

# A New Perspective on Imagery: Integrating Oblique Photography



Shannon Porter

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# Oblique photography - What is it?

- Low elevation angled photography taken in multiple directions.
- Facilitate viewing structures on all four sides, measuring of heights, and creating 3D representations of buildings.

# Oblique photography - Who would use it?

- Appraiser
- Emergency Response
- Law Enforcement
- GIS
- Planning

# Obliques



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# Background

- Regional flight flown Spring 2006
  - 2 Vendors responded
- 4 inch pixel resolution
- Approximately 42,000 images
- 280 GB

# Background

- Johnson County, Kansas is about 500 square miles
- Part of the Kansas City Metro area
- Population is estimated over 515,000 people
- Still a mix of Urban/Rural

# Background



# Integration Challenges

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

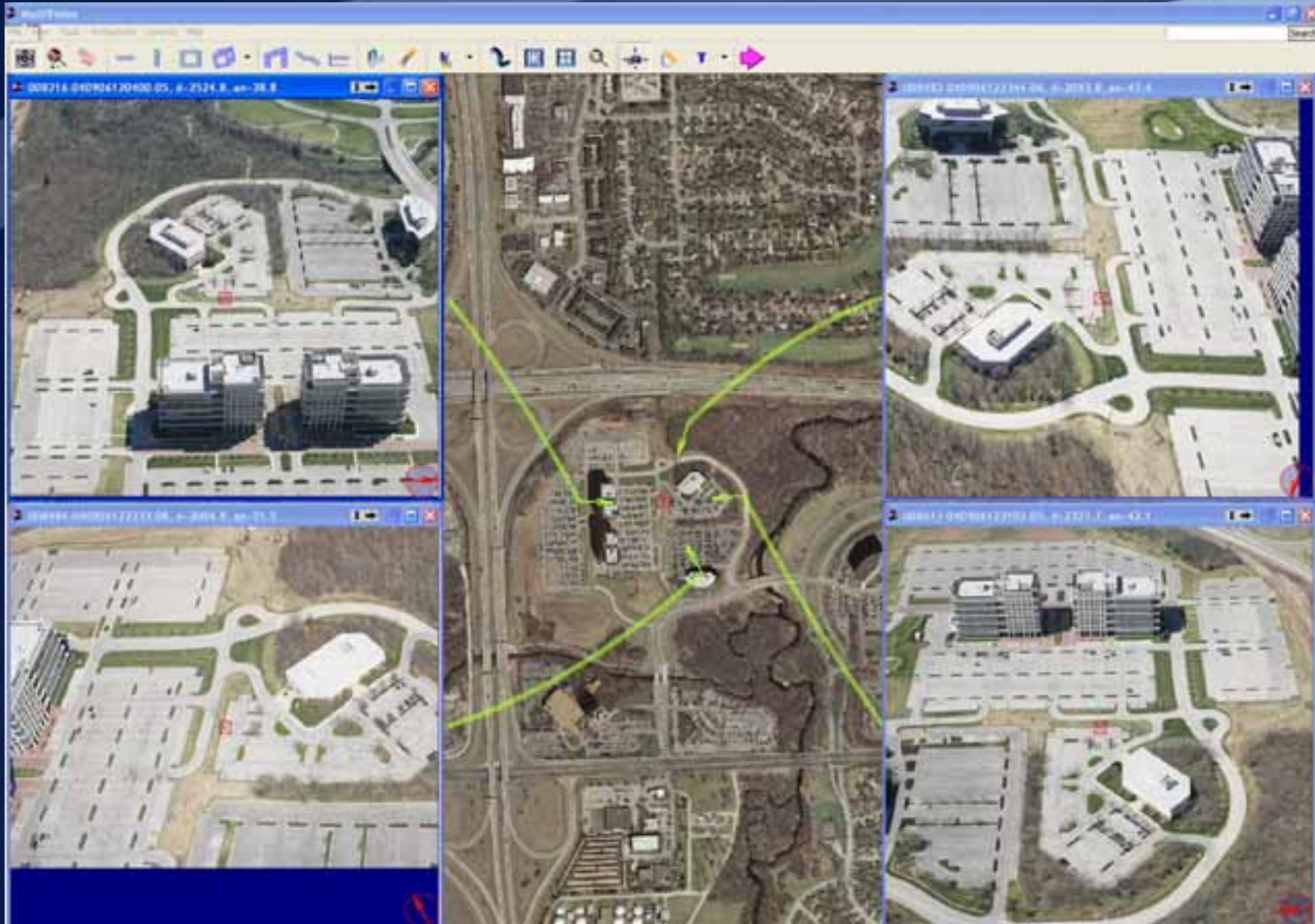


# Current Access

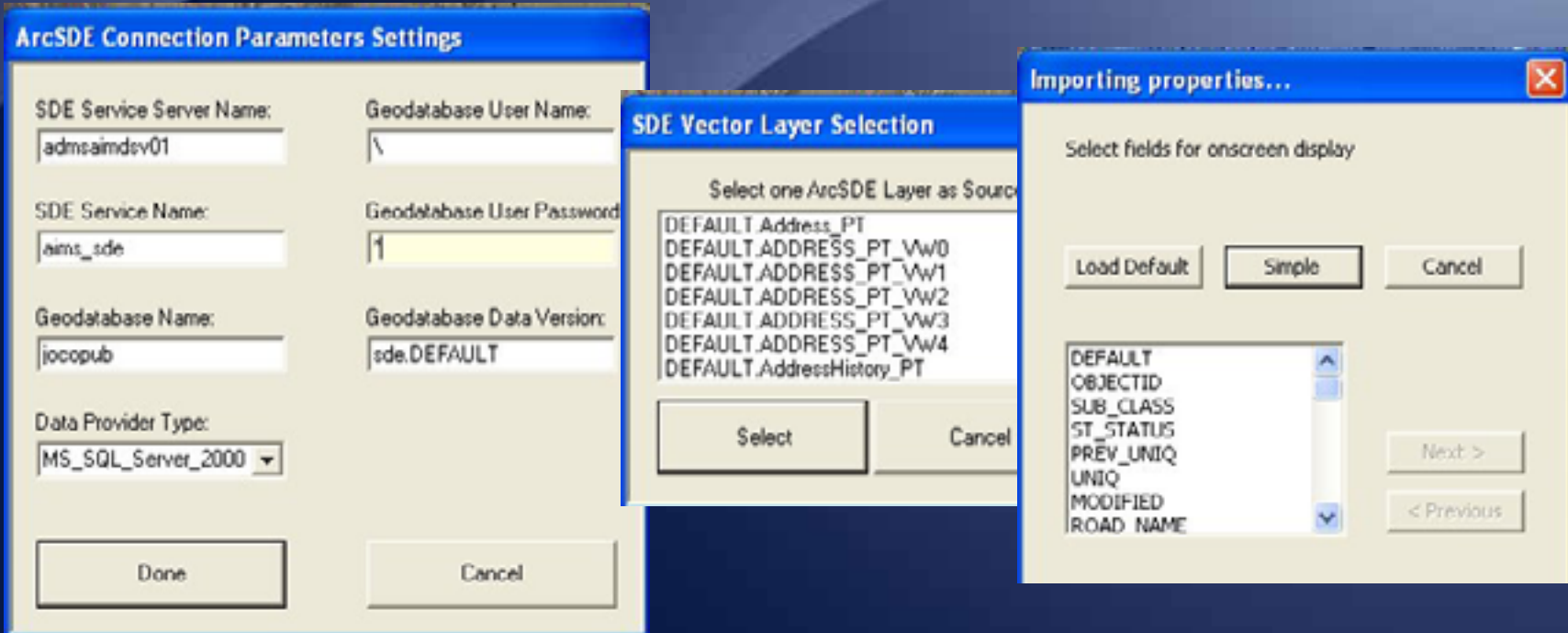
- Multivision
- Arcmap
- Web - Johnson County Online Mapping

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# Multivision



# Multivision - SDE Access



The image displays three overlapping dialog boxes from a GIS application, likely ArcGIS, used for configuring SDE access. The background is a dark blue gradient with light blue curved lines.

