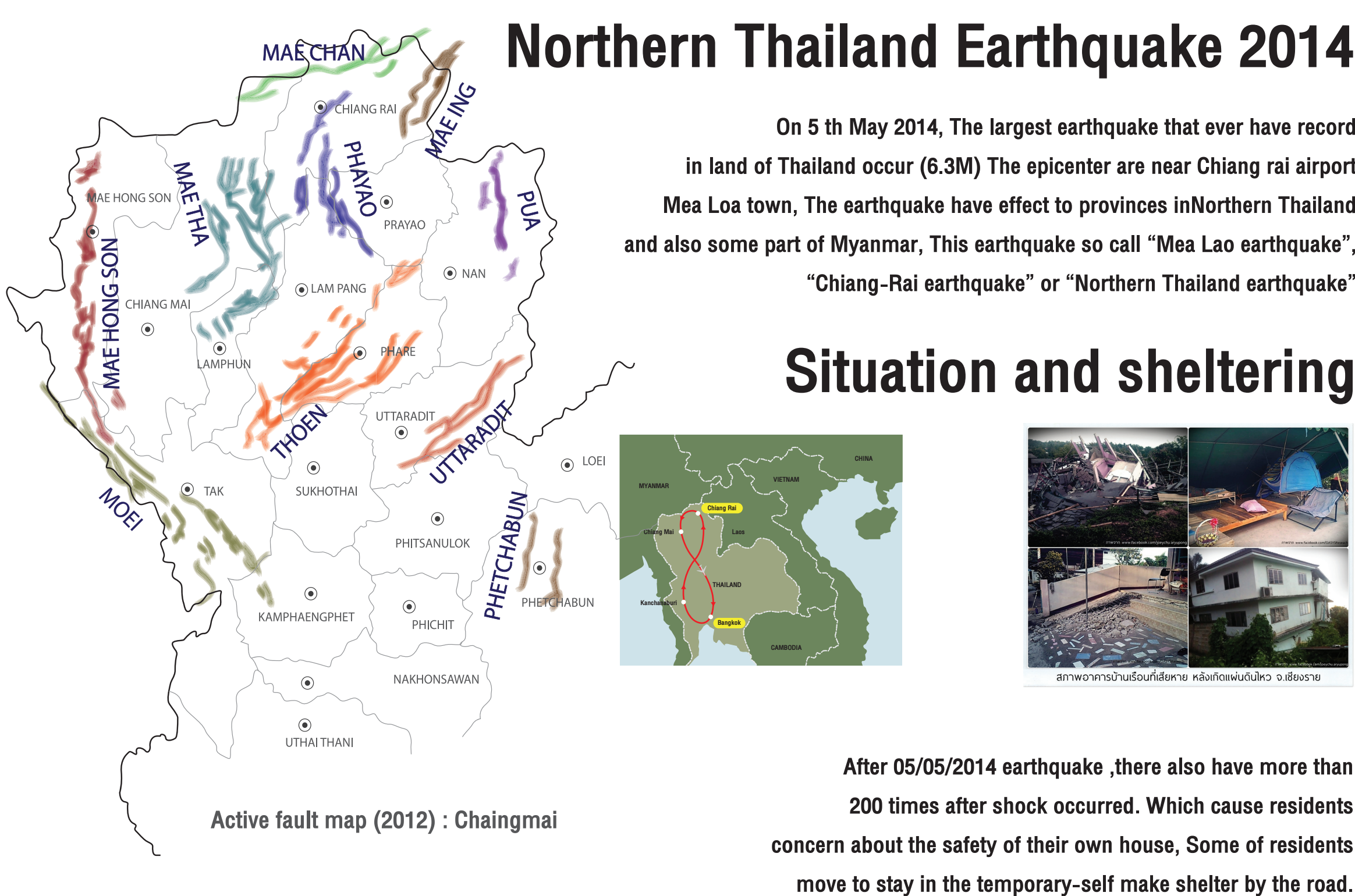
