

# Minutes

Enterprise GIS Steering Committee		
6.2.2016	1:35pm –2:40pm	Clerk's 4 <sup>th</sup> Floor Conference Room
Chair	Pam Dubov, Property Appraiser's Office (PAO)	
Vice-Chair	John Bennett, Assistant County Administrator	
Attendees	<p><u>Voting Committee Members</u>  Pam Dubov, Property Appraiser's Office PAO  Marc Gillette, Supervisor of Elections (SOE)  Jake Stowers, Assistant County Administrator ABSENT  Paul Sacco, Assistant County Administrator  John Bennett, Assistant County Administrator  Jason Malpass, Pinellas County Sheriff's Office (PCSO) ABSENT</p> <p>Jill DeGood, Sheriff (for Jason Malpass)  Blake Lyon, DRS/Code Enforcement (for Jake Stowers)</p> <p><u>Guests</u>  Deborah Berry, JCS  Brett Burks, PPC  Joe Borries, EM  Jeremy Capes, Utilities  Rick Cody, SES  Mike Dawson, BTS  Trudy Futch, BTS  Kelli Hammer Levy, Public Works  Virginia Holscher, Risk  Randi Kim, Utilities  Curt Nielsen, PAO  Gregg Obarski, BTS  Susanna Rominger, BTS  Martin Rose, BTS  Penny Simone, Public Works/ETF  Toni Smith, BTS (Note taker)  Bryan Zumwalt, BTS</p>	
Agenda	<ol style="list-style-type: none"> <li>1. Call to Order</li> <li>2. Approval of Minutes</li> <li>3. Public Works, Airport, Solid Waste, Utilities Representation – Kelli Levy Nomination</li> <li>4. Aerial/LIDAR Project update</li> <li>5. 3DEP/USGS Grand Funding Update</li> <li>6. Arc10.4 Upgrade</li> <li>7. Release 1 – 2016 Projects</li> <li>8. Release 2 – 2016 Project Candidates</li> <li>9. Training &amp; Survey Results</li> <li>10. Open Discussion/Adjournment</li> </ol>	

## Agenda Items

Call to Order	
Presenter	Pam Dubov
	The meeting was called to order at 1:35pm.
Approval of minutes from February 4 <sup>th</sup> , 2016 meeting	
Presenter	Pam Dubov
Discussion	It was asked by Pam if there were any changes to the February 4 <sup>th</sup> , 2016 meeting minutes, none were noted.
Conclusions	Marc Gillette motioned to approve, John Bennett seconded, all in favor. Minutes approved.

# Minutes

Public Works, Airport, Solid Waste, Utilities Representation – Kelli Levy Nomination	
<b>Presenter</b>	Pam Dubov
<b>Discussion</b>	Currently there is no representation on the eGIS Steering Committee for Public Works, Airport, Solid Waste and Utilities departments within the county. It has been requested by Assistant County Administrator, Pick Tally, that Kelli Levy represent the interests of these departments on the eGIS Steering Committee. Pam asked if there was any discussion or objections to this nomination, none were mentioned.
<b>Conclusions</b>	Pam asked for a motion from the existing members of the committee to approve Kelli Levy to be a voting member on the eGIS Steering Committee. Marc Gillette motioned to approve, John Bennett seconded, all in favor. Welcome Kelli Levy to the eGIS Steering Committee.

