Oblique Photography Discussion Panel

Johnson County, KS
MAGIC 2008

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Overview

- Presentation of product
- How obtained?
- Resolution, Accuracy, funding, ROI, future plans?
- Who is using?
- How are they using it?
- Benefits?
- Problems?

Background

- Johnson County, Kansas is about 500 square miles
- Part of the Kansas City Metro area
- Population is estimated over 525,000 people
- Still a mix of Urban/Rural
- Appraiser and AIMS had reviewed obliques for several years

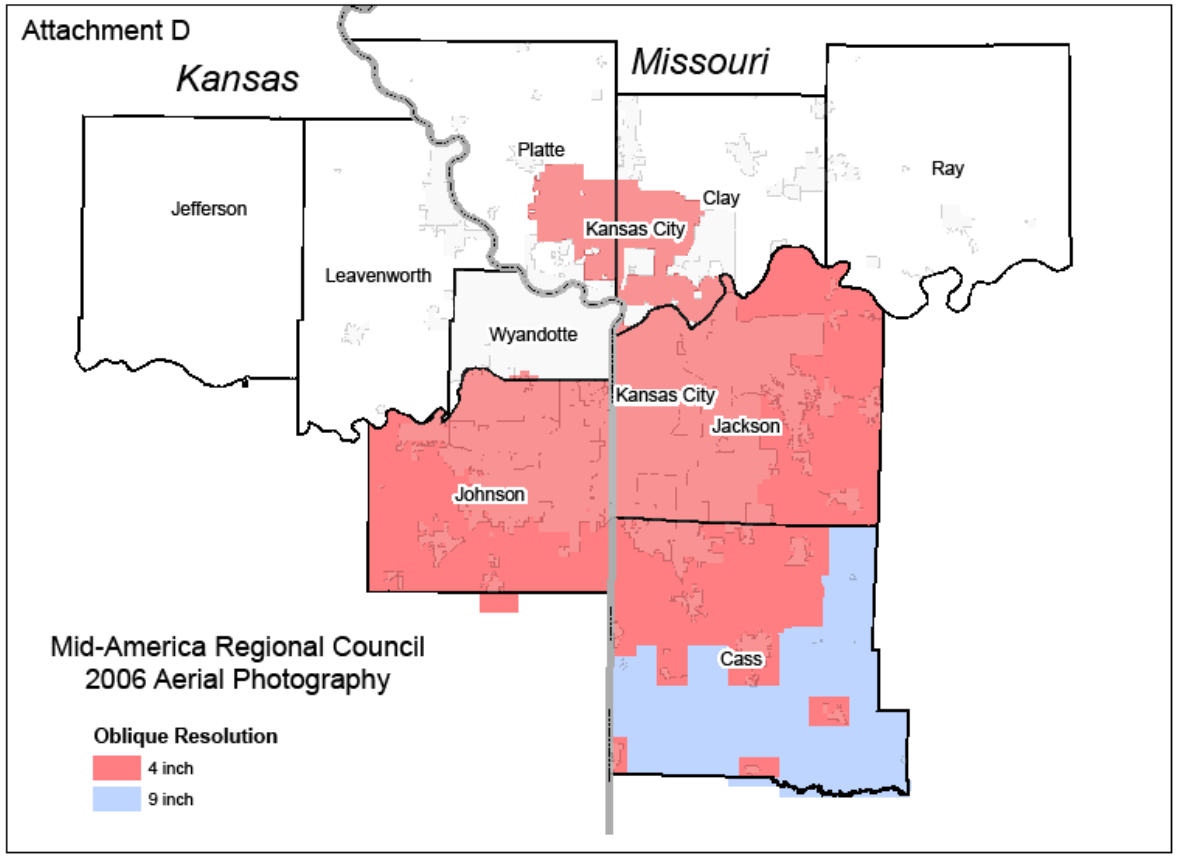
Background

Wyoming
Nebraska
Iowa
Colorado
Kansas City
Johnson County
Illinois
Indiana
Kansas
Missouri
Kentucky
Oklahoma
Tennessee
Arkansas
New Mexico
Mississippi
Alabama
Texas
Louisiana
Florida

Requirements

- Single Regional RFP for both Ortho/Oblique
- Flight conditions
  - Spring, leaf-off, no snow/haze, etc
  - 10:00 am to 2:00 pm
  - When sun angle is not less than 30 degrees
- Ownership
- Accuracy