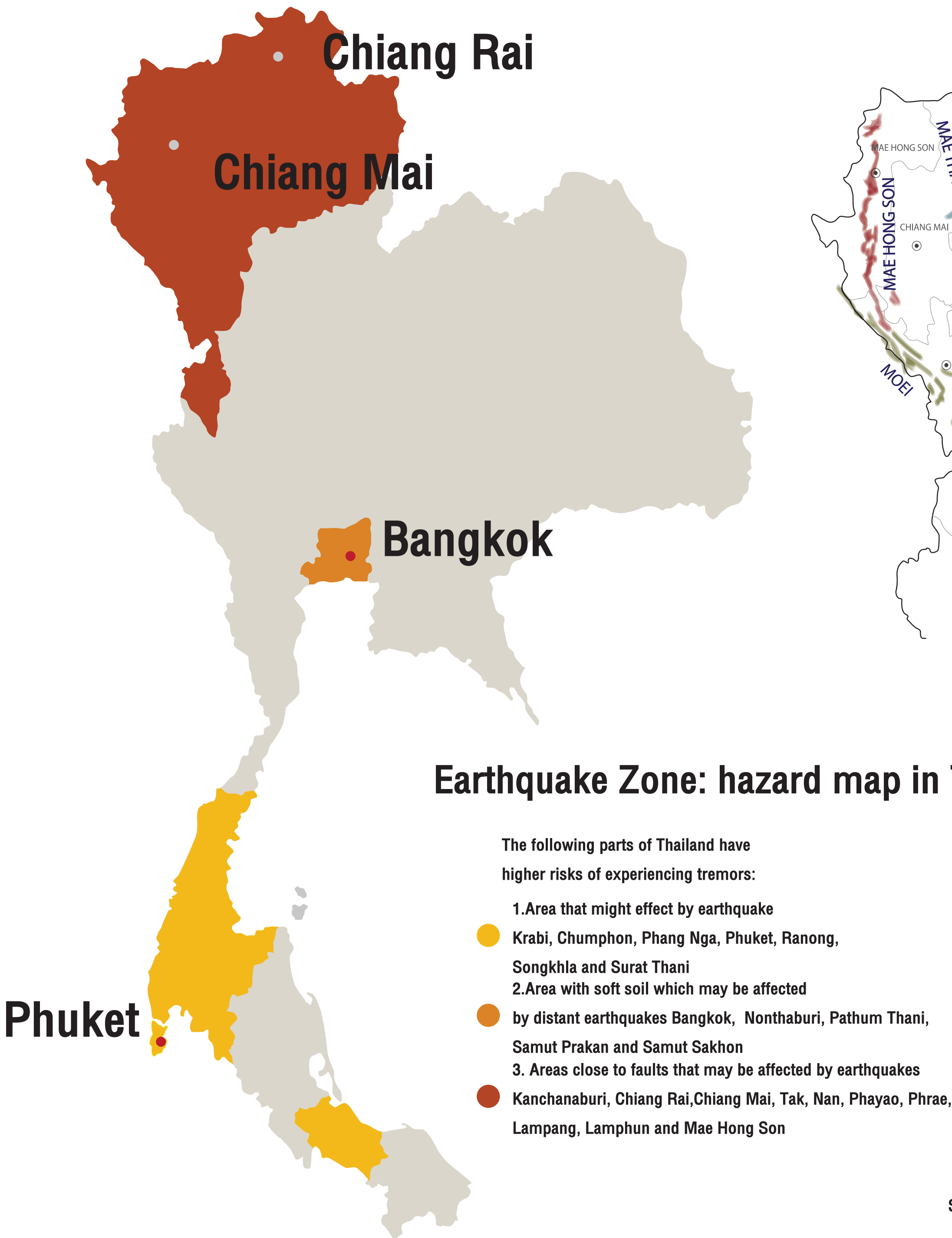
