PERSPECTIVES ON RESILIENCE: A FIELD STUDY OF HOUSING RECOVERY IN CHILE AFTER THE 2010 EVENT

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AGENDA

● Data Collection Methods
● Overview of Housing Solutions
  o Santa Cruz
  o Lolol
  o Constitución
● Conclusions
DATA COLLECTION METHODS

- Total of 15 interviews with residents
- Interview format:
  - Short and direct
  - Conversational instead of script
  - Focused on obtaining the same information
- 6 questions of focus
DATA COLLECTION METHODS

● Typical interview questions:
  ○ Where were you living when the earthquake occurred and how was your home affected?
  ○ What recovery options were you offered or were you aware of?
  ○ What are some of the differences between your home before and after the earthquake?
DATA COLLECTION METHODS

● Typical interview questions:
  ○ What are your recommendations for improving the process of reconstruction in the future?
  ○ How has your community changed since before the earthquake?
  ○ What can you tell us about the process of reconstruction after the earthquake?
DATA COLLECTION METHODS

● Smartphone App
  ○ Evernote
SANTA CRUZ

● Original Social Housing Complex
  ○ 20 blocks of apartments
  ○ First floor collapse in 1 building
    • 2 deaths
  ○ Significant damage
    • Demolish
    • Rebuild a community
SANTA CRUZ

● New Social Housing
  ○ 8 blocks, 4-stories
  ○ Base isolated
  ○ Doubled size of units

● Community
  ○ Park, field, memorial
  ○ Slow rebuilt
  ○ Relocation
LOLOL

- National Heritage Area
- Damage
  - Adobe homes
  - Collapse
  - Poor construction
- Rebuild/retrofit of homes
  - Government sponsored
  - Timber frame support
LOLOL
CONSTITUCIÓN

- Significant structural damage
  - Proximity to epicenter
  - Tsunami damage
    - West bank of Maule River
- New social housing – Villa Verde
  - Hills of west of Constitución
  - Above inundation zone
- Community rebuild and response
  - Location and transportation
  - Families from other areas relocated
CONSTITUCIÓN
CONCLUSIONS

● National vs Local Government Involvement
● Seismic Philosophy vs Public Expectation
● View Point From Developers
  ○ Prefer damage vs better building performance
● View Point From Residents
  ○ Recovery speed
  ○ Physical vs community rebuilding
  ○ Location and amenities
THANK YOU
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● Any questions?