MARC Region



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Product Description

- Regional flight flown Spring 2006
  - 2 Vendors responded
- 4 inch pixel resolution
- Minimum of 78 per square mile
- Approximately 42,000 images
- Approximately 280 GB

2008

- Renewal flight flown Spring 2008
- 3 inch resolution
- Minimum of 170 per Square mile
- Approximately 85,000 images
- Approximately 600 GB
- Should receive raw imagery to QC soon

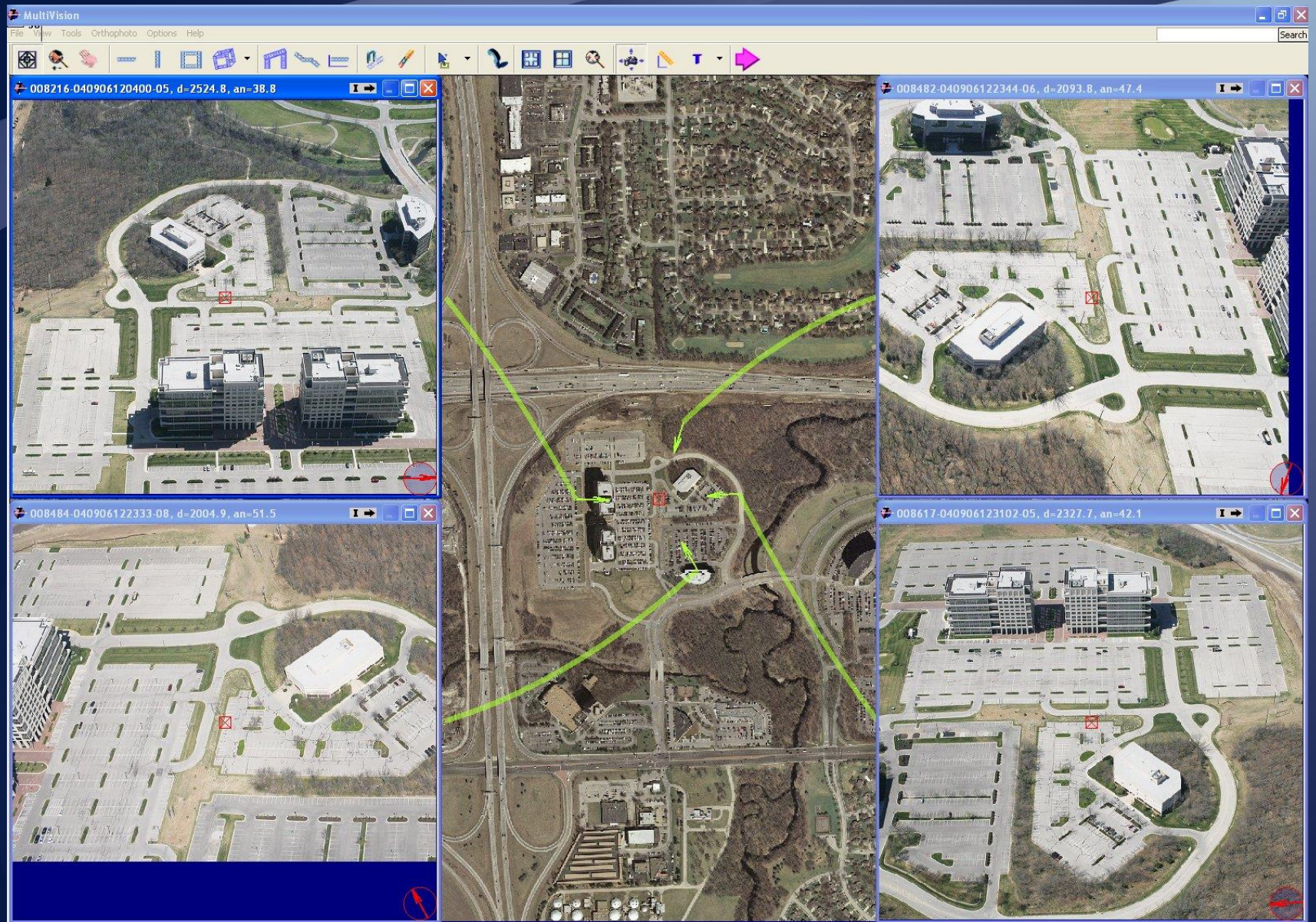
Integration Challenges

- Large Size
- Format (ECW)
- “Closed systems”