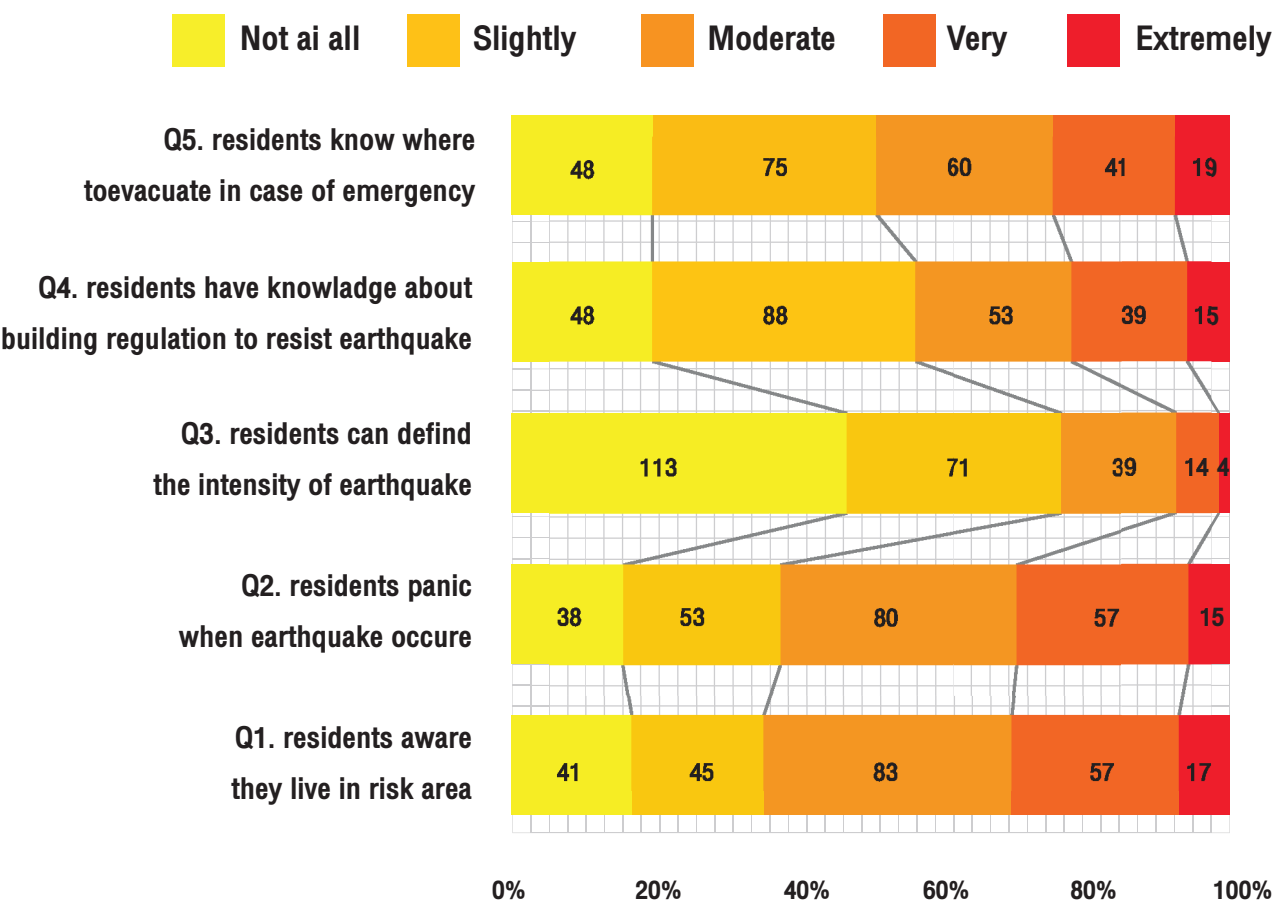


