GIS Colorado 2014 Summer Quarterly Meeting - Friday, July 25, 2014
The Buena Vista Community Center – 715 East Main Street

Hosted by the Town of Buena Vista
Dee Miller, bvplanning@buenavistaco.gov

Morning Session   8:30 am-12:00 pm

8:30-9:00 am	**Registration** – Coffee, juice, pastries, etc. (Sponsored by CompassTools)
9:00-9:30 am	**Greeting, business announcements – *Frank Orr – GISCO***
9:30-10:00 am	**State of Colorado GIS Data Activities and Services** *Nathan Lowry – Colorado OIT -* nathan.lowry@state.co.us *Summary:* GIS coordination within state government in Colorado is getting some legs to stand on. Particularly, three sites that provide access to GIS data held by the state: • Colorado Information MarketPlace https://data.colorado.gov • Colorado GeoData Cache https://geodata.co.gov • State GeoShare https://gisftp02.state.co.us These and other technical capabilities including web map services, Google Groups distribution lists, and data.colordo.gov micro-sites which assisted in the state's response to catastrophic flooding and are now being managed and maintained for day-to-day use. Finally, state funding for positions for broadband mapping and the specific interest of Governor Hickenlooper will assure that such capabilities and coordination will further grow and organize.
10:00-10:45 am	**Pitkin Outside** *Mary Lackner – City of Aspen -* mary.lackner@cityofaspen.com *Summary:* Pitkin Outside is a website and mobile web app that features recreational opportunities in Pitkin County. Built by our consultant, GreenInfo, the application enables users to select uses (hiking, biking, dog walking, river access), season (winter vs. other), location, trail profiles, user selected routes downloadable as .gpx files and offline access to maps to find access points to these outdoor activities. Working with data from seven different entities, creating five new data layers, updating a trails layer that had only been used for the spatial location and trail name field, and communicating the need for data completeness and consistency, the AspenPitkin GIS Department put significant effort into the data layers to support this project. A summary of the project, challenges and opportunities we encountered will be presented.
10:45-11:00 am	**Break**
11:00-11:30 am	**How to Move IT to the Cloud or Leveraging Arc Server and ArcGIS Online** *Cindy Jones – Park County -* CJones@parkco.us *Summary:* Request to build a GIS system that would provide critical infrastructure data readily available to 911 Dispatch, Fire, EMS and law enforcement personnel at both stationary terminals and mobile applications came about in late summer of 2014. The system was to use current local data providing both geo-coded information as well as property ownership and valuation data. In addition, the proposed system would allow for public access online to view accurately mapped evacuated areas or areas affected by fire or other emergency while the incident is occurring. Due to the multiple data layers available with a GIS system; location of homes, structures and outbuildings on the property, terrain, accessibility and other unique data was to be quickly accessed by many users with different devices. Additionally, the proposed system was to be used to update the current Computer Aided Dispatch GIS system used in the dispatch center with current and correct address and roads data to mirror what is available to responders in the field. With limited resources and a tight time line we were able to set up a system that was accessible to many as well as easy to control and maintain as requests and trends change. With the need for some data to be public and some to be accessible only by few, ownership of the maps and data was crucial and needed to be maintained from desktop and viewed in web based environment. This presentation shows the ArcGIS Server and ArcGIS Online Hybrid Application used, where we started, and where we are going.

11:30-12:00 pm	**Surveyors and GIS Geeks – What We Need to Know About Each Other** *Alyssa Martin, GISP – HDR -* Alyssa.Martin@hdrinc.com *Summary:* Coming Soon!

12:00 – 1:15 pm	**Lunch – Provided by Esri**

Afternoon Session   1:00 pm - 3:00 pm

1:15-2:00 pm	**Measuring Data Quality of State-wide Address Location Data** *Nathan Lowry – Colorado OIT -* nathan.lowry@state.co.us *Summary:* International Standards Organization Technical Standard (ISO/TS) 19157 Geographic information – Data quality provides a rubric for measuring spatial data quality comprehensively. The Colorado State Address Working Group has adopted an ISO 19157 strategy to prove the concept of comprehensive address point data quality. A data quality element from each category has been selected for measure. A sampling of Denver Public Schools (DPS-1) address point data was field collected for verification and quality measurement in October 2013. This presentation provides the results of that activity, and describes the processes used to sample, collect, and measure the quality of the data.
2:00-2:30 pm	**From Sensor to Solution: Processing and Delivering Massive UAS Geospatial Data** *Genie Hays – LizardTech -* ghays@lizardtech.com *Summary:* As we move toward broad- scale adoption of professional grade UAS', abundant, frequently-collected and voluminous UAS data sets will be commonplace. Systematic, reliable, repeatable and readily-available methods of image compression will be in high demand. Existing commercial grade image compression tools are available to the UAS community. These typically take advantage of wavelet compression, an advanced way of efficiently organizing image information to conserve storage space and accelerate transfer and display. This presentation will (1) suggest thresholds and use cases when compression of UAS datasets is advantageous (2) discuss the feasibility and applicability of near real-time and real-time UAS delivery (3) describe what data formats are compressible (4) present practical compression ratios that can we achieved, (5) communicate small business opportunities for incorporating data compression into their workflow and (6) predict future anticipated advances for UAS Image compression and subsequent image transfer and management.
2:30 – 3:00 pm	**Generating Transit Station Walksheds using Network Analyst** *Andrea Santoro – City and County of Denver -* santoro.and@gmail.com *Summary:* Coming Soon!
3:00 pm	**Closing and Acknowledgments –** *Frank Orr – GISCO*

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