**ArcSDE Connection Parameters Settings**

SDE Service Server Name: admsaimdsv01  
Geodatabase User Name: \

SDE Service Name: aims\_sde  
Geodatabase User Password: 1

Geodatabase Name: jocopub  
Geodatabase Data Version: sde.DEFAULT

Data Provider Type: MS\_SQL\_Server\_2000

Buttons: Done, Cancel

**SDE Vector Layer Selection**

Select one ArcSDE Layer as Source

- DEFAULT.Address\_PT
- DEFAULT.ADDRESS\_PT\_Vw0
- DEFAULT.ADDRESS\_PT\_Vw1
- DEFAULT.ADDRESS\_PT\_Vw2
- DEFAULT.ADDRESS\_PT\_Vw3
- DEFAULT.ADDRESS\_PT\_Vw4
- DEFAULT.AddressHistory\_PT

Buttons: Select, Cancel

**Importing properties...**

Select fields for onscreen display

Buttons: Load Default, Simple, Cancel

- DEFAULT
- OBJECTID
- SUB\_CLASS
- ST\_STATUS
- PREV\_UNIQ
- UNIQ
- MODIFIED
- ROAD\_NAME

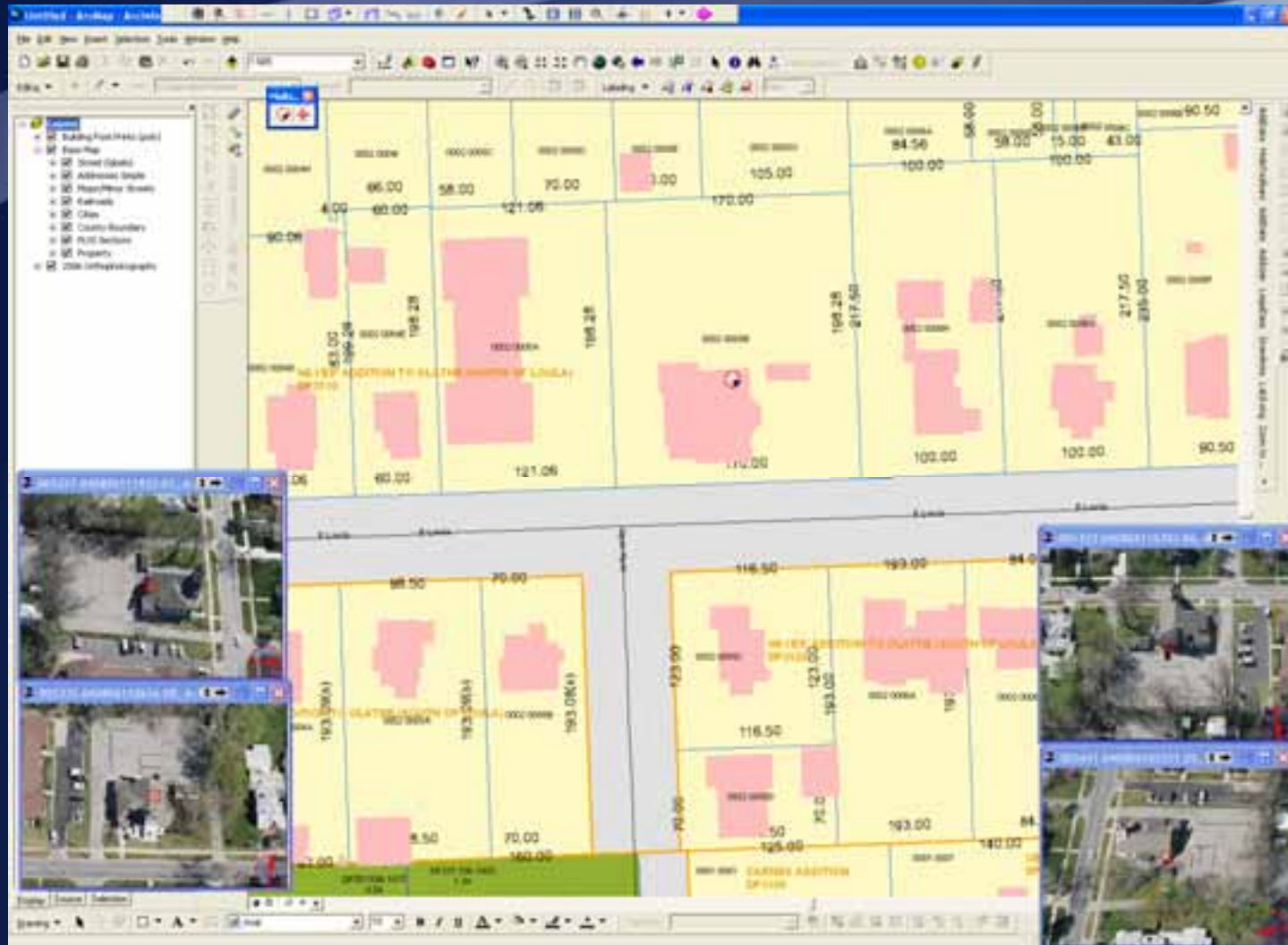
Buttons: Next >, < Previous

# Multivision - SDE Access



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# Arcmap



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# Web

The screenshot shows the AIMS web application interface. At the top, it reads "Automated Information Mapping System" and "Geographic Data & Service Provider for Johnson County, Kansas". Below this is a navigation bar with links for "Redraw", "Print", "Current News", "Training", and "AIMS Home". The main interface is divided into several sections:

