

# **A**wareness **A**daptation                      to Climate Change **A**spiration



*Adaptation WG:*

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ĐẠI HỌC  
**KIẾN TRÚC**  
THÀNH PHỐ HỒ CHÍ MINH

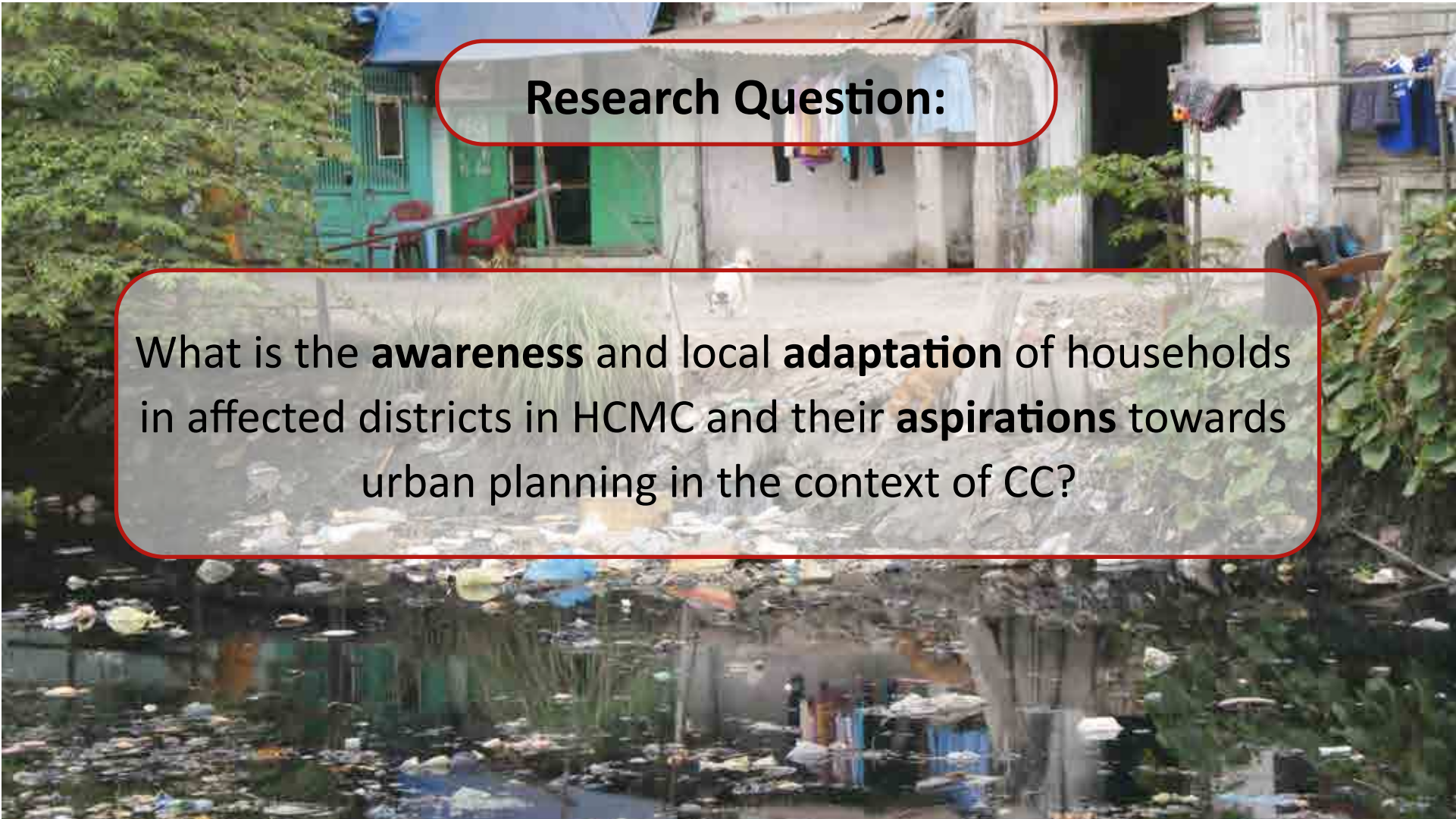


Universität Hamburg  
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Vietnamese-German Seminar „Climate Change and Sustainable Urban Development“  
Urban Planning Faculty of HCMC University of Architecture, 3-5 March 2017, Ho Chi Minh City, Viet Nam



