

National Aerial Imagery Program Update

TIMBER MEASUREMENTS SOCIETY, CENTRAL
MEETING, APRIL 4th, 2018,
COEUR D'ALENE RESORT, COEUR D'ALENE, IDAHO

By Mike McGuire
Principal, Ascent GIS, Inc



- **Founded in 1998 Ascent GIS is now in our 20th year providing GIS services and GIS Content to our valued customers.**



- What We Offer

GIS Services	Content Services
<ul style="list-style-type: none">• GIS Database Design• GIS Implementation• GIS Cloud• GIS Analytics• GIS Enterprise• GIS Planning• GIS Programming• GIS Application Development• GIS Software Sales (esri)• GIS Open Source• GIS Hosting Services	<ul style="list-style-type: none">• High Resolution Imagery Streaming• Aerial Imagery (New)• Mobil Scanning• LiDAR• Hard Pixels• Imagery Processing• Imagery Consulting• Vector Data• Satellite Acquisition• Imagery Analytics• Drone Collection

Our Partners



OPEN RANGE CONSULTING





**Quick
Update on all National Aerial
Programs**



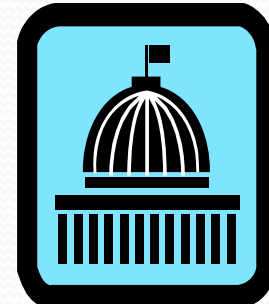
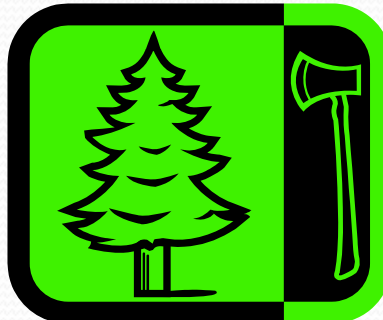
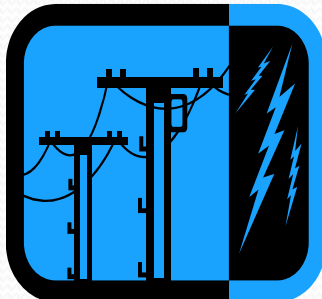
National Imagery Programs

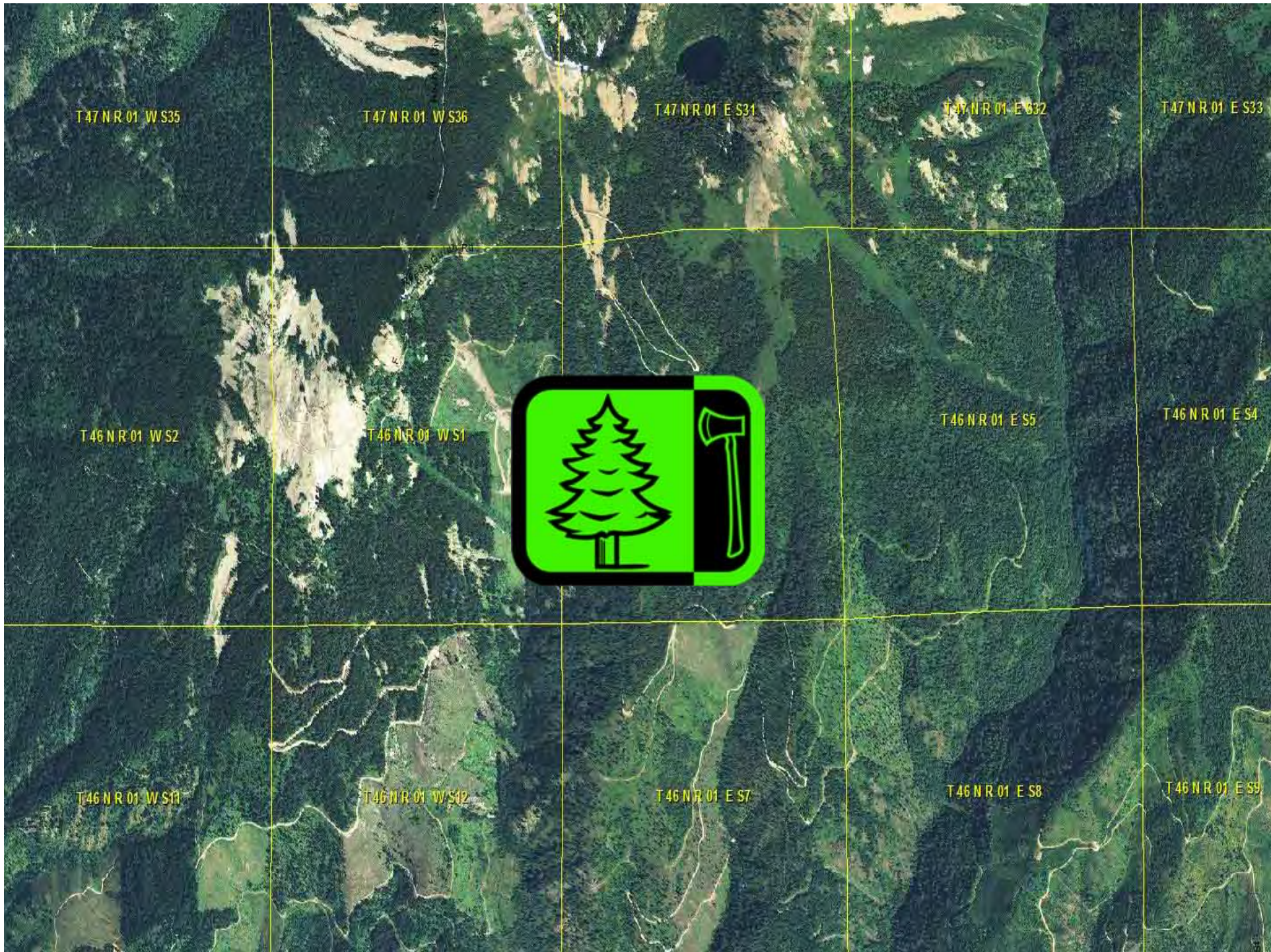
- USGS
- NAIP
- Airbus Defense and Space
- Digital Globe
- Hexagon
- Google
- Others – Dove Satellites



