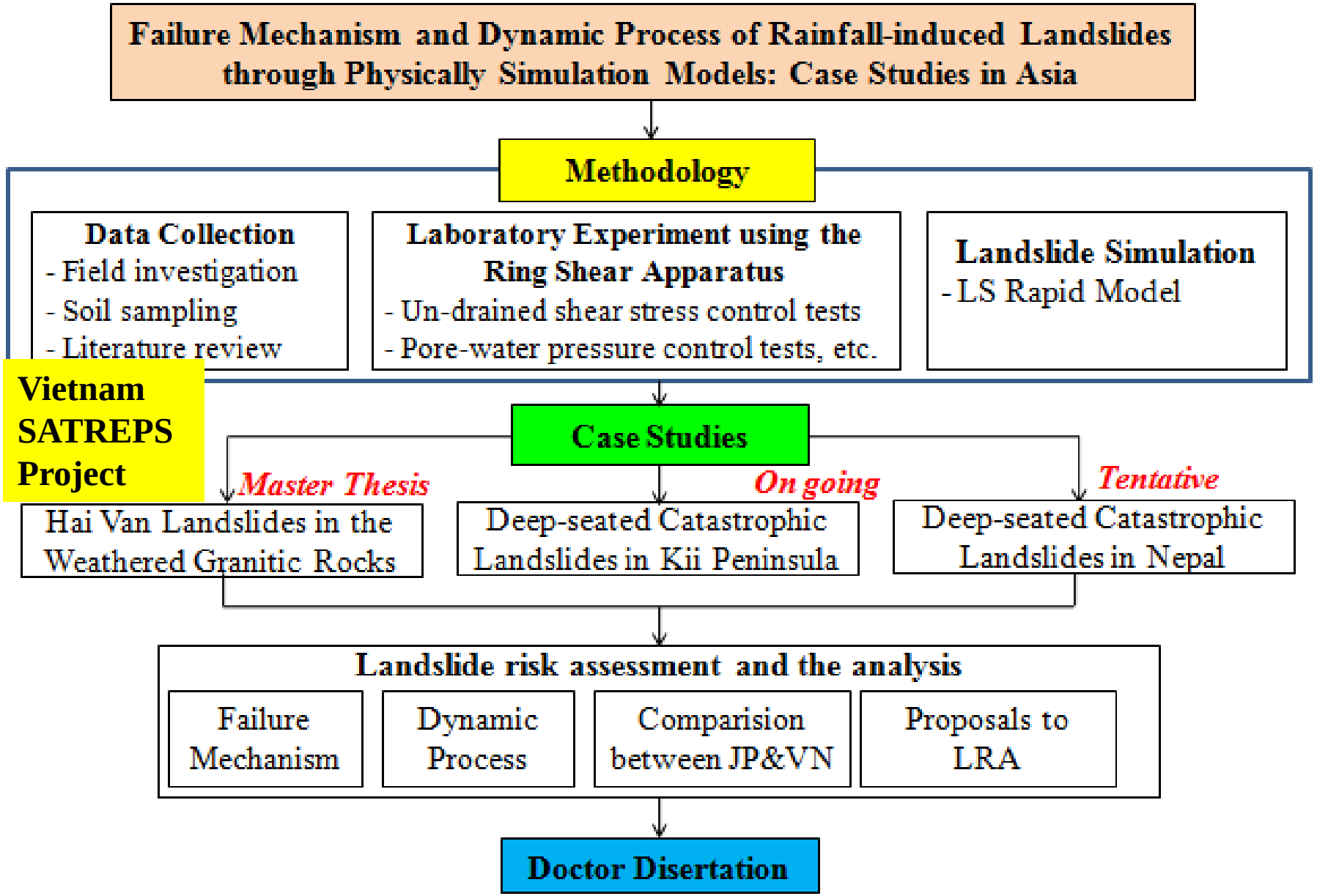
A PhD Research at Kyoto University

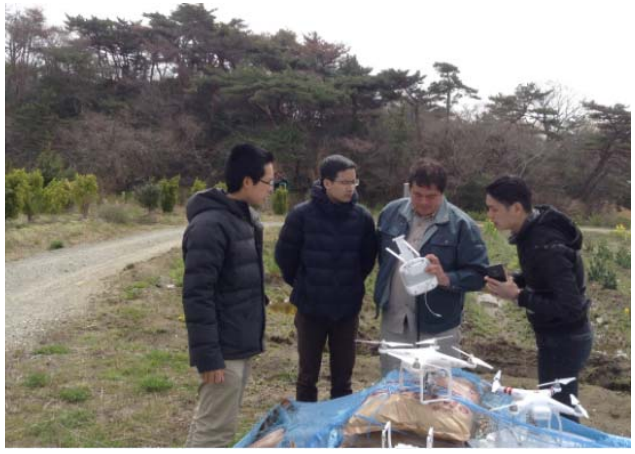


Research Framework on Landslides in PhD Program

Participating in research activities of the project

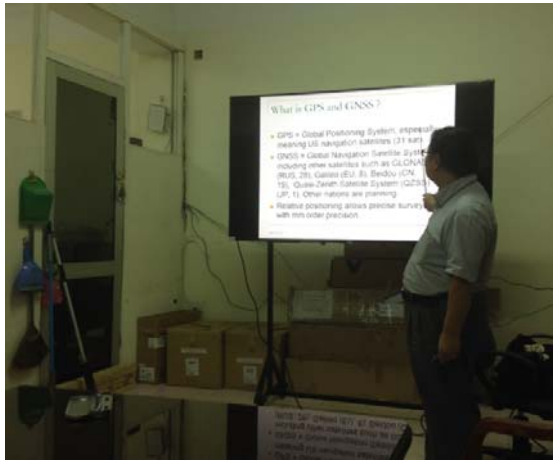
