

Highlights of the GIS Steering Committee Meeting November 17, 2006 Oakland County, Michigan

*For more information about any of the topics below, please contact your **User Support Specialist**. If you do not have a User Support Specialist, or you are not sure who your User Support Specialist is, please contact the IT Service Center at 248.858.8812 or servicecenter@oakgov.com.*

Please note: All Oakland County email addresses have changed to "username@oakgov.com". Old email addresses will work for a year. Please begin to update all contacts and mailing groups.

Miscellaneous GIS Initiatives

In 2007, the GIS Steering Committee will continue to meet quarterly. The meeting dates for 2007 are:

- February 16, 2007
- May 18, 2007
- August 17, 2007
- November 16, 2007

The **SEMCOG** regional meeting is scheduled for December 14. Madison Heights will be presenting, and Oakland County will be presenting on CrimeIMS. SEMCOG is also hoping to gather the partners in the regional 2005 ortho flight for one last debriefing meeting.

GIS Day was November 15, 2006. Oakland County produced a Map Atlas containing maps of County and community data, which is available at <http://www.oakgov.com/gis/news/gisday2006.html>. A Map Atlas will be created next year as well, so please continue to send your PDFs to Dawn Siegel (siegeld@oakgov.com).

The IMAGIN conference will be held in Kalamazoo (May 7-9, 2007). The ESRI International User Conference will be held in San Diego (June 18-22, 2007). The URISA conference will be held in Washington, D.C. (August 20-23, 2007).

As a result of the Land Management Strategic Planning session, a new geospatial strategic plan has been created. This high-level document reflects the comments that were provided last year by the users. You can view the plan on the web (http://www.oakgov.com/gis/info_pub/organidocuments.html).

The IT Master Plan, covering the next 2 years of planning, is finished. The Land team has been approved to work over 69,000 hours in the next 2 years on various projects. One example of new development is a new delinquent tax system for the Treasurer's Office. The Land team also has 8,500 hours dedicated to new enhancements on existing projects.

The Real Time Locator (RTL) application was **demonstrated**. In the old version of RTL, there were 2 PDFs created every day for reporting. Now, users can generate reports on demand. They can, for example, do a report by department and day, or display only vehicles that had no activity.

ArcGIS 9.2 beta testing is complete, as the final release of ArcGIS Desktop has shipped. IT is in the beginning stages of creating an ArcGIS 9.2 implementation and migration plan, including both desktop and server applications. The ArcGIS 9.2 rollout will not begin until at least the first quarter, 2007. IT will begin to test ArcGIS Desktop shortly. IT will also be meeting with County departments to discover in which new functionality the departments are the most interested. ERSI and IT are working together to develop a technical workshop that will then be rolled into a What's New in ArcGIS 9.2 training that will be offered by the County to all GIS users. Cities, villages, and townships (CVTs) will be notified in advance before migration of the County's ArcSDE servers begins.

Multiple GIS research projects are underway, including an ArcGIS Server-based prototype of a mobile parcel query tool for Smart phones and PDAs. This tool will be available for any web-based device. IT is working with ESRI to evaluate the road centerline data in preparation for routing applications. ESRI is also developing an ArcGIS Server-based routing prototype. The County will then turn the prototype into an application that can be used by many County departments to route staff to fixed and variable appointments (such as restaurant or well inspections). Because of customer requests, the Land team is also researching 3D analysis and visualization, comparing ArcGIS products as well as freeware that allow users to create fly-throughs and save them to video files.

Future training offerings are listed on the web at www.oakgov.com/gis/calendar. To register for a class, please fill out the PDF at the bottom of the GIS Calendar page. The completed form can then be dropped at the IT Information Desk, or faxed to 248.858.1006. There is no charge to County departments and CVTs. Please send any additional training needs to Dawn Siegel (siegeld@oakgov.com).

IT has a Project Manager position and a User Support Specialist position open. Details are available on the Web site (www.oakgov.com/jobs). A new User Support, Dawn Beemer, was recently hired from Health. She will be the User Support for the Public Safety division.

County Department GIS Initiatives

The **Planning and Economic Development Services Division** presented the green infrastructure planning project they are working on with the Natural Areas Advisory Group. They have used GIS in all steps of the project, including printing maps for the visioning sessions, creating GIS models to create a map of potential natural links, georeferencing hand-drawn maps from the visioning sessions, and generating a map workbook. More information is available at www.oakgov.com/es. PEDS is also working on historical and cultural resource maps. The first map will be a Native American resource map.

