

DRAPP 2014



DENVER REGIONAL COUNCIL OF GOVERNMENTS

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Agenda

- ◆ **DRAPP 2014 Progress Report**
- ◆ **DRAPP 2014 Schedule**
- ◆ **FEMA/USGS LIDAR Project Progress Report**
- ◆ **LIDAR Training Workshop**
- ◆ **Regional Planimetrics Discussion**

We have call-ins today. Speak into your microphones so they can hear you.

Progress Report

- ◆ All mountain flights were completed by July 3rd
- ◆ Pilot imagery from the spring flights has been delivered to IntraSearch and is being reviewed.

Thanks to those that shared color balance/tone info.

Schedule

- ◆ Interim imagery in WMS: Aug 1
- ◆ Pilot imagery in the WMS: Sept 1
- ◆ Final imagery in the WMS: Dec 1
- ◆ Final imagery tiles delivered: Jan 1
- ◆ Final invoices sent: Dec/Jan

2014 Challenges

- ◆ More partly cloudy days than 2012
- ◆ Lingering snow cover
- ◆ Airspace access and additional flight time for 3in imagery
- ◆ AGPS/IMU sensor issue

Interims in the WMS

- ◆ More flights and re-flights meant less time to work on accuracy of interim
- ◆ Didn't have time to use LIDAR for interim b/c wasn't delivered until early June

LIDAR Delivery Schedule

- ◆ USGS performs QC 7/31
- ◆ Quantum responds to QC review 8/30
- ◆ Delivery to DRCOG 9/30
- ◆ Delivery to Partners via DRCOG 10/15

LIDAR Workshop

- ◆ **What: LIDAR Workshop with hands-on training time + workbook with step by step instructions**
- ◆ **When: Nov 12th**
- ◆ **Where: Training Lab at ESRI in Broomfield**
- ◆ **Who: 15-20 people**
- ◆ **Topics: LAS datasets, mosaic datasets, 3D analysis**
- ◆ **Data: Oregon, Washington, AND exercises specifically with DRCOG LIDAR**
- ◆ **...and IT'S FREE.**

Planimetrics Goals and Priorities

- ◆ New capture
- ◆ Regional extent
- ◆ Standardized Schema
- ◆ Streamlined future updates

◆ Prioritized Features

1. Building Footprints
2. Edge of Pavement
3. Parking
4. Sidewalks
5. Driveways
6. Hydro

Planimetrics Timeline

- ◆ Determine project scope & cost 8/27
- ◆ Seek DRCOG Board approval 9/17
- ◆ Write the Scope of Work 11/25
- ◆ Execute the Contract 1/30
- ◆ Work begins 2/1
- ◆ *Note: We can sole-source because of the current contract language with Kucera.*

Planimetrics Methodology

Method	Advantages	Disadvantages
Alt 1: Full Stereo Capture	Accurate horizontal positioning; most thorough capture; supports 3D polygon features	Highest cost; offset from building lean in orthos
Alt 2: Ortho Digitizing from 2D	Reduced cost; match of features with their ortho representation	Less horizontal accuracy and thoroughness; obscured features due to building lean; no 3D
Alt 3: Hybrid (stereo buildings, digitizing for other features)	Reduced cost while maintaining correct structure placement	Less accuracy with the digitized features.


2

1

4

Planimetrics Next Steps

- ◆ Tell me if you want to participate.
- ◆ Tell me your preference on methodology and features to include (Alternative and add-ons).
- ◆ Tell me your approximate budget.
- ◆ Tell me the extent that you are interested in.
- ◆ I will quote you.



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