Aerials/LIDAR Project Update	
<b>Presenter</b>	Bryan Zumwalt
<b>Discussion</b>	<p>Bryan mentioned that eGIS has taken delivery of both the ortho and oblique aerial imagery from Pictometry.</p> <p>The orthos are in the process of a review (QA) by eGIS and the Property Appraiser's Office. So far only 1 tile has had issues. eGIS is currently working on caching the aerials in order to provide them to the enterprise and also add them to the viewers. Pictometry offered some training on the obliques in April. A total of 77 attendees participated in these 3 hour training sessions. Pam inquired about the amount of attendees from the Property Appraiser's office and it was answered with a total of 6. She was happy to hear this as it showed that these oblique images are used enterprise wide and not just by her department. Pam also mentioned that a decision should be made at some point about flying these oblique images yearly, as it has proven beneficial at the Property Appraisers office. Bryan said that Southwest Florida Water Management District has offered to fly the 2017 &amp; 2018 orthos for a reduced price. If we participated in this joint effort, it may free up some of the budget money to fly the obliques yearly. Pam asked if any other departments, besides the Property Appraisers Office, would benefit to fly the obliques yearly and Blake Lyon (Development Review Services) and Kelli Levy (Public Works) both mentioned that their departments use the new Pictometry which has better views and functionality. Bryan also stated that we are in a 5 year contract with Pictometry which gives us some option years with no procurement process. LIDAR for the county had been completed by Harris company on March 2<sup>nd</sup>. It has been delivered to Atkins for processing on May 18<sup>th</sup>. Anticipated delivery is sometime in June.</p>

3DEP/USGS Grant Funding Update	
<b>Presenter</b>	Bryan Zumwalt
<b>Discussion</b>	eGIS had put in a request for Grant Funding for the LIDAR that was flown this year. A letter of denial was received on 5/1/2016 denying the request because the 3DEP specification only included "Linear-Mode" traditional LIDAR technology and we chose the Geiger-mode/Single Photon LIDAR. They are currently evaluating their specifications due to this fact.

Arc 10.4 Upgrade	
<b>Presenter</b>	Bryan Zumwalt
<b>Discussion</b>	This summer eGIS will be upgrading all desktops and servers to 10.4. It was mentioned in the May working group meeting that all desktop users, besides those working with Workflow Manager, should be calling the BTS Operations Center and getting the 10.4 upgrade to Arc installed before the summer. When the servers are upgraded to 10.4 this summer, all desktops will have to also be at 10.4 in order to function properly. eGIS will be working with the working group on when this will happen over the summer.

# Minutes

Release 1 – 2016 Projects	
<b>Presenter</b>	Bryan Zumwalt
<b>Discussion</b>	<p>Bryan briefly went over the eGIS Release 1 Projects for 2016. Some questions were raised on certain projects on the release. Blake Lyon asked about the Human Services Public Data Viewer and how we were handling the HIPPA laws. Bryan responded that Human Services are stripping the specific data concerning the HIPPA laws out before handing the data over to eGIS. Joe Borries asked if the Field EOC Operations Viewer was a replacement for the Road Closures application. Bryan responded that this viewer will show road closures as well as work orders from AGILE for Public Works. Questions also arose around the Road Centerline/Address Cleanup project that seems to be overflowing on many releases. Bryan explained the project being that 911 would like to have a routable road network internally instead of having to use a third party. Unfortunately our road centerline and address data are not ready for this and the project would take collaboration between eGIS and 911. It comes down to a business process issue and not a technical issue, which means decisions need to be made by the business. Curt Nielsen asked what the level of effort would be for this project. Bryan responded that it would be large and probably take over a year since it would require a manual review/QA process. Kelli Levy mentioned that they use Synovia for their vehicle routing for Public Works and maybe this could be something that 911 could also utilize for this purpose.</p>

