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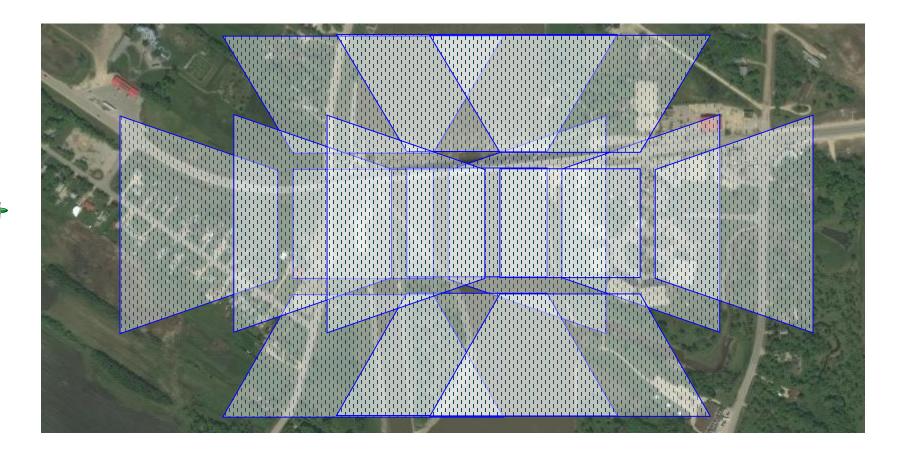




- Introductions
- Why Obliques matter and how they differ from traditional aerial Imagery
- Uses in Reassessment
- Integrations
- Case Studies
- Questions



Area-wide Capture (5 way viewing)

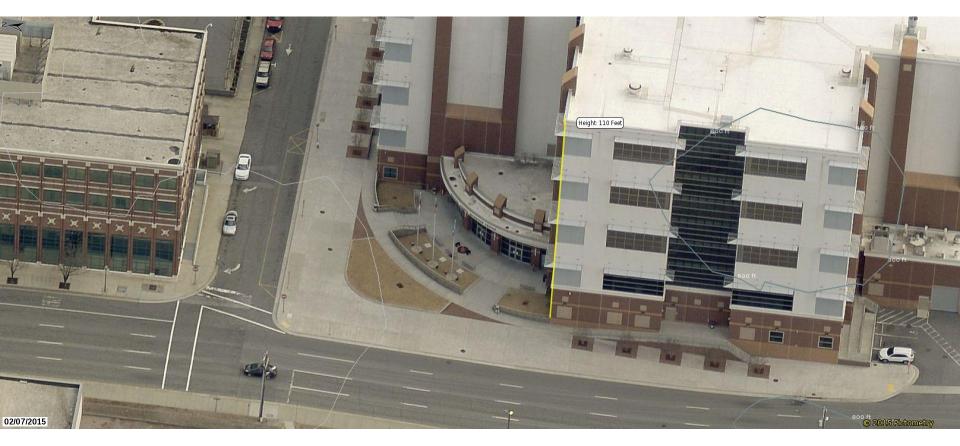


Many overlapping images make tens of millions of overlapping georeferenced pixels



What Is "Intelligent" Oblique Imagery

• Imagery at a 40 degree angle that is georeferenced to the ground, is measurable and is able to take into account the change in elevation





Why Are Obliques Are Important?