In-house Core Shelter

Northern Thailand Earthquakes in 2014

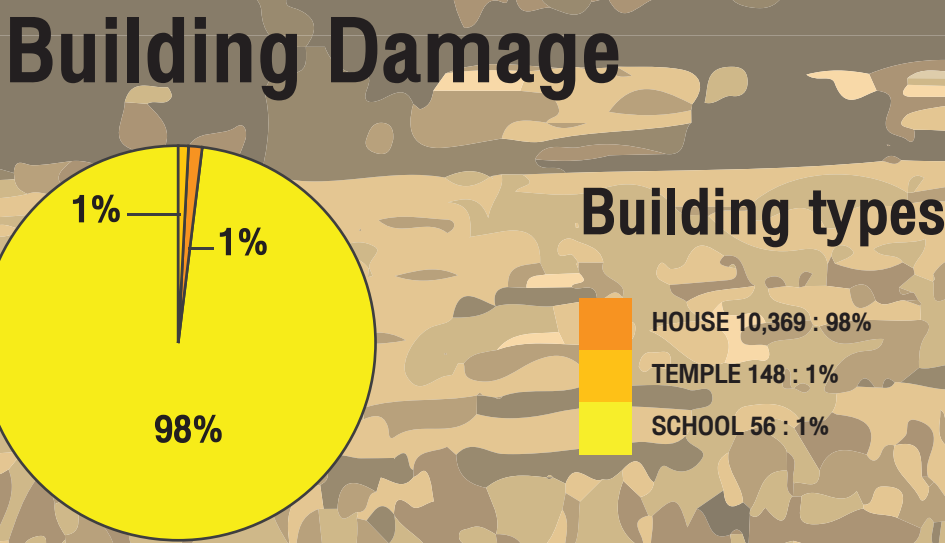
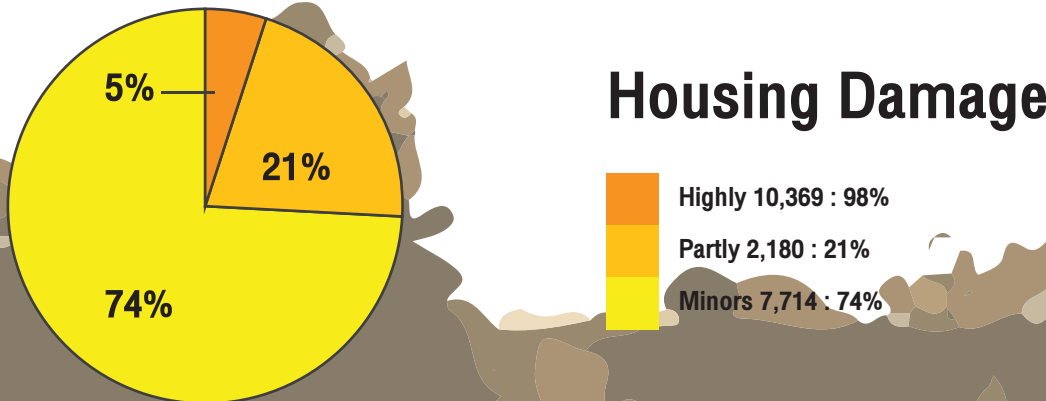


Risk’s perception of residents in North



Survey from 243 participants, Residents aware they live in risk area but hardly defined rather this was big earthquake or small, also they have lack knowledge in the building regulation for earthquake safety. This can make them confused about which actions they should and shouldn't do in evacuation out of building.

Housing Damage after Northern Thailand Earthquake 2014



Site Survey

Support By Thailand Research Funding(TRF)
Team’s members :Team Code: B4H-DC2133



Faculty of Architecture Chiang Mai University

| Houses survey 100 houses and risk level of each house types | | | | | | |
|---|---------|---|----|----|----|-------|
| House types | Picture | H | M | L | N | total |
| Traditional wooden house Or Pillar house | | X | 20 | X | 6 | 26 |
| Wooden house with partly brick wall | | 8 | 10 | X | 7 | 25 |
| Wooden house with concrete wall at first floor | | X | 13 | X | X | 13 |
| Steel Pillar building | | X | X | X | 3 | 3 |
| Concrete 2 stories building | | X | X | 1 | 5 | 6 |
| Concrete One-stories house | | 1 | X | 21 | 5 | 27 |
| | | 9 | 43 | 22 | 27 | 101 |

In-house Core Shelter

Northern Thailand Earthquakes in 2014

Case study in Tahor community.



