

National Orthoimager Programs

Fact and Fiction

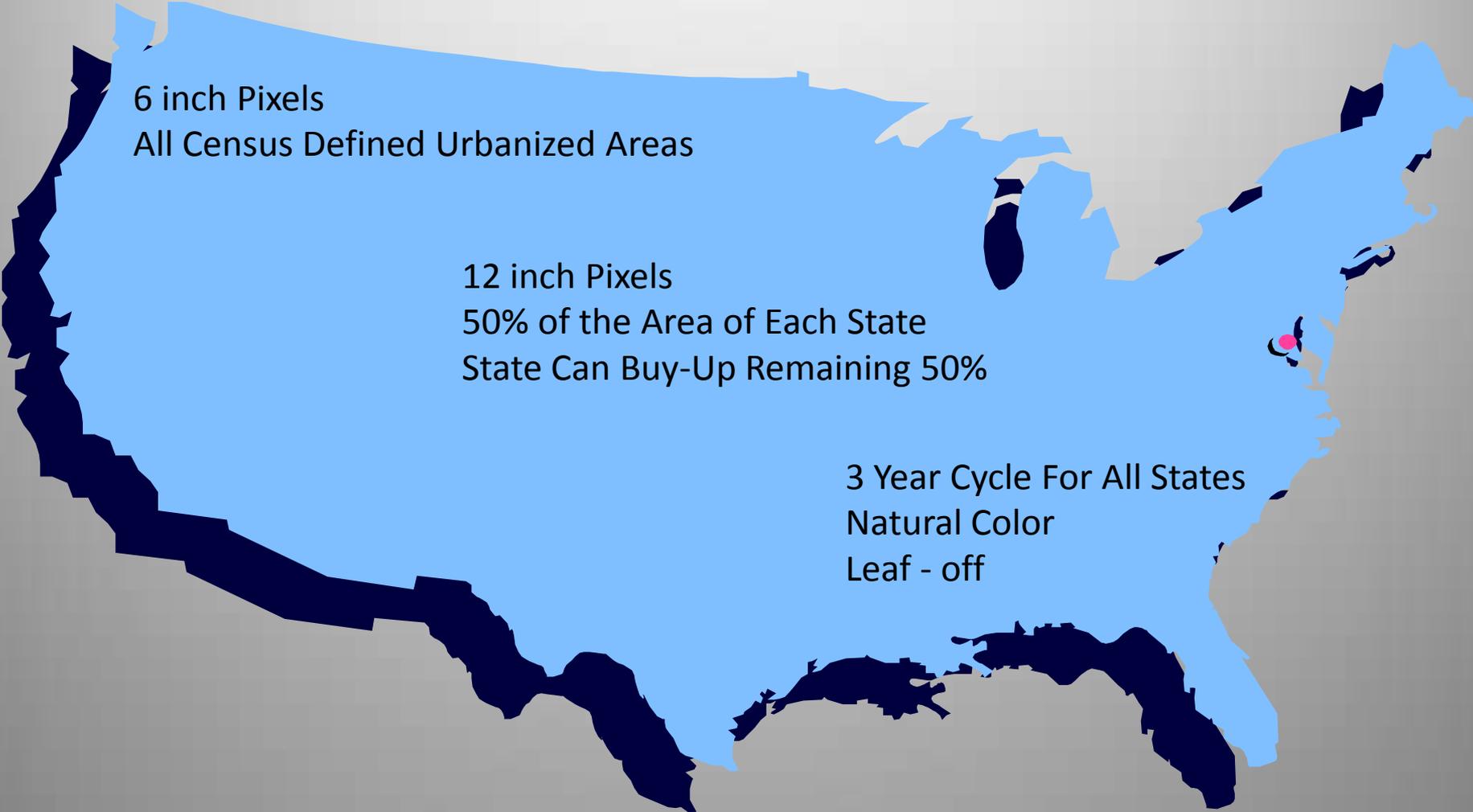
Dave Brotzman

VCGI

NSGIC Imagery For The Nation

- NSGIC – National States Geographic Information Council
- Created Imagery for the Nation (IFTN) Initiative
- National In scope (including AK and HI)
- Federally Coordinated and Funded
- Different Acquisition Specifications Based Upon Population

Imagery For The Nation



6 inch Pixels
All Census Defined Urbanized Areas

12 inch Pixels
50% of the Area of Each State
State Can Buy-Up Remaining 50%

3 Year Cycle For All States
Natural Color
Leaf - off

So Where Does IFTN Stand Today?

