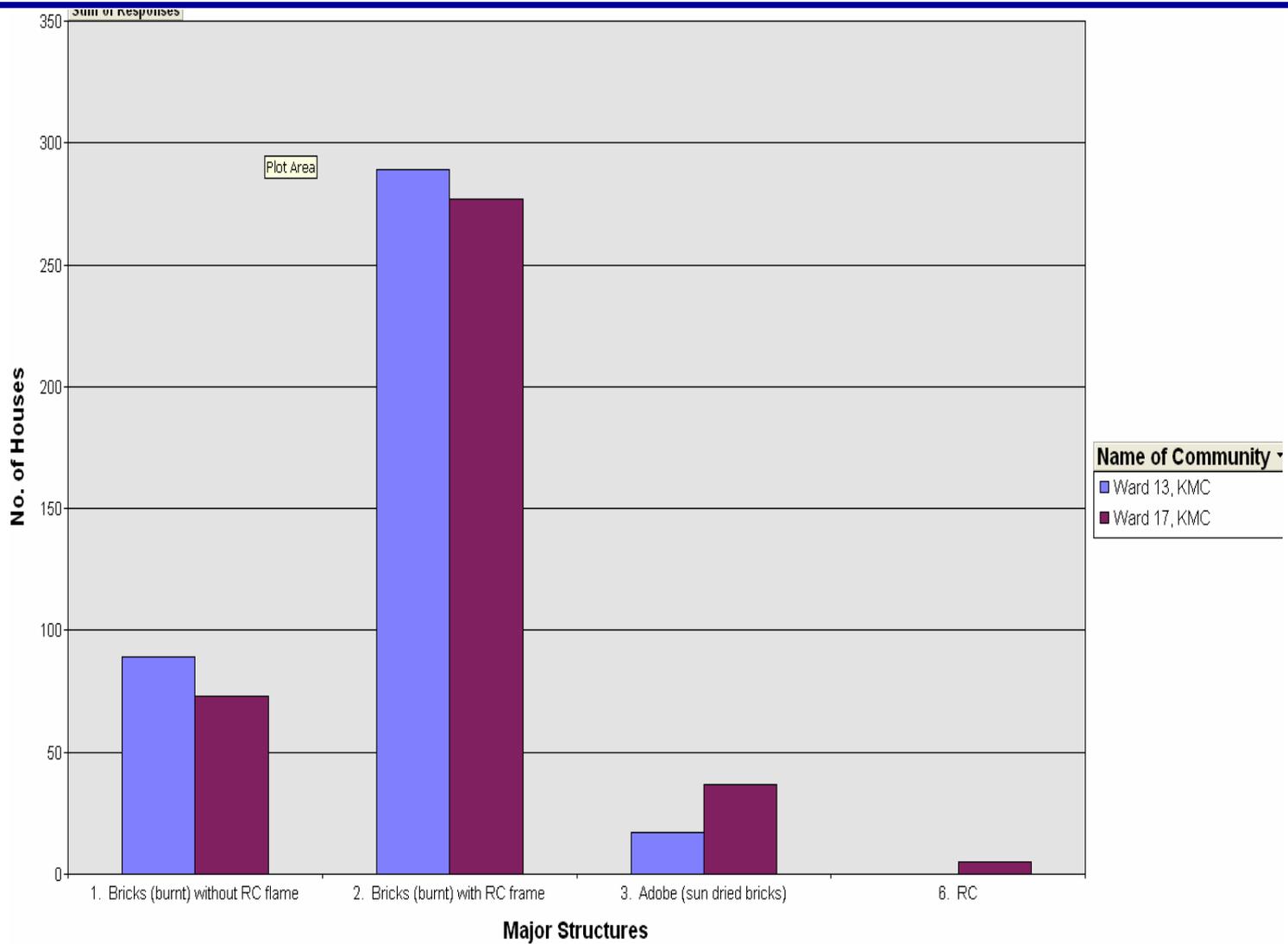
Main attributes / features of surveyed communities