• Let's play a game and find out





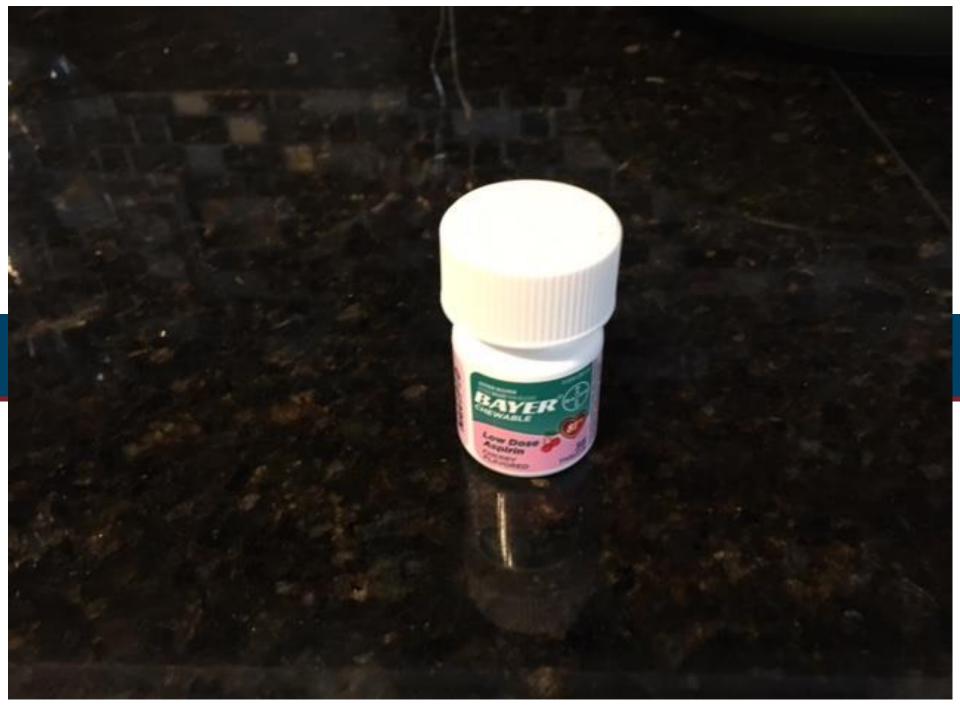




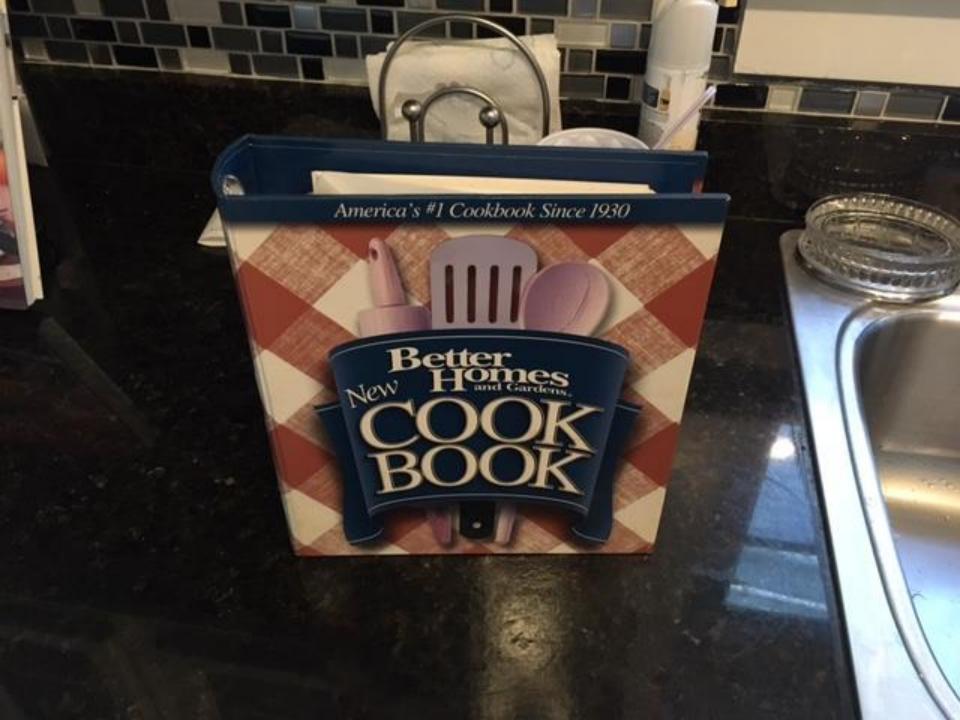


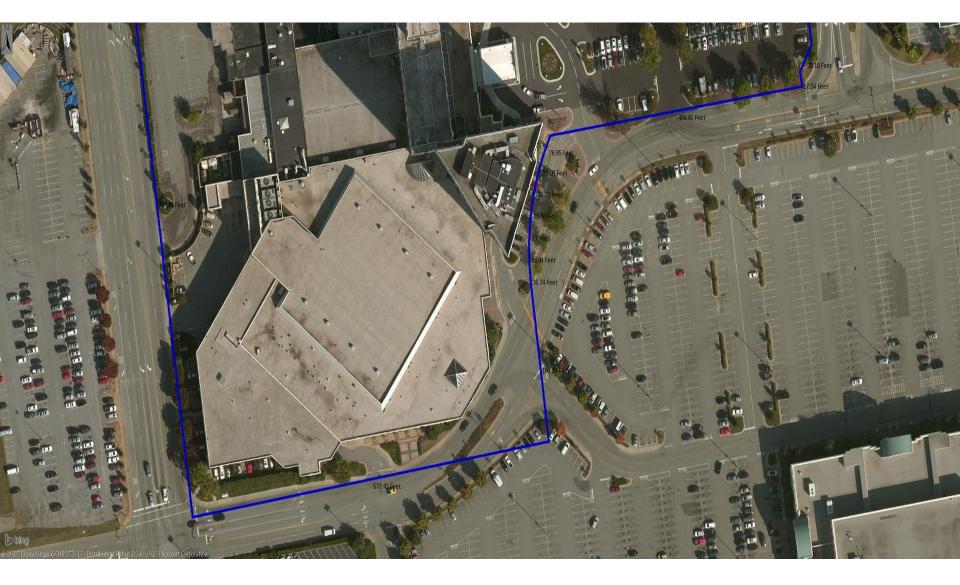














EAGLEVIEW

Standard Ortho Image

Caller .

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North facing Oblique

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© 2009 Pictor

East facing Oblique

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South facing Oblique

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West facing Oblique

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Why Is This Important??

