

GENESEE COUNTY  
GEOGRAPHIC INFORMATION SYSTEM STEERING SUBCOMMITTEE MINUTES

January 08, 2007

**Members Present:** Mike Ortiz, Chairperson  
Julie Hinterman, Vice-Chairperson  
John Daly  
Jim Gerth  
Joe Heimbach  
Frank Ricica

**Members Absent:** Board of Commissioner's representative  
Representative from the Land Bank

**Others Present:** Pete Apgar  
Ed Bissel  
Christine Pobocik  
Robert Slattery

I. CALL TO ORDER

The Genesee County GIS Steering Subcommittee meeting was called to order at approximately 1:34 p.m.

II. ROLL CALL

Members were present and absent as aforementioned.

III. APPROVAL OF MINUTES – September 11, 2006 and November 13, 2006

Action Taken: Motion by Mr. Daly, supported by Mr. Ricica, to approve the minutes of the September 11, 2006, Genesee County GIS Steering Committee Meeting.

**MOTION CARRIED UNANIMOUSLY**

Action Taken: Motion by Mr. Daly, supported by Ms. Hinterman, to approve the minutes of the November 13, 2006, Genesee County GIS Steering Committee Meeting.

**MOTION CARRIED UNANIMOUSLY**

#### IV. REPORTS

##### A. Working Group Report – Bob Slattery

Mr. Slattery reported that the working group met on November 27, 2006 and received updates on Pictometry, the Historical Aerial Scanning Project, ESRI maintenance, license issues and the ArcGIS extension for Pictometry. The group also watched a demonstration on ArcIMS and a presentation on the Genesee County Metropolitan Planning Commission Land Use Study.

#### V. AGENDA ITEMS FOR DISCUSSION

There were no new agenda items for discussion.

#### VI. OLD BUSINESS

##### A. Pictometry/Orthoimagery – Update – Ed Bissell

Mr. Bissell reported that the orthoimagery was received before Thanksgiving, however, there were color balancing issues. Approximately two thirds of the tiffs delivered by Sandborn were corrupt. Another hard drive was sent by Pictometry. The GIS Department is currently looking at all of the images for color balancing issues. Pictometry has requested a list of the tiles that are unacceptable and they will be replaced. Craig Whitmore of Pictometry will be here on Friday to decide on the criteria that will be used for replacement of a tile. There will not be a timeline for delivery of the orthoimagery until the list for replacement is complete. Pictometry is also working on an orthoimagery product to see if it meets our needs better. There is a question whether we would be able to distribute this product or if it is just for evaluation. Approximately 10-20% of the 6" tiles are unacceptable while approximately 2% of the 12" tiles are unacceptable. The GIS Department indicated that they need to document the problems they are having with the imagery.

##### B. FEMA Floodplain Mapping – Update – Jim Gerth

There is nothing new to report from FEMA. The Michigan Department of Environmental Quality (DEQ) posts updates on their website. They are working on Genesee County and four other counties at about half of the expected pace.

##### C. Historic Aerial Photo Project Update – Julie Hinterman

Aerometric is currently working on scanning the 1966 flight year and producing the index files for all flight years. The Historical Aerial photo project will be completed by the end of January 2007. The data will be released and delivered after it has been checked by GCMPC staff.

D. GPS Data Collection Project Update – Robert Slattery

The GPS Data Collection Project is on hold because of formatting issues. The specifications on the antennae of the CORS station have been changed. A new standard is needed for the GPS rovers so they can be used with the CORS stations. Trimble and Leica are trying to resolve the issue.

E. ArcGIS Extention – Ed Bissell

Mr. Bissell reported that the County has received a site license for the ArcGIS Pictometry extension. The extension makes it easier to use the Pictometry imagery by opening a window in ArcGIS which displays the imagery. An email was sent out to users informing them of the availability of the extension and explaining how to install it.

VII. NEW BUSINESS

A. Pictometry Web Demonstration – Ed Bissell

Mr. Bissell gave a presentation on the integration of the Pictometry image warehouse with ArcIMS. The integration of the Pictometry imagery with the Parcel Viewer application provides web access to communities which allow them to see the imagery from other communities within the county.