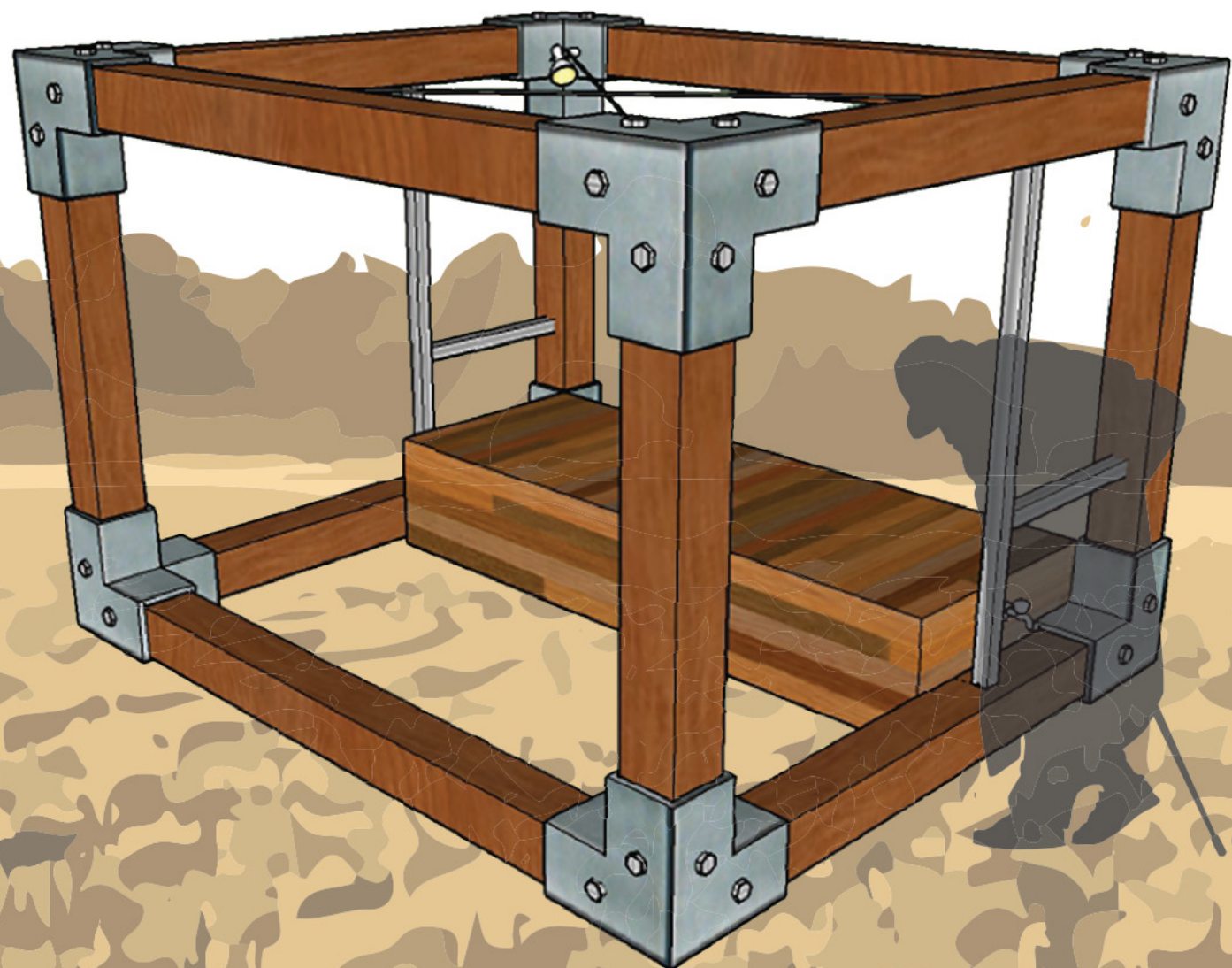
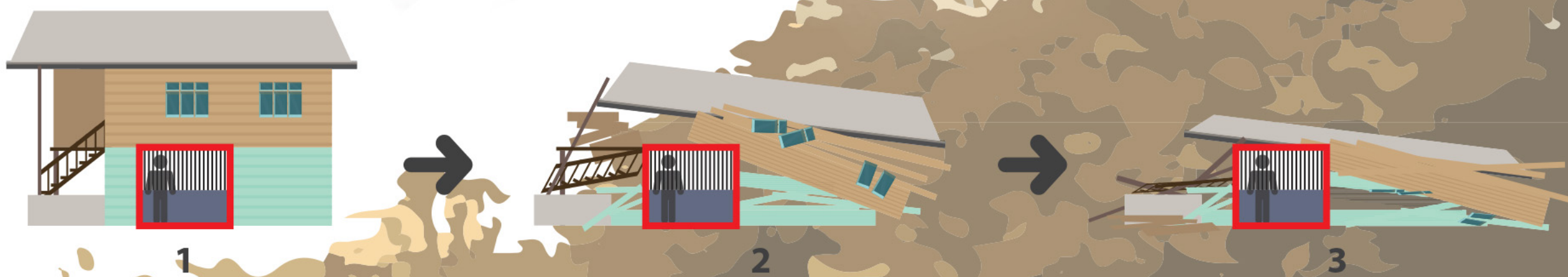
Tahor community is part of Saikao sub-district, Chiangrai province, this agriculture-community was also affected by 5 May 2014 earthquake and in risk for future quake, 473 households, 1,122 residents and 20.4% of residents are elderly people.