The **One Stop Shop** presented the Business Analyst ArcGIS extension. This extension provides a toolset to make decisions such as where to locate a business, drive time analysis, customer profiling, demographic analysis, and target marketing. Business Analyst contains the name, number of employees, phone number, etc. for businesses throughout the country. In addition, the County and the Road Commission for Oakland County (RCOC) will be creating a new road atlas and road wall map some time in February.

Public Safety reported that the CrimeIMS tool has had data downloading issues, but the issues should be resolved within the next week. CrimeIMS has been a large success with the local communities. They are using it for multiple applications, including community crime watch. Approximately 300 officers have been trained on the application.

The **Oakland County Drain Commissioner's Office** (OCDC) is midway through quality assurance for the sanitary dataset and will probably be done some time in March or April. They are working with Woolpert on the scope of work for the drain conversion project. There is a final data model for the drain/hydro model that will be published on the Web. OCDC is in contract negotiations for asset management. The Panasonic Tuffbook has been selected for ruggedized laptops, and Fujitsu for non-ruggedized. OCDC is also testing wireless cards in these laptops.

The **Health Division** has rolled out the Foods module of EHealth. The inspectors are using tablets in the field for restaurant inspections. The specification for sanitarian routing will be started after the first of the year.

Road Commission for Oakland County (RCOC) is working on a road permit GIS layer.

IT worked with the **Register of Deeds** (ROD) office to produce an ArcIMS site for the November, 2006 election results. On Election night, there was a password-protected prototype that updated the ArcIMS site in real-time as precinct results were reported to the County. Results were tracked by precinct, jurisdiction, district, and County. Ten different contests were tracked. Once the Election results are official, the site will be available to the general public at www.oakgov.com/maps/interactive/.

The **Federal Emergency Management Agency** (FEMA) and Oakland County have been working together to update the **Digital Flood Insurance Rate Maps** (DFIRMs). The floodplain redelineation is now complete, and the effective date of the new FIRM maps is September 29, 2006. Oakland County has received the digital DFIRM database and has published the data on ArcSDE (DFIRM dataset) as well as in a new, publicly available ArcIMS site called Flood Hazards. The site, which was **demonstrated**, is available through the Interactive page of the Maps and Geographic Data Catalog: <http://www.oakgov.com/maps/interactive/>. Users can search by address, PIN, intersection, FIRM panel number, waterbody, or CVT. They can also view a PDF of the official FEMA FIRM.

GIS Data

Some communities currently receive a CD of GIS data on a quarterly basis. IT will no longer be providing the Data Warehouse extract on this CD. If you would like to continue to receive this data, please contact the Service Center at servicecenter@oakgov.com to request an account to download the Data Warehouse extract from a Web site. You will be able to download updated data on a weekly basis.

In the future, there will be an ArcGIS Server-based application that will allow communities to download their GIS data on an ad hoc basis rather than waiting for quarterly CD distribution. Until that time, the quarterly data distribution process will continue. The next distribution will be at the end of December.

Work is continuing on the Land and Address Management System (LAMS). The conversion routings are being refined, and the application work is being wrapped up. The next large area of development is the Web service that will push LAMS updates to BSA real-time.

The 2005 ortho imagery flight is complete. IT has received the 2' pixel color regional imagery and will begin to load it the next couple of weeks.

The 2006 MrSIDs will be burned to CD and shipped to communities next week. The 2006 imagery is being reloaded into ArcSDE with statistics. This will improve cartographic output, though it may reduce the visible detail in lighter areas (such as parking lots). ArcMap can be used to remove the statistics and recover the detail by going to the Properties/Symbology tab of the 2006 imagery. Ayres Associates is offering planimetrics for each community based on the 2006 flight. They offer both new planimetrics and updates to existing. Contact Anita Campbell (campbella@oakgov.com) if interested.

The County is developing continuously operating reference stations (CORS) towers in the County so that surveyors can obtain higher quality GPS points. No decision has been made regarding the type of equipment that will be used.

CVT GIS Initiatives

The new Michigan Zoning Enabling Act requires communities to notify both the occupants and owners of a parcel, not just owner. It also requires communities to notify occupants and owners outside of their jurisdiction, if they fall within the notification buffer. The future LAMS application will allow communities to easily store all of the addresses related to a parcel. However, there will also need to be some type of spatial component so that, for example, only the apartment buildings that fall within the notification buffer need to be notified, rather than the entire complex. The best way to handle this issue may be with planimetrics, but many communities do not have planimetrics. The Label Service can be used to notify occupants and owners outside of a community, as long as they are within Oakland County. Oakland County may have to work with neighboring counties to determine how to sharing data across county boundaries, or perhaps a regional effort could be headed by SEMCOG.