

震災風險評估與管理平台

Platform of Seismic Risk Assessment and Management

主管單位：財團法人國家實驗研究院

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摘要

震災風險評估與管理平台的研發目標，在提供政府機關、事業單位、防災協力研究機構等，專業的地震損失評估工具與服務。為達此目標須持續彙整與校正各種災害潛勢與基礎設施資料、整合與研發先進的震損評估模式，以及開發貼近使用者需求的應用軟體與雲端服務。本(110)年度主要工作項目包含：(1)近斷層區域震損評估模式精進及應用、(2)新一代強地動預估模式整合應用、(3)整合震損評估與 GIS 軟體研究、(4)震後緊急醫療韌性評估研究、(5)救援路線規劃與震後阻斷風險評估、與(6)宜花東大規模地震災損推估。

關鍵詞：震損評估、近斷層、急救責任醫院、交通路網、琉球海溝

Abstract

This research project “Seismic Risk Assessment and Management Platform” aims at providing the government agencies, utility managers, research institutes of disaster prevention with professional tools and services for seismic loss estimation. To achieve this goal, it is necessary to continuously collect and correct the data of disaster potentials and infrastructures, develop and integrate the cutting-edge seismic loss estimation methodology, and devise application software as well as cloud services that cater to users’ needs. Subjects in 2021 include: (1) model improvement for near-fault earthquake loss estimation and applications, (2) the next generation prediction model of strong ground motion and integrated applications, (3) integration of seismic loss estimation and GIS software, (4) resilience evaluation of post-earthquake emergency medical systems, (5) rescue route planning and seismic risk evaluation of blockage, and (6) seismic loss estimation of large-scale earthquake in Yilan, Hualien and Taitung.

Keywords : seismic risk assessment, near fault, first-aid hospitals, road networks, Ryukyu Trench.