Age group of respondents

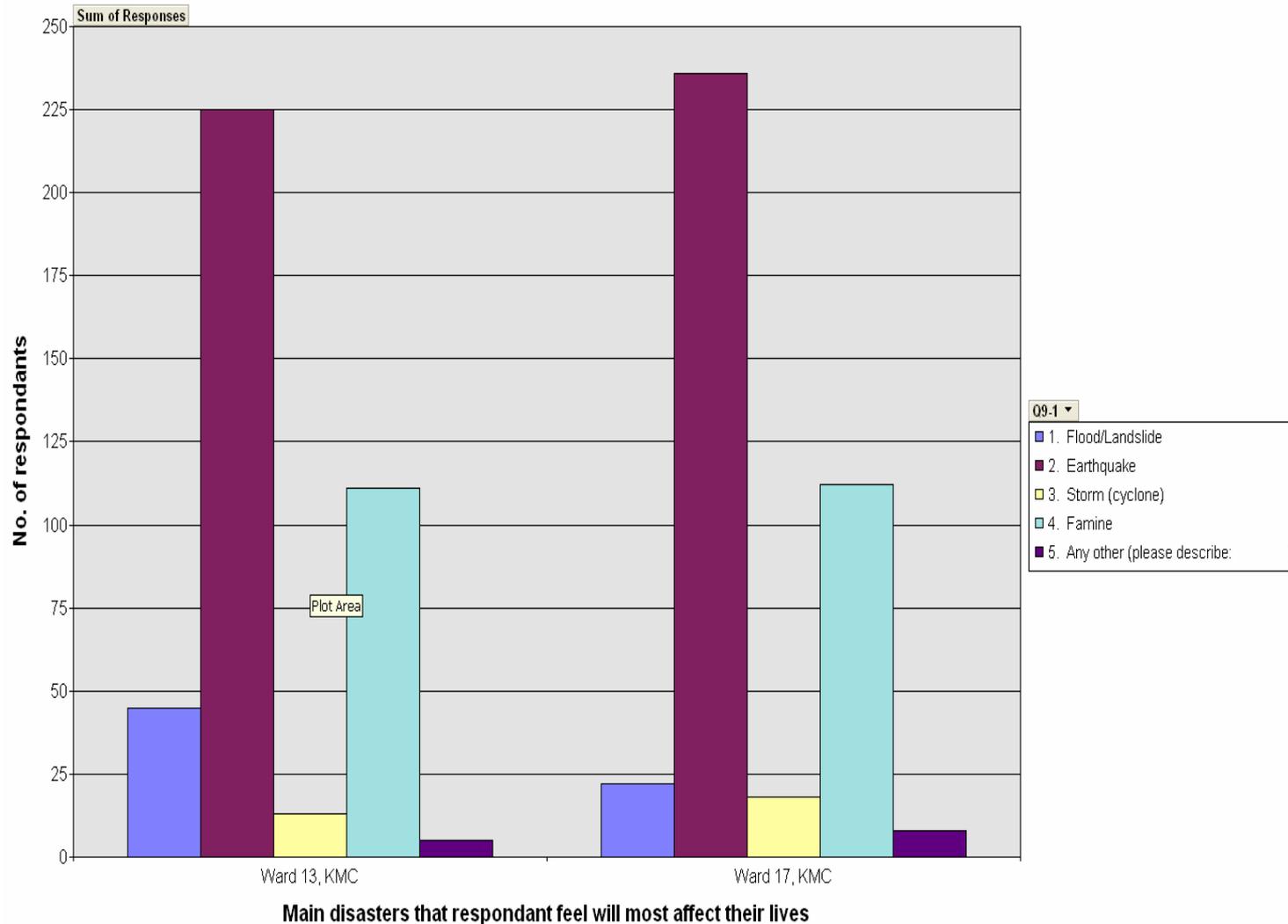


Ownership of houses



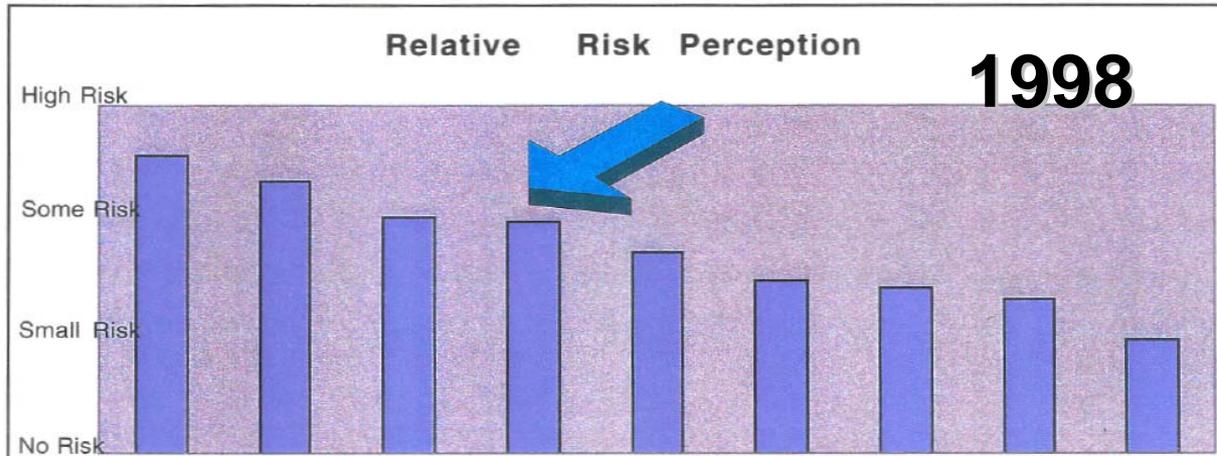
Main building types in the communities