Site surveys on Hai Van Landslides

Aerial photo interpretation



UAV training

Landslide flume test



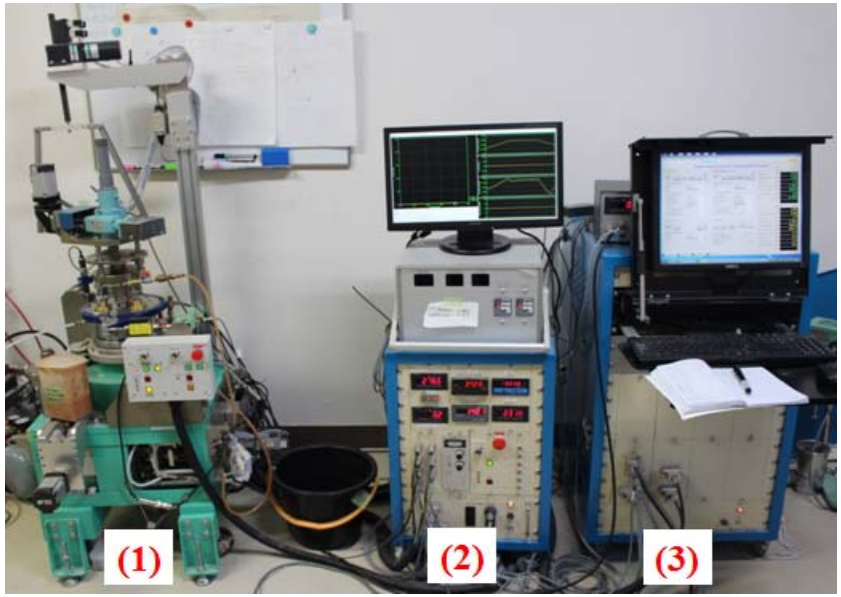
GNSS-usage training

Study on rainfall-induced landslides in Hai Van Mountain