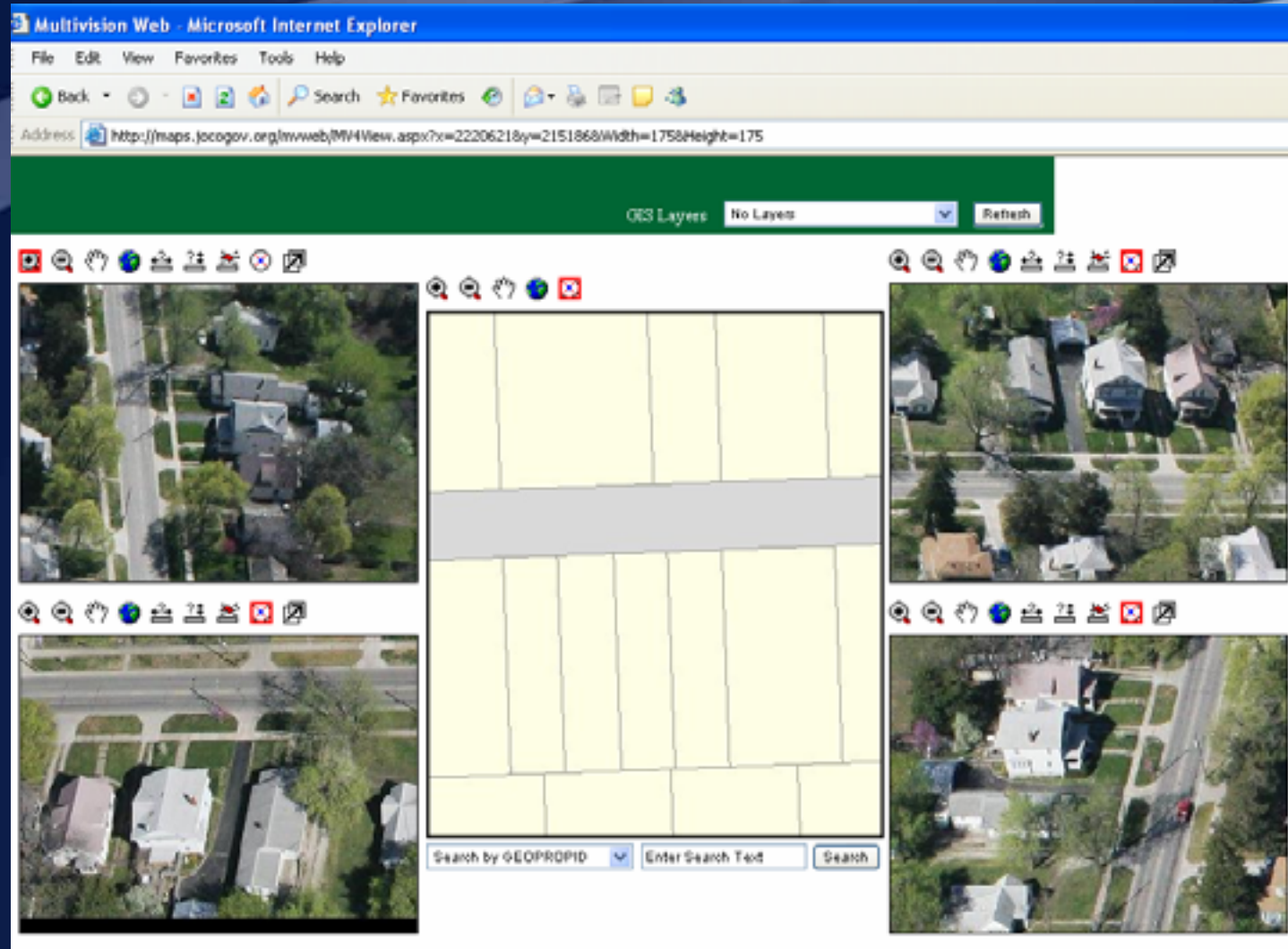
- Select Layers:** A legend on the left with expandable categories: "Property Layers" (containing "Property Dimensions", "Property Lines", and "Property Polygons"), "Aerial Images", "Planimetric Layers", "Other Layers", "Admin. Layers", "School Layers", and "Utility Layers". A "Redraw" button is located below the legend.
- Map:** A central map area showing a grid of property parcels. One parcel is highlighted in yellow, and a red triangle cursor is positioned over it.
- Select option & click on map:** A control panel on the right with options for "Zoom In", "Zoom Out", "Zoom to Feature", "Id Feature", "Pan", "Measure", "Draw Box", and "Draw Polygon". It also includes a "Search For Location:" input field and a "Locate It!" button.
- Map Information:** At the bottom of the map area, it displays "318 Feet Across" and "Map Size: Small Medium Large".

At the bottom of the page, there are links for "Terms of Use", "Privacy Policy", "Comments", and "JoGo Home", along with a copyright notice: "Copyright ©2007 Johnson County, Kansas - Automated Information Mapping".

The screenshot shows a "Microsoft Internet Explorer" window titled "Identify Results". The window displays the following information:

