Developing a Framework for Cadastre and Land Registration Systems in Land Administration Organizations

Arbind Man TULADHAR, The Netherlands

Key words: Cadastre, Property, Organization, LIS, Geo-ICT.

ABSTRACT

International practitioners often indicate that there is increasingly demand for a reliable and effective shared framework for developing, operating and maintaining land information systems in the developing countries especially when existing systems are no longer coping with the current market demands such as policy shifts in land issues and geo-information technology (Geo-ICT). This research paper provides systematic approach by providing management framework for developing cadastre and land registration system in Geo-ICT environment. As a case, this paper firstly examined the current systems of property rights and its registration services in Nepal to assess institutional and operational aspects toward the changing market needs. Consequently, a management framework is proposed; the system development phases for a land information system (LIS) are discussed with focus strong on reengineering the existing business processes of the cadastre and land registration. Then a sample model using Unified Modelling Language (UML) is provided to show that modelling technique can be helpful to communicate with top managers and executives in land administration organizations. Finally, the experiences suggest the coordinated efforts on management and development must be put for the successful implementation of the envisaged system.

CONTACT

Mr. Arbind Man Tuladhar, Assistant Professor
Division of Geo-informatics, Management and Infrastructure
International Institute for Geo-information Science and Earth Observation (ITC)
Hengelosstraat 99
7500AA, Enschede
THE NETHERLANDS
Tel. + 31 53 487 4312
Fax +31 53 487 4335
E-mail: Tuladhar@itc.nl
Web site: http://www.itc.nl