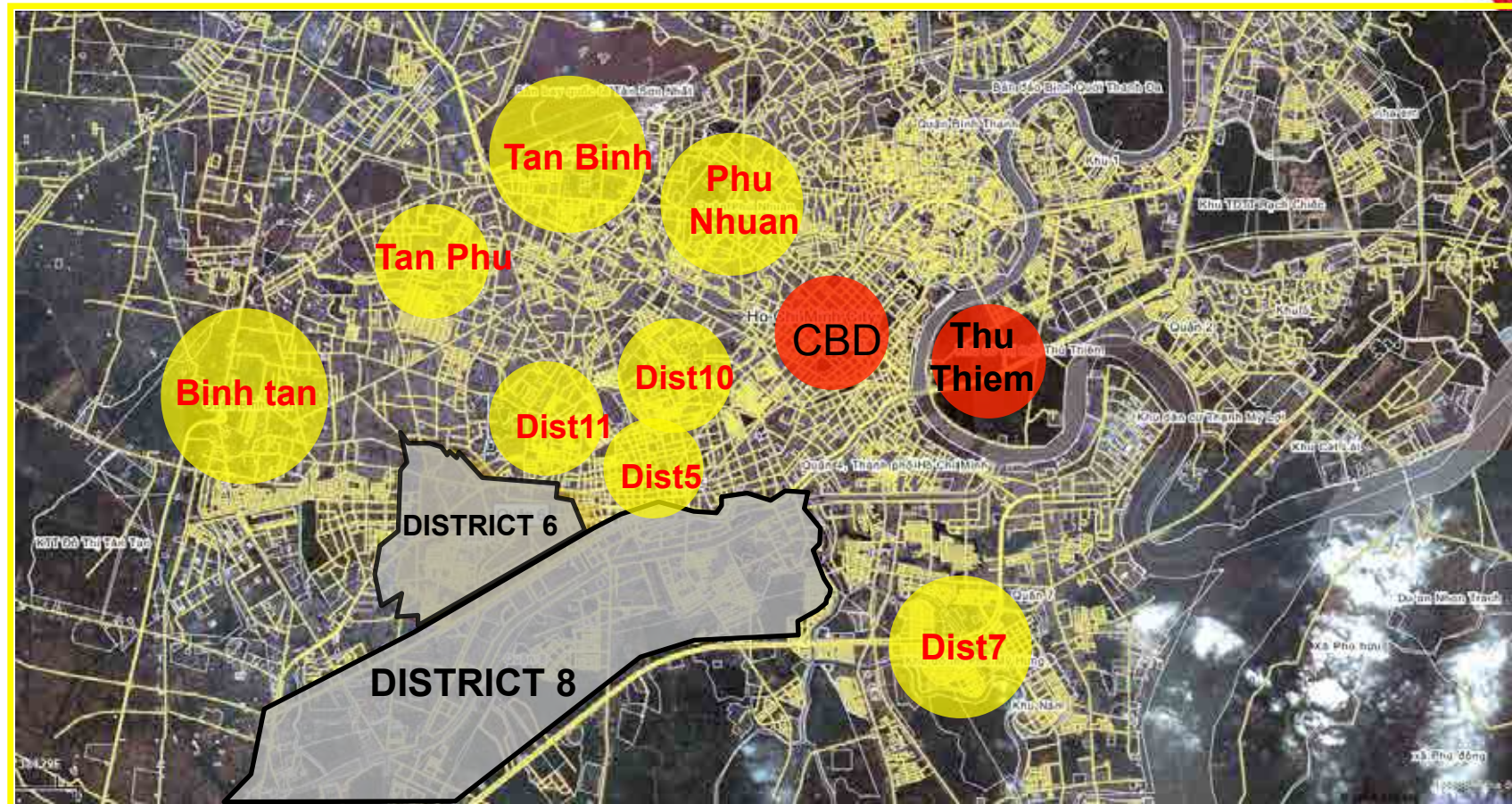


**Research Question:**

What is the **awareness** and local **adaptation** of households in affected districts in HCMC and their **aspirations** towards urban planning in the context of CC?