- New Developing Technology

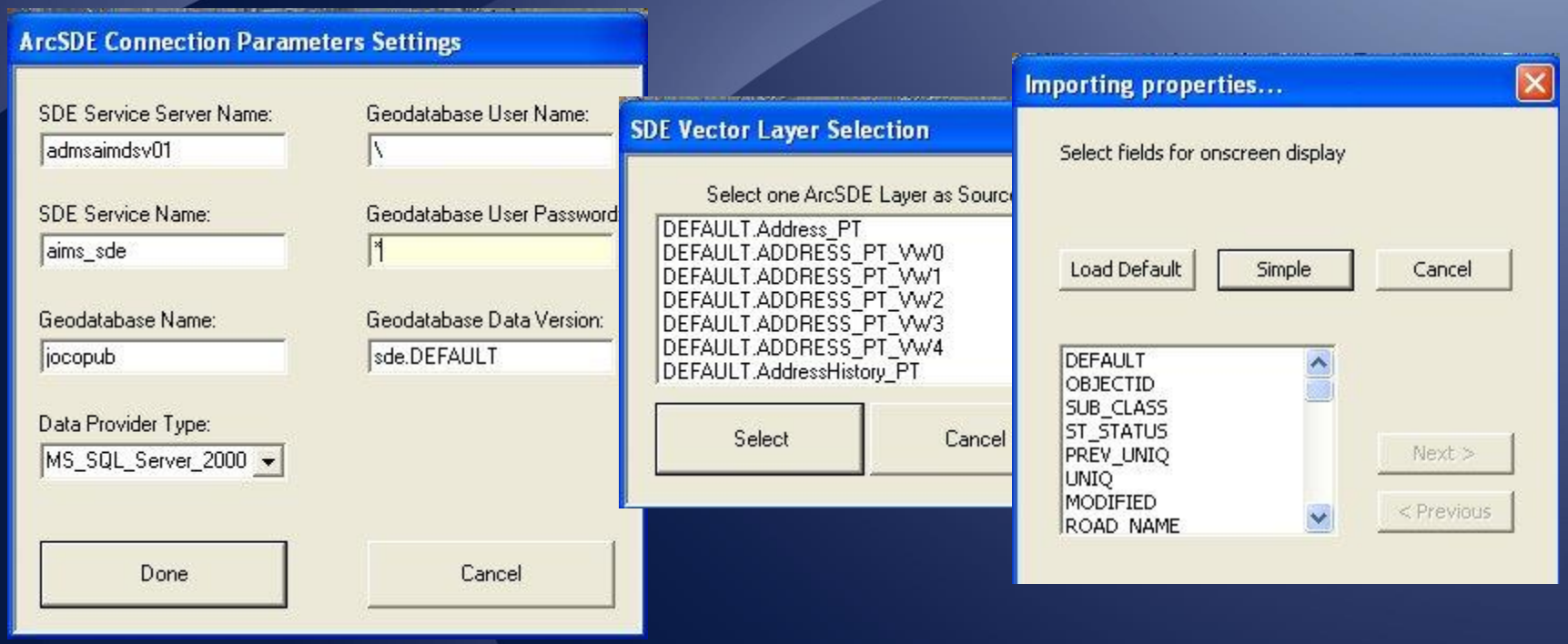
Current Access

- Multivision
- Arcmap
- Web - Johnson County Online Mapping

Multivision



Multivision - SDE Access



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Multivision - SDE Access

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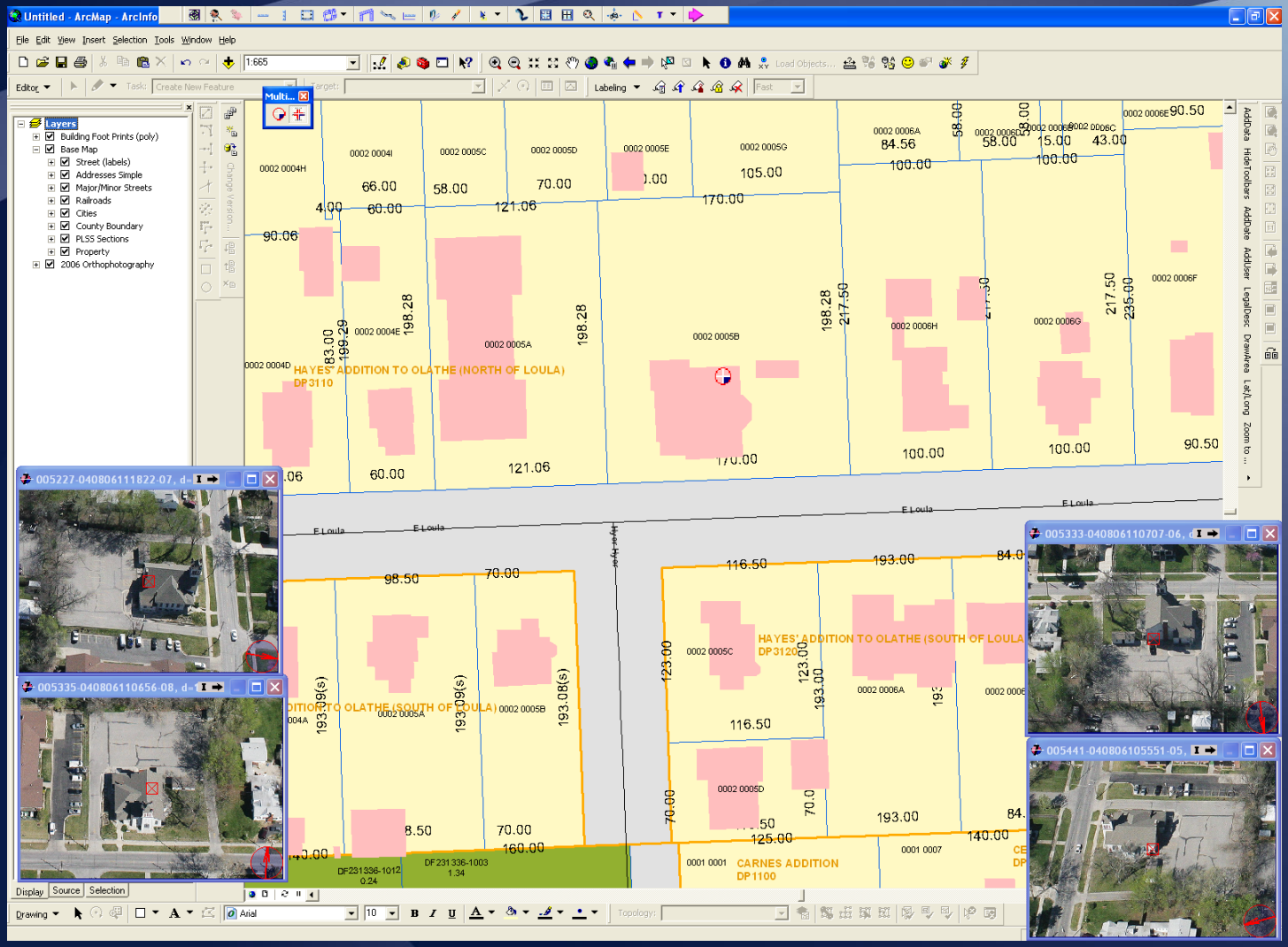
Arcmap



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Web

Johnson County Online Mapping

LAYERS

Legend

- Property Layers
  - Property Dimensions
  - Property Lines
  - Property Polygons
  - Label: None
- Aerial Images
  - 2006 Orthophoto - 0.5 ft
  - 2005 Orthophoto - 0.5 ft.
  - 2003 Orthophoto - 0.5 ft.
  - '98-'00 Orthophoto - 0.5 ft.
- Planimetric Layers
- Other Layers
- Admin. Layers
- School Layers
- Utility Layers

Redraw

330 Feet Across

Map Size: Small Medium Large Redraw Full Extent

Identify Results - Microsoft Internet Explorer

Property | Location | School | Plat | Legal | Utilities | Image

Welcome Shannon Logout Search Print All Map Feature

Primary Image(s) View Obliques

2/8/2006

Search For Location:

(e.g. Address, Parcel Id, or Map No.)

Locate It!