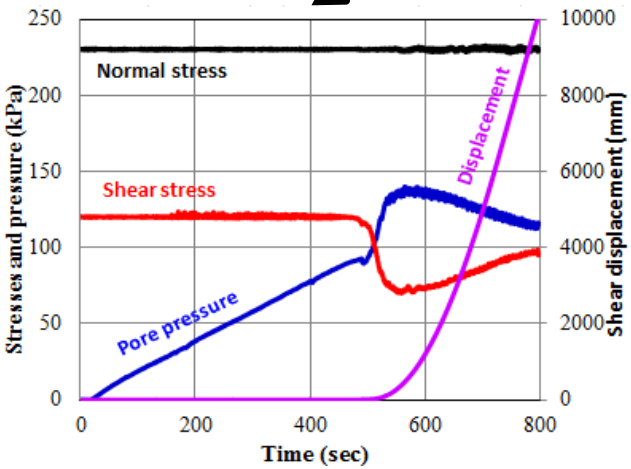
Soil sampling

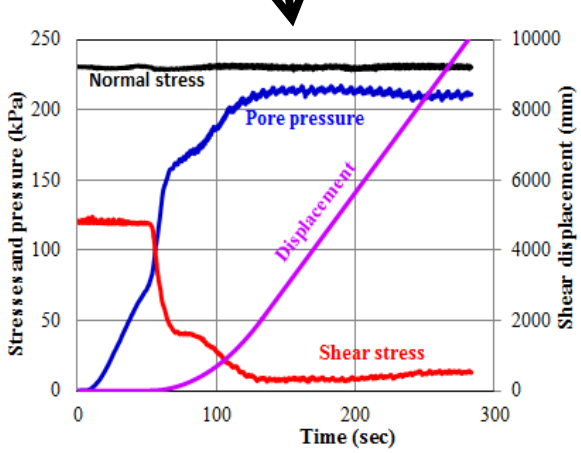
Weathered white granitic sand – Hai Van 2 (HV2)

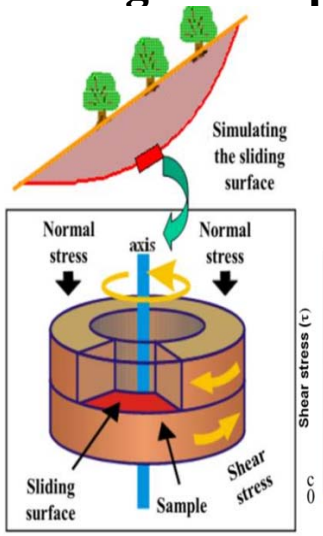
Weathered brown granitic soil sample – Hai Van 1 (HV1)