The comparison duration was one calendar year

Office staff checked <u>281%</u> more parcels than the year before Field staff checked <u>284%</u> more parcels than the year before Total Field Costs were cut by <u>69%</u> Miles Driven (per parcel) were cut by <u>70%</u>



Average cost benefits

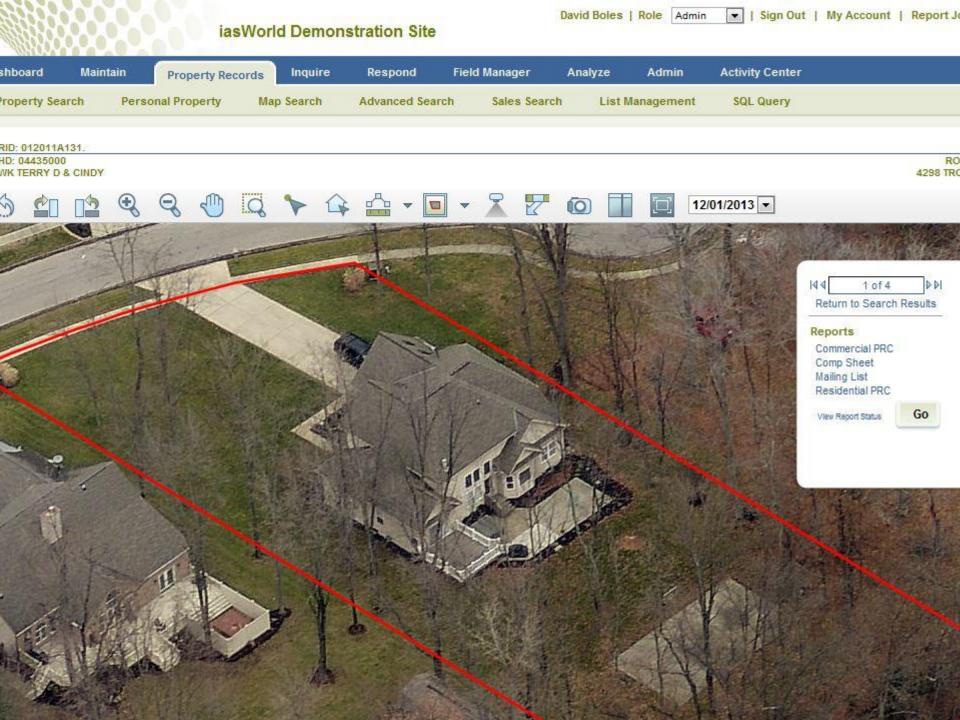
- NC Department of Revenue estimates for 2017:
- Reval cost \$21 per parcel on average
- With ChangeFinder cost \$13.50 per parcel
- Cost savings of \$7.50 per parcel
- Total savings \$1,575,000



Integrations

 Bring intelligent obliques into your CAMA system and your GIS





Gaston County Government

DEVNET CAMA SYSTEM DEVNET North Carolina Assessor Gaston County

r Gaston County

09/05/2017

File Parcel Personal Property Mobile Homes Process Map Reports Window Help

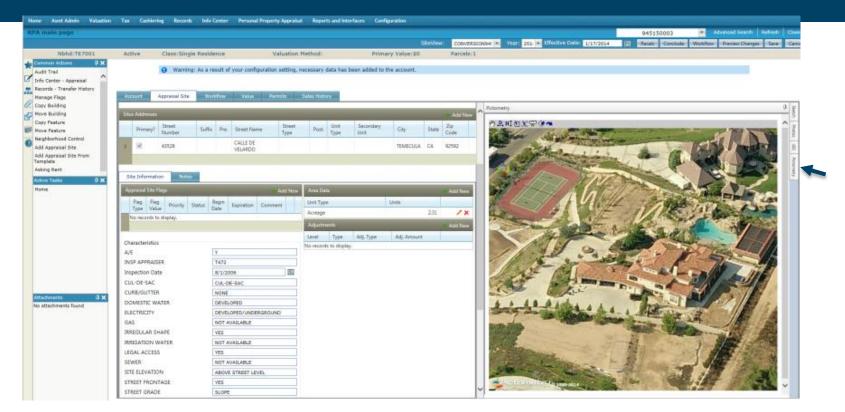
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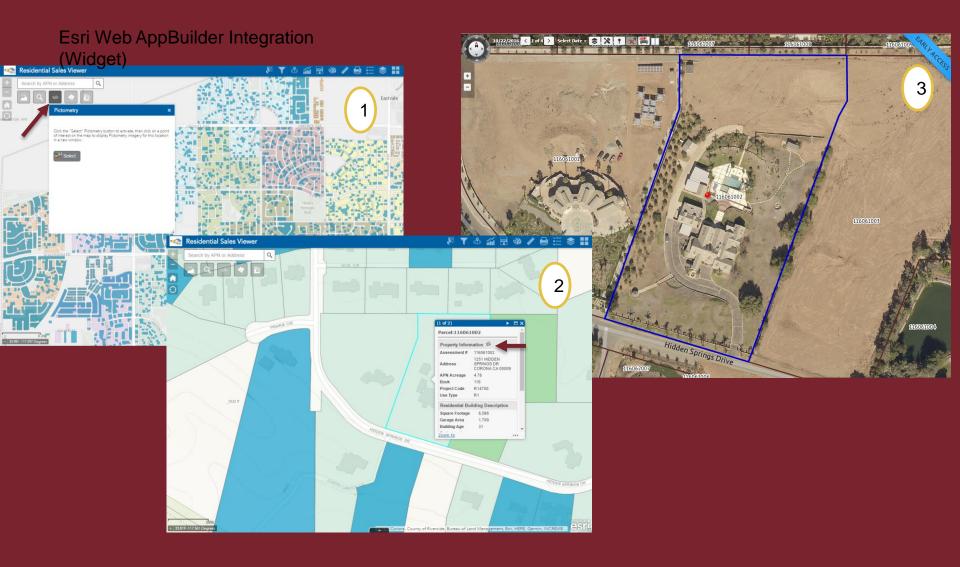






