



Oakland County Enterprise GIS
<http://www.oakgov.com/gis>

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Overview

- The Oakland County enterprise GIS is a multi-faceted program that supports and promotes coordinated "location-based" data development and access across jurisdictional and departmental boundaries.
- It exemplifies the definition of an "enterprise system" through a series of coordinated information gathering and sharing activities conducted by more than 10 County agencies and 62 local cities, villages or townships (CVTs).
- At the heart of Oakland County's enterprise GIS implementation is a central service team that coordinates GIS development throughout the County. This team, called Land Management Technologies, is part of the Oakland County Department of Information Technology.

Land Management Technologies

- Deals with any information technology that is tied to a location.
- Performs GIS services on behalf of the entire enterprise and coordinates the efforts of diverse agencies and cities, villages and townships.
- Establishes technical standards through consensus and facilitates GIS education through "technology transfer."
- Is responsible for creating and maintaining key Countywide GIS data such as land parcels (more than 450,000), road centerlines, facilities (such as schools, government buildings, hospitals, and care sites), and aerial imagery.

Groups supported by Land Management Technologies:

- 62 Oakland County CVTs, Emergency Response and Preparedness (ERP), Community & Economic Development Department, Health Division, Drain Commissioner's Office (OCDC), Road Commission (RCOC), Register of Deeds Office (ROD), Equalization Division, Sheriff's Office, Court & Law Enforcement Management Information System (CLEMIS), Parks & Recreation Department, Animal Control, Facilities and Maintenance Operations (FM&O), Oakland County International Airport, MSU Extension, and the Treasurer's Office.

Where We Are

Initiatives

- **Web-based Crime Mapping and Analysis**

The Land Management Technologies team is working with CLEMIS to provide a suite of web-based crime mapping and analysis tools to local public safety agencies and citizen groups so that crime patterns and trends can be analyzed and appropriately addressed. In addition to this, a public website showing location of registered sex-offenders in the County was launched in October 2004.
- **Automation of Public Infrastructure**

The Land Management Technologies team is working with the Drain Commissioner's Office to automate all County-owned infrastructure including water, sewer, and drain systems. The conversion of water and sanitary sewer data is complete and the conversion of storm drain data is currently underway. In addition, guidance is provided through standards and data models to CVTs that are interested in automating their infrastructure. This ensures data consistency throughout the County and will ease future integration. Once automated, this data will be critical for many County department operations as well as Homeland Security. Efforts are also underway to procure an asset management/computerized maintenance management and permitting system to manage the various assets for OCDC and citizens' request for service.
- **Geographic Parcel Explorer**

The Land Management Technologies Team has created a tool that utilizes GIS technology and the BS&A CAMA database to provide searches and analysis on tax parcel attributes. A search dialog is provided to define parcel characteristics essential in the search. Parcel information can also be retrieved directly from the map using a selection tool. The search information can be printed or exported for use in other applications such as Microsoft Excel.
- **Environmental Health**

The Land Management Technologies team is working with the Environmental Health Division to automate the well and septic permitting process. In addition, sanitarians have been trained to collect and update data in the field using GPS-enabled tablet computers. Sanitarians are also able to collect the location of well and septic installed throughout the County and transmit it directly to the County databases. Citizens can now apply for well and septic permits online without having to make a trip to the County.
- **Web-mapping services for GIS data**

The Land Management Technologies has maintains various public mapping sites to provide access to GIS data and maps. These Internet mapping sites provide information and location of golf courses, trails and non-motorized paths, the results of the 2006 elections, and the location of.
- **FEMA Digital Flood Insurance Rate Maps**

The Land Management Technologies on behalf of Oakland County entered into a Cooperating Technical Partners (CTP) Partnership Agreement with the Federal

Emergency Management Agency (FEMA) to create accurate, up-to-date flood hazard areas for Oakland County. This partnership has resulted in new Digital Flood Insurance Rate Maps (DFIRMs) for all of Oakland County. The effective date on the new maps is September 29, 2006. An interactive mapping site allows individuals to view the flood hazard areas in Oakland County.

- **Second Generation Access Oakland**

The Land Management Technologies support Access Oakland products are the gateway to parcel-based information in Oakland County, Michigan. This web-based product streamlines critical business processes for real estate and mortgage professionals. The products also provide residents with a means to analyze the value of their current residential property, as well as become a well-informed homebuyer and seller. Since the initial in-house development in 1998, Access Oakland has been enhanced and adapted to changes in technology and the needs of the business community. However, the product suite will be rebuilt from the ground up to better serve the County's constituency and to develop a product that will enable map based access to land and lifestyle information to anyone, anywhere, anytime. The new product suite will still be web based and will be developed to allow PC, cell phone and PDA users to access traditional parcel characteristics and sales information, perform analysis, and produce high quality standard and large format outputs.

Awards:

- 2006 Urban and Regional Information Systems Association (URISA) Exemplary Systems in Government (ESIG) Award
- 2002 National Association of Counties (NACO) Achievement Award
- 2001 Improving Michigan's Access to Geographic Information Networks (IMAGIN) GIS for Everyone Award
- 2000 National Association of Counties (NACO) Achievement Award
- 1999 Environmental Systems Research Institute (ESRI) Special Achievement in GIS Award
- 1999 Urban and Regional Information Systems Association (URISA) Exemplary Systems in Government Award
- 1998 Southeast Michigan Council of Governments (SEMCOG) Outstanding Project Award