

## Highlights of the GIS Steering Committee Meeting

May 19, 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@co.oakland.mi.us](mailto:servicecenter@co.oakland.mi.us).*

### Miscellaneous GIS Initiatives

In 2006, the GIS Steering Committee will continue to meet quarterly. The remaining dates are:

- **August 25, 2006** (note the change)
- November 17, 2006

ESRI's 2006 International User Conference will be in San Diego (August 7-11). The URISA conference will be held in Vancouver, British Columbia (September 26-29).

As a result of the Land Management Strategic Planning session, a draft document of a new strategic plan has been created. The draft should be available for review in June.

The Real Time Locator (RTL) application was **demonstrated**. This is a secure, ArcIMS application that displays assets that are being tracked. Users can perform many tasks, including sorting by speed, and following the path of a particular vehicle. Additional reporting was added to show which vehicles have malfunctioning LMU devices. Another report for the supervisors and administrators shows the maximum speed of the vehicle and shows if the tracking device is functioning properly. In the future, the reports will be dynamic and web-based; they are currently in PDF format. All vehicles will eventually be attached to a live wire so that they can transmit 24 hours a day, not just when the ignition of the vehicle is on. Oakland County can host this same service for other communities if the communities purchase the hardware for the vehicles. Demonstrations are available upon request. Cell phones are being piloted, and we hope to test GPS-enabled tablets in the future.

The ArcGIS 9.1 migration is complete. Oakland County did not move to Service Pack 1 because the customizations to the Map Book extension don't work, and panning does not function properly with transparent data layers. Oakland County is currently participating in the ArcGIS 9.2 beta program. If there is any functionality you would like to see tested in 9.2, please contact Susan Moore ([moores@co.oakland.mi.us](mailto:moores@co.oakland.mi.us)).

More and more users are using ArcGIS licenses. We have added 8 additional ArcInfo licenses, however we still occasionally have no free licenses available. To alleviate this problem, please be sure that you are using the correct license (i.e., if you don't need an ArcInfo license, please use an ArcView license). We will be sending out an email explaining how to change which license you are using and identifying what functionality is available with each license.

Future class offerings are listed on the web: [www.oakgov.com/gis/calendar](http://www.oakgov.com/gis/calendar). Contact IT to register (248.858.0828). There is no charge to County departments and communities, villages, and townships (CVTs). A 2 day Python scripting class is being scheduled. There was an overwhelming response to this class, and those who expressed interest in this class will be contacted shortly. Please send any additional training needs to Dawn Siegel ([siegeld@co.oakland.mi.us](mailto:siegeld@co.oakland.mi.us)).

We are working with ESRI on new workshops. Some potential topics include reporting (how to export data, use reporting tools such as Crystal Reports and Excel); geocoding/address matching; QA/QC workflow. If you have additional suggestions, please contact Dawn Siegel ([siegeld@co.oakland.mi.us](mailto:siegeld@co.oakland.mi.us)).

Some staffing changes have occurred in IT. Dawn Siegel is the new supervisor of the Land Implementations team. Sudha Maheshwari is the new supervisor of special projects. Tammi Shepherd is now a Project Manager.

IT has a Project Manager position and a User Support position open. Details are available on the Web site ([www.oakgov.com/jobs](http://www.oakgov.com/jobs)).

Dawn Maich and Julie Gianfermi have been hired as GIS/CAD technicians at the Oakland County Drain Commissioner's Office.

The Locate Road Intersection tool was **demonstrated**. This ArcMap 9.1 tool allows the user to enter a road name, then select the name of a road that intersects it. The tool then selects the intersection(s) and zooms to the location. The tool works with the RoadIntersection point feature class that is stored in Oakland County's ArcSDE Server, or in a personal geodatabase.

## County Department GIS Initiatives

The 2005 Land Use data layer will be completed by the **Planning and Economic Development Services Division** next week.

Land Applications, together with ESRI, is continuing work on CrimeIMS for **Public Safety**. The team expects to turn over the application to CLEMIS in the next few weeks. Over the summer, police departments will be trained on the new application which will replace all but very high level CrimeView users. The high level users will have thick clients with CrimeView running on ArcGIS, not ArcView 3.x.

The **Emergency Operation Center's** (EOC) eTeam application is being upgraded after the NBA playoffs are over. The upgrade will not impact those who have just been through training. There are many agencies using eTeam around the state, which allows users to send records from one instance of the database to another. The State is working out some technical issues with this process.

The **Oakland County Drain Commissioner's Office** (OCDC) has completed QA of the water data for 4 CVTs. The converted sanitary data has been delivered. OCDC field data collection was **demonstrated**. There are 500 map pages in OCDC's map book, and 25 hard copies of each map book that need to be created, so OCDC was looking for a digital alternative. They are currently testing the Toughbook tablet PC, which contains a GPS unit. They have tried both Map2PDF and ArcPublisher software to produce the digital maps, and they will probably pursue an ArcPublisher solution. The TEAM (Total Enterprise Asset Management) system went out to bid, and a short list of vendors (Woolpert with Azteca & ESRI; EMA with MRO; Sigma with Accela, EDA & eVerge) has been identified. OCDC is also working on a soil erosion application. In addition, they plan to purchase survey grade GPS equipment shortly.

