

The background of the slide is a stylized map of a region, likely the state of Rhode Island, rendered in white lines on a dark blue background. The map shows a dense network of roads and highways. A specific area in the central-western part of the map is highlighted with a red outline, possibly indicating a location of interest or a specific project area. The text is centered over the map.

RIDOT GIS Activities

RIGIS User Group Meeting

Stephen Kut

RIDOT

Presentation Topics

- Pictometry Imagery Project Update
- GIS Historic Review Project
- GIS / CAD Integration

Pictometry Project Details

- Digital Imaging Project Funded Through a RIEMA Homeland Security Grant
- PM by RIDOT and RIE911
- Licensed to all State and Local Agencies
 - Hard Drives provided to all cities/towns
 - Enterprise server for State Agencies
 - Provided to CRMC, PEMA, Prov. Water, Consultants
- Software and Training Provided
- Leveraged E911 Sites and Roads for Geocoding

Pictometry Imagery

- Oblique (30°) Image Formats
 - Proprietary Pictometry
- Nadir (Ortho) Image Formats
 - Proprietary Pictometry
 - TIFF
 - 5300 Tile, 1.1 TB
 - Compressed ERDAS .ecw
 - 70 Tiles, 50 GB



Oblique

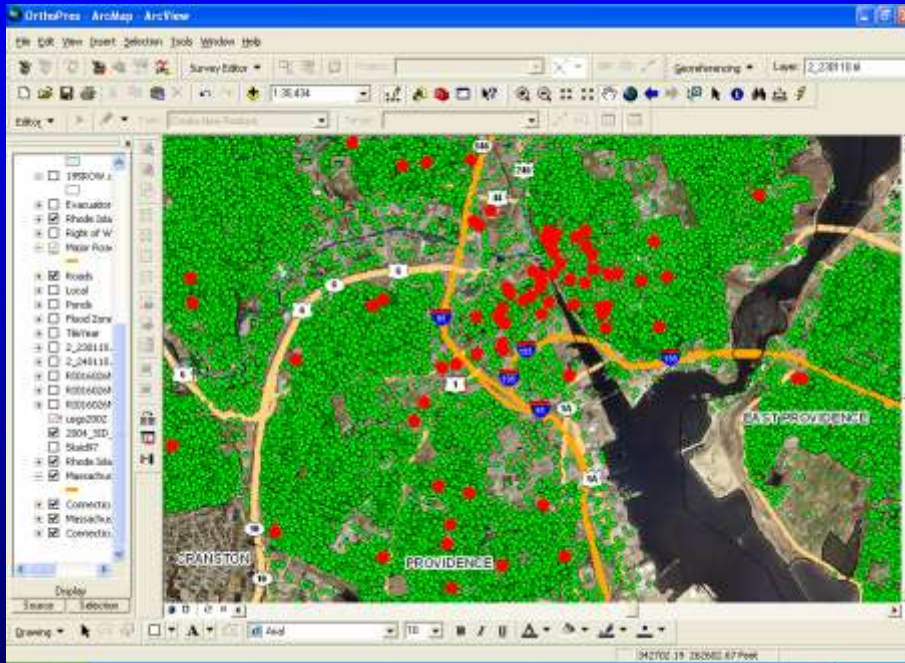


Nadir

Getting Access to Imagery

- State Agencies
 - Contact Agency GIS Coordinator
 - Contact DoIT Service Desk
- Towns
 - Responsible for Local Distribution
- State and Local Consultants
 - Must have active contract and completed license agreement
- All
 - Nadir images through URI Digital Atlas
 - ArcGIS service or Google kmz file
 - Oblique images at Bing.com

GIS Historic Review



- RIDOT and RIHPHC
- Streamline Section 106 Historic Review
- Updating GIS database base on E911 site file
 - National Register, Candidate, Districts
- Scanned Paper Documents
- Developing workflow for digital submission of findings to HPHC

Geocoding Process

➤ Address Clean Up

- Addresses which have a letter after a number-**Example: 392-A Card Ponds Rd**
 - Remove slash and make 392-A become 392A
- Range of numbers - **Example: 139-145 High St**
 - Geocode automatically takes out slash and the address would be read 139145 High St.
 - Made each address in the range its own individual site. This way, 139-145 High St becomes 139 High St, 140 High St., etc.