## Research Area



## Hypotheses:

### Awareness

1. People's awareness of CC depends on their educational level
2. People who are affected by extreme weather events (e.g. floods) are more aware of CC impacts
3. People move into endangered areas regardless of their knowledge about extreme weather events

### Adaptation

4. Adaptation to extreme weather events (floods) has always taken place apart from CC

### Aspirations

5. People move to endangered areas because they think governmental adaptation measures are sufficient



## Awareness

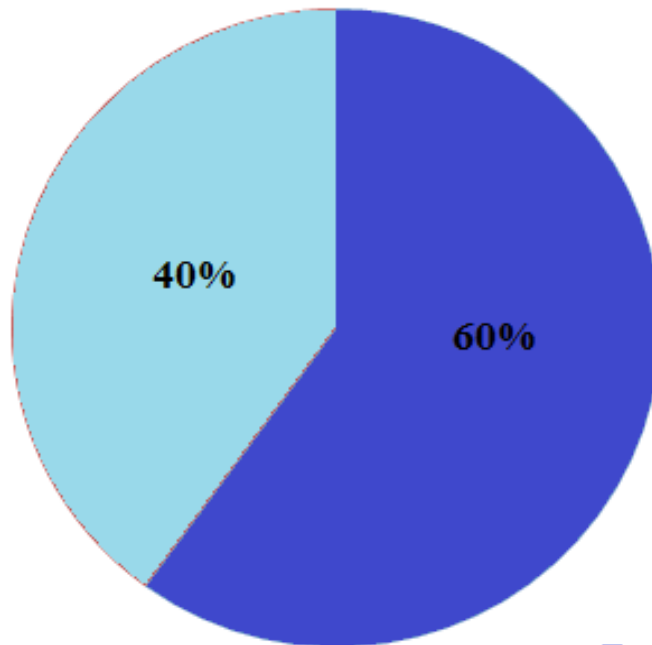
*Hypothesis#2: People who are affected by extreme weather events (e.g. floods) are more aware of CC impacts*



### Affected People

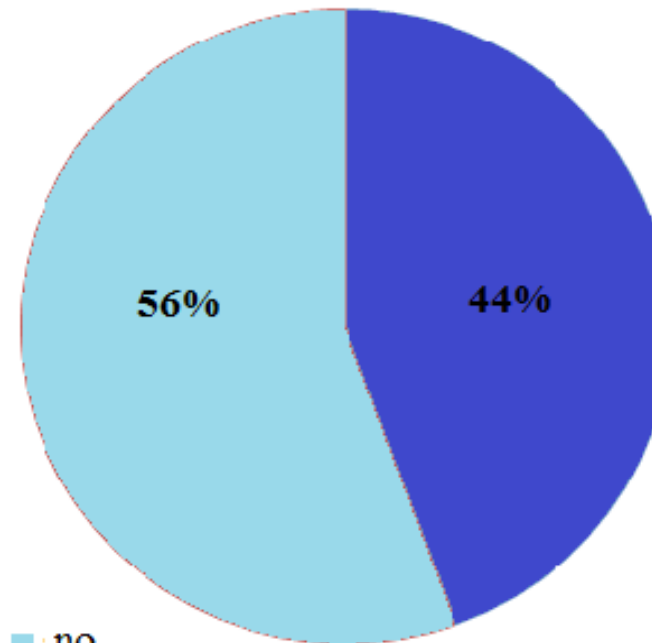
### Non-Affected People

Have you heard of Climate Change?



