

RESEARCH AND DEVELOPMENT FOR REDUCING GEO-HAZARD DAMAGE IN MALAYSIA CAUSED BY LANDSLIDE AND FLOOD



- To investigate and construct an analysis system for temporal change and real-time condition of surficial environment using RS/GIS technologies.
- To study, construct and verify a comprehensive numerical flood-runoff analytical model in wide range and with high resolution in the Kelantan river basin.
- To study and construct a landslide hazard assessment system/model considering the impact of precipitation condition and urban development in Gerik (East-West Highway)



- To construct a comprehensive disaster information database including satellite observation data, flood/ landslide hazard data and disaster mitigation information.
- To design a risk management system of flood/landslide disaster considering the effective utilization of risk information between local government and community.
- To produce landslide and flood hazard map using remote sensing and GIS techniques for Malaysia

JRESEARCH FRAMEWORK

Group 5: Early warning system/dissemination

Planning of early warning system of flood/landslide Providing risk communication tools Cooperation with GRAMS

Group 4: Disaster information database (data acquisition/integration)

Construction of GIS database Integration of flood/landslide data Cooperation with GRAMS

Group 2: Flood risk assessment

Group 3: Landslide risk assessment

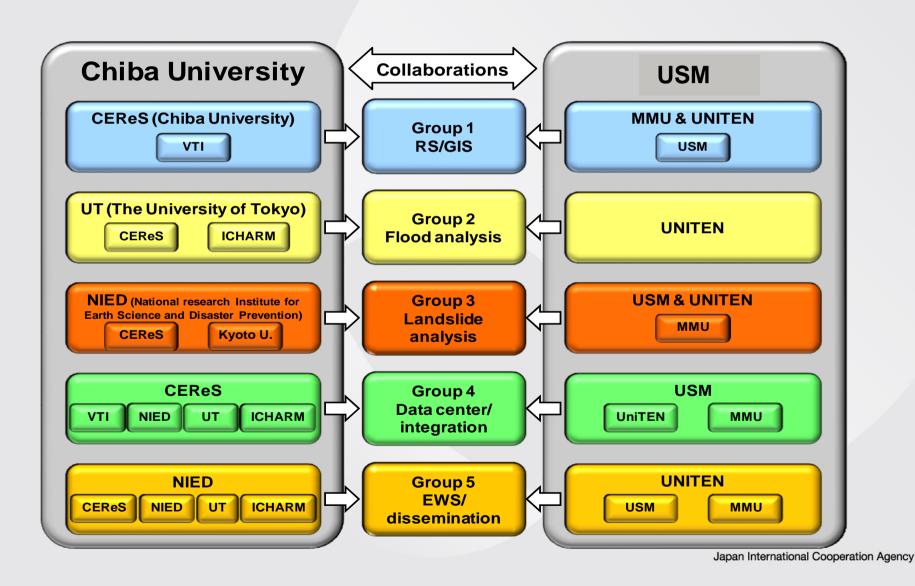
Wide-range simulation
High-resolution model in selected area
Propose of hazard map

Statistical analysis in wide area
Numerical analysis in selected area
Collaborations
Propose of hazard map

Group 1: Remote sensing / geographical information system

Collection of the natural/social environmental data Feasibility studies on CP/SAR boarded on UAV Estimation of hazardous area using spatial information

JEOLLABORATION MODEL



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