- No Collection To-Date
- Estimated Cost \$1.38 Billion for 10 Year Cycle
- Estimated Savings \$120 Million (10 Year)
- Federal Government Can't Agree on Who Will Manage
- Private Sector Sees Their Own Opportunities In Other Models

National Agricultural Imagery Program

NAIP

- Managed By US Dept. of Agriculture
- National Image Program For FSA
- Allows Up To 10% Cloud Cover
- Does Allow Buy-Ups for States
 - Color Infrared
 - ½ Meter pixels

NAIP Specifications

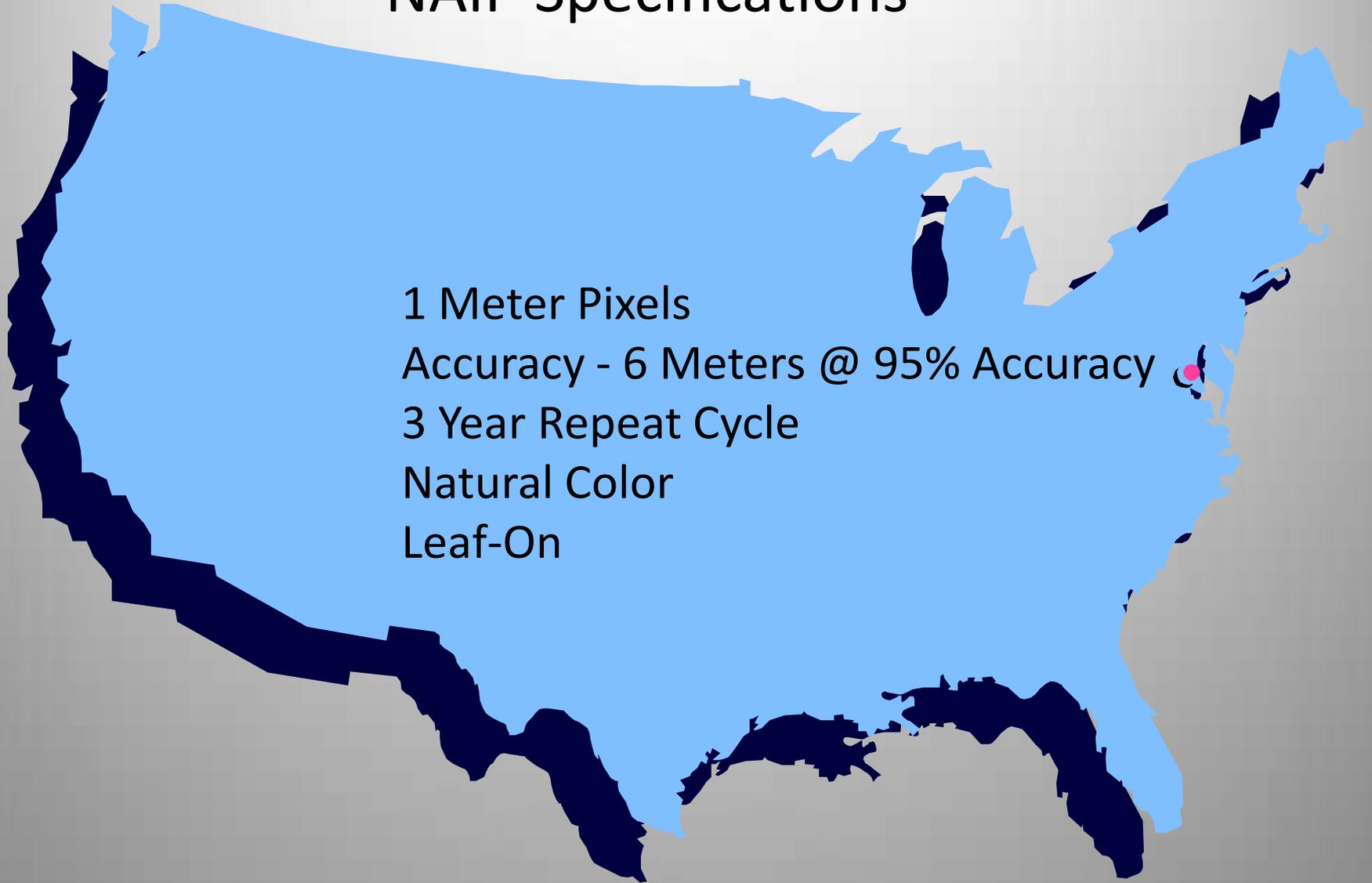
1 Meter Pixels

Accuracy - 6 Meters @ 95% Accuracy

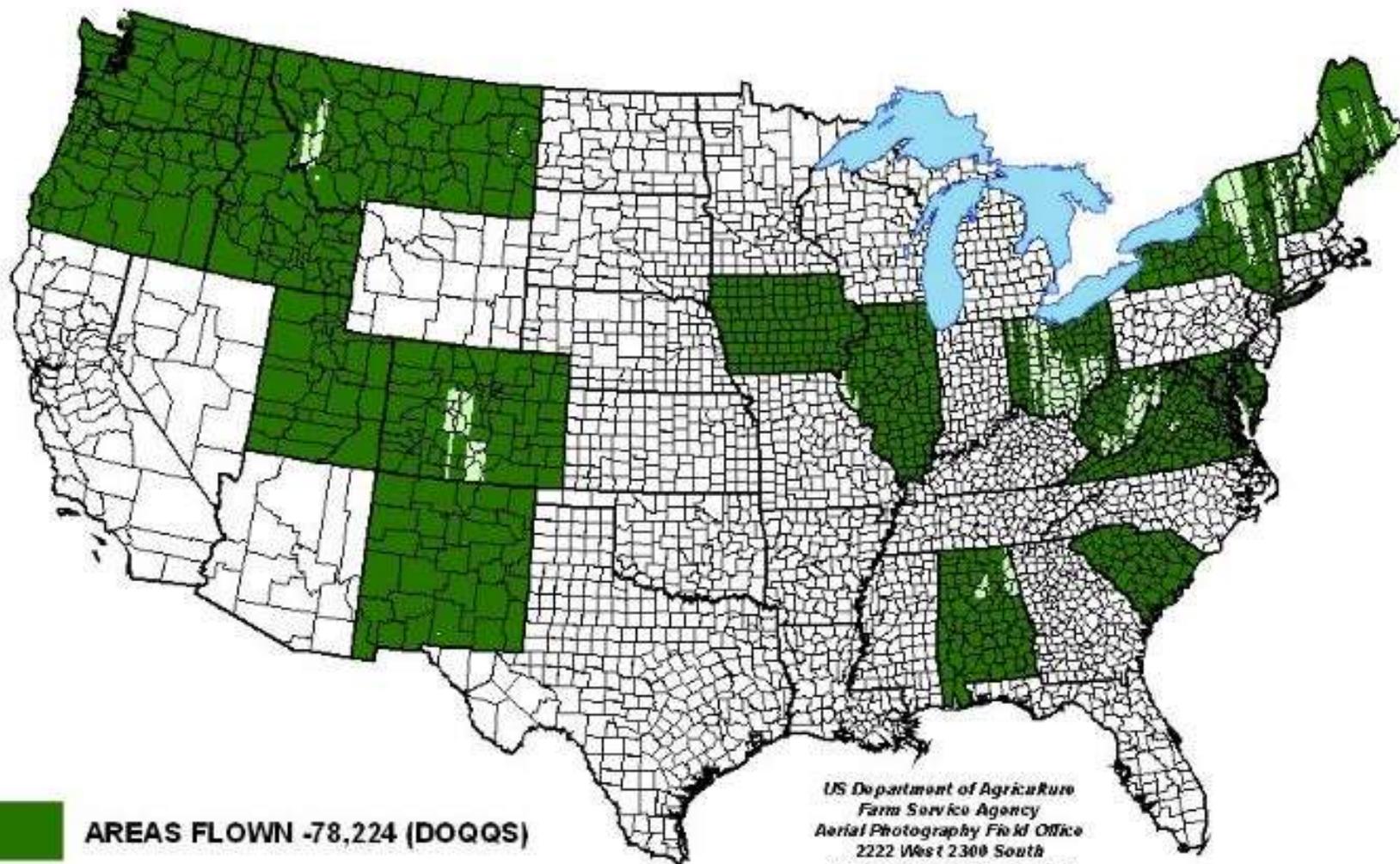
3 Year Repeat Cycle

Natural Color

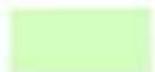
Leaf-On



2011 NAIP Imagery Status



AREAS FLOWN - 78,224 (DOQQS)



AREAS CONTRACTED - 84,205 (DOQQS)

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Where Does NAIP Stand Today?

- Vermont Is Being Flown This Summer
- NAIP Is Well Established Program
- Started in 2003
- 4 complete collection cycles in VT (including 2011)
- 100% Federally Funded
- Anything Federally Funded May Be At Risk

Clear 30 or Advanced Ortho Aerial Program (AOAP)

- Microsoft – Digital Globe
- 100% Funded Private Sector
- 1-foot Pixel Orthophotos
- Mosaic Coverage of the Entire Continental US and Western Europe
- Customer Purchase by;
 - Full 1-degree x 1-degree GeoCell/RegionTile
 - Custom area of interest (AOI)/polygon.