Advanced Features

Advanced Features

View this location in:

Microsoft Virtual Earth
Google Maps
Wikimapia
AIMS Oblique Viewer

Close

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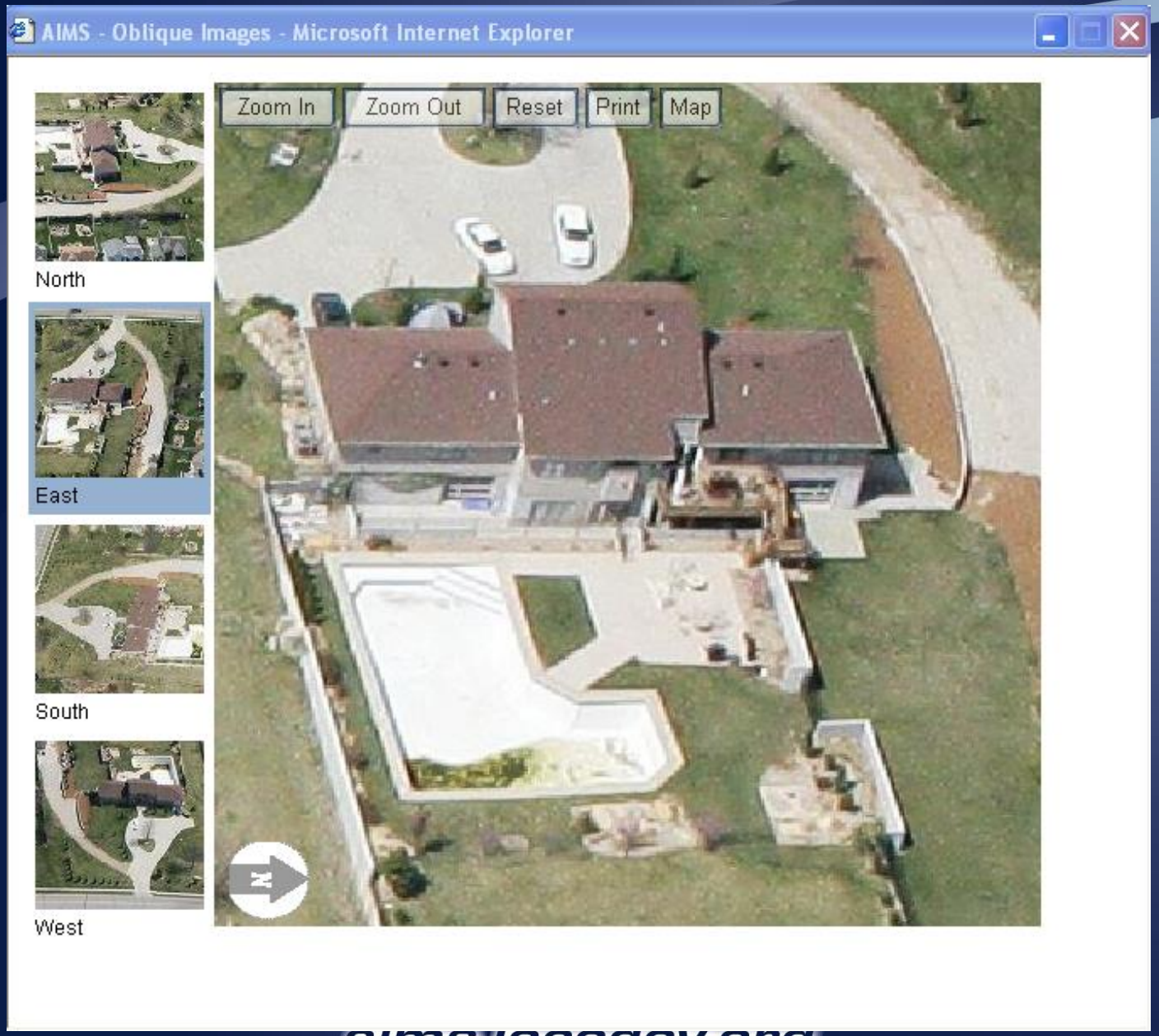

