
HONDURAS LAND INFORMATION SYSTEM USES BENTLEY TECHNOLOGY TO INTEGRATE LAND OWNERSHIP DATA

The Honduras Land Administration Project (PATH), which is financed by the World Bank, has an important goal for the people of this region - the development of an integrated and decentralized land administration system. The system will provide Hondurans with accurate information on urban and rural land parcels and cost-effective land administration services - moving them a step closer to sustainable development. The Land Administration System is part of a Property Rights Administration System that has commended to PATH.

The project provides accurate information on territorial ordering norms and laws to both public and private entities. In the Public Registry for norms and laws affecting the public and private rights over land, Honduras has a common, nationwide repository for land ownership and associated legal information. PATH, which provides the land administration system covering the entire country, facilitates transactions in the real estate market. In addition, it aids in the development of national and municipal territorial plans, and promotes the development of management plans for protected areas, forests, and other lands with special uses.

The National Registry of Territorial Ordering Norms/Laws (RENOT), which is part of the National System of Property Administration (SINAP), is a pivotal tool of PATH. RENOT administers and publishes the administrative rights related to real estate, including both geometric and alphanumeric attributes. Built with a multi-tier Web architecture, it allows complete access to land ownership data through the intranet for all project-related institutions.



PROJECT OVERVIEW

Project

Registro Nacional de Normativas de Ordenamiento Territorial (RENOT)

Organization

Programa de Administración de Tierras de Honduras (PATH)

BE Awards category

Government

Project objectives

The system is designed to facilitate the administration and publication of administrative property rights that originate in the various institutions throughout Honduras.

Fast facts

- The system provides complete digital mapping and integrated spatial query and analysis.
- Web access is central to the design.
- Information is distributed throughout many government and non-government entities.

Bentley products used

- MicroStation GeoGraphics® 2004
- Bentley Descartes™ 2004
- Bentley Geo Web Publisher™ 2004
- Bentley PowerMap™ V8
- Bentley® ProjectWise® Extranet 2004
- Bentley® GEOPAK® Civil Suite

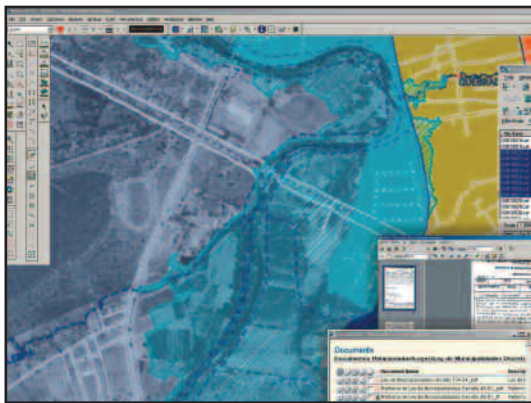
Additionally, it employs an Internet-based interface to handle external users' queries related to legal descriptions and other data related to land.

WEB-BASED DATA ACCESS

The development of the first phase of RENOT started in July 2004 and was finalized in December of the same year. RENOT is built on a multi-tier Web architecture that allows complete access to the projects by government agencies through an intranet and by the public via the Internet. This first phase includes the administrative registry process, the storing of documents in ProjectWise®, and zoning (vector) management via MicroStation® GeoGraphics® with Oracle Spatial. In the second phase, RENOT will be fully connected with PATH's cadastral and land registry system (SURE). This will provide a fully functional two-way system that incorporates both spatial and attribute query and analysis capabilities.

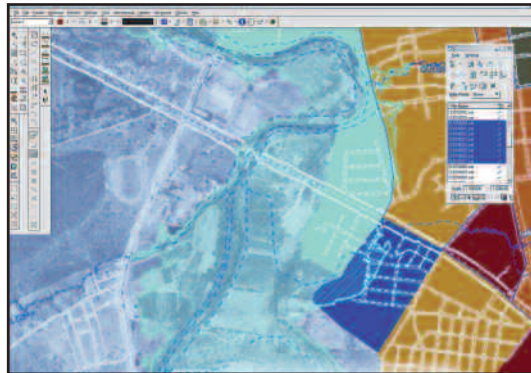
MAP CREATION, INFORMATION INTEGRATION, AND INTERACTIVE PUBLISHING

Using ProjectWise and MicroStation GeoGraphics, PATH has full control of the creation and administration of base maps and documents. The system can locate, access, and manage large amounts of both mapping and related attribute data easily and quickly. In fact, the time required to create a single map has been reduced by 75 percent compared to the previous system.



Moreover, the combination of the PATH, SURE, and RENOT components has enabled the National Registry of Land Administration to greatly reduce the time required to calculate spatial intersections. In particular, the ability to overlay parcel information stored in one system with zoning data in another has improved the overall efficiency of land administration, and helped all departments more easily integrate their information in a timely fashion.

The system offers real-time access to spatial land information and the legal data associated with the norms and laws. This up-to-date data is easily published on the Web for use by internal and external users alike. Once again, speed has been the biggest benefit. The time to perform a complex analysis and publish the results has been reduced to 15 minutes from the three days required by manual calculation with paper maps.



SYSTEM BENEFITS AND IMPROVEMENTS

Benefits of the new system can be seen in several key areas:

- Information integration - all the data, spatial and non-spatial, is fully integrated. Legal and administrative information is linked in a system centered on zoning.
- Information sharing - unparalleled information-sharing capabilities are provided by the user-friendly system.
- Information management - control over the information is crucial in this kind of system. All data is stored, accessed, and managed digitally, eliminating the cumbersome paper-based system.

The improvement in processes and data management has been a key success of the system. In fact, project manager Erasmo Padilla says, "Using Bentley technology, we were able to develop, manage, and administer our information in a secure and easy way. The integration of products like databases, maps, and documents was done thanks to the flexible development platform. Now we are using a Bentley Enterprise License Subscription® in order to extend the benefits of this technology to related institutions. Bentley provides technology we can trust to do our job."

For more information on Bentley, please visit www.bentley.com or call 1-800-BENTLEY.

