

Application of Open Source Technology to Building Cadastral Information System for Land Registration and Complete Cadastral Records System (a Case Study of Hanoi City, Vietnam)

Quang Cuong Doan, Van Tuan Tran and Khac Hung Vu (Vietnam)

Key words: Cadastre; Digital cadastre; Land management; open source; cadastre database; Quocoai; Vilis

SUMMARY

Open source technology has been extensively used in land administration sector in developing countries including Vietnam. Many sectors have developed applications basing on open source platforms, but the state management, especially in the land registration activities are very limited. At the moment, land users must directly come to the land registration office or commune people's committee to carry out the land registration. This activity causes overloading of the handing unit and complicated administrative procedures. But if the work is done online, the land user will be able to carry out land registration procedures at home. In this article, based on the open source application and cadastral database, we designed a cadastral information system to assist land information searching, online land registration and to support land information transparency. With this system, land users can look up information on the parcels of land, carry out procedures for land registration for the first time, and receive the notice of land finance. The pilot system was conducted in Quoc Oai town, Quoc Oai district, Hanoi city and achieved positive results at meeting the requirments of a cadastral information system. From the result, we could suggest that this system could be extended to other administrative units of Hanoi city.

Application of Open Source Technology to Building Cadastral Information System for Land Registration and Complete Cadastral Records System (a Case Study of Hanoi City, Vietnam) (9796)
Quang Cuong Doan, Van Tuan Tran and Khac Hung Vu (Vietnam)

FIG Working Week 2019
Geospatial information for a smarter life and environmental resilience
Hanoi, Vietnam, April 22–26, 2019