Advancing Technology for Land Administration - Service-Oriented Architecture for Enterprise Systems

Kevin Daugherty, United States

Key words: Digital cadastre, integrated cadastre and land registry; service oriented architecture; workflow; enterprise; electronic conveyance

ABSTRACT

This paper outlines the next generation of ICT architecture that can improve the way in which land records are accessed and administered.

Many national cadastre agencies now offer property maps and related data to the public via the World Wide Web. These agencies all have geographic and related descriptive data stored digitally in some form of an integrated database system that is kept up to date daily for internal purposes. Web serving technology now makes these data available on the Internet for much broader use by government, the private sector, and the public citizens. As more use is made of the spatial and tabular data there is more demand for the integration of data around the spatial fabric, for example Agencies have to look at how to integrate property tax information with physical property description with rights and restrictions on the property. New technologies and standards are emerging which are now helping to change the way that land information is managed, integrated and served to interested parties and as a result is forcing change on the very agencies capturing and managing this information. This presentation will address the new ICT technologies such as Service-Oriented Architecture (SOA), Enterprise data management and workflow administration, integrated cadastre and title registries, and electronic conveyancing and explain how they are helping to transform land information as we know it. Examples of early adopters and systems in operation will be presented

CONTACTS

Mr. Peter Rabley
President
International Land Systems (ILS)
8401 Colesville Rd
Suite 630
Silver Spring
20910
Maryland
United States

Tel.: + 1 301 587 7531 Fax: + 1 301 587 2796

Email: prabley@landsystems.com

TS 31 - Portals and Land Administration

Kevin Daugherty

Advancing Technology for Land Administration - Service-Oriented Architecture for Enterprise Systems

Shaping the Change XXIII FIG Congress Munich, Germany, October 8-13, 2006 1/1