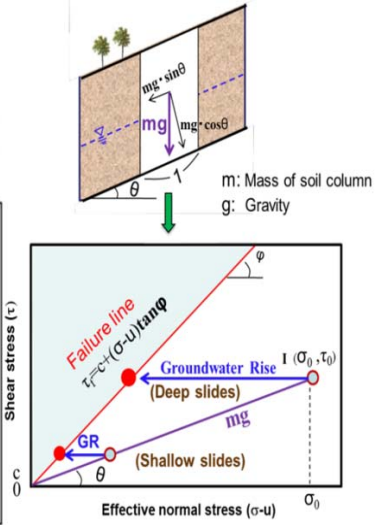


Landslide reproduction by ring shear apparatus



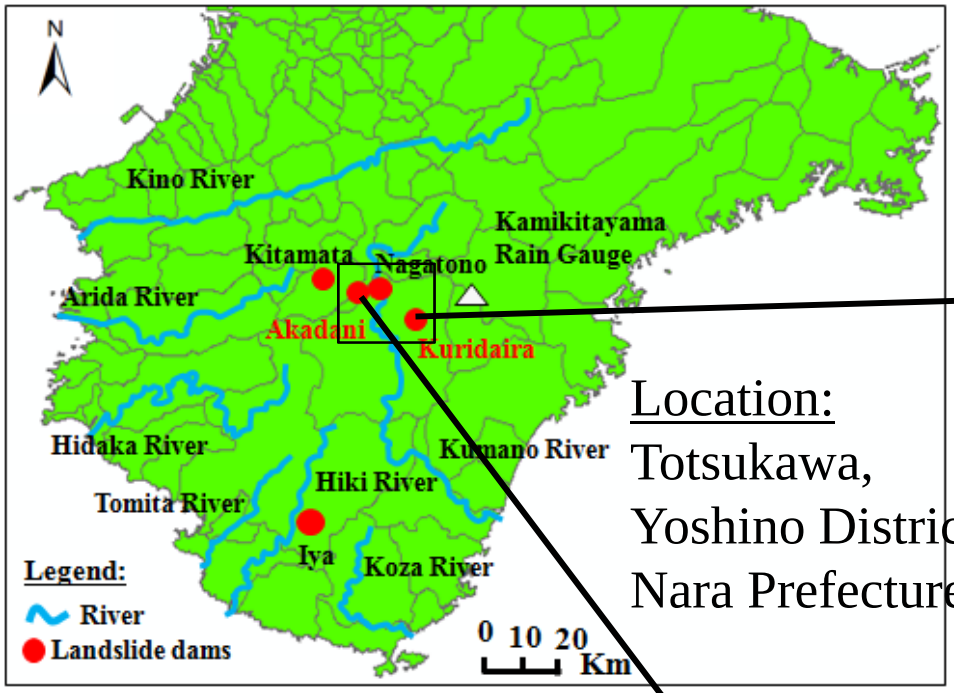




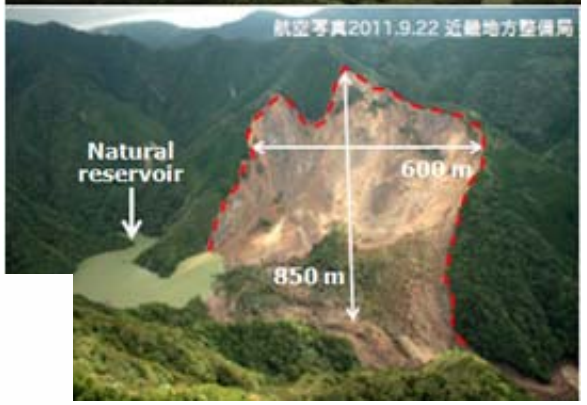


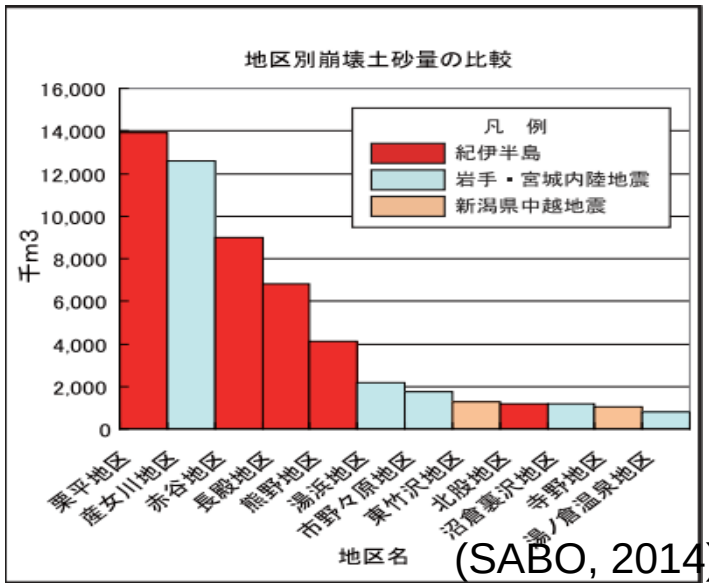
Test results

A study on Kii landslides



Location:
Totsukawa,
Yoshino District,
Nara Prefecture