Analysis Results

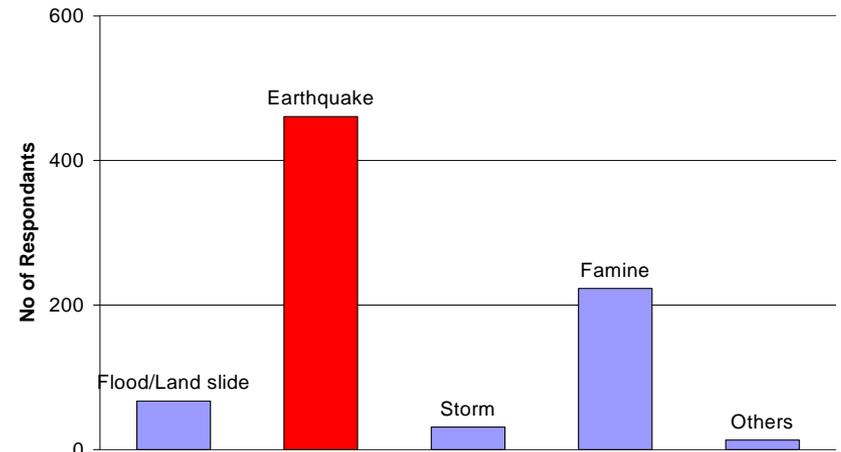


Many of the respondents feel that the earthquake disaster will most severely affect their lives if that would happen

