摘要

國土測繪中心自民國 95 年度著手辦理調查分析國土測繪資料現況、建置國土測繪資料庫，並陸續建置國土測繪資料整合流通系統、黎明辦公區 3D 像真城市網際網路導覽系統、電子收費平台、案件申購系統、網路服務基礎平台，建立多元化且便利的測繪資料供應方式，提供政府機關、民營機構、學術團體、個人索取資料。

為發揮圖資資料最大效益，本計畫除持續整理匯入國土利用調查、通用版電子地圖、航測影像、基本圖、一千分之一地形圖、各級控制點以擴充國土測繪資料庫，並修正詮釋資料內容以外，亦建置「國土測繪資訊整合流通倉儲服務網站」，期使提昇國土測繪中心同仁執行業務時查詢瀏覽圖資之便利性，以及提供一般民眾、其他政府機關及民間機構可透過網際網路查詢與瀏覽國土測繪中心建置完成並對外供應之圖資資料，並結合案件申購系統提供資料申購的功能，以充分發揮資料整合流通供應之效益。

為掌控各應用系統使用測繪資料服務的使用情形，本計畫建置宗地外包矩形查詢服務、宗地基本資料查詢服務、地段清單查詢服務、地段地號清單查詢服務、土地利用型態查詢服務等 5 個 Web Services，以及依地段地號查詢單筆宗地、依坐標查詢單筆宗地、地籍圖、國土利用調查、通用版電子地圖、地形圖等 6 個 WMS，並註冊於國土測繪網路服務基礎平台，以提升資料使用安全性及管控機制。

本計畫試辦通用版電子地圖美編及影像化，地區包含臺中市中區、東區、西區、南區、北區、西屯區、南屯區、北屯區、大雅區、沙鹿區、龍井區及梧棲區，希冀未來可以提供政府機關、民間共通需求及加值應用之基礎底圖。

除前述各項作業，本計畫亦擴充案件申購系統的圖資申購類別及查詢方式，以及問卷調查管理與回饋機制，作為未來改進之參考依據。

Abstract

Land Surveying and Mapping Center has been establishing land surveying and mapping database and developed several systems which included 3D Liming office internet guiding system, e-payment platform, map data purchase order system and SOA based service exchanging platform since 2006. The purpose of those systems is to leverage the efficiency of accessing land surveying data for government agencies, private organizations, academic groups, and individuals.

This project continues organizing to update land use map, common version electronic map, and aerial image so as to expand the land surveying and mapping database, and correct interpretation of the data contents. Besides, we also developed "Land Surveying and Mapping Information Integrated Data Warehouses Website", and expected to enhance the convenience of viewing map data for staffs. We provided the public, other government agencies and private organizations to inquire and browse the land surveying and mapping data through the Internet.

To be aware of the usage situation of land surveying and mapping data, this project also developed the parcel envelope query service, parcel basic data query service, land sector list query service, land sector number query service, land use pattern query service as well as the WMS of cadastral map, national land use map, common version electronic map and terrain map, etc. The above services have been registered in SOA based service exchanging platform to increase the security and controllable capabilities.

We run a pilot scheme of the common version electronic maps and images version about Taichung area and hope to provide application of common requirements and basic base map for government agencies and non-governmental organization in the future.

In addition to the foregoing operation, the project also plans to expand geographic information category and inquiries of the application system, as well as survey management and feedback mechanisms for future improvements and reference.