The septic portion of **Health Division's** eHealth application is now live, so people can now apply for septic permits online. The foods application is the next piece to be added to eHealth. IT is working with ESRI on an ArcGIS Server-based proof of concept application that will facilitate the scheduling and routing of sanitarians and incorporate the current RTL functionality. The project should be underway some time this summer. Other departments will be interested in the routing functionality for other scheduling applications and to assist with mileage reimbursement validation.

The **Road Commission for Oakland County** (RCOC)'s Road View photo log is now accessible via ArcIMS for RCOC employees. Two photos were taken at every photo point, one to the front, and one to the right. There may be a demonstration of the service at the next GIS Steering Committee meeting.

The **Register of Deeds Office** has been participating in the ArcGIS 9.2 beta testing. In addition, the Survey Oakland product has been in beta, and we are working on the functionality to allow people to purchase a subscription to this service. It will be a product offered through Access Oakland. Survey Oakland is an ArcIMS site that was developed for the surveying community and contains section corners, NGS, plat boundaries,

parcel boundaries, etc. Users of the site will not be required to have a surveyor's license. There is a \$500 annual fee for a business, and CVTs can get free logins.

The **Equalization Department's** Assessing Analysis Mapping ArcIMS application was **demonstrated**. This service is similar to the current residential property analyzer, but adds GIS and additional functionality. The application allows users to add notes to the map on the fly. The old Economic Condition Factors (ECF) tool functionality was brought forward into this tool. Users can display parcels by ECF, sale price, building class, structure type, and year built. There is also a search panel that allows the user to search for a parcel, zoom to a CVT, or query for all parcels that meet certain criteria. The service is currently running against weekly exports for participating agencies. For non-participating CVTs, the data is only as fresh as the CVT has submitted to the County. In Phase II, the service will run against BSA directly so that the data for the participating CVTs will be live.

The **Treasurer's Office** has requested GIS technology for delinquent tax parcels. They are looking for a similar application to the Assessing Analysis Mapping application, but this application would show delinquent tax parcels. It may also include routing functionality so that staff could be efficiently routed to the delinquent parcels for staking purposes.

The **Federal Emergency Management Agency (FEMA)** and Oakland County have been working together for 3 years to update the **Digital Flood Insurance Rate Maps (DFIRMs)**. FEMA sent Letters of Final Determination (LFDs) to communities on March 29, 2006 by registered mail. Included with the letter was a Summary of Map Action (SOMA), a list of frequently asked questions, and additional instructions. This information was generally sent to the elected officials, sometimes along with another community staff person. If you do not think you received the information from FEMA, please contact **Sudha Maheshwari (maheshwaris@co.oakland.mi.us)**. National Flood Insurance Program (NFIP) participants and emergency entrants into the NFIP program will have 6 months (until September 29, 2006) to adopt the new maps. Non-NFIP participants have 12 months (until March 29, 2007) to adopt the new maps. Oakland County anticipates receiving the digital data from FEMA before the end of May, at which time we will publish the data in ArcSDE, and make it available to the CVTs. Communities should also receive paper maps from FEMA 2 months prior to the final adoption date. However, FEMA will be sending PDFs of the maps to the communities and to Oakland County in case the printing of the paper maps is not complete when anticipated. The Michigan Department of Environmental Quality (MDEQ) also sent CDs to the communities containing sample ordinances. If you would like MDEQ to review your proposed ordinance, they must have it at least 45 days before the final adoption date. The DFIRMs will show the new floodplain delineations, except for select areas of Troy on which there are new studies. These new studies will be incorporated as Letters of Map Revision (LOMRs) as soon as possible by FEMA. Updates to the project will be posted on Oakland County's Web site ([www.oakgov.com/gis/info\\_pub/FEMA.html](http://www.oakgov.com/gis/info_pub/FEMA.html)).

## GIS Data

There are 2 new data layers on our ArcSDE publishing server, TaxParcel2005 and ParcelAttribute2005.

We may be adding an additional attribute to the ParcelAttribute table that indicates which records are part of a one to many relationship (the most frequent occurrence of this is building condos).

OCDC's storm and IT's hydrography data models are going to be combined into one data model. IT is working with OCDC and gathering input from users such as PEDS.

The next phase of Land Management is known as LAMS (Land and Address Management System). It will replace the mainframe land file table that still contains approximately 20 attributes that were not migrated to BSA. LAMS will provide improved data integrity, improved data maintenance, and real-time updates to parcel data. It also paves the way for spatially enabling addresses and integration between GIS data layers (roads, parcels, etc.). They have a working prototype and a draft data model into which they have loaded countywide data for testing. LAMS will provide standardized addresses for any applications within the County. A web application was **demonstrated** that will be used for data updates and searching instead of Mainframe. User testing and training will be held in summer. The next phase of LAMS will fully integrate management and

maintenance of address data with GIS; maintain data integrity (valid site address list, road centerline, parcels, site address); provide integration of DigiPics and documents; integrate a geocoding Web service.

The MrSID images for the 2005 flight will be available some time this fall. The imagery for 2005 flight is in color. The 2006 flight is 6" pixel, black and white. Digital camera technology was used again for this flight, though it was different technology than the previous flight. The imagery will be delivered in mid-July.

If any CVTs are interested in obtaining planimetric data, please contact **Anita Campbell** (**[campbella@co.oakland.mi.us](mailto:campbella@co.oakland.mi.us)**).

Oakland County is considering updating our DTM (digital terrain model) every 10 years. The next update would occur in 2010.