Aumentum – Property Tax System

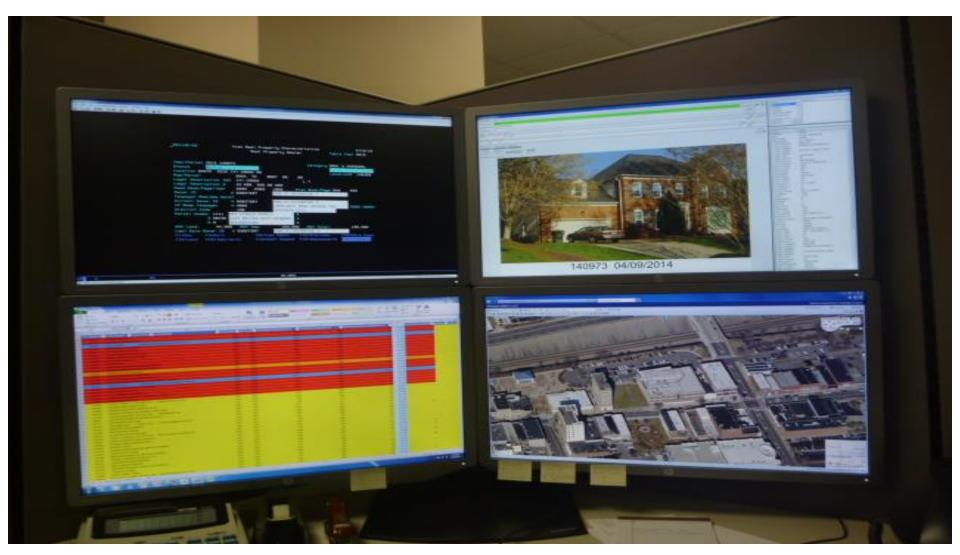
CAMA, GIS, and Pictometry



Gaston County Government

APPRAISAL WORKSTATION







Case Studies

• A few slides from a recent User Group Meeting



Gaston County Government



> MOST EFFICIENT, COST EFFECTIVE AND EASIEST TOOL AVAILABLE FOR REAPPRAISAL WORK

- > PROPERTY REVIEW FROM DESK
- > CONFIRM MEASUREMENTS FROM DESK
- > CONFIRM LAND ADJUSTMENTS FROM DESK
- > SPECIAL PROJECTS WITHIN REAPPRAISAL



> PROVIDES SUPPORTING DOCUMENTATION

- > REFERENCE POINT IN TIME---REAPPRAISAL DATE
- > VISUAL GUIDE FOR MAKING DECISIONS AND OPINIONS



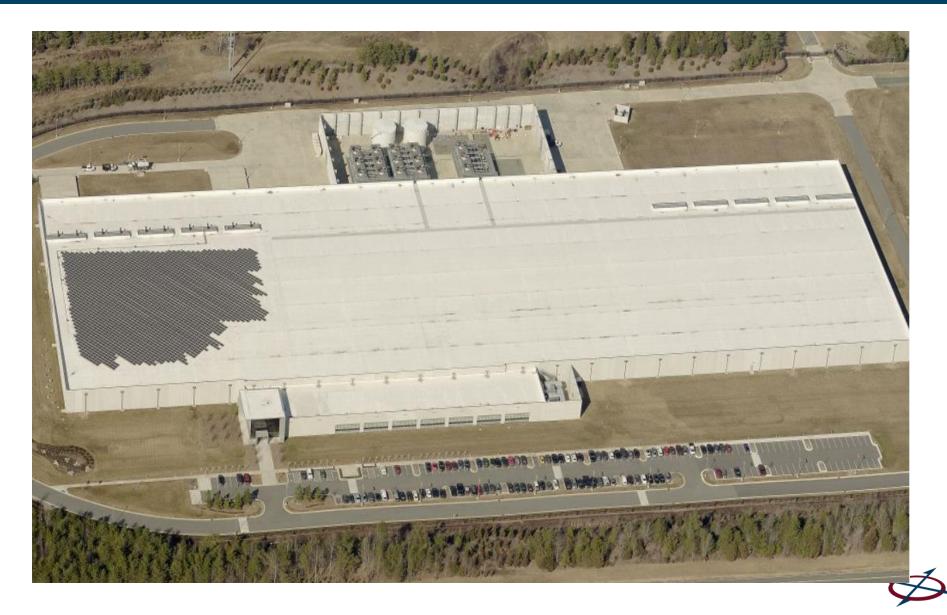
Gaston County Government

- > INSTILLS CONFIDENCE FOR STAFF IN BOTH:
 - WORK PRODUCT
 - > DEALING WITH PROPERTY OWNERS
- > APPEAL EFFICIENCY
 - > ABILITY TO PROCESS QUICKER
 - > TAXPAYERS CAN UNDERSTAND AN IMAGE
 - > PROVIDES REALITY FOR BOARD OF E/R, AND NCPTC