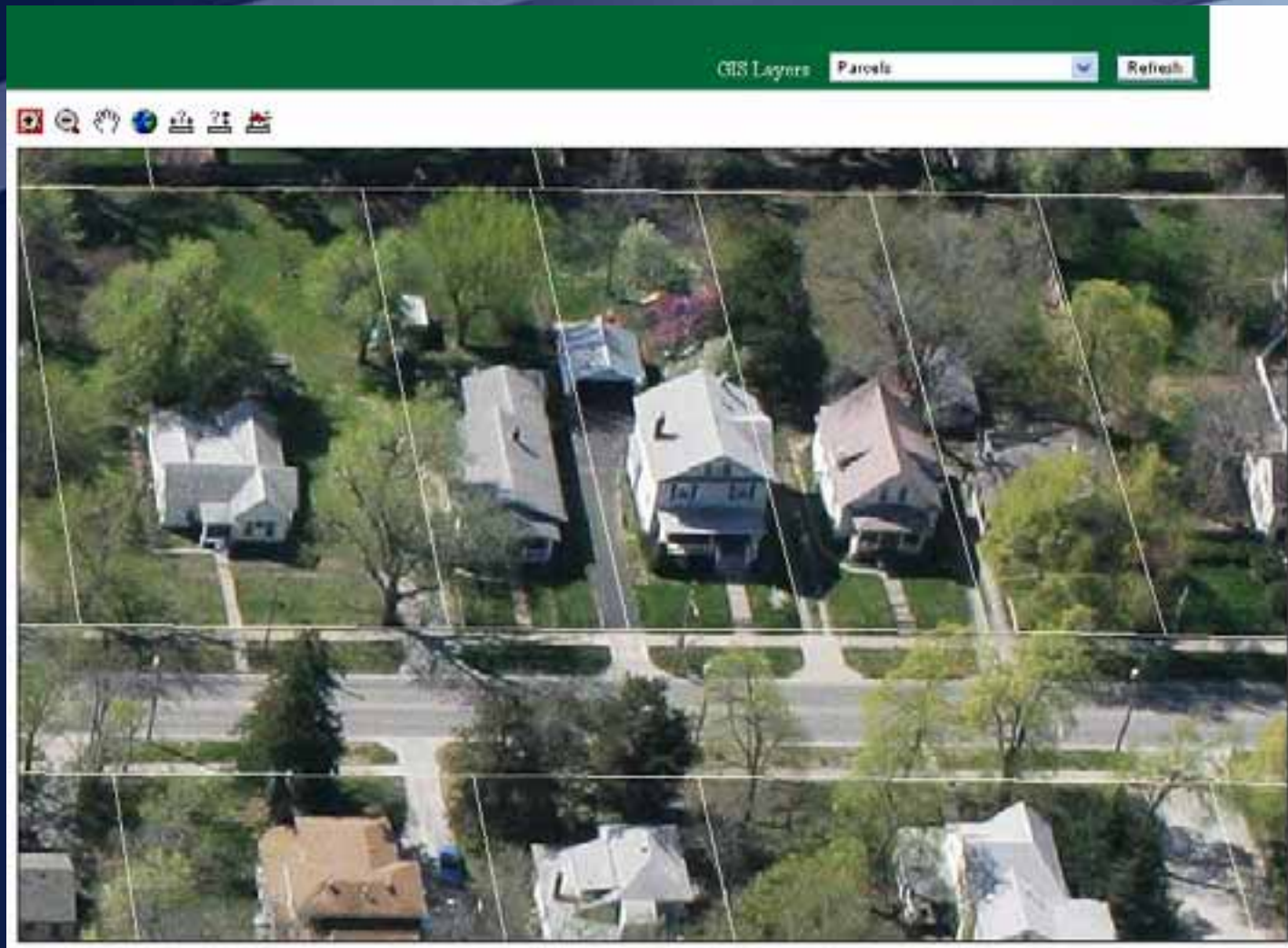
- Navigation tabs: "Property", "Location", "School", "Plot", "Legal", "Utilities", and "Image".
- Header: "Welcome Shannon" with links for "Logout", "Search", "Print All", and "Map Feature".
- Section: "Primary Image(s)" with a "View Obliques" link.
- Image: A photograph of a two-story white house with a porch.
- Text below image: "DP31200002 0007D 12/04/2003" and "12/4/2003".
- Section: "Historical Image(s)".

# Web



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# Web



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# Future Access Goals

- Orion
- Tritech
- Intergraph
- WebEOC

# Conclusions

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

Shannon Porter  
Senior GIS Analyst  
111 S Cherry St, Ste 3500  
Olathe, KS 66061  
913-715-2231

[Shannon.porter@jocogov.org](mailto:Shannon.porter@jocogov.org)

***aims.jocogov.org***