n = 35

■ yes ■ no



n = 11



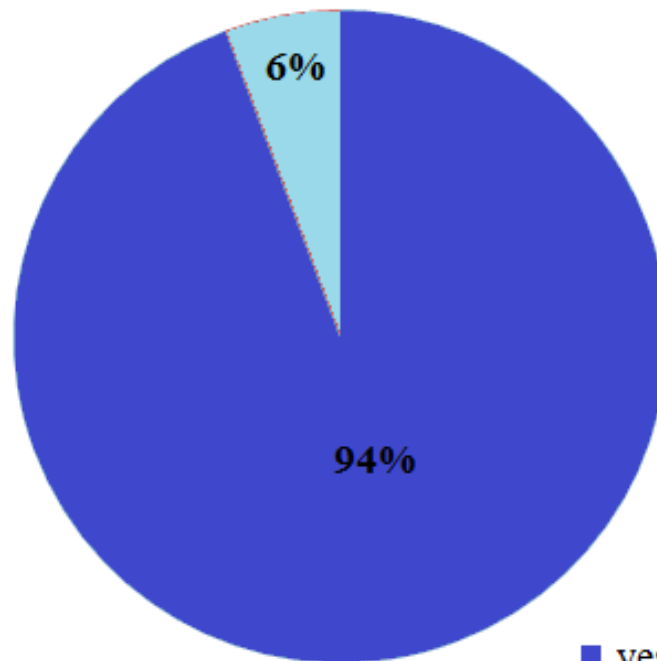
## Awareness

*Hypothesis#2: People who are affected by extreme weather events (e.g. floods) are more aware of CC impacts*



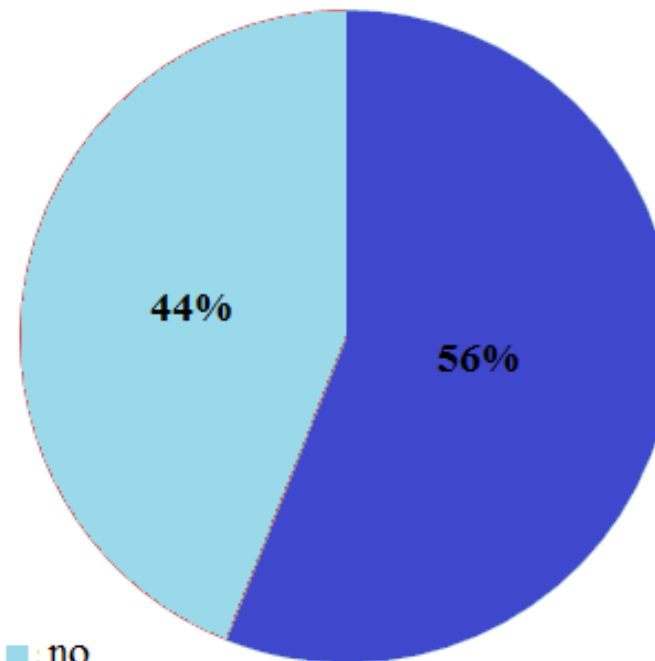
### Affected People

Have you noticed any changes of frequency/intensity of extreme weather events?



n = 35

### Non-Affected People



n = 11

## Awareness

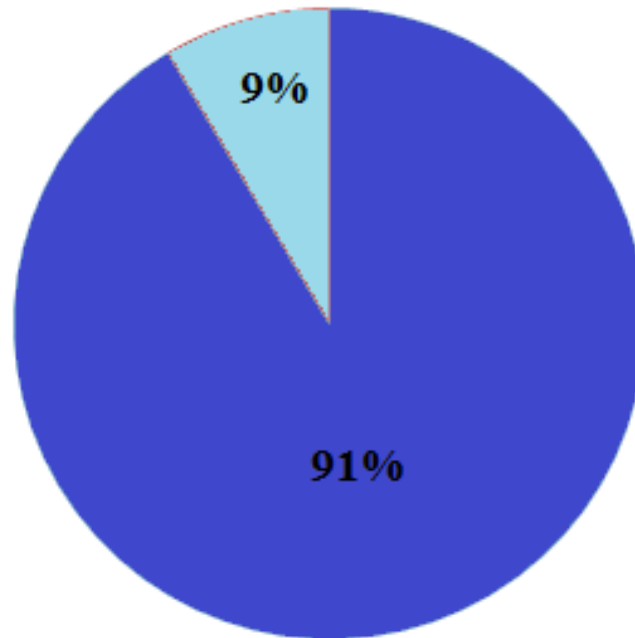
*Hypothesis#2: People who are affected by extreme weather events (e.g. floods) are more aware of CC impacts*



