

ODOT GIS Steering Committee
July 19, 2011
Reports

LiDAR/Imagery Storage

DAS/GEO is investigating options for cloud storage of LiDAR and Imagery data. The State Data Center (SDC) is aware of this effort. When preferred options are gathered, DAS/GEO will follow up with SDC to create a workable solution. Details will follow as plans solidify.

For additional information, please contact Brett Juul at 503-986-3156 or brett.a.juul@odot.state.or.us

Version 10 Roll-out

The ArcGIS Version 10 rollout is nearly complete. Software is installed, licenses acquired and installed, new database activated and the old one shut-down. Training licenses were acquired under a 'free – restricted – use' agreement and made available on a separate license management device.

The old license server was turned-off Thursday, July 14th. Numerous emails and personal contacts were made, providing as thorough of a user notice as possible. ODOT Computer Support and Field Services Unit was kept 'in-the-loop' throughout the process.

Various groups throughout the agency have need for dedicated licenses and this has been dealt with by incorporating 'machine-to-license' groups. Most single-use licenses have been surrendered in favor of the license check-out feature. The only remaining single-use licenses are on the Emergency Laptops in the GIS Unit and approximately eight laptops used continuously in the field by Traffic Counting Staff.

Reconciliation of licenses with the Department of Administrative Services GeoSpatial Enterprise Office, holders of the ESRI Enterprise License Agreement (ELA), has been completed. Additionally, ArcPad licenses have been reconciled with GeoMetronics and the Server Licenses with Server Management (I.S.)

The quote for ArcPad licenses was based on the existing use and project concepts as of January 2011. More recently, the need appears to have increased. ArcPad is a royalty-based software, handled by the contract only as a convenience. In other words, requests for ArcPad licenses above the ELA agreement will not be available for 'floating use' between contract periods, in contrast to most of the software listed in the agreement. So, each ArcPad license represents dollar output, no matter the period of acquisition or use.

Additionally, concurrent use ArcView licenses have 'maxed-out' repeatedly in the last few weeks. With everyone now using the 30 licenses on the new license server, we are finding that the license denial has resumed and increased over the last few months. During a period of time, while the mix of old and new versions enabled access to twice as many licenses, we averted some of the notices that had begun to appear prior to the v10 migration. To address the growing number of GIS users and

the varied complexity of use, we have ordered 10 additional 'Viewer' level licenses for the new server.

For questions, concerns or additional conversation, please feel free to contact Susan A. Mead, 503-986-4252, Susan.A.Mead@odot.state.or.us .

Crash Locator Tool

The Crash Locator Tool Enhancements (CLT) project began in February 2011. This is a fixed deliverable based work order contract (WOC) and two additional requirements were added after the original WOC was signed, extending the end deliverable date from March 31, 2011 to June 30, 2011. However, there have been a number of technical delays and more recently an amendment extended the project completion date to on or before September 30, 2011. The project consists of the development of eight intuitive tools that will be added to ODOT's new GIS base map application and will replace the existing Crash Locator Tool application. See the list of tools below:

1. Search tool for road/cross road
2. Measuring tool
3. Identify attributes tool for roads
4. Snap /crash location selection tool
5. Email / feed back tool
6. Pick-a-point crash coding tool
7. Move-a-crash editing tool
8. Added attribute selection boxes to crash location selection tool

At this time the deliverables 3, and 5 are complete, 8 is near completion 1, 2, 6, 7, are tied directly to the functionality developed in 4 (snapping to the line work) and i-Ten is experiencing technical issues. These issues arise when they move the tool from the WGS84 projection to OGIC's approved projection. i-Ten is communicating with ESRI for problem evaluation and resolution. ODOT's GIS analysts will be evaluating the feasibility, options, and impacts of creating a WGS84 service for the use of CLT only. Understanding that the use of dynamic rather than cached data will impact performance business is prepared to accept that limitation to move the project ahead. Because this snapping tool impact several of the others tools, until this issue is resolved, little or no functional testing can be done. We expect an issue resolution and delivery of the tools within the month of July.

For more information, please contact Robin Ness at 503-986-4236 or Robin.A.Ness@odot.state.or.us.

GPS Field Update

GPS support at ODOT GIS has collaboratively expanded to include additional business line support from Asset Management Integration Section and additional spatial data check-out/check-in and technical capacity from Geometronics Unit. The shared responsibilities are currently under advisement and a Memorandum of Understanding between the three business lines is currently in draft. The GIS Unit continues with the current support activities regarding customer support with a returned focus upon the Geo-environmental Data Management System (EDMS) program. Other recent activities include a mobile GPS pilot that brings EDMS program's Restricted Activity Zone (RAZ) into an interactive and GPS-enabled mobile RAZ map.

For additional information, please contact Phil Smith at 503-986-3733 or Philip.L.Smith@odot.state.or.us .

Data Agreements

TOCS

No Data Agreements have been completed since the last GIS Steering Committee meeting. With TOCS in re-development and the main application developer dedicated to other tasks, it is both difficult and perhaps even confusing to define the data needs and agreement, at this time.

However, new projects with Motor Vehicles and Oregon State Police should result in agreements, shortly. FACS-STIP agreements should be completed over the next two months. The Transportation Planning On-Line Documents (TPOD) application should meet a swift data agreement schedule during this next quarter. Staff interaction with TransInfo is still undetermined and this is a key data source for all applications. Data agreements with this Unit are key to every application supported by GIS. Each of the GIS Web applications being redeveloped for the ArcGIS Server/TransGIS 2.0 system will execute a data sharing agreement, as well.

For questions, concerns or additional conversation, please feel free to contact Susan A. Mead, 503-986-4252, Susan.A.Mead@odot.state.or.us .

ESRI Software ELA Status

A determination of who uses and needs ESRI software at ODOT is finished. The agency upgrade to ArcGIS 10 has been completed. The budget estimate for the next ESRI software ELA is still at \$328,000 but a final cost should be available in August. DAS is in final negotiations with ESRI this month. Alternatives to ESRI desktop software such as the free ArcGIS Explorer and the new TransGIS 2.0 web interface are still being communicated. Payment for the next ELA is done through DAS in which they recover individual agency ELA costs through an Intergovernmental Agreement (IGA) process. \$300,000 of the total cost has already been paid by ODOT to DAS out of the 09-11 budget. The remaining \$28,000 of ODOT's estimated ELA costs will be paid for out of the 11-13 budget.

A key advantage of the ELA is that new ESRI software deployments don't cost anything and a license can be turned-in if it's not needed. The cost of the ELA is more a reflection of what software maintenance fees would typically be. By not having to purchase new licenses of ESRI software it is estimated that since early 2009 the ESRI software ELA has saved ODOT at least \$300,000 in new software purchases.

One thing that needs to be discussed and decided at the next GIS Steering Committee meeting is whether or not the remaining \$28,000 and the costs generated by future additions of ESRI software should be paid for by the divisions making the software request? Final status of the ESRI software ELA will be reported at the next GIS Steering Committee meeting.

For additional information, please contact Brett Juul at 503-986-3156 or brett.a.juul@odot.state.or.us