Diagram used the low floor area of local house to design the core protection for earthquake

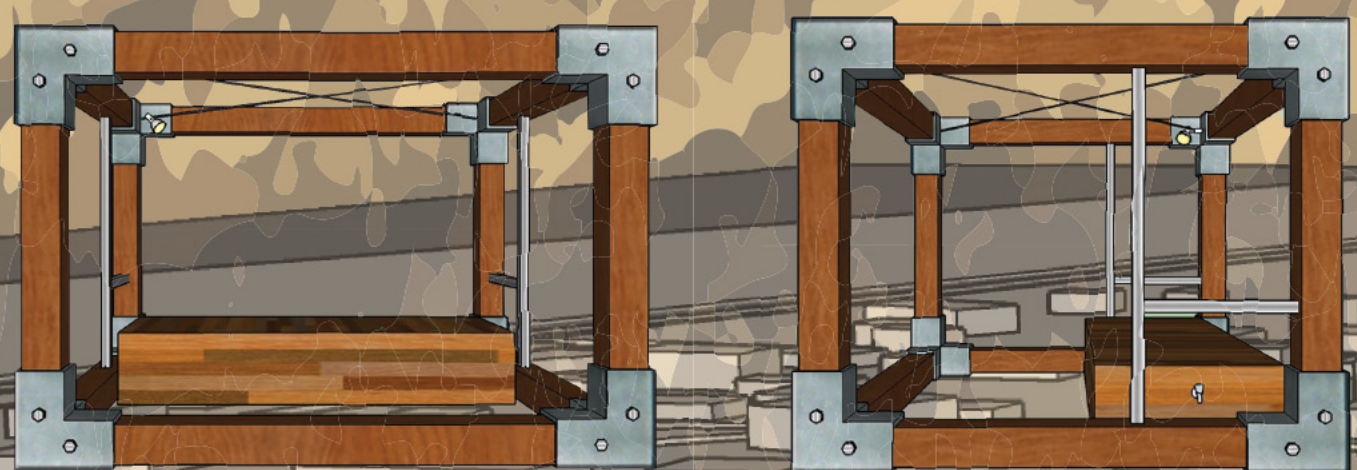
- 1) Use as living space that residents can relax and stay in everyday life
- 2) in house core shelter will be the shield while earthquake occur and
- 3) be the temporary shelter with basic supply such as water light and electric during recovery process for elderly who can not evacuated fast and also for the recovery time that may took long residents will live will more secure with the support and protection of this small in house core shelter



IN-HOUSE CORE SHELTER



- 2 Lighting and Electric batter for 1 week
- 1 long-chair or bed for Elderly residents to sleep on and easy to sit-down and stand-up
- Hand drill to hold on in case of After shock
- Drinking Water 20 L



FRONT

SIDE

