

# DRAPP 2014



DENVER REGIONAL COUNCIL OF GOVERNMENTS

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*We make life better!*

# Agenda

- ◆ **2014 Project Stats**
- ◆ **2014 Successes and Challenges**
- ◆ **2014 Lessons Learned – The Highlight Reel**
- ◆ **Results from the Survey (+ comparison to 2012)**
- ◆ **Brainstorming for 2016**

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

# 2014 Project Stats

## ◆ Who's involved?

- ◆ 50 Partners
- ◆ 8 DRCOG Member Counties
- ◆ 28 DRCOG Member Cities/Towns
- ◆ 14 Regional Partners

## ◆ What did we get?

- ◆ 711 sqmi – 3in resolution 4-band imagery
- ◆ 3,002 sqmi – 6 in resolution 4-band imagery
- ◆ 3,174 sqmi – 1ft resolution 4-band imagery

# 2014 Successes

- ◆ Added 3in data
- ◆ Maintained or lowered costs
- ◆ Maintained participation

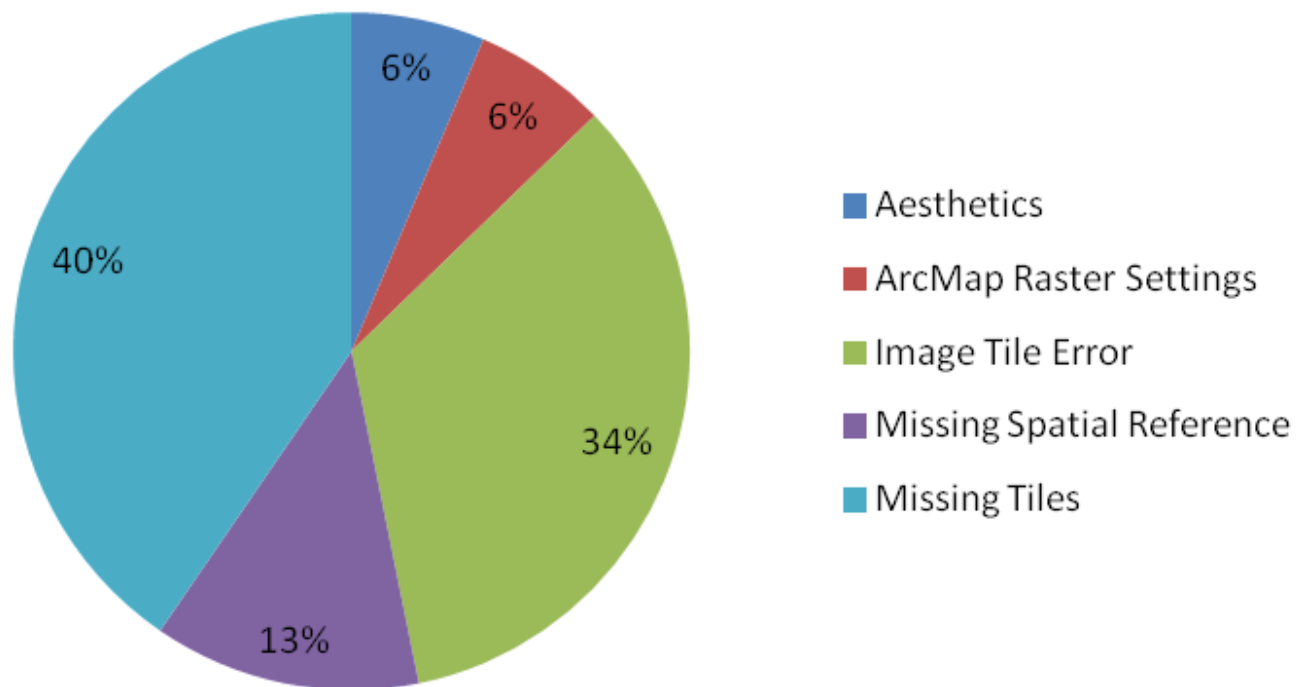
# 2014 Challenges

- ◆ Difficult weather impacted flight windows and quality of interim imagery
- ◆ Lots of tiles to process and lots of complicated orders – hard to stay on time
- ◆ Delay with the final WMS –available today!
- ◆ Order Issues
- ◆ Color complaints

# Outstanding Issues

- ◆ **North projection offset due to new ArcGIS procedure**
  - ◆ Imagery must be reshipped.
  - ◆ If no color adjustment – by end of next week
  - ◆ If color adjustment (chosen today) – by March 11
- ◆ **Color anomaly at Buckley – must be re-flown ASAP**
- ◆ **3 tiles still have QC issues**
  - ◆ delivered this morning to IntraSearch to be re-checked.
- ◆ **Other reshipments (various reasons)**
  - ◆ Shipping from DRCOG or Kucera in the next two weeks.

