天然災害防災減災績效評估模式之建構-以洪災為例

林俊宇, 王維民, 沈冠志, 李欣怡

建築與都市計畫學系

建築與設計學院

weiming@chu.edu.tw

摘要

Taiwan is an island country facing typhoons and heavy rainfalls regularly. While the government is spending a tremendous amount of funding in preventing, protecting, mitigating and recovering from flood hazard, there are usually no comprehensive plans. As a result, the effectiveness of the investment in infrastructures and the spending in reducing flood damages is very minimal. Therefore, this research aims to construct an environmental flood prevention/reduction evaluation model to find the major objectives of flood hazard reduction for the government and to provide suggestions on the resource allocation to flood prevention projects. The relevant literature is reviewed first, and experts in the field are interviewed, to understand the requirements and capabilities in flood hazard reduction management. A comprehensive evaluation model is constructed based on fuzzy analytic network process (FANP). Experts are invited to contribute their expertise in evaluating the importance of the factors. This project aims to use a systematic method to let decision makers understand the real needs in preventing and mitigating flood hazard so that the resources can be allocated appropriately and effectively. In turn, people can be free from flood hazards, and a sustainable development of our country can be achieved.

關鍵字：Natural disaster; flood hazard; performance indicator; fuzzy analytic network process (FANP)