Comparison



2007

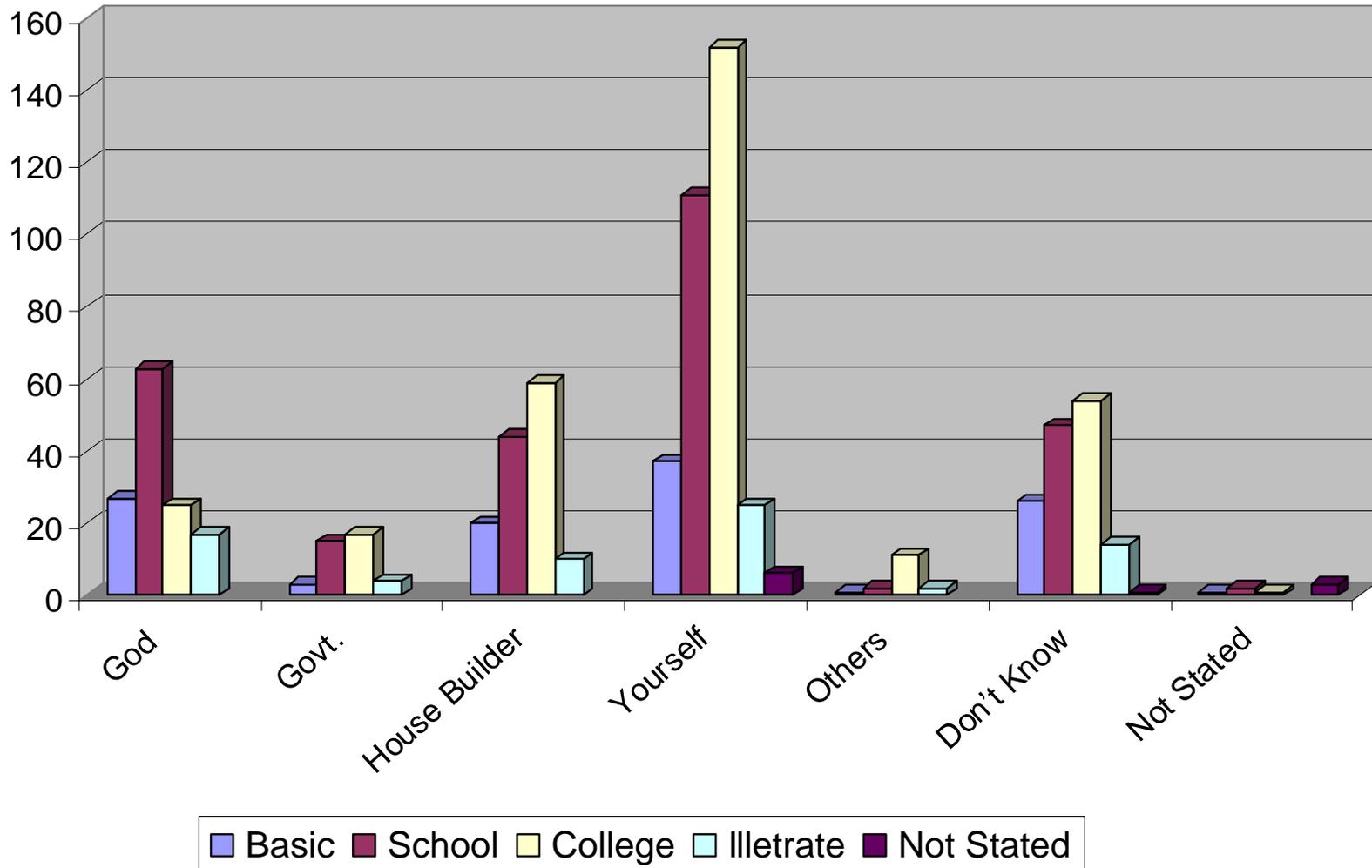


Positive Changes

- Earthquake Risk started being taken as the highest ($450/800 = 56\%$)



If your house collapses and kills some of your family due to a big earthquake whom would you blame?