HEXAGON
IMAGERY PROGRAM

Ascent GIS







National Agriculture Aerial Program (NAIP)

- Program Overview
- Program Health
- Program Future



What is NAIP?

- The Nation Agriculture Imagery Program (NAIP) acquires aerial imagery during the agricultural growing seasons in the continental U.S. A primary goal of the NAIP program is to make digital ortho photography available to governmental agencies and the public within a year of acquisition.

NAIP 1 Meter Color and CIR

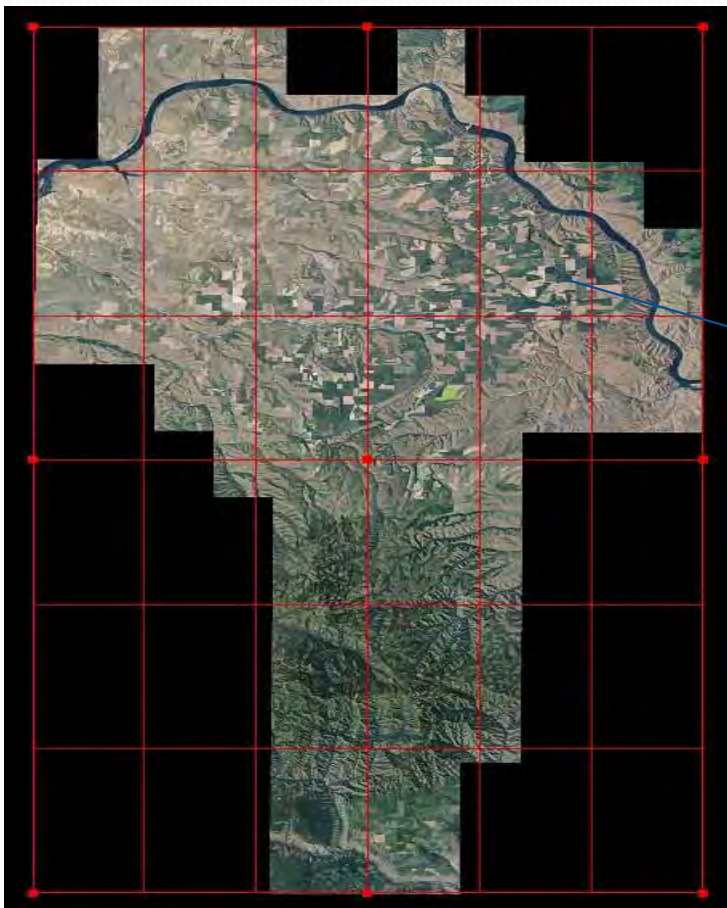




National Agriculture Aerial Program (NAIP) Products

- CCMs
- DOQQs
- Streaming Service

Compress County Mosaic (CCM)





CCMs

- MG3.SID Format
- Compressed @ 15 : 1 Ratio
- RGB
- UTM Projection
- Very Popular
- Some Problems