Oblique Images ideal for large buildings or parcels with difficult access





Split Screens

- Side by side images make it easy to identify change
- Noted changes are held in a work Queue
- Imagery is good enough to identify not only structural changes but upgrades to existing structures as well

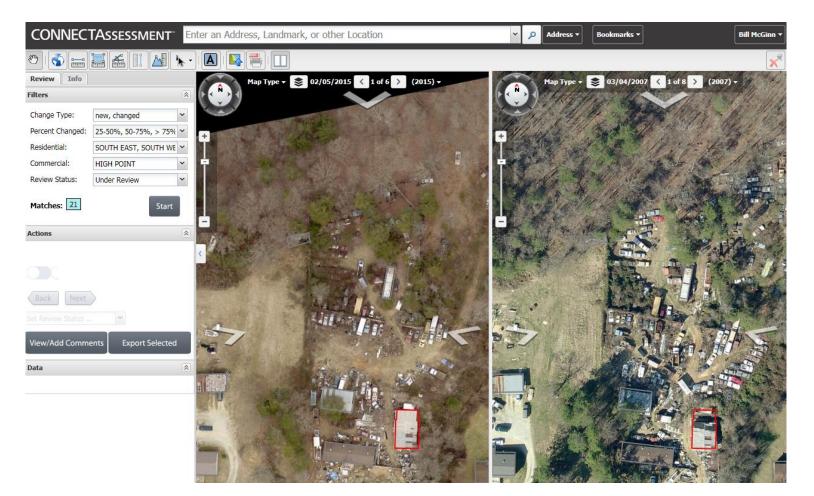




Pictometry ChangeFinder

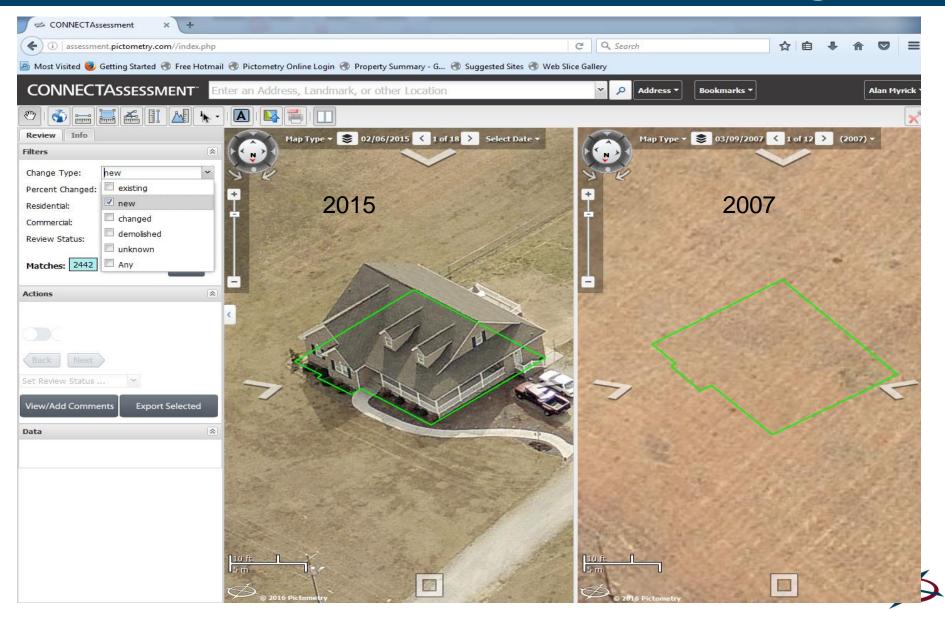


Filters & Queues

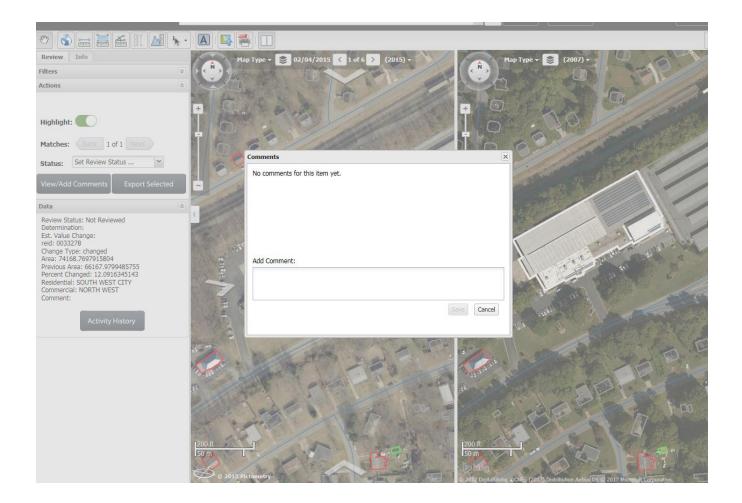




CF Workflow Queue—New Building

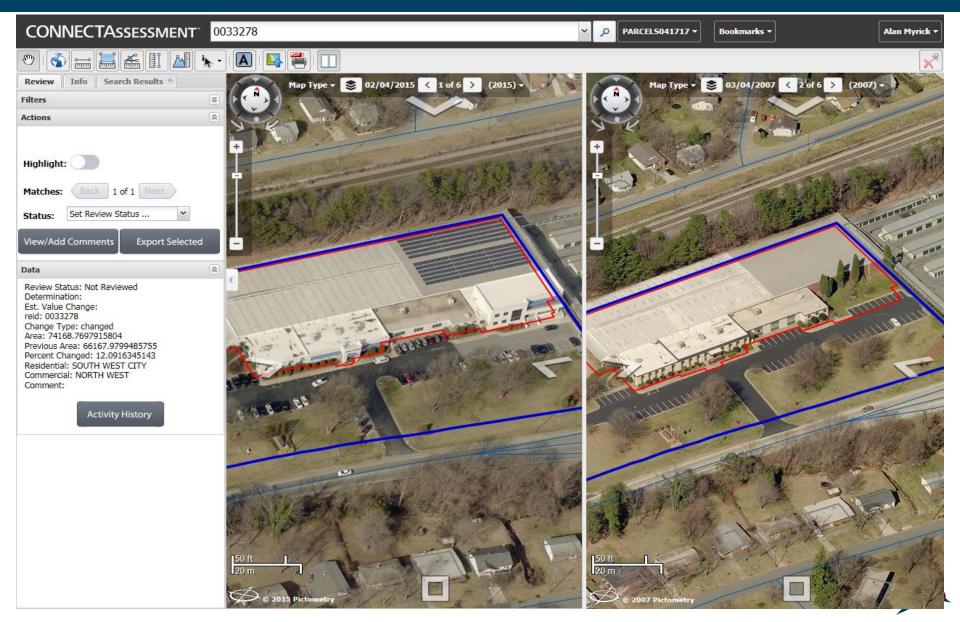


Ability to add notes

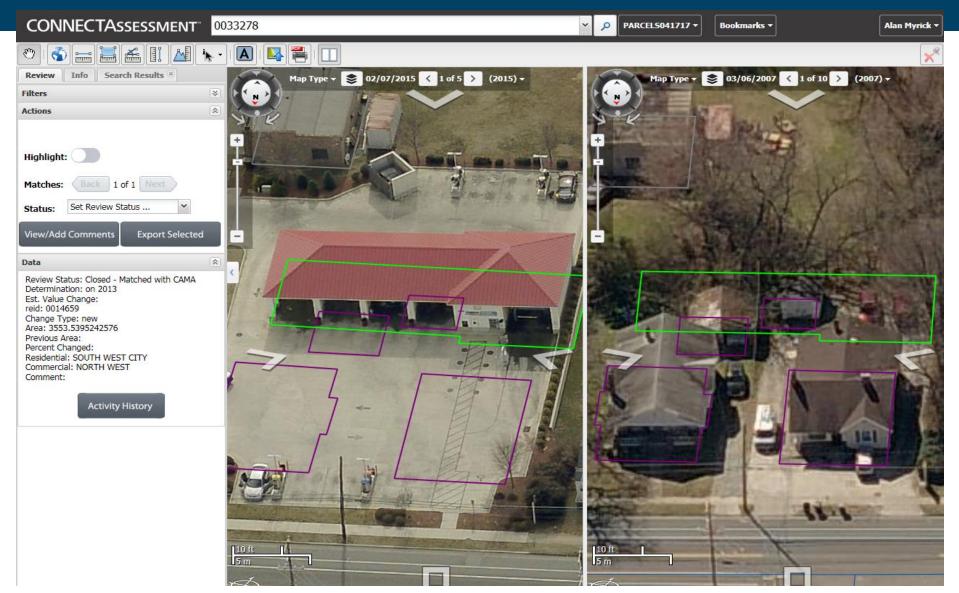