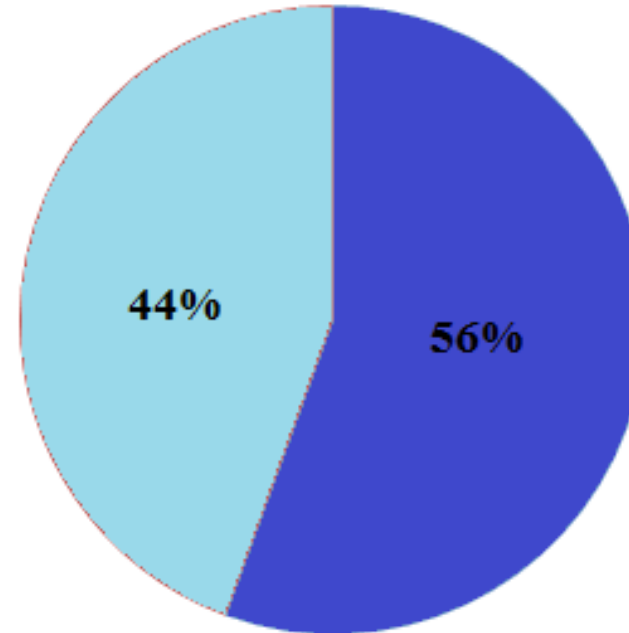
### Affected People

### Non-Affected People

Situation of extreme weather events will become...



n = 35



n = 11

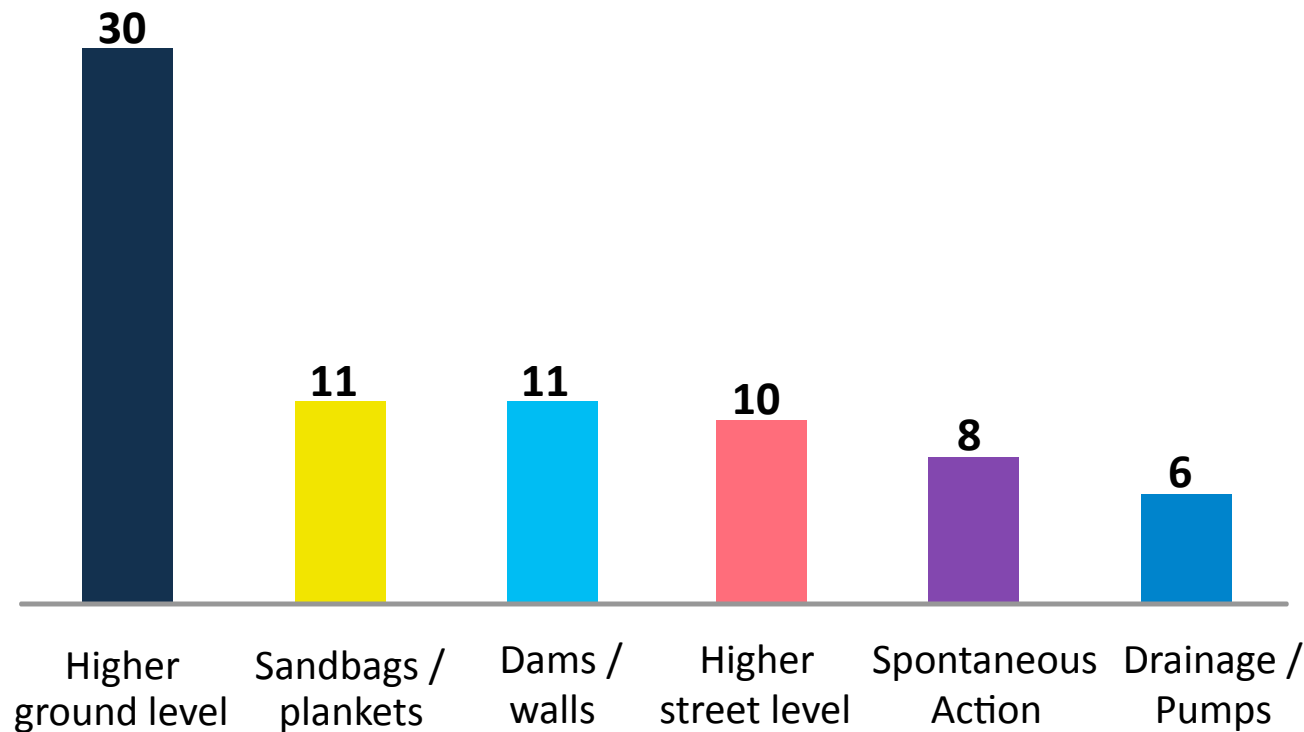
■ worse   ■ same/better



## Adaptation

*Hypothesis#4: Adaptation to extreme weather events (floods) has always taken place apart from CC*