# Most Common Issues



# Why so many QC problems?

- ◆ IntraSearch checks every tile of the “master” dataset (one projection and one format).
- ◆ Most errors occur in a batch process to create, cut, and copy all the other projection and format combos. (This is why the North Projection offset was caught by you all and not them).
- ◆ Kucera shipped data before final approval was granted by IntraSearch. (They received the review, thought they fixed the errors, and shipped before IntraSearch confirmed).

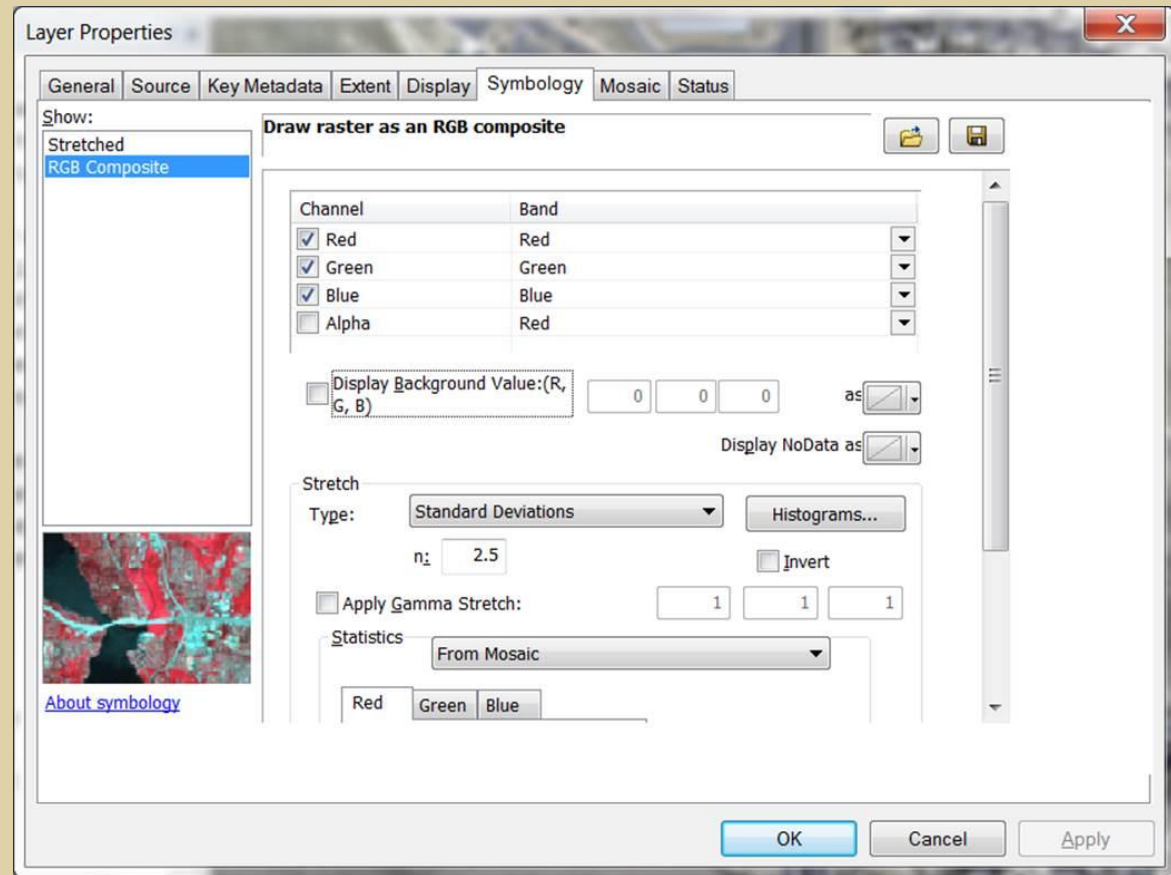


# Thoughts on Color

- ◆ Variable due to changes in resolution, weather, flight date/time
- ◆ Comparison to previous years – what does that mean?
- ◆ Need feedback and examples
- ◆ Changes to specs?
- ◆ Color Committee in 2016?