Release 2 – 2016 Project Candidates	
<b>Presenter</b>	Bryan Zumwalt
<b>Discussion</b>	<p>Project descriptions are as follows:</p> <ul style="list-style-type: none"> <li>• Agile/eGIS Integration – Public Works asset data migration to where AGILE work orders and data in eGIS need to stay in sync.</li> <li>• Valve Isolation/Tracking Tool for PCUGIS – an application to be able to define in the field where a pipe has a break and what infrastructure needs to be isolated.</li> <li>• DRS Site Plan Public Viewer (Permits Plus/eGIS Integration) – an application for the public to view status on site plans.</li> <li>• Guardrail/Handrail ArcGIS Collector Application – upon completion of the data migration for the Guardrail and Handrail data, a field collection application will need to be developed.</li> <li>• Stormwater Manual Public Facing Application – a more streamline process for the Public to look at development requirements in a meaningful way.</li> <li>• 911 Dispatch Redundancy – 911 defaults back to Mapguide geocoders in case of a disruptions, need to get them to failover to eGIS.</li> <li>• Sea Level Rise Vulnerability Study/RESTORE Act – work with Public Works and Planning to look at critical infrastructure on sea level rise to make better risk base decisions.</li> <li>• EAM/CityWorks Discovery – anticipating eGIS involvement in the next 6 months.</li> <li>• PCUGIS &amp; WebGIS Training and Documentation – training on new viewers and working on some enterprise ESRI training.</li> <li>• Crime Viewer Crime Category Updates – working with the Sheriff's office to better defined the "undefined" categories in the application.</li> <li>• WebEnforcer/Law Enforcement Security Integration – working towards a one common security login for the Law enforcement applications.</li> <li>• SCADA/eGIS Integration – rolls over from Release 1.</li> <li>• Oracle Financial Integration with CIP/eGIS – mapping out all CIP projects for a need within OMB with financial data integration.</li> </ul> <p>The following 3 slides of the PowerPoint shows the backlog in the eGIS queue. This lists includes the projects on the release as well as smaller projects and/or data maintenance with different county departments. In the past releases, eGIS has gone to this list when extra time appears in the Releases.</p>

# Minutes


Release 2 – 2016 Project Candidates	
<b>Presenter</b>	Bryan Zumwalt
	<p>Pam questioned why was the Road Centerline/Address clean up that was on the Release 1-2016 not carried over to the Release 2-2016 candidate list. Bryan answered that the project has been on multiple releases before with no progress so has put it on hold until we can get with the stakeholder to gather more specific requirements. Pam recommended to find a better way to represent those projects that “drop off” a release or are put on hold. They should definitely be put back on the backlog list, which this particular project had been. The suggestion was also made that at the end of June it is shown which projects in Release 1 have been put on hold or back on the backlog list. Pam was concerned about the function of the Steering Committee as being the advocates for these certain projects compared to the decisions being made by the end users. It was discussed by the committee members that since eGIS is no longer needing guidance about getting off the ground, but more guidance on projects for different departments and/or daily maintenance, there needs to be a different approach to projects than releases. A project pipeline was mentioned as an alternative, with information such as level of effort, timeline and due date as to how the priority is set. It would also include the department readiness for the project. Kelli Levy mentioned it would help for the committee to see this information associated with the project in order to also gauge resource allocation. Joe Borries mentioned that it may benefit to bring up the skill levels of the eGIS team. John Bennett agreed that a new methodology needs to be implemented and that maybe this could be discussed more at the next meeting.</p>

Training & Survey Results	
<b>Presenter</b>	Bryan Zumwalt
<b>Discussion</b>	<p>A survey was sent out by ESRI in March to try and identify gaps/opportunities within the enterprise to enhance GIS skills within the county departments. Over 81 users and/or directors participated in this survey which has helped eGIS work with ESRI on a Strategic Workforce Development Plan. Some of the survey results showed that most of the users use the technology frequently or every day, are either at a novice or intermediate skill level, and are most interested in introduction to GIS, creating maps and spatial analysis. Once the final Plan is developed it will be shared.</p>

Open Discussion/Adjournment	
<b>Item #1</b>	<p>Jill DeGood, Pinellas County Sheriff's Office, asked about the status of the QuickApp application for the Sheriff's office. Bryan responded that the data was loaded from munsys into Arc this morning and that Kristin Preston is working with Cindy Schaer about reviewing the data. Once this is complete, she should be ready to start editing the data in Arc. Deborah Berry requested that the Department of Corrections review the data before releasing.</p>
<b>Item #2</b>	<p>Bryan introduced Susanna Rominger as the new eGIS Project Manager. The previous project manager, Ryan Auclair, is no longer with the county.</p>
<b>Item #3</b>	<p>John Bennett introduced to the Committee and welcomed Randi Kim, the new Utilities director.</p>
<b>Adjournment</b>	<p>The meeting was motioned to be adjourned at 2:40 pm by Pam Dubov.</p>


