The Development of Taiwan Geospatial One Stop Portal (TGOS)

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Abstract

Taiwan's Ministry of the Interior (MOI) is in charge of standard initiatives and spatial data warehousing project under the umbrella of the National Geographic Information System (NGIS). Since then, the government sector and private organizations have set up geospatial databases mainly for their own use only. In order to obtain complete various spatial data for endusers from widely distributed suppliers at a single platform, MOI set up the Taiwan Geospatial One Stop (TGOS), an Internet-based one-stop portal for sharing geospatial data and geographic information in 2005.
The TGOS has positioned itself as a portal for geospatial data and web services access, browse, query and value-added interface medium. By the end of May 2012, there were 1,178 metadata and 884 map data services (including WMS, WFS, or Web Services) from 70 alliance nodes which was enabling TGOS to provide online query, map data and web service supply.
Looking ahead, there are five main tasks for the TGOS: (1) to stipulate a mandatory policy for imputing each government institute's NGIS data into TGOS platform, (2) to establish a map data collection system, standards and supply formats, (3) to provide shared SOA services and to build a layer for value-added applications (such as WMS and WFS services, address geo-coding service, shared base map service and TGOS map API, etc.), (4) to develop a spatial data mobile App application system, and (5) to enhance TGOS cloud computing services.
Nowadays, the TGOS development has been switched from supply-oriented to demand-oriented service. Therefore, paying attention to the needs of public sector, enterprises, and the general public is a pertinent operating goal. How the TGOS platform can elicit innovative designs of value-added services to meet the real needs of people, to promote the participation of the public and to create the settings for industrial development will be an overall objective of the TGOS platform development in the future.