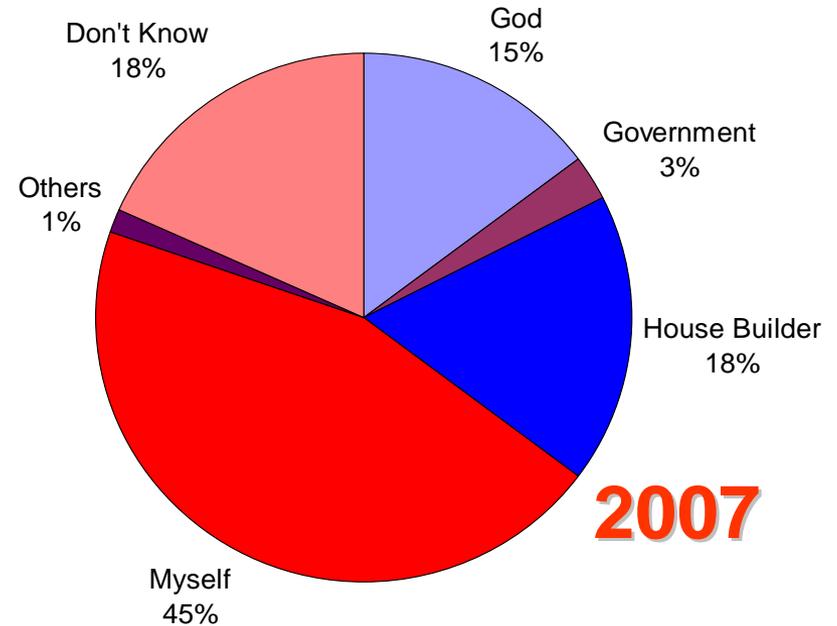
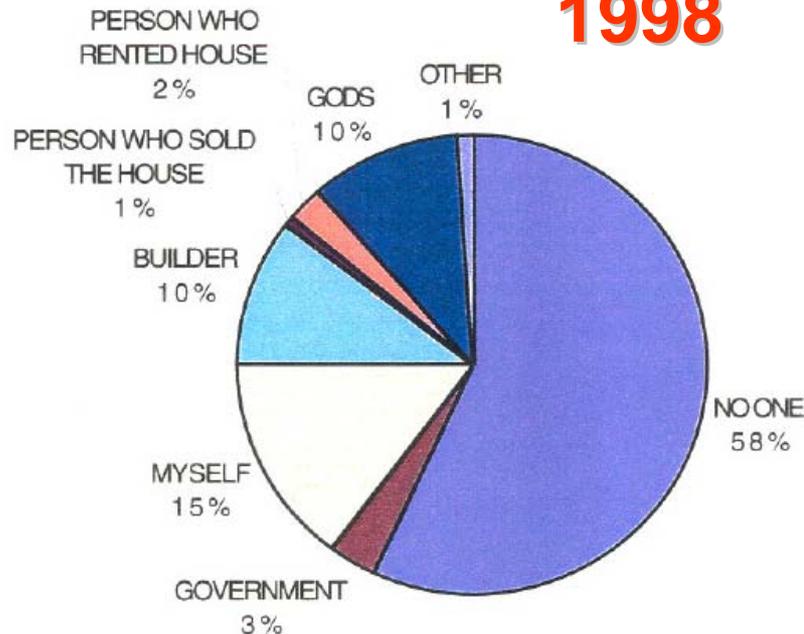


Change in mind set

Positive Change in mind-set

- Marked enhancement in Earthquake Awareness
- I am responsible, I have to do it.