# Minutes

## Slide Presentation




### Enterprise GIS Steering Committee

June 2nd, 2016



### Approval of Minutes


February 4<sup>th</sup>, 2016 Meeting



### Public Works, Utilities, Solid Waste and Airport eGIS Representation


- Currently no representative on eGIS Steering Committee for Public Works, Utilities, Solid Waste and Airport stakeholders
- Pick Talley, Assistant County Administrator, has requested that Kelli Levy (Public Works) represent the interests of these County departments on the eGIS Steering Committee


### Vote?



### Aerial Project Update

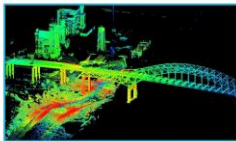
- eGIS has taken delivery of BOTH ortho and oblique aerial imagery from Pictometry
- Oblique imagery available through Pictometry Connect (cloud services) and eGIS Viewers
- Training conducted in April for eGIS Working Group on Pictometry Connect cloud tools (77 attendees)
- QA of ortho tiles being conducted jointly by BTS/PAO






### LIDAR Project Update


- Atkins (Licensed Surveyor/prime) took possession of raw LIDAR from Harris Corporation (Acquisition/subcontractor) for entire County on May 18<sup>th</sup>
- Harris completed LIDAR scan of Pinellas County on March 2<sup>nd</sup>. Flight was delayed from February due to atmospheric/tidal conditions
- Currently anticipating June delivery of survey report and derivative products based on last communication with Atkins (Contours, Digital Elevation Model (DEM), Hydro Lines, etc)





### 3DEP/USGS Grant Funding Update

- Pinellas County LIDAR project NOT recommended for funding
- 3DEP specification only includes "Linear-Mode" traditional LIDAR technology
- Geiger-mode/Single Photon LIDAR currently being "evaluated" by USGS/Woolpert and grant awards for these projects were only given to a handful of applicants



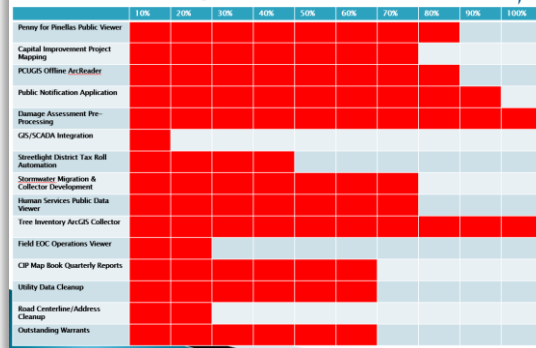
# Minutes

## ArcGIS 10.4 Upgrade

- Currently most County GIS Users on ArcGIS 10.3.1 or below
- eGIS planning to bring ArcSDE (database) to version 10.4 this summer
- Will coordinate with Working Group to ensure all clients are brought to 10.4 before server upgrades



## eGIS Release 1 Projects - 2016



## eGIS Release 2 Project Candidates

Here's what we plan to tackle from now until the end of the year . . .

Project	Requestor(s)	Department
Agile eGIS Integration	Rahim Harji/Lori James	Public Works
Valve Isolation/Tracing Tool for PCUGS	Jeremy Capes	Utilities
DRS Site Plan Public Viewer (Permits Plus eGIS Integration)	Blake Lyon	Development Review
Guardrail/Handrail ArcGIS Collector Application	Lori James/Wendy Taylor	Public Works
Public Facing Fire Hydrant Editing Application	Rick Cody	SES
Stormwater Manual Public Facing Application	Rahim Harji	Public Works
911 Dispatch Redundancy	Jackie Weinreich	SES
Sea Level Rise Vulnerability Study/RESTORE Act ***	Kelli Levy/Chris Moore	Planning/PW
EAM/CityWorks Discovery	Jim Fletcher	BTS
PCUGS Training and Documentation ***	Jeremy Capes/Kevin Becotte	Utilities
WebGIS Training and Documentation ***	eGIS	Countywide
Crime Viewer Crime Category Updates	Jill DeGood	Sheriff
WebEnforcer/Law Enforcement Security Integration	Deborah Berry/Jill DeGood	PCSO/JCS
SCADA eGIS Integration ***	Utilities Engineering	Utilities
Oracle Financial Integration with CIP eGIS	Bill Berger	OMB