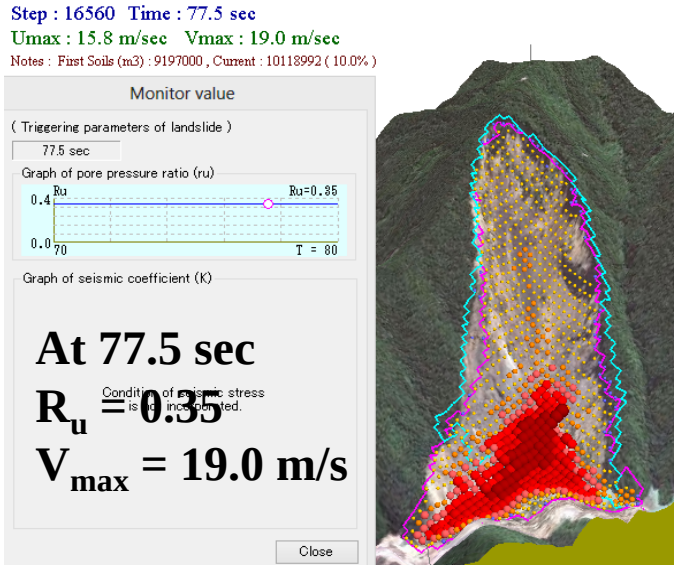
(SABO, 2014)

Photos courtesy of Akatani and Kuridaira landslide dams by Kii Mountaion District Sabo Office (SABO)

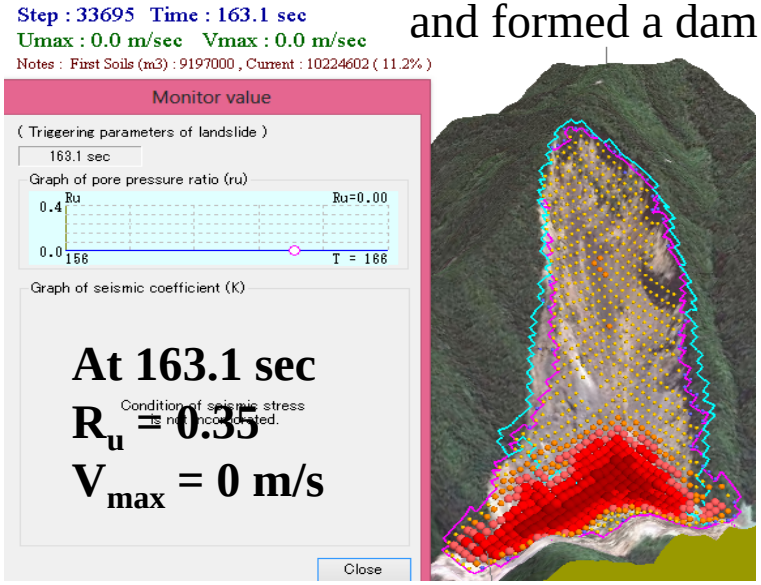
A study on Kii landslides

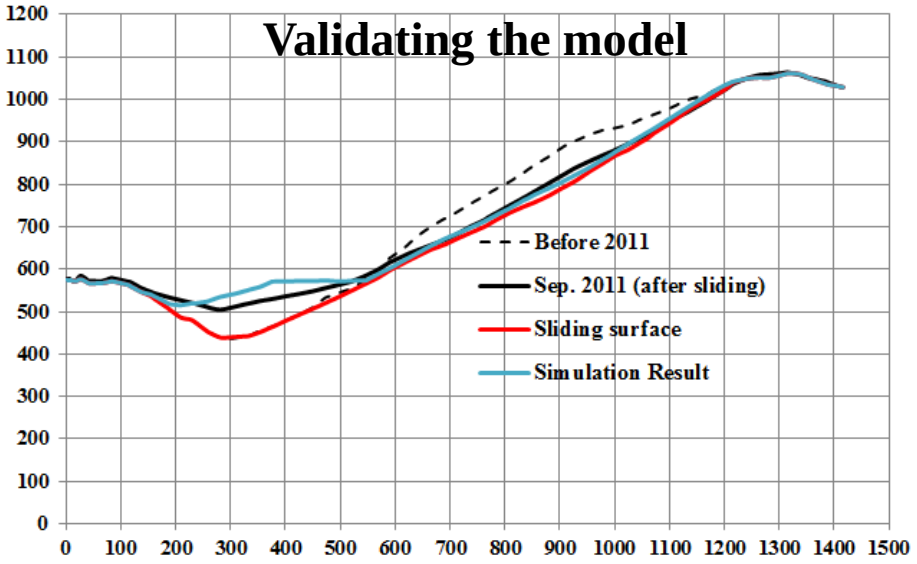
Computer Simulation Model of the Akatani landslide