AOAP Specifications

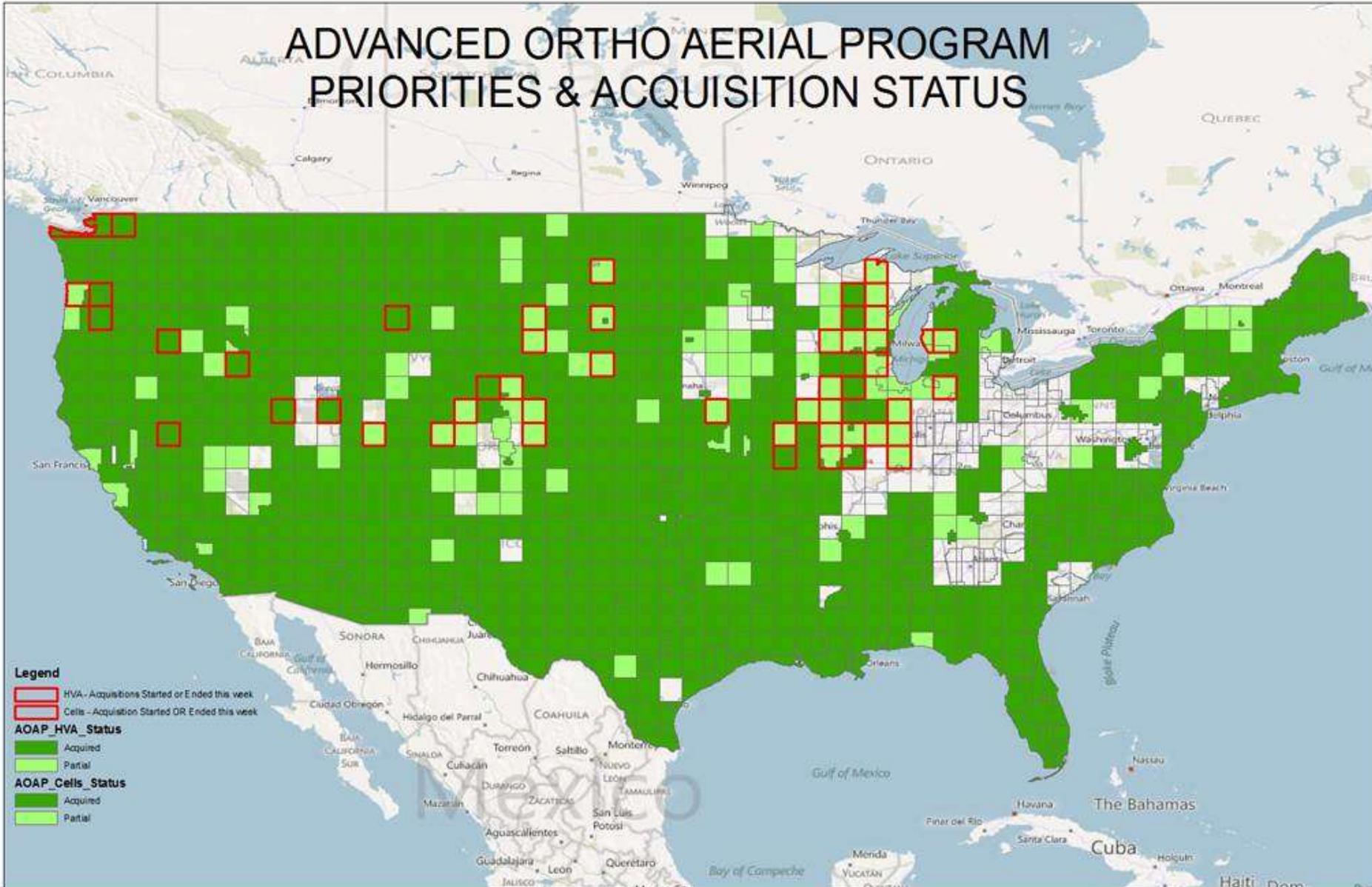
- Collection Areas
 - High Value Areas = Large Population Areas
 - Standard Blocks = Rural Areas
 - Remote Areas = Remote Areas
- VT is All Standard Blocks
- Standard Block Specs
 - Radial Accuracy 15ft. (NSSDA)
 - Leaf-Off is Desired (not required)
 - Minimum Sun Angle – 20 degrees

More AOAP Specs

- File Format – GeoTiff
- Projection-UTM
- Datum – WGS 84
- Tiled 25,000 x 25,000 pixels
- Deliverables
 - Hard Drive
 - FTP
 - Cloud Services
- Cost - \$19.42/sq mi to \$28.49/sq mi depending on the quantity purchased.

Where Does AOAP Stand Today?

ADVANCED ORTHO AERIAL PROGRAM PRIORITIES & ACQUISITION STATUS



ADVANCED ORTHO AERIAL PROGRAM PRIORITIES & ACQUISITION STATUS

Legend

- HVA - Acquisitions Started or Ended this week
- Cells - Acquisition Started OR Ended this week