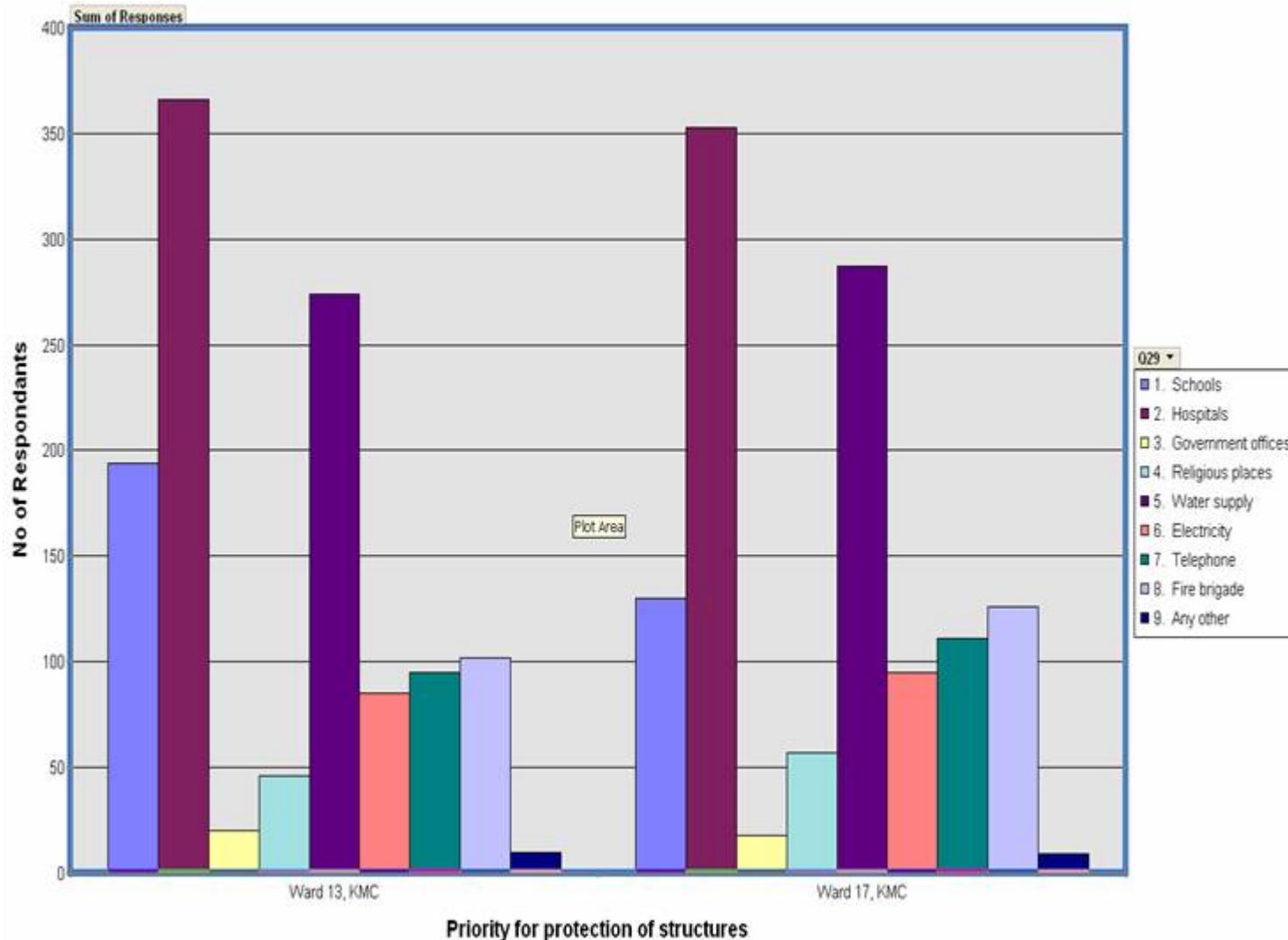
1998



2007

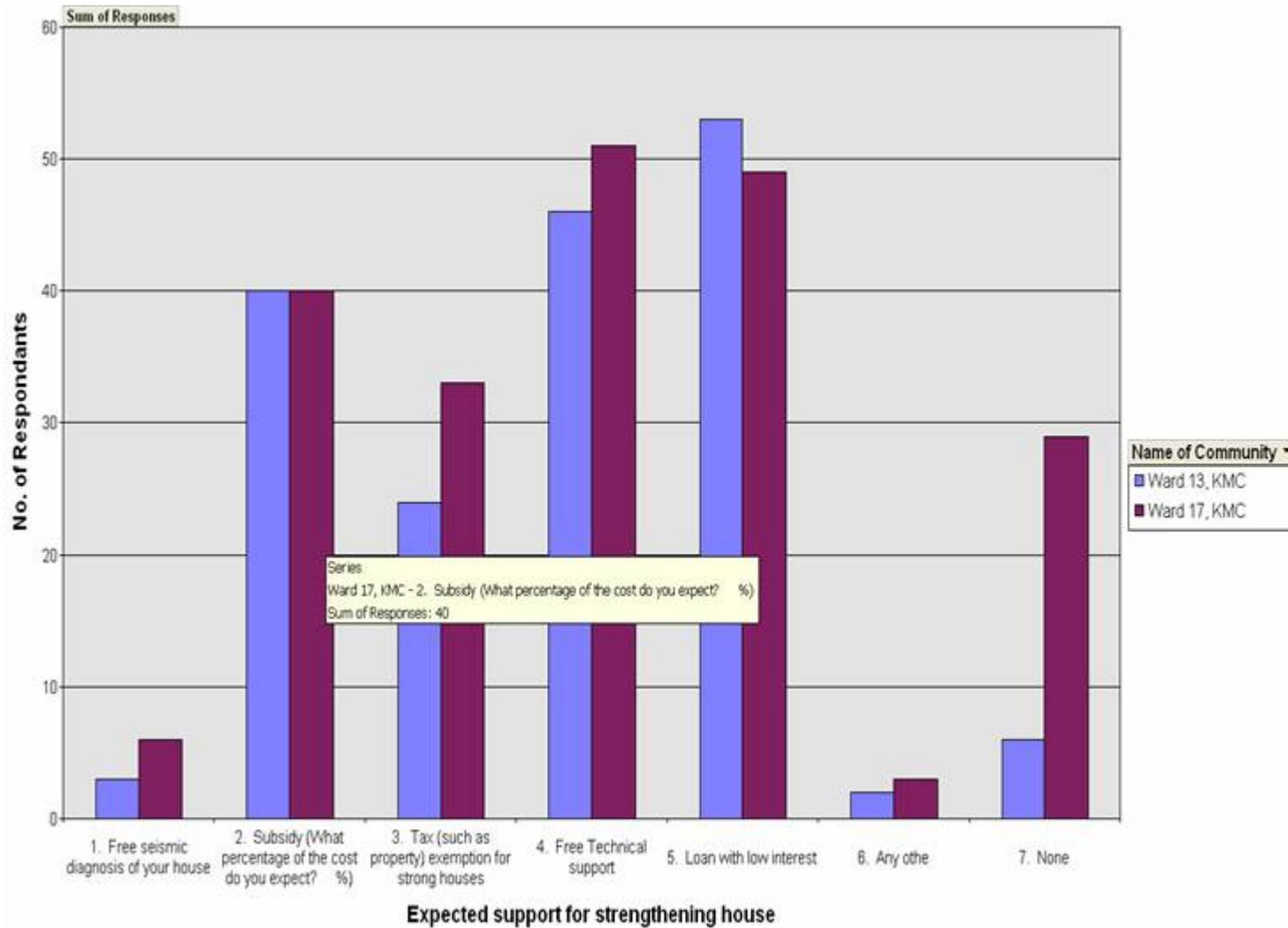
If your house would collapse and kill some of your family due to big earthquake, whom do you blame?

Priority for Protection



Most of the people from both the communities think hospital should be given priority for protection and then water supply system

Strengthening house



Majority of respondents focused on free technical assistance and loan with lower interest rate as the most appropriate support



Indications of the survey

- **The risk perception survey indicated on what should be focused on for proper dissemination strategy**
 - **Marked difference on perception of risk then and now**
 - **Contributing factors**
 - **high emphasis on awareness raising**
 - **Equal emphasis on training and capacity building**



Ongoing effort

- **Study on risk perception of**
 - **Municipal officials**
 - **High level government officials**
- **Surveys have already been conducted**
 - **During the workshop of Housing Earthquake Safety Initiative: 2 – 3 August 2007**
 - **Survey data being analyzed**
- **The analysis will be presented in Session 3**

Thank You !!!