B. Election of Officers for 2007 – Mike Ortiz

Action Taken: Motion by Mr. Gerth, supported by Mr. Daly, to maintain the current leadership of the Genesee County GIS Steering Committee with Mr. Ortiz remaining as the Chairperson and Ms. Hinterman as the Vice-Chairperson/Secretary.

**MOTION CARRIED UNANIMOUSLY**

C. GIS Department Update

The Genesee County Board of Commissioners has authorized \$5000 for the search for a GIS Director. Human Resources has been authorized to post the position.

VIII. ADJOURNMENT

The meeting was adjourned at 2:23 p.m. The next meeting will be held on March 12, 2007 at 1:30 p.m.

GENESEE COUNTY  
GEOGRAPHIC INFORMATION SYSTEM STEERING SUBCOMMITTEE MINUTES

March 12, 2007

**Members Present:** Mike Ortiz, Chairperson  
Julie Hinterman, Vice-Chairperson  
Jim Gerth  
Joe Heimbach  
Ted Henry

**Members Absent:** John Daly  
Frank Ricica  
Tom Blair

**Others Present:** Pete Apgar  
Kim Carlson – County Surveyor  
Maxine Henry  
Christine Pobocik

I. CALL TO ORDER

The Genesee County GIS Steering Subcommittee meeting was called to order at approximately 1:42 p.m.

II. ROLL CALL

Members were present and absent as aforementioned.

III. APPROVAL OF MINUTES – January 8, 2007

Action Taken: Motion by Mr. Gerth, supported by Mr. Henry, to approve the minutes of the January 8, 2007, Genesee County GIS Steering Committee Meeting.

**MOTION CARRIED UNANIMOUSLY**

IV. REPORTS

A. Working Group Report

Mr. Apgar and Ms. Pobocik reported that updates about Pictometry, the Historical Aerial Photo Project and the Pictometry Survey were provided at the last working group meeting. The group also discussed the creation of a recreation point layer for the county.

V. AGENDA ITEMS FOR DISCUSSION

There were no new agenda items for discussion.

VI. OLD BUSINESS

A. Pictometry/Orthoimagery – Update – Pete Apgar

Mr. Apgar reported that the GIS Department has received new oblique and ortho imagery. The new photos have not been approved for distribution. The orthos from Sanborn have color mismatching issues and the orthos from Pictometry are in the wrong coordinate system. The data is shifted about 30 feet because the data was delivered in survey feet while our data is in international feet. A new set of photos is due from Sanborn this week however, they are not certified. There is no language in the contract requiring that the photos be certified.

Mr. Apgar went over some of the results from the GIS Survey that was distributed to the users of Pictometry. The purpose of the survey is to find out from the users what they think of the project, what they are using it for, and how valuable it is to them. Three cities and 7 townships responded to the survey

B. FEMA Floodplain Mapping – Update – Jim Gerth

Mr. Gerth reported that there has been no official word about the progress of the FEMA floodplain mapping, however, since FEMA is looking for new Cooperative Partnerships he is assuming they are wrapping up the current floodplain mapping projects. The digital contours were used to update the Digital Floodplain Insurance Rate Maps (DFIRM). The State of Michigan is starting to get the information back from FEMA and they are verifying them based on the new contours. The maps go to each community to be adopted.

C. Historic Aerial Photo Project Update – Julie Hinterman

Ms. Hinterman reported that the historical aerial photos have been scanned and the Genesee County Metropolitan Planning Commission is still waiting for the index files, which will enable easy location of the images. The images have not been loaded onto the GIS servers. The group discussed the pricing for the images and it was noted that the enhanced access fee schedule covers pricing for digital data.

D. GPS Data Collection Project Update – Robert Slattery

No report was given.

## VII. NEW BUSINESS

### A. GIS Department Staffing

Mr. Ortiz reported that Mr. Apgar is the only person currently staffing the GIS Department. Mr. Bissell accepted a position in Lansing and last Friday was his last day with Genesee County. Human Resources posted the GIS Director position, which will close on April 16, 2007. The applications will be reviewed and it will not be until early summer at the earliest before the position is filled. The decision to fill the GIS Analyst position vacated by Mr. Bissell will be left up to the new director.

