AIMS Coordinator Meeting Minutes
May 19, 2005
Hosted by City of Overland Park
Antioch Justice Center

Announcements

- Kaitlyn Click is a new part-time employee for the Overland Park Planning GIS Dept.
- Overland Park has hired a new GIS Specialist. Dave Fullerton formerly with the EPA will start May 31st.
- AIMS has hired Travis Wagner as a GIS Analyst. Travis used to work for MJ Harden.

ArcMap Normal Template
Mike Nelson showed enhancements and changes to Overland Park's normal template. The custom tools are loaded on the OP1 toolbar. When ArcMap opens, a startup splash screen opens allowing the user to choose whether they want a new map or an existing map. The question was raised if it is possible to show only ArcMap documents and Keith Shaw pointed to the developer samples. Mike provided a short preview of the different functions on the OP1 toolbar. One of the newer enhancements is storing the recent searches under the bookmark function which allows the user to go back to a previous search.

Address Maintenance
Bert Meier demonstrated how Overland Park is maintaining and updating addresses within ArcMap. An address can be updated by clicking on the map, selecting a group of parcels, or reactivating an existing retired address. All of the edits are stored in Oracle and 2 shapefiles are created nightly. One shapefile contains just the active addresses and the other shapefile has all addresses. Doug Johnson mentioned that the addition of scanned plans would make addressing easier.

ArcID Module
Bert Meier showed how to reference the ArcID module when customizing ArcMap. The modules are essentially "system scripts" that can be called through VBA code. The system scripts are functions ESRI has provided so a programmer doesn't have to rewrite them. Bert built a form that demonstrates how easily a user can use these scripts with relatively few lines of code. More help on using these scripts can be found in the ArcObjects developer help and samples.

Display X/Y data from a Non-Arc source
Most tabular data can be added and displayed in ArcMap using ArcCatalog to connect to a database. Doug Johnson showed how to set up a connection to an Oracle database and add in data that contained XY coordinates. The data is created by writing a "view", which allows multiple data sources and fields to be combined into one table. One of the limitations of an event layer is that elements in the layer cannot be selected. This

problem does not exist in spatial views created using ArcSDE. Most other properties remain the same and the user can symbolize the data and create definition queries. Doug and Bert mentioned allowing users to pick from different definition queries, but a question was raised that it might slow down the speed at which the data is displayed.

Plan Viewer

The Overland Park Public works department developed an application to search and viewed scanned engineering plans. Kaitlyn Click created geographic areas to represent the project location. Using the hyperlink function in ArcMap a user can click on an area of the map and see corresponding scanned images. The next step is to geo-reference the images so they could be over-layed with other geographic data. Overland Park found this to be an extremely use of geography to find scanned imagery.

Public Crime Mapping

Bert is working with the OP Police department to develop a public website that displays crime information. The website allows a user to search by address, intersection, or neighborhood and select a buffer area. The buffer area then calculates a report that displays crime statistics. The report also returns temporal data which is used to determine if crime prevention measures are working. No sex crimes are displayed on the map and a user cannot identify or gain any information on a specific crime. One use for the application is to compare the safety between two neighborhoods. One visual limitation is that the XY locations are stacked on top of each other and are not offset.

Infill Development

Mike Nelson is working with the Engineering and Planning Division to develop analysis for eligible areas of infill development. The development is meant to improve the land, while at the same time not creating flooding problems for the existing stormwater infrastructure. The criteria for possible areas are; Vacant land, Parcels that have greater than .50 acres, The land value must be greater than 30% of the improved value, Contiguous ownership of 3 or more parcels. After selecting parcels that met the criteria, he assigned a value of one for each of the above conditions. The areas that met all conditions were recommended to be studied further by a consultant.