AOAP_HVA_Status

ACQ_STATUS

Acquired

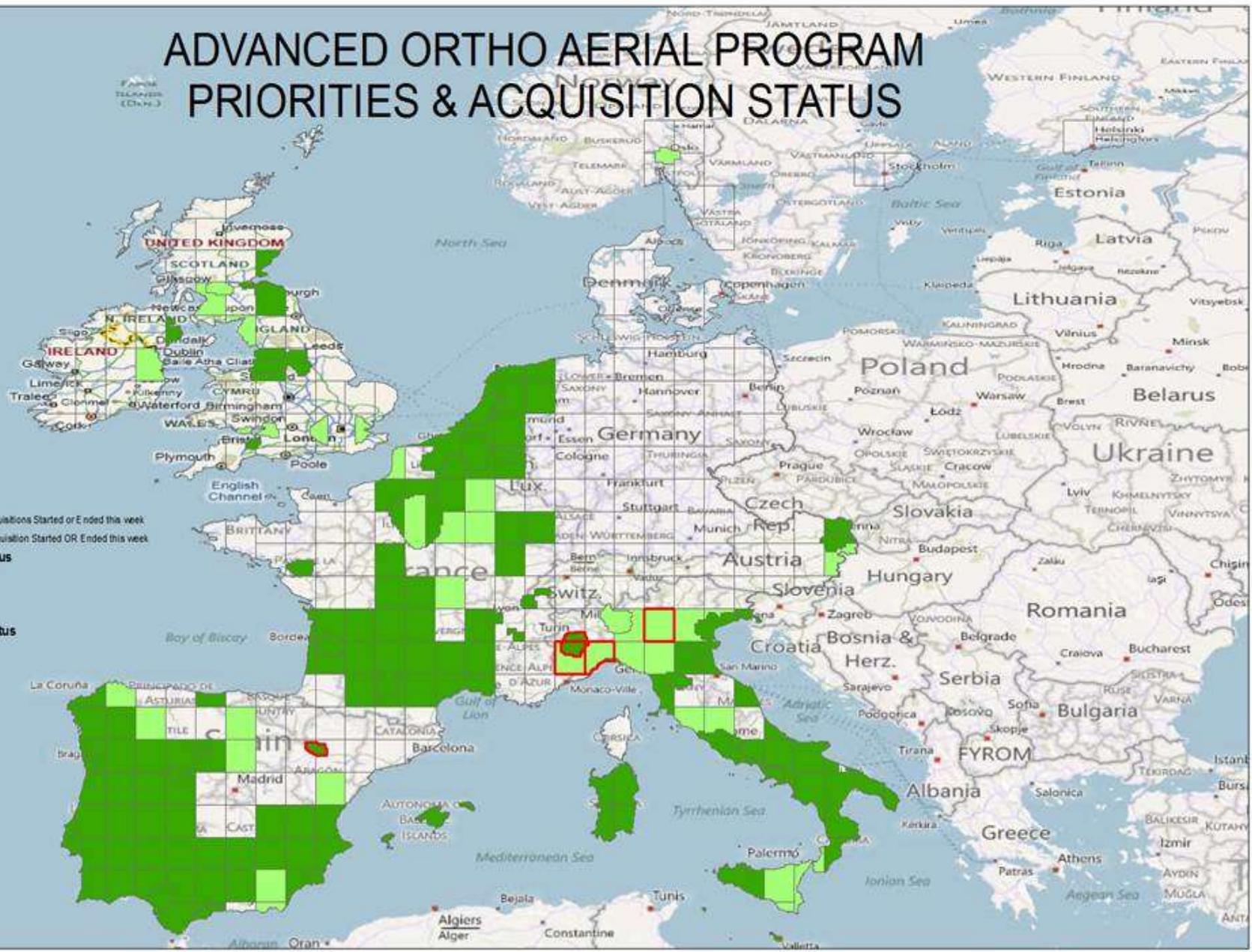
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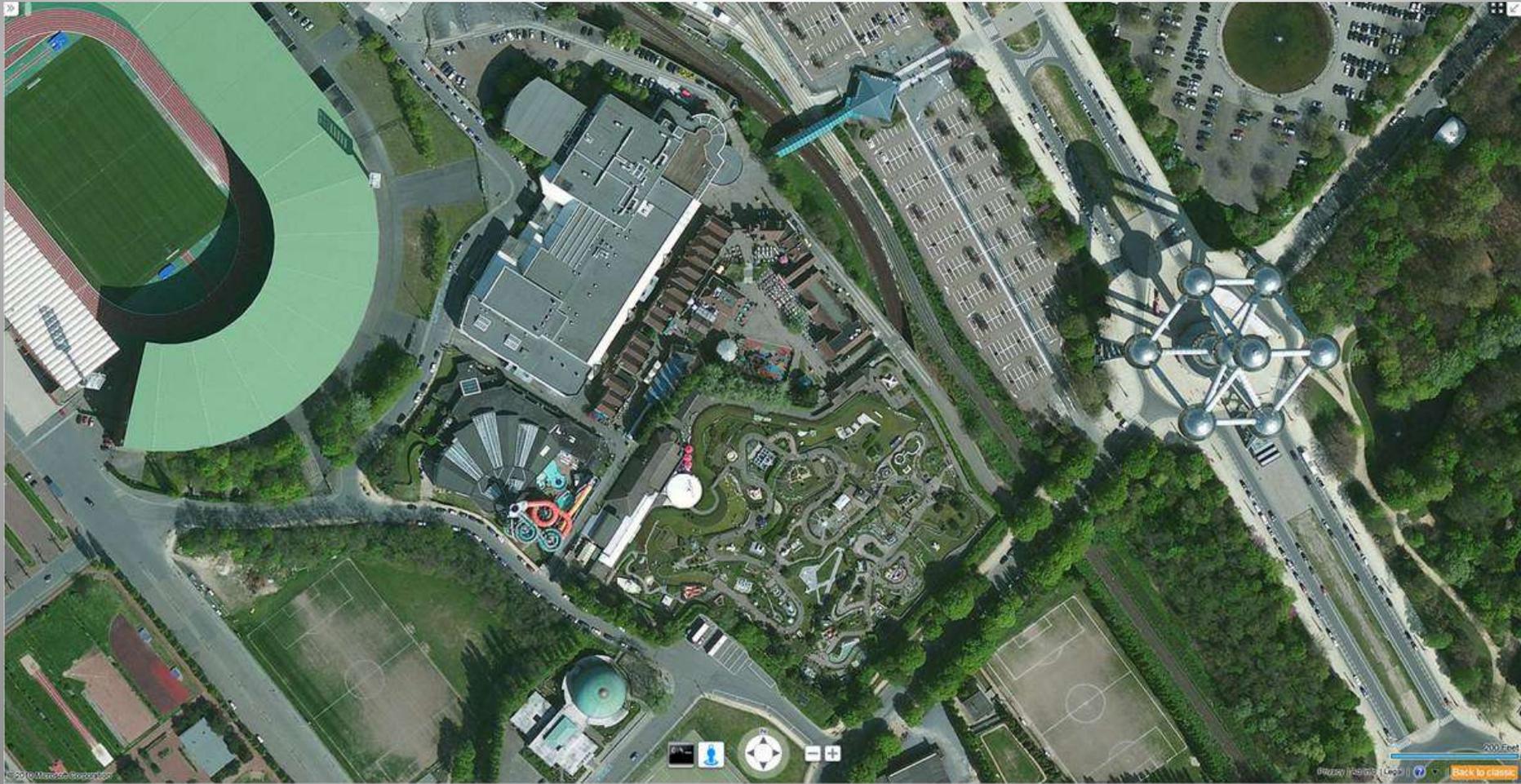
AOAP_Celis_Status

ACQ_STATUS

Acquired

Partial







What's Google Doing?

- Purchased Image America a Few Years Ago
 - Image America builds “high resolution cameras for the collection of aerial imagery”
- Rumored Purchase of “Numerous Imaging Aircraft”
- No Stated Plans
- LOTS of Rumors
- Google Has a Well Established Interest in Imagery
- Do They See Value In Ownership?

Where Is This All Going?



The Trends (As I See It)

- Competition Will Increase
- Winners and Losers In The Marketplace
- Bundled Products – LiDAR, Contours and Orthos
- Imagery Providers Will Use Cloud
- Subscription Services
- It's Still Difficult (\$\$\$) To Collect High Resolution, High Accuracy OrthoImagery Over Large Areas

Thank You

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