

# Denver Regional Aerial Photography Project 2014



## Minutes

**Wednesday, April 24 - 2:00pm to 3:30pm**  
**DRCOG~1290 Broadway~Denver 80203**  
**1st floor Wolf Creek Pass Conference Room (east side)**

### Attendees:

- |                       |                   |
|-----------------------|-------------------|
| 1. Kirk Hayer         | Commerce City     |
| 2. Paul Tessar        | Denver            |
| 3. Doug Genzer        | Denver            |
| 4. Kevin Brown        | Glendale          |
| 5. Jeff Caldwell      | Castle Rock       |
| 6. John Voboril       | Englewood         |
| 7. Mark Mullane       | Boulder County    |
| 8. Jack Cornelius     | Greenwood Village |
| 9. Derek Stertz       | Centennial        |
| 10. Brenda Reum       | Denver Water      |
| 11. Kathleen Crawford | Denver            |
| 12. Brian Davis       | Arvada            |
| 13. Dave Murray       | Westminster       |
| 14. Deb Wilson        | Thornton          |
| 15. David Dixon       | DIA               |
| 16. Dan Jackson       | RTD               |
| 17. Deb Jenkins       | Erie              |

### Meeting Materials for Reference:

APR 2013 Agenda.docx  
APR 2013 Handouts.pdf  
APR 2013 Presentation.pdf

**Objective:** Ballpark budgets and high-level requirements gathering for DRAPP 2014

### Discussion Points:

- **WMS/WCS**
  - No quote was provided for the WCS, but we all agreed it would be more than the WMS. No comment was made as to the utility of desire for a WCS. I intend to include it as an option on our WMS RFP just to get a quote to see if it's worth pursuing.
  - There was general agreement amongst member governments that WMS is significantly less useful after the actual tiles are delivered. To support emergency services and other critical business needs, no dependence on the internet or external hosting companies is allowable. Most members will continue to create their own services.

## Questions?

If you have any questions or comments about DRAPP, please contact DRCOG GIS Manager Ashley Summers at [asummers@drcog.org](mailto:asummers@drcog.org) or 303-480-6746.



- Everyone should get the interim WMS until actual tiles are deliverable. There was a suggestion that WMS access after that would be subscription only.
- Continued hosting of historical DRAPP imagery via the WMS was desired.

## • LIDAR

- In response to "how would we use LIDAR data?"
  - Vegetation Mapping - Boulder County
  - Centennial would prefer a derivative product rather than raw LIDAR
  - Denver would prefer ground vs. unclassified at a point density capable of producing 1ft contours
  - A derivative product is desired - either 1ft or 2ft contours (1ft was preferred by a few)
- In response to "when should LIDAR be collected?"
  - There was general agreement that if LIDAR is collected this year, it should be used to orthorectify the imagery. To ensure the imagery is not delayed, LIDAR would need to be collected in the fall and winter.
  - Since LIDAR cannot be collected in the snow, we need a several month window in order to capture about 25 flight days worth of LIDAR.
- Other comments:
  - Post-processing is more expensive than the capture
  - LIDAR acquisition would be "all or nothing." For this particular add-on, it is not feasible to fly only small parts of the region based on member needs (like with the 3 in option). This is because the LIDAR would be used for orthorectification of the imagery. (An exception to this might be the Eastern Plains since the need for a new DEM and a 1 ft contour derivative product in this area may not be necessary).
  - There is no desire to acquire LIDAR every year, so if added in 2014, it should not be seen as setting a precedent.
  - We should review the USGS LIDAR specs from 2008.

## • 3 in

- In response to "how would we use 3in data?"
  - Impervious Surface Mapping - Denver Water
  - All sorts of things across the board - Denver
- In response to "discuss the benefits and drawbacks of 3in."
  - Usage of the 2010 data is 4x that of the 2012 in Denver, signifying that the 3in data is a much desired product
  - We got burned with the vendor in 2010, so perhaps a different vendor would perform better.
  - We learned in 2010 not to process the 6in data out of the 3in.
  - How much storage space is required for the 3in area? This could be a drawback.
- In response to "what are our requirements with the 3in?"
  - In terms of getting bids, we only need about 500sqmi.
  - We should weight the cost towards entities within the 3in area of acquisition. Other entities will not be required to shoulder the cost of this option.

## • Planimetrics

- We are all in agreement that planimetrics are cost prohibitive for the consortium. However, we should attain products/deliverables that allow members to pursue products like planimetrics on their own.

## • Obliques

- In response to "would obliques be useful to anyone?"
  - Boulder County would like them; they currently purchase from Pictometry.
  - Adams County already purchases obliques and shares with their cities, so none of these members would need an oblique deliverable from DRAPP.
- Other comments:
  - A pilot project or sample would be required since it is unknown how good vendor technology is currently.

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- **RFP**

- In an effort to get LIDAR quotes from vendors in time to have them starting flying in the fall, we decided to try to get the imagery + options RFP out the door as soon as possible.
- The Imagery RFP will include options for LIDAR and 3in acquisition.
- It will be specified that it is preferable that the collected LIDAR be used in the orthorectification of the imagery and that imagery delivery cannot be delayed by LIDAR processing.
- The current plan is for the RFP to be drafted in May and released in June.
- If a vendor is selected for LIDAR acquisition beginning in the fall, approval for the vendor should be attained at the August 21st DRCOG Board Meeting.

- **Other thoughts:**

- What about doing DRAPP every three years instead of every two?
  - That would make budget people happy.
  - If we make sure we align with the next decennial census, that could be useful. (Acquisitions in 2014, 2017, 2020)
  - Might have a been idea in slow years, but now that development has picked up, it's better to have imagery every 2 years.

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