Appraisers Desktop View- Change Queue

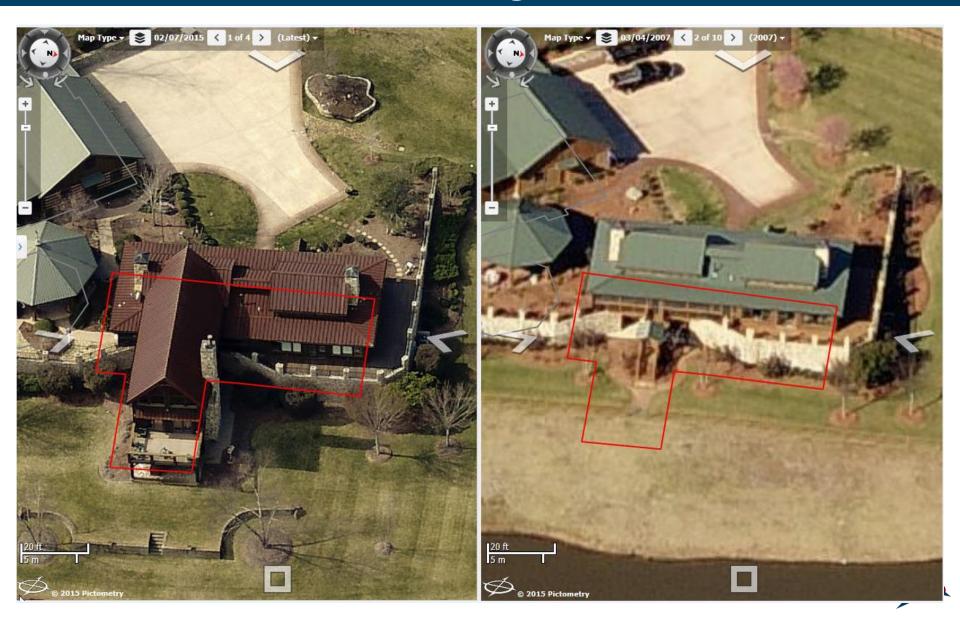


More Changes

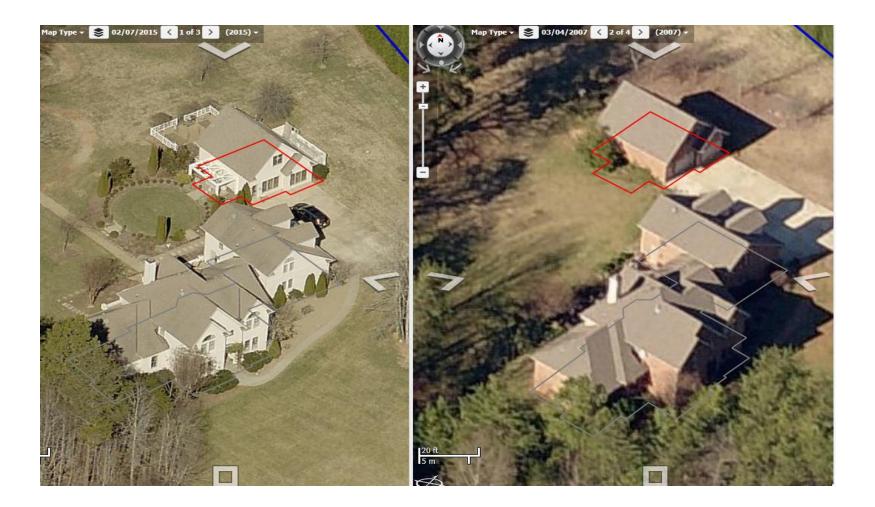




Sketch Change Queue



Garage changed to living





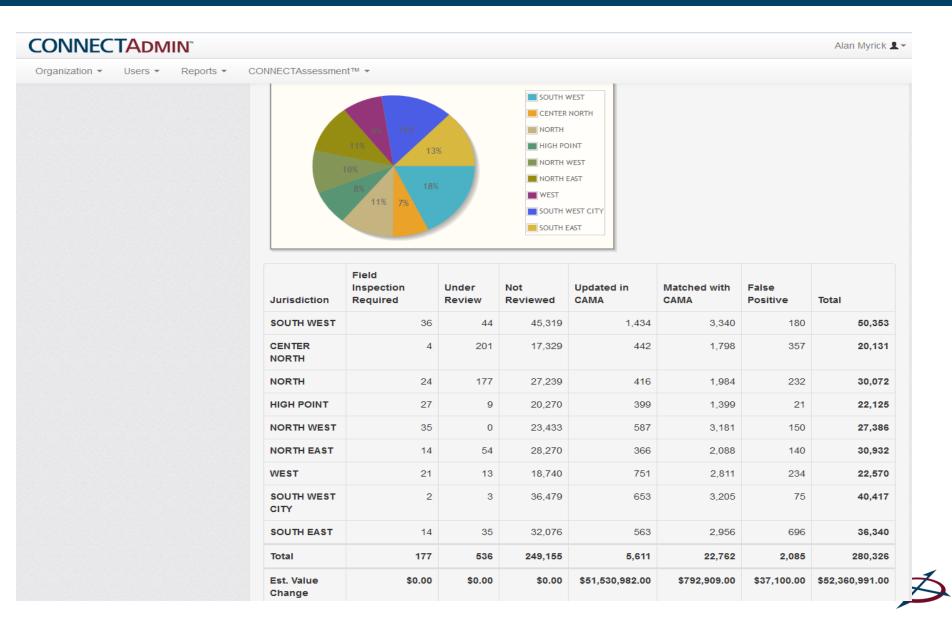
Rural Areas- Many Buildings are built without a Permit



