

發展三維圖資與數值地形模型成果加值應用服務

Development of value-added application services for 3D map materials and digital terrain models

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摘要

本計畫將內政部業管 DTM 實體資料建立安全的資料儲存及異地備份環境，提供內政部進行資料永保與進行加值利用，DTM 資料透過開發符合服務導向架構且可於地理資訊系統交互溝通與應用之網路服務模組，再依資料分級供機關及各界使用。DTM 加值應用網路服務模組透過網路介面平台，以 Web API 的方式提供 DTM 加值資料給使用者。今年度針對沒有平臺服務的機關，開發一基於開源 GIS 軟體 QGIS 的 DTM 加值應用服務插件，供使用者於 QGIS 軟體上檢索、顯示、操作 DTM 加值資料，進行高階的應用與分析工作。並持續維運數值地形模型圖資供應平台，提供機關線上申請相關數值地形成果資料，加速圖資流通共享。

關鍵詞：數值地形模型、QGIS 插件

Abstract

This project aims to build a secure data storage and remote backup environment for DTM entity data managed by the Ministry of the Interior, so as to provide the Ministry of the interior with permanent data preservation and value-added utilization. DTM data can be used by authorities and all walks of life through the development of a network service module that conforms to the service-oriented architecture and can be used for interactive communication and application in GIS. DTM value-added application network service module provides DTM value-added data to users through web API. This year, we develop a DTM value-added application service plug-in based on Open Source GIS software QGIS for organizations without platform services, so that users can retrieve, display and operate DTM value-added data on QGIS software for high-level application and analysis. And continue to maintain and transport the data supply platform of numerical terrain model map, provide relevant data of numerical terrain results applied by authorities online, and accelerate the circulation and sharing of data.

Keywords : digital terrain model (DTM), QGIS Plugin