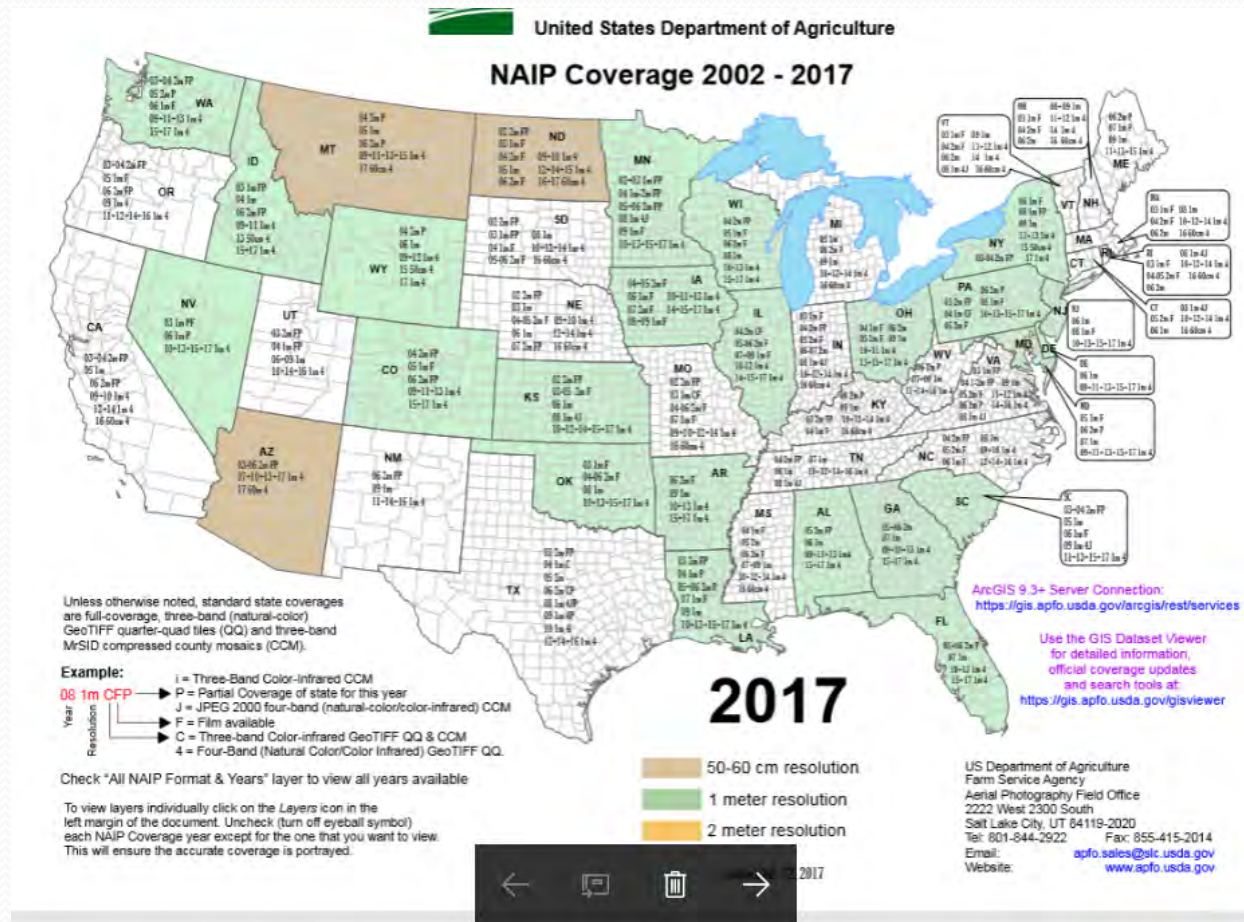
DOQQs

- Original GeoTiff Format
- Three –Six Months Following Inspection
 - Larger File Size
- Value Added Production Benefits
 - Image Integrity

DOQQ Grid



NAIP Archive





Program Health

- Federal Funding Partners
 - Farm Bill
- State Partners



NAIP Future

- Products

- Resolution
- 4 Bands

- Funding

- Federal ?
- Possibly State and Local



What Stays The Same 2018

- Flying Seasons determined by FSA
 - <10% cloud cover
- Deliverables available approximately 45 days after flying season
 - Compressed County Mosaics (CCMS)
 - -3 band MG3 format
 - Uncompressed Quarter Quads
 - -GeoTIFF format
 - -3 band and 4 band
 - Absolute Horizontal Accuracy Specification
- -6 meters from “true ground” position or better



Questions





Contact

- Mike McGuire
- Ascent GIS, Inc.
- 915 West 2nd Ave. Suite #5
- Spokane, WA 99201
- Voice: 509-747-2495 Ext 14
- Cell: 509-995-2961
- mikem@ascentgis.com
- www.ascentgis.com



Hexagon Imagery Program

Who is Hexagon

- Connected to NAIP
- Leading NAIP Contractor
- Their Program is Healthy

Products

- One Foot RGB/CIR – Six Inch Urban Area
- Streaming Service & Hard Pixels (\$9 & \$16 per sq mi)
- Store Front



Airbus Defense and Space

Satellite Program

- Speculative Collect (no risk)
- RGB/CIR
- .5 Resolution & 1.5 Resolution



Where is it All Going?

- **Resolution vs Reoccurrence**
 - **Dove Satellites**
 - **Drones**