

建構韌性防災校園與防災科技資源應用計畫

Program on Building Disaster Resilient Schools and Technology Application

主管單位：教育部

丁崇峯 ¹	羅偉誠 ²	王筱雯 ²	李馨慈 ³
Ding, Chung-Feng ¹	Lo, Wei-Cheng ²	Wang, Hsiao-Wen ²	Lee, Shing-Tsz ³
李芳君 ¹	陳柏智 ¹	林渝晴 ¹	吳少瑀 ¹
Lee, Fang-Chun ¹	Chen, Po-Chih ¹	Lin, Yu-Ching ¹	Wu, Shao-Yu ¹

¹ 國立成功大學水工試驗所

² 國立成功大學水利及海洋工程學系

³ 屏東大學化發展學士學位學程原住民專班

摘要

本計畫以多年推動成果為基礎，以建構韌性防災校園為願景目標，建立校園災害管理評估體系架構做為推動防災校園核心架構，透過六大重點項目(精進組織、量能與運作管理、國民教育持續運作、人才培育與課程推廣、幼兒園防災推動與伴陪學習、特殊教育學校防災機制推動、災害防救量能評估與強化)與實施策略，導入智慧科技資源應用、與整合縣市、部會既有資源或整合或協作等，使防災教育扎根於校園，並提升學校災害管理與整體耐災能力。「國民教育持續運作」工作方面，為達計畫目標，2022 年研擬直轄市及(縣)市防災教育輔導團團員認證指引，辦理 1 場次團務交流會議、30 場次團員實務工作坊，強化各縣市輔導團自主運作能力；建置 496 所防災校園，達成校校皆是防災校園目標，完成 38 所進階學校輔導；及協助基隆市立過港幼兒園、國立臺中教育大學附設實驗國民小學附設幼兒園、臺南市立第一幼兒園，辦理幼兒園親子共學推動與課程。同時完成全臺 28 所特殊教育學校，依其學校教師能力所需，提供所有特教學校諮詢服務和支援協助，包含研習課程規劃與時間安排及防災演練輔導，以及針對助教、幼教教保人員、特殊教育教師、全國中小學及國私立學校防災承辦等辦理增能研習，與辦理縣市無預警演練線上說明會等。並蒐集 49 份優良成果教案，彙整 99 件績優、優選學校防災教育推動成果，發行 6 期《2022 防災教育花路米》與《2021-2022 防災教育花路米電子報》成果冊，推廣防災相關觀念與優化防災教育資源；辦理臺日防災教育實務經驗交流論壇、防災校園大會師、完成第 9 屆及第 10 屆頒獎典禮。以及針對助教、幼教教保人員、特殊教育教師、全國中小學及國私立學校防災承辦等辦理增能研習，與辦理縣市無預警演練線上說明會等，提升各類學校人員防災意識與知能；評估 22 縣市防災教育輔導團量能與 50 所防災校園運作情形，提出精進改善對策與建議，落實韌性防災校園之推動。

關鍵詞：防災教育、韌性防災校園、防災科技、能力建構

Abstract

This project aims to build a resilient disaster-prevention campus, and to establish a campus disaster management evaluation system as the core framework for promoting disaster-prevention campuses. Through six key tasks (propeller-organization improving, capacity and operation management, persistent operation of citizen education, experts incubation and curriculum promotion, disaster prevention promotion and accompanying learning of kindergarten, disaster prevention mechanism promotion of special education school, disaster prevention and rescue capacity assessment and strengthening) and implementation strategies, to integrate the application of smart technology resource, with resources of local and central governments to make disaster prevention education rooted in schools and improve school's disaster management and overall disaster resilience.

Regarding to task of "persistent operation of citizen education", the MOE developed a guideline for the municipal governments to establish the certification of local DRRE counseling groups in 2022. One group affair convention and 22 workshops helped local DRRE counseling groups enhance autonomous operation ability. There were 635 disaster resilient schools established to meet the target of making every school disaster-proofed. This project has also completed the online briefings for counseling methods to 28 special education schools. Meanwhile it has confirmed 3 Kindergartens named Guo-kong in Keelung, the National Taichung University of Education Affiliated Experimental Elementary School, and First Kindergarten in Tainan to be the demonstration kindergarten to promote the co-learning pattern for parent with child. This project has also completed the online briefings for counseling methods to 28 special education schools, and assisted in providing online training courses and disaster prevention drill counseling for each school. It also conducts capacity-enhancing studies for teaching assistants, preschool education personnel, special education teachers, disaster prevention organizers of all primary and secondary schools. And one online briefing is held for disaster practice without warning for all local governments. 99 DRRE promotion results by quality Disaster Resilient Schools were gathered, 49 excellent DRRE teaching materials were collected, 6 DRRE e-papers with one annual achievement of 2022 were published, and a volcanic disaster prevention flyer was designed to elevate DRRE related concepts and resources altogether. It also organized the 2022 Republic of China (Taiwan) and Japan Disaster Risk Reduction Education Practical Experience Exchange Forum and the 10th Gathering of Disaster Resilient School. Last, the project evaluated the DRRE counseling groups of 22 counties/cities and 50 disaster resilient schools to propose an improvement strategy so that the promotion of disaster resilient schools can be practiced.

Keywords : disaster risk reduction education (DRRE), disaster resilient school, disaster technology, capacity building.