### B. Remonumentation Information – Mr. Carlson, Genesee County Land Surveyor

Mr. Carlson gave a summary of the County's Remonumentation program. In 1994, the County began remonumenting the section corners. In 2007, the process is half way complete. Local surveyors are hired to research the corner locations, which they do by obtaining private and public records. The surveyors then submit their findings to a peer review, which is then approved or rejected by a committee. Once it is approved, the corner is remonumented and then all of the records are put into a file which goes to the County surveyor. Mr. Carlson would like to save and preserve the surveyor files on each corner point by scanning the information and putting it into a GIS system. Currently there are over 1000 files. The data would be made available to other surveyors for a small fee. Having this data scanned would help reduce costs by making it easier to research corner points. Mr. Carlson asked the group what system would be appropriate to accomplish this goal and how it would be integrated.

## VIII. ADJOURNMENT

The meeting was adjourned at 2:37 p.m. The next meeting will be held on May 14, 2007 at 1:30 p.m.

GENESEE COUNTY  
GEOGRAPHIC INFORMATION SYSTEM STEERING SUBCOMMITTEE MINUTES

July 9, 2007

**Members Present:** Mike Ortiz, Chairperson  
Julie Hinterman, Vice-Chairperson  
Joe Heimbach  
Robert Slattery for John Daly

**Members Absent:** Tom Blair  
Jim Gerth  
Ted Henry  
Frank Ricica

**Others Present:** Pete Apgar  
Maxine Henry  
Christine Pobocik

I. CALL TO ORDER

The Genesee County GIS Steering Subcommittee meeting was called to order at approximately 1:36 p.m.

II. ROLL CALL

Members were present and absent as aforementioned.

III. APPROVAL OF MINUTES – March 12, 2007

No action taken.

IV. REPORTS

A. Working Group Report

Mr. Slattery reported that updates were presented concerning the GIS Director search, the historical aerial project, and Pictometry. It was reported that two sections of the Pictometry photos have been rejected. Once replacements have been received, the orthos will be disseminated to participants. The group also discussed current projects being completed by various group members. The group also learned about a ArcGIS 9.2 class offered by MSU GIS and Remote Sensing that is half the price of the ESRI class which covers the same material and uses the same books. Students also receive a CD with the exercises and a temporary license for ArcView.

V. AGENDA ITEMS FOR DISCUSSION

There were no new agenda items for discussion.

VI. OLD BUSINESS

A. Pictometry/Orthoimagery – Update – Pete Apgar

Mr. Apgar reported that he has started disseminating the new release of Pictometry 2.7. Mr. Apgar reported that he was going out to various participants and working with them on the use of Pictometry. The group also discussed the costs of fulfilling various data requests.

B. FEMA Floodplain Mapping – Update – Jim Gerth

No update given.

C. Historic Aerial Photo Project Update – Julie Hinterman

Ms. Hinterman reported that three years of index files have been delivered to the GIS department and three years remain to be completed.

D. GPS Data Collection Project Update – Robert Slattery

Mr. Slattery reported that the GPS units were being used by the sign repair crews to keep the sign database current. They no longer have student employees to do additional GPS activities.

VII. NEW BUSINESS

A. GIS Department Staffing – Mike Ortiz

Interviews have been held over the last two weeks for the GIS Director position. Forty applications were received and 6 candidates have been interviewed. A decision and a recommendation will be made tomorrow at the Board of Commissioner's meeting. Commissioner Woodrow Stanley, Commissioner Raynetta Speed and Commissioner Patricia Lockwood were on the interview committee.

B. GeoConnector purchase – Maxine Henry/Pete Apgar

The county has purchased the GeoConnector software which connects the new tax system data to the ESRI software. GeoConnector allows for the posting of data on the web in real time. The new tax system, Equalizer, replaces the old GALLER system.



C. AVL GPS Vehicle Tracking – Joe Heimbach

Mr. Heimbach reported that he received an email concerning the Automatic Vehicle Location (AVL) tracking system. It was suggested that the email be passed on to other department head to see if there is an interest in pursuing this type of system and what concerns there would be about implementing it.