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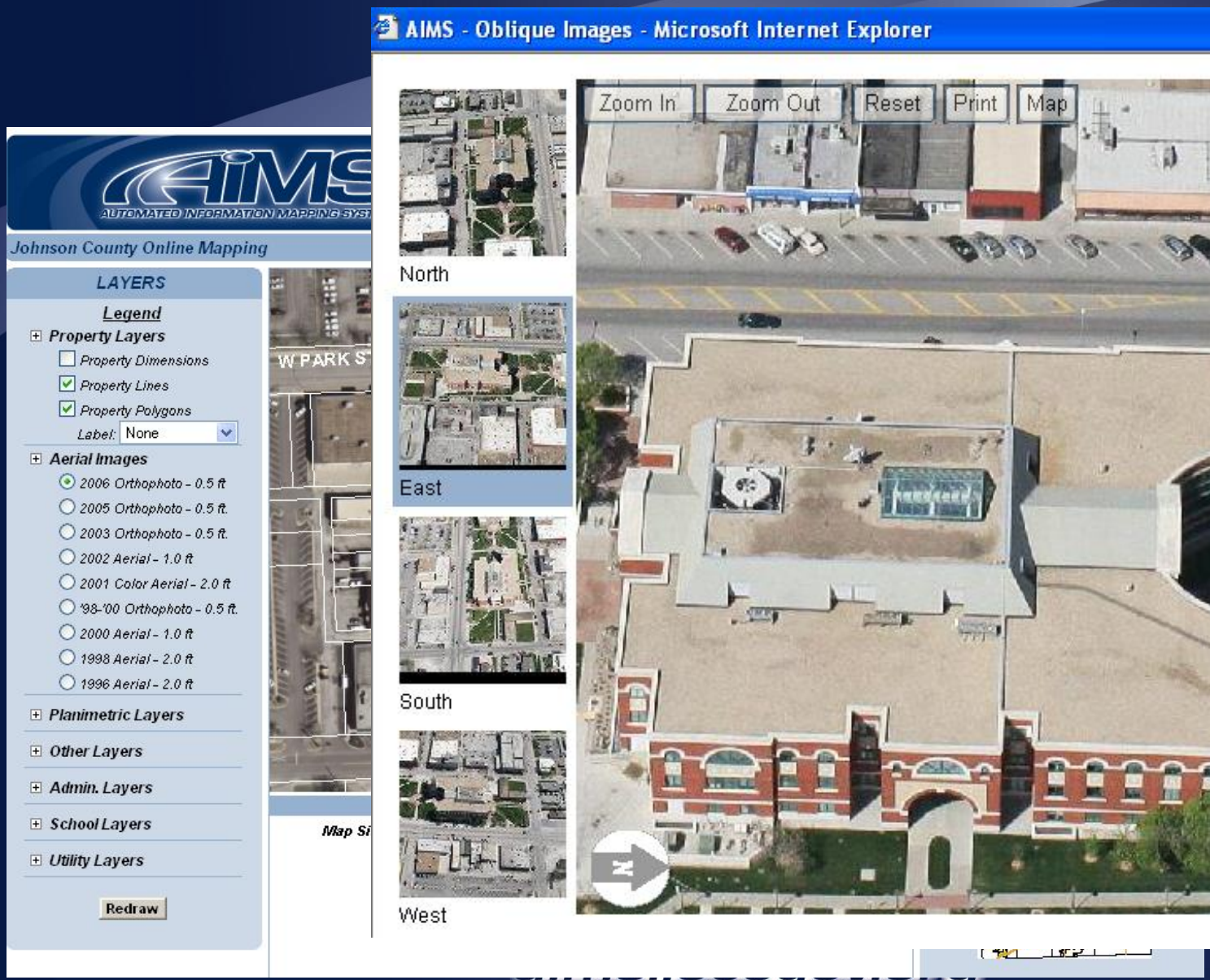
AIMS - Oblique Images - Microsoft Internet Explorer
Zoom In
Zoom Out
Reset
Print
Map
North
East
South
West
AUTOMATED INFORMATION MAPPING SYST
Johnson County Online Mapping
LAYERS
Legend
Property Layers
Property Dimensions
Property Lines
Property Polygons
Label: None
Aerial Images
2006 Orthophoto - 0.5 ft
2005 Orthophoto - 0.5 ft.
2003 Orthophoto - 0.5 ft.
2002 Aerial - 1.0 ft
2001 Color Aerial - 2.0 ft
'98-'00 Orthophoto - 0.5 ft.
2000 Aerial - 1.0 ft
1998 Aerial - 2.0 ft
1996 Aerial - 2.0 ft
Planimetric Layers
Other Layers
Admin. Layers
School Layers
Utility Layers
Redraw
W PARK S
Map Si

Users

- Johnson County Codes - Signage
- Overland Park and FBI
- Overland Park and Judges
- AIMS building updates
- Feature Capture - hydrants

Users

- Fire preplanning and evacuations
- Appraisal
- Shawnee – front elevation
- 3D modeling

Future Opportunities

- Orion
- Tritech
- Intergraph
- WebEOC

Conclusions

- Work in progress
- Still Evaluating
- Use with SDE is possible
- Use on web is possible

Questions or comments?

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AIMS
AUTOMATED INFORMATION MAPPING SYSTEM