# Suggestions for Adjustment

- ◆ Standard Deviations
- ◆ Transparency settings



# 2014 Lessons Learned

- ◆ **Need to decide on color preferences beforehand as a group.**
- ◆ **Need to clarify specs with vendor. (JPG vs. JPG-compressed TIFF)**
- ◆ **Need a better data delivery system. Shipping 50+ external hard drives is difficult.**

# 2014 Survey Results

Survey Results	2012	2014
Number of Respondents	17	18
How would you rate your overall experience with DRAPP?		
Very Good	59%	33%
Good	41%	45%
Fair	0%	11%
Poor	0%	11%
How would you rate the DRCOG management of DRAPP?		
Very Good	76%	67%
Good	24%	22%
Fair	0%	11%
Poor	0%	0%
Do you think the cost of DRAPP to your jurisdiction was:		
Reasonable	94%	100%
Somewhat high	6%	0%
Much too high	0%	0%

# 2014 Survey Results

Survey Results	2012	2014
How would you rate the quality of the product you received?		
Very Good	76%	22%
Good	18%	39%
Fair	6%	17%
Poor	0%	22%
How would you rate communication from DRCOG?		
Very Good	71%	67%
Good	29%	28%
Fair	0%	5%
Poor	0%	0%
How would you rate the timing of product delivery?		
Very Good	41%	6%
Good	41%	44%
Fair	12%	22%
Poor	6%	28%

# Questions or Comments?

# 2016 DRAPP Brainstorm

- ◆ Imagery as a Service – Google + Sanborn
- ◆ Pictometry
- ◆ Alternating years
  - ◆ Split the region by projection
  - ◆ Split the region by resolution
  - ◆ Other splits?
- ◆ Simplification of Deliverables
- ◆ Other options?? *Add your own suggestions to survey this afternoon*

# Imagery as a Service

- ◆ **Basic Idea:**
  - ◆ **Google serves up 6in imagery**
  - ◆ **Sanborn acquires custom imagery in select locations**
  - ◆ **Sanborn manages data delivery**

Pro	Con
Frequent updates (every year for urban)	Google image quality
Stratified valuation of tiles	No control over Google flight window or specs
Fast and reliable WMS services from Google	Must pay a partnering vendor (Sanborn) to provide custom data
Google's imagery delivery is 60 days from flight	Must pay a partnering vendor (Sanborn) to deliver tiles
May be opportunity to partner with the state (lower costs?)	QAQC?



# Pictometry

- ◆ **Basic Idea:**
  - ◆ **All DRCOG Counties are buying it already.**
  - ◆ **We consolidate the contracts and funnel all the funding to this one initiative.**
  - ◆ **Everyone gets 3in urban and 9in rural orthos and 4-way obliques.**

Pro	Con
Established relationship	A lot of contracts already active (some out of sync with preferred capture year)
Nice oblique and measuring product	Not sure about the quality of the ortho product
Economies of scale	Still too expensive?
Can accommodate custom downloads	QAQC? (Dewberry)
Delivery is 60 days from flight	

# Split Project/Alternating Years

## ◆ Basic Idea:

- ◆ Break the project up into smaller pieces, either by splitting by location, projection, or resolution etc.

Pro	Con
More manageable projects where deadlines are more likely to be met	Increased need for coordination and project management
	How to decide the split? Does each new section get to pick a completely different method or no?
	The full region may never be color-matched again.
	Funding - how do we split the cost and time the funding?

# Simplify

- ◆ **Basic Idea:**

- ◆ **Remove options so the delivery is easier (e.g. only one format and one projection).**

Pro	Con
Easier for vendor to deliver on time	Unlikely to meet partner needs

# 2016 Planning

## ◆ RFI to get quotes/proposals?

- ◆ RFI Released by 3/20
- ◆ Response by 4/13
- ◆ DRAPP Meeting with quotes and scenarios on 4/23?

## ◆ Kick-off meeting = 4/23

## ◆ Budget estimates: what are your deadlines? April?

- ◆ Note: Losing an underwriter in 2016 - USGS

# Questions?