D. Pictometry Data, Working Group Recommendation – Bob Slattery

Mr. Slattery presented the committee with a written recommendation from the GIS working group which would allow assessors, and other entities to use Pictometry solely to complete work for the governmental agencies that are a part of the Pictometry agreement. They would not be allowed to profit from the use of Pictometry.

VIII. ADJOURNMENT

The meeting was adjourned at 2:49 p.m. The next meeting will be held on September 10, 2007 at 1:30 p.m.

GENESEE COUNTY  
GEOGRAPHIC INFORMATION SYSTEM STEERING SUBCOMMITTEE MINUTES

September 10, 2007

**Members Present:** Mike Ortiz, Chairperson  
Jim Gerth  
Julie Hinterman, Vice-Chairperson  
Joe Heimbach  
Commissioner Ted Henry  
Robert Slattery for John Daly

**Members Absent:** Tom Blair  
Frank Ricica

**Others Present:** Pete Apgar  
Ken Koleda  
Christine Pobocik

I. CALL TO ORDER

The Genesee County GIS Steering Subcommittee meeting was called to order at approximately 1:31 p.m.

II. ROLL CALL

Members were present and absent as aforementioned.

III. APPROVAL OF MINUTES – March 12, 2007 and July 9, 2007

Action Taken: Motion by Commissioner Henry, supported by Mr. Gerth, to approve the minutes of the March 12, 2007 and July 9, 2007, Genesee County GIS Steering Committee Meetings.

**MOTION CARRIED UNANIMOUSLY**

IV. REPORTS

A. Working Group Report

Mr. Slattery reported that the working group received updates on Pictometry, the Historical Aerial Photo Project and the status of the new GIS Director. The group discussed the availability of GIS classes offered by the Michigan State Remote Sensing lab. The group also discussed manipulating and compressing the ortho imagery by using software such as Spatial Analyst from ESRI and GeoExpress from LizardTech. Mr. Slattery invited the Steering Committee to attend the next

Working Group meeting on September 24, 2007 at 1:00 pm to see the presentation about ArcGIS Server given by Angela Zazula of ESRI.

V. AGENDA ITEMS FOR DISCUSSION

There were no new agenda items for discussion.

VI. OLD BUSINESS

A. Pictometry/Orthoimagery – Update – Pete Apgar

Mr. Apgar reported that the GIS Department was still waiting for the delivery of 15 sections of orthoimagery. The orthoimagery that we were given was delivered to the State as part of our agreement with them. Each ortho layer, the high flight and the low flight, will be stored separately on the server as layers in Mr. SID format. The two year contract with Pictometry is coming up for renewal and it will have to be renewed soon if we want to fly in the spring of 2008.

B. FEMA Floodplain Mapping – Update – Jim Gerth

Mr. Gerth reported that no new information is available at this time. FEMA is still working on the floodplain maps. We were scheduled to get the maps this summer. Once the maps are complete each community will have to update their Ordinances to reflect the new floodplain boundaries.

C. Historic Aerial Photo Project Update – Julie Hinterman

Ms. Hinterman reported that the Planning Commission will be transferring control of the Historical Aerial collection to the GIS Department on October 1, 2007. All the digital data and index maps will be delivered to the GIS Department this week along with our current customer list and fee schedule. After October 1, 2007 the GIS department will be responsible for fulfilling all orders for historical aerial data.

D. GPS Data Collection Project Update – Robert Slattery

No update was given.

E. ArcSDE Upgrade – Pete Apgar

Mr. Apgar reported that ArcSDE has been upgraded from version 9.1 to 9.2. The database does not support double precision yet.

VII. NEW BUSINESS

A. GIS Department Staffing – Mike Ortiz

Mr. Ortiz introduced the new GIS Director, Mr. Ken Koleda. Mr. Koleda will start in his new position on Monday, September 24, 2007.