Landslide movement decelarated



Mass movement stopped and formed a dam

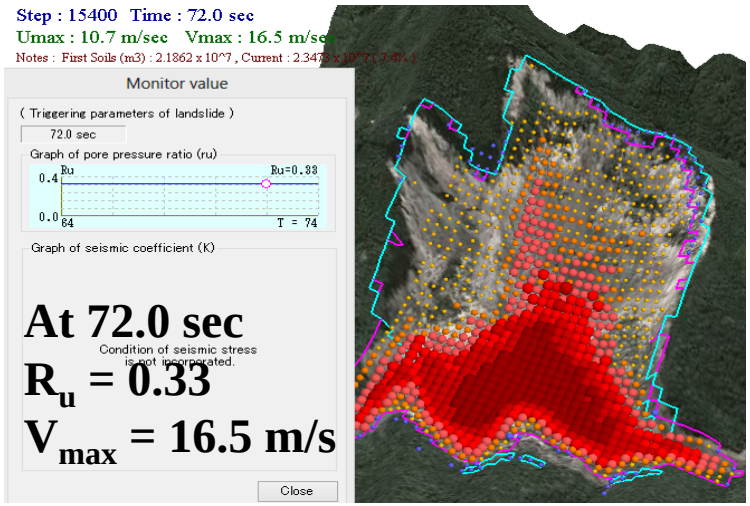




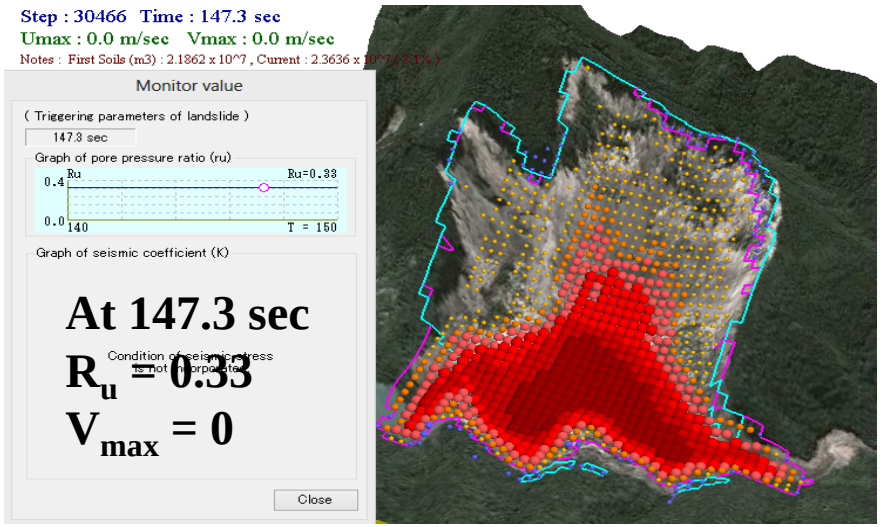
A study on Kii landslides

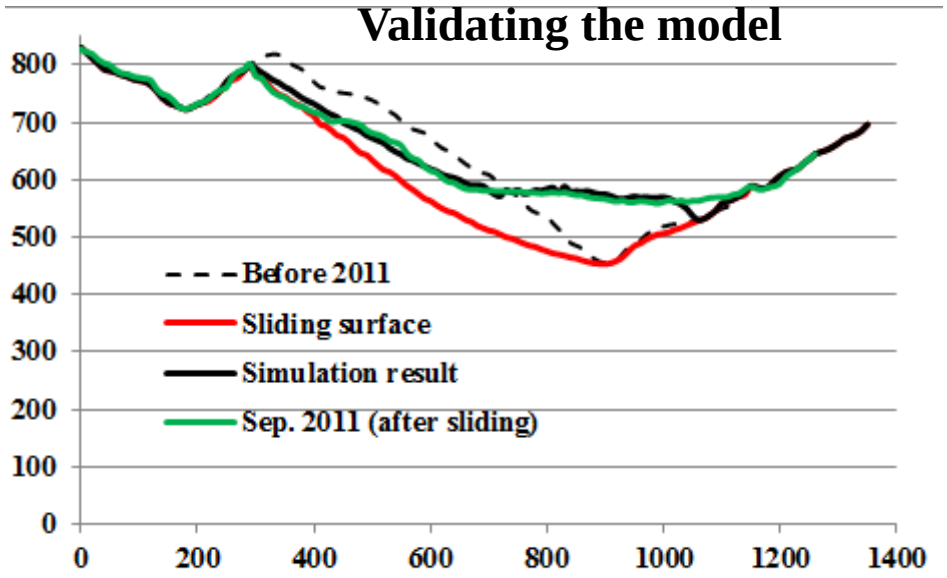
Computer Simulation Model of the Kuridaira landslide

