

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。111 年度主要工作項目包含：(1)整合震損評估模組與 GIS 軟體研究、(2)THospital 之非結構物震損評估模式研發、(3)都會區災害救援路網 QGIS 嵌入式套件開發、(4)地震損失評估線上服務之研發、與(5)桃竹苗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、新城斷層

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 2022 include: (1) integration of the seismic loss estimation module and GIS software, (2) research and development of the estimation module for nonstructural damage in THospital, (3) development of the QGIS plug-in package for metropolitan rescue road networks, (4) research and development of the online services of earthquake loss estimation, and (5) large-scale earthquake loss estimation in Taoyuan, Hsinchu and Miaoli.

Keywords : seismic risk assessment, near fault, first-aid hospitals, road networks, Hsincheng Fault.