B. GIS Director Agreement with Road Commission/Drain Commissioner Discussion

The GIS Director Agreement with the Road Commission and the Drain Commissioner is scheduled to expire at the end of the month. It was suggested that the current agreement be extended for 10 or 11 months and then renegotiated at that time. It was agreed that a letter requesting an extension should be submitted to the Board Office to get it on the agenda of the next Public Works meeting on September 19, 2007.

VIII. ADJOURNMENT

The meeting was adjourned at 2:50 p.m. The next meeting will be held on November 12, 2007 at 1:30 p.m.

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GENESEE COUNTY  
GEOGRAPHIC INFORMATION SYSTEM STEERING SUBCOMMITTEE MINUTES

November 19, 2007

**Members Present:** Mike Ortiz, Chairperson  
Jim Gerth  
Derek Bradshaw, for Julie Hinterman, Vice-Chairperson  
Joe Heimbach  
Frank Ricica  
Robert Slattery for John Daly

**Members Absent:** Tom Blair  
Commissioner Ted Henry

**Others Present:** Pete Apgar  
Ken Koleda  
Christine Pobocik

I. CALL TO ORDER

The Genesee County GIS Steering Subcommittee meeting was called to order at approximately 1:33 p.m.

II. ROLL CALL

Members were present and absent as aforementioned.

III. APPROVAL OF MINUTES – September 10, 2007

Action Taken: Motion by Mr. Slattery, supported by Mr. Gerth, to approve the minutes of the September 10, 2007, Genesee County GIS Steering Committee Meeting.

**MOTION CARRIED UNANIMOUSLY**

IV. REPORTS

A. Working Group Report

No update was given.

V. AGENDA ITEMS FOR DISCUSSION

There were no new agenda items for discussion.

## VI. OLD BUSINESS

### A. Pictometry/Orthoimagery – Update – Ken Koleda

Mr. Koleda reported that he attended a meeting regarding imagery resolution and pricing on November 6, 2007 at Grand Blanc. An 8" high flight and a 4" low flight was decided upon. If pricing becomes an issue, 12" and 6" resolution flights would be an option and they are much cheaper. We have until late January to sign a contract if we want to fly this spring. A letter will be sent to City Managers and Supervisors with the 4" and 8" flights recommended. Possible applications for the new images include identifying building foot differences and the ability to spot manholes at the 4" resolution on the images. The images would also increase the storage space needed.

### B. FEMA Floodplain Mapping – Update – Jim Gerth

Mr. Gerth reported that no new information is available at this time. FEMA is still working on the floodplain maps. Other counties are being done around the same time as ours. Once the maps are complete each community will have to update their Ordinances to reflect the new floodplain boundaries. It appears that there is a higher percent of areas that are in the floodplain that were not on the floodplain maps than areas that were in the floodplain but are now out of the previous floodplain areas.

### C. Historic Aerial Photo Project Update – Ken Koleda

Mr. Koleda reported that 9600 historical aerial files for 6 years of flights obtained from the Planning Commission have been loaded on the server. These files can now be accessed via the network. The index files and actual files loaded were compared and any discrepancies were corrected. The GIS Department has received several requests for the historical aerials and they have provided the data digitally in an 8-1/2 x 11 pdf format. They hope to eventually make the data available on-line.

### D. GPS Data Collection Project Update – Robert Slattery

Mr. Slattery reported that Brad Danks has compiled a tabular file of the county section corners. The file contains the section corners that have been GPS'ed with information about who GPS'ed the corner, when it was remonumented and the actual X, Y coordinates. This winter the inspectors from the Road Commission will GPS section corners on paved roads in specific corridors. The Road Commission is looking to update their software.

Mr. Gerth noted that there are some areas in the county where Leica and the current phone system cannot get real time connections which are needed to obtain sub-centimeter accuracy on data points.

## VII. NEW BUSINESS

Mr. Bradshaw informed the group that the Planning Commission was currently involved in a pilot project for the county website. They hope to put real-time databases and maps on-line. They will be working with a consultant in December to identify the databases, maps, computer equipment needed and how to maintain the data.

VIII. ADJOURNMENT

The meeting was adjourned at approximately 2:00 p.m. The next meeting will be held on January 14, 2008 at 1:30 p.m.

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