### Individual Adaptation Measures in Regard to Flooding Applied



n = 46, multiple answers







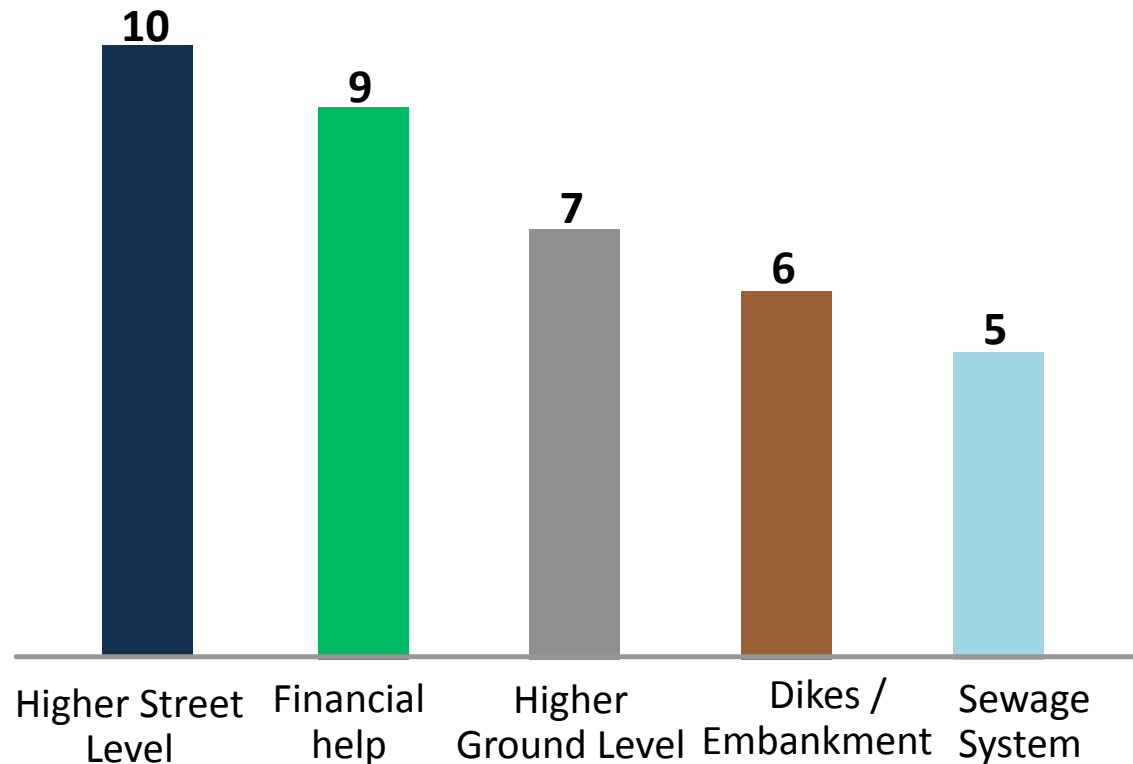




## Aspiration

*Hypothesis#5: People move to endangered areas because they think governmental adaptation measures are sufficient*

### Aspirations towards governmental measures



n = 13, multiple answers



## Problems and Limitations of Field Work

- General Lack of information and time
  - Misleading questions
  - Difficulties with direct questions about income and educational level
- Lack of representative value
- Cross-Cultural Experience very time-consuming but also very enriching
- Interview with several persons at the same time



## Recommendation and Conclusion I

### Awareness

The people surveyed don't have a good awareness about CC, in general.

→ *The government needs to provide CC information for everyone and should educate about a sustainable environment*



### Adaptation

They are just short-term methods

→ *Improve the sewage system, clean polluted creeks and rivers*

→ *Higher ground level and households level together*

### Aspiration

The government has to concern more about people's expectation

→ *Helping poor people by making some new policies*

## Conclusion II

*Research Question: What is the awareness and local adaptation of HHs in affected districts in HCMC and their aspirations towards urban planning in the context of CC?*



- Awareness of floods is high, but towards CC insufficient
- Local individual adaptation is common, but more governmental support is requested
- Antagonism between aspirations and fear towards external measures
- No significant correlation between extreme weather events (floods) and Climate Change
- Possible other reasons for flooding: Urbanization of former flood plains, missing retention areas, clearing of mangrove forests, inadequate sewage system and lack of technical infrastructure



**Thanks for your attention!**

**Cam on su theo doi cua cac ban!**