## eGIS Backlog (Page 1)

Request	Requestor(s)	Department
Agile Work Request Layer for WebGIS Viewer (Agile eGIS Integration)	Rahim Harji	Public Works
Agile PW Data Synchronization with eGIS (Agile eGIS Integration)	Lori James/Wendy Taylor	Public Works
DRS Site Plan Public Viewer (Permits Plus eGIS Integration)	Blake Lyon	Development Review
Guardrail/Handrail ArcGIS Collector Application	Lori James/Wendy Taylor	Public Works
Water Navigation Marker ArcGIS Collector Application	Wendy Taylor	Public Works
SAP Meter Billing Database Integration/Automation with PCUGS	Stan Pasak	Utilities
Code Red (Reverse 911) API Integration with eGIS	Joe Borries/Stan Pasak	Utilities/EMA
Elevation Certificate Editing Web Map	Rahim Harji	Public Works
Crime Viewer Crime Category Updates (TRD)	Jill DeGood	Sheriff
Street Sweeping Route Digitization into eGIS	Karen Ballard	Public Works
PCUGS Training and Documentation	Jeremy Capes/Kevin Becotte	Utilities
WebGIS Training and Documentation	eGIS	Countywide
Planning Case Map Templates	Ryan Brinson	Planning
Public Works Infrastructure Crosswalks for ESR Local Government Model	Wendy Taylor	Public Works
Valve Isolation/Tracing Geometric Network Functionality for PCUGS	Jeremy Capes	Utilities
Oracle Financial Integration with Capital Projects GIS Data	Jackie Traylor/Jason Rivera	OMB
QuickApp/WebEnforcer Security Integration	Jill DeGood	Sheriff
Crime Viewer - Integration with SPD new Records System	Deborah Berry	Justice
REM Facilities Mapping into eGIS	Keith Royster	REM
Storm Impressions Integration with ArcGIS GeoEvents Processor	Joe Borries	EMA