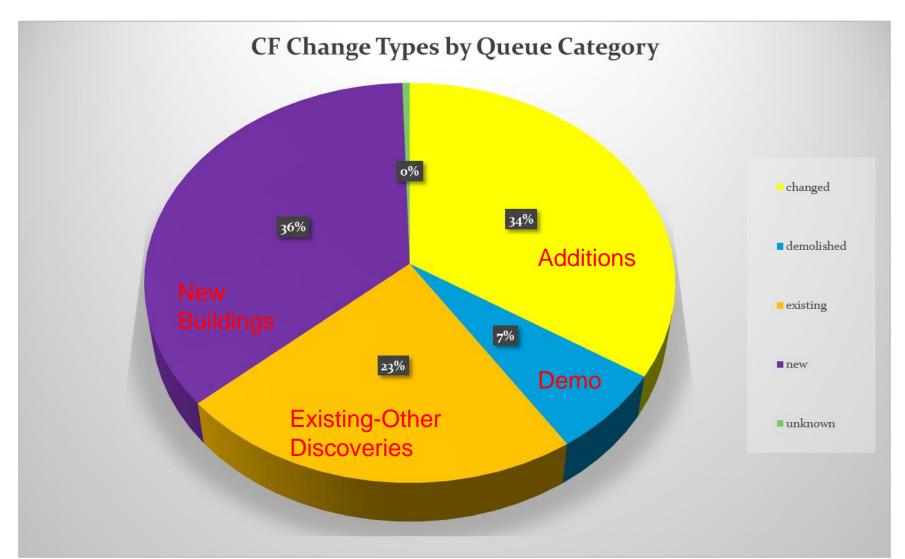
Demolition Review Queue



CF Reports on Project Progress by Work Areas



Changes per Category





46

47

One NC Example Of ROI

- County total savings: \$1,575,000
- Total Revenue Discovered: \$1,369,511
- Total Benefit: \$2,944,511

- Revenue benefit continues to grow each year



Cost Vs. Benefit (NC Customer)

- One year Revenue Discovered \$342,378
- Total Revenue Discovered \$1,369,511



ChangeFinder

- Allows appraisal staff to do an electronic inventory of buildings & outbuildings that have been built since 2007.
- Appraisers reviewed parcels for buildings that had been added or removed since 2007.
- To date appraisal staff have added or removed;

Building Value Added: \$50,372,669

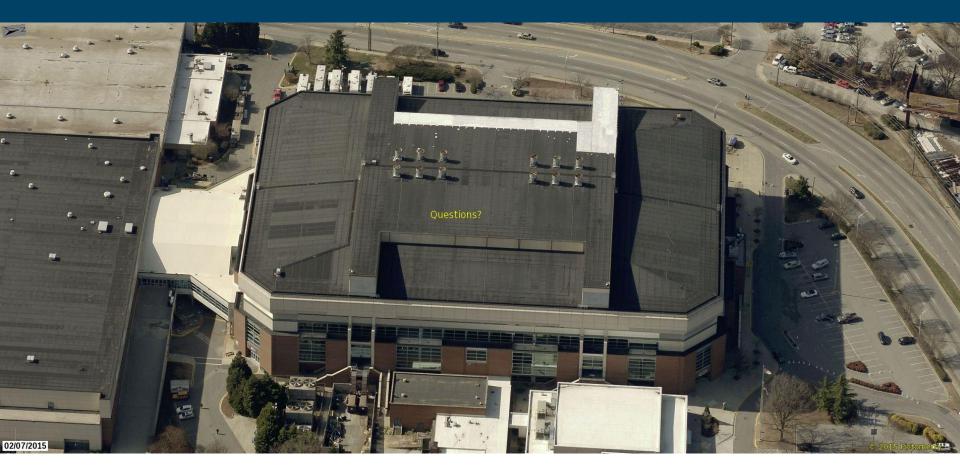
Building Value Removed: \$3,503,722



Bottom Line

• "This technology makes Reassessment more efficient and is cost-effective by both saving time and by ensuring accurate data"







Hurricane Harvey

- 22 planes staged & flying around TX
- First to fly post-storm
 - In the air scouting on Monday
 - Permitted access into the airspace on Tuesday
 - First imagery processed on Wednesday
- Over 6,000 sq. miles of imagery captured
- Estimated 340 hours of flight time
- Ferried planes to TX from all across the country



Hurricane Relief Efforts

- Donated 40,000 meals including clean water to the Southeast Texas Food Bank to the City of Beaumont, TX (customers of ours) after they ran out of clean water completely.
- Worked with Texas Cares to donate bottled water to those affected.
- Complimentary online tool, accessible through desktop and mobile for evacuees to assess their homes remotely.
- Created within **4** days of taking flight in TX
- Employees physically flew to TX to receive drives to hand-deliver to the office over Labor Day weekend.
- http://harvey2017.eagleview.com/



Machine Learning

- EagleView is working with insurance carriers to review an image and classify damage efficiently by stratifying potential property damage based on probability thresholds.
- This high-speed process allows billions of image pixels to be analyzed quickly far faster than can be analyzed with the human eye.