Landslide movement decelarated



Mass movement stopped and formed a dam

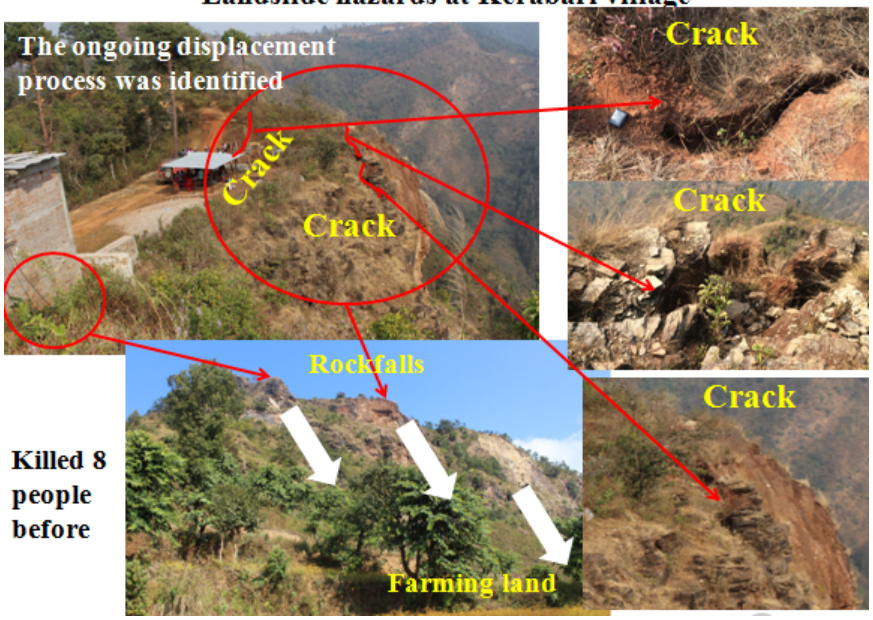




International Cooperation Project in Nepal

Lectures/interactive discussions with local people/students

Landslide hazards at Kerabari village



Pre-disaster measures for mitigating damages

Hole digging

Making a fence

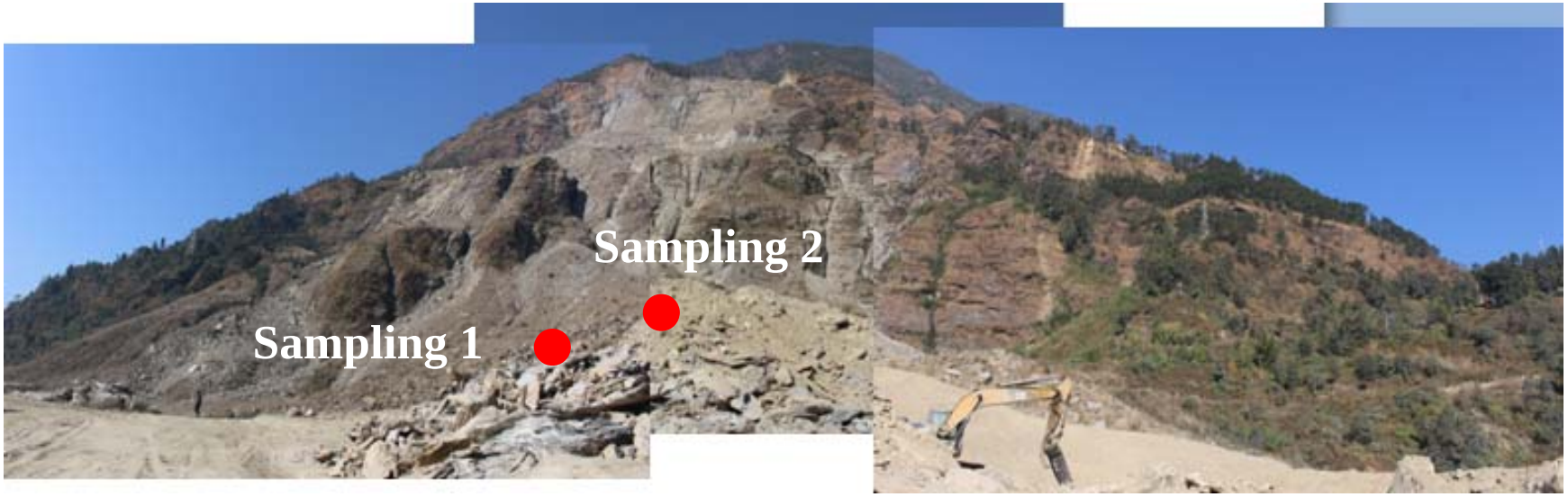
Preparing steel wire

Building a crack monitoring system

A joint research on the Jure landslide dam in Nepal

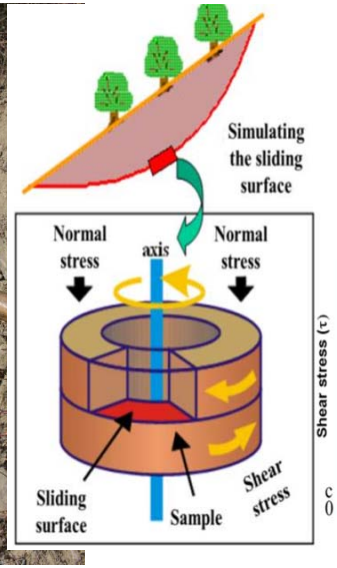
The Jure landslide (7.4 million m^3) ocurred on August 2, 2014, killed 156, extensively destroyed tens of houses and damaged to the Sunkoshi hydropower dam (MOI, 2014).

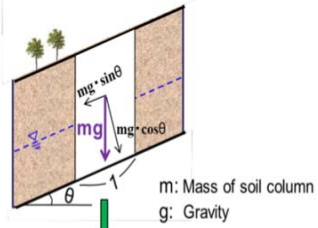
Overview of the Jure landslide (Dec. 2016)

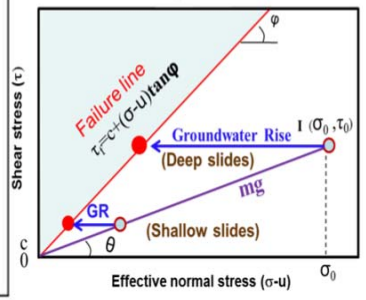


Sample 1 (Phylitte rocks)

Sample 2 (Sandstone)







Conclusion

1. The Vietnam SATREPS project with its achievement presented a **remakable case of the joint cooperation project**.
2. The significance for the promotion of the international cooperation research

- **Promoting and creating innovations/ excellent ways** in addressing and solving global/regional issues towards **sustainable development**
- Jointly **developing the research capacity** (human resources and advance in science and technologies) in project counterpart countries
- **Establishing international research networks** for DRR
- **Widely promoting the development of science and research** worldwide


Thank you very much
for your kind attention!