## eGIS Backlog (Page 2)

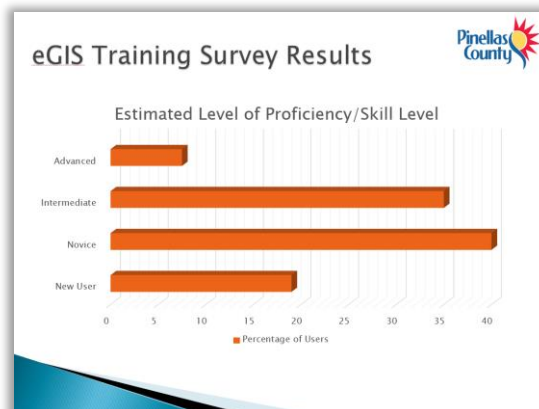
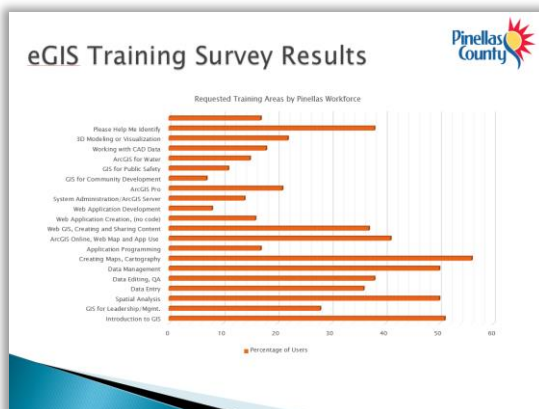
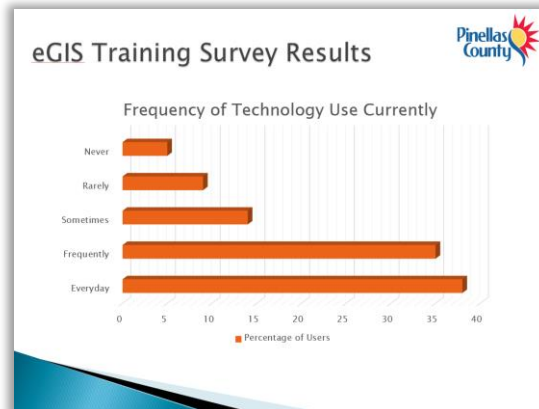
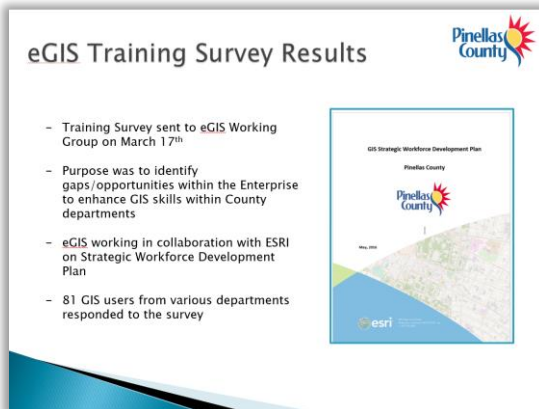
Request	Requestor(s)	Department
T-Minus Application for Emergency Planning	Sally Bishop/John Bennett	EMA
PAIRS Historical Aerial Imagery Digitizing	Countywide	Countywide
Street Centerline Cleanup Project for Internal Routing Services	Jackie Weinreich	SES
Public Facing Fire Hydrant Editing Application	Rick Cody	SES
Intelligence Led Policing GIS Support	Lt. Romanowski	Sheriff
Situational Awareness Initiative	John Bennett	ACA
EAM/CityWorks Scoping/Review Support	EAM Team	BTS
Accro Scoping Review Support	BTS	BTS
Stormwater Manual Public Facing Storyboard/Viewer	Rahim Harji	Public Works
911 Dispatch Redundancy	Jackie Weinreich	SES
Planning Focused GIS Viewer	Gordon Beardslee	Planning
Utilities FOG (fats/oils/grease) Geofence Application	Adam Keith	Utilities
Maximo Service Connection Replication to eGIS	Kevin Becotte/Jeremy Capes	Utilities
ITS/Traffic ArcGIS Workflow Manager Training/OA	Tyson Evatt	Public Works
Sea Level Rise Vulnerability Study/RESTORE Act	Kelli Levy/Chris Moore	Planning/PW
911 Site Address Point Alaising for Dispatch Geocoder	Jackie Weinreich	SES
WebEnforcer Crash Data Integration	John Bennett	Justice
Hydrant Maintenance GIS Viewer Application	John Bennett	ACA
ITS/ITS Fiber Infrastructure Data Management	BTS/Tyson Evatt	BTS/Public Works
Public Works Ditch Consolidation	Rahim Harji	Public Works

## eGIS Backlog (Page 3)

Request	Requestor(s)	Department
Permitted Facilities Migration/Digitizing	Rahim Harji	Public Works
EOC Annual Emergency Exercise Participation	Greg Becker/Joe Borries	EMA
Damage Assessment Training for Municipalities/User Manuals	Greg Becker/Joe Borries	EMA
At-Risk Area Evac Zone Mapping	Sally Bishop	EMA
Land Use/Annexation Activity Updates in eGIS	Alan Shelhorn	Planning
Aerial Ortho/Oblique QA/QC (Joint collaboration with Property Appraiser)	Countywide	Countywide
Street Centerline/Range Modifications in eGIS	Mark Whitty	SES
MSTU Streets Public Viewer/Updates	Dawn Lindgren	Public Works
WebGIS Integration with WebExtender	Shirley Zeller	Survey
Supervisor of Elections Redistricting Data Updates	Marc Gillette	SOE
Animal Services Spatial Analysis/Hotspot Mapping	Doug Brightwell	Animal Services
Bicycle/Pedestrian Hotspot and Traffic Incident Analysis	John Bennett/Rodney Chatman	ACA/MPO
PCR Emergency Mapping	Nancy Iannotti	PCR
Synovia AVL Integration with WebGIS Viewer	eGIS	Countywide



# Minutes



### Open Discussion



# Minutes



## United States Department of the Interior

U.S. GEOLOGICAL SURVEY  
12201 Sunrise Valley Drive  
Reston, Virginia 20192

5/1/2016

Bryan Zumwalt  
GIS Manager  
400 S. Ft. Harrison Ave  
Clearwater, FL 337565

Dear Mr. Zumwalt,

Your application submitted in response to U.S. Geological Survey Broad Agency Announcement for 3D Elevation Program, G15PS00558 / G15AS00123 for Pinellas County, Florida – QL1 Lidar Acquisition has not been recommended for FY16 funding by the peer panel that evaluated the proposals.

We understand and appreciate your interest in the Geiger Mode Lidar. While the technology shows promise, the USGS has not yet made a determination that data acquired via Single Photon and/or Geiger Mode technologies is suitable for use by the 3D Elevation Program.

The 3D Elevation Program (3DEP) is a national program managed by the U.S. Geological Survey (USGS) on behalf of the partner community, to acquire nationally consistent high-resolution 3D elevation data. The primary goal of the cooperatively funded program is to complete national coverage of lidar for the conterminous United States, Hawaii, and the U.S. territories; and ifsar for Alaska in 8 years.

In order to achieve this ambitious goal 3DEP must continually and proactively investigate new technologies (such as the Geiger Mode) that have the potential to meet the documented specifications, requirements, and benefits of the program at a lower cost. To that end 3DEP is currently in the process of reviewing data from Geiger Mode and Single Photon Counting systems through a test project contracted via the USGS Geospatial Products and Services Contracts (GPSC). The assessment is designed as a first step to determining how well the new technologies meet 3DEP requirements and compare to the USGS Lidar Base Specification.

The assessment is ongoing and no formal conclusions have been reached, however it is immediately clear that Geiger Mode and Single Photon Lidar systems do not meet the USGS Lidar Base Specification, as that specification was written to specifically address linear mode lidar. Required attributes such as multiple returns, specified scan angles, and flagging overlapping



# Minutes

points, were based on evaluating linear mode systems that collect data in a specific and different manner than the newer technologies under assessment. Based on our understanding of lidar applications, these differences in collection mechanics would not necessarily impact the majority of uses and associated requirements identified in NEEA. The primary attributes of concern to users are the densities of the points, and their associated accuracies. Initial review of the two independent contractor reports shows that in non-vegetated areas, point densities greatly exceed the requirement to meet the QL2 specification for that attribute, and the vertical and relative accuracies also meet 3DEP requirements. However, concerns remain about point densities and vertical accuracies under dense vegetation.

3DEP is conducting its own independent review of the data to confirm this and/or to identify any additional issues. In the meantime, the technology is showing enough potential to warrant additional testing and the development of next steps. The USGS is supporting a limited number of GPSC acquisitions making use of these technologies. By allowing for a limited set of incubator collections across the country, 3DEP can continue to learn about, adapt to, and help these systems come in to full compliance with our specifications, while still achieving our requirements and objectives in our current budget and timeframes.

If Pinellas County would like to delay your acquisition until such time as a policy and guidelines on the appropriate uses of these technologies to support 3DEP have been developed, the program would be happy to reconsider your proposal. However, the required policy and operational adjustments needed to support said policy WILL NOT BE IN PLACE FOR THE 2016 FLYING SEASONS.

The 3DEP program is a multi-year initiative with the goal of national coverage; therefore, your proposed project area is of interest to us. The 3DEP program appreciates your interest in collaborative work and encourages your future participation. If you require additional information the Contracting Officer can be reached at 703-648-7341 or by e-mail at [vfloyd@usgs.gov](mailto:vfloyd@usgs.gov).

Should you have additional questions please do not hesitate to ask.

Sincerely,



Victoria Floyd  
Contracting Officer