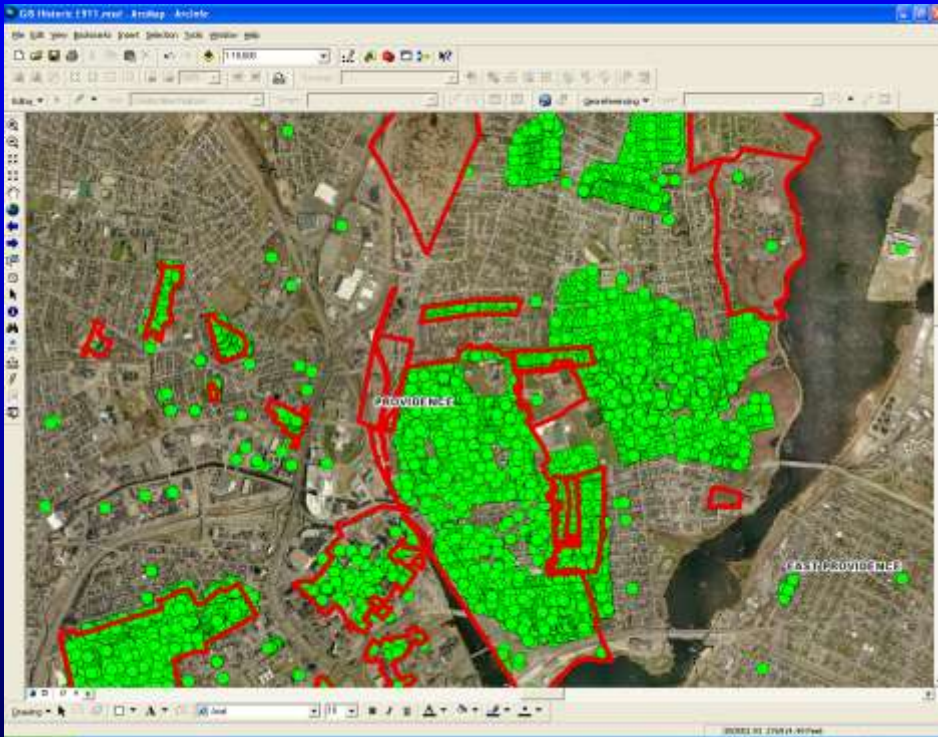
Geocoding Process

- Address Clean Up Cont.
 - Address has 1/2 after a full number-**Example: 266-1/2 Wood St**
 - Corrected these addresses by taking out the slashes between the number and 1/2 mark
- Street's which have numbers as names did not geocode -**Example: Second St or Third St**
 - Changed names to the actual number (2nd or 3rd st)

Geocoding Numbers

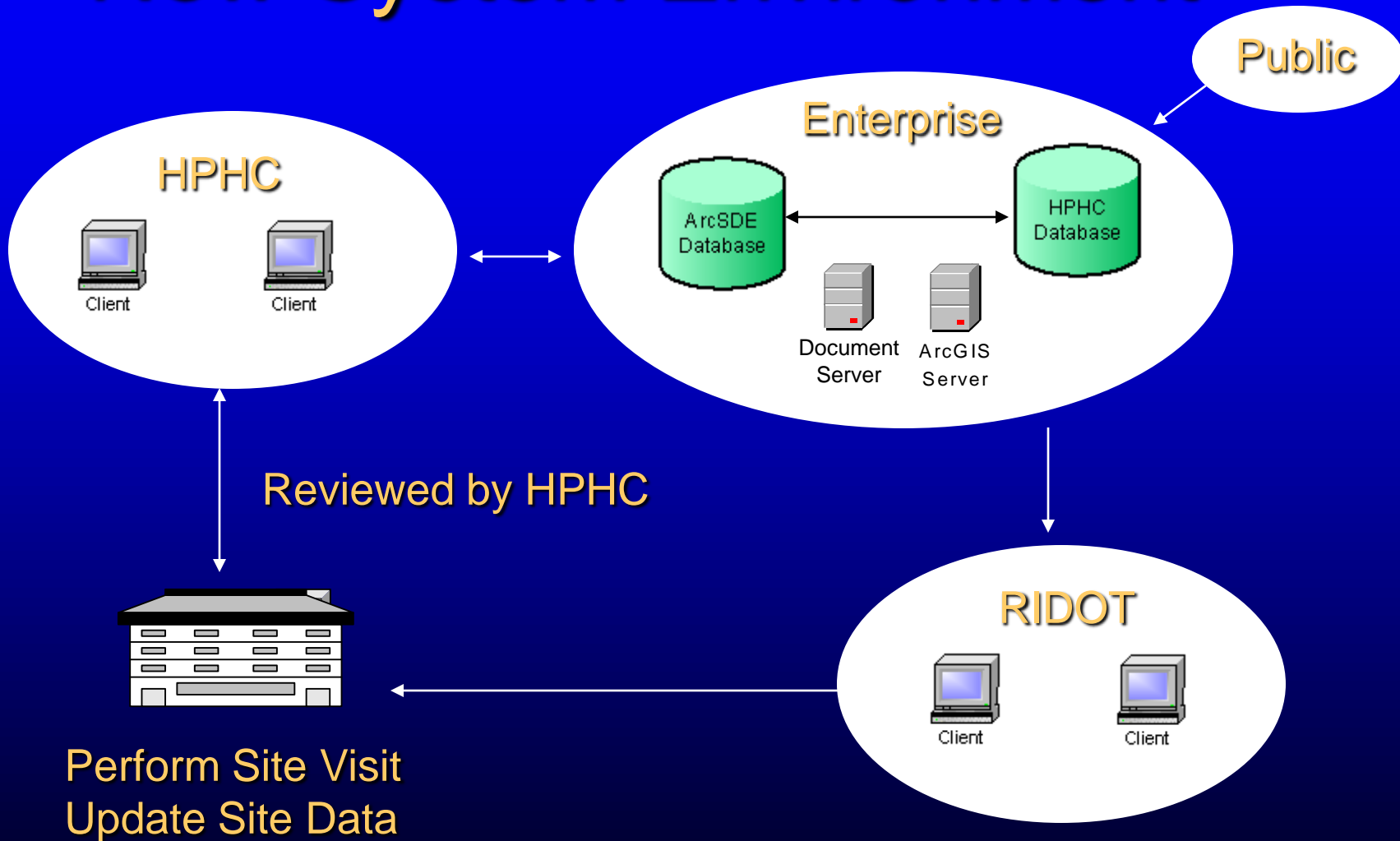
- HPHC Database contains 17,670 records
 - Matched over 19,000 sites
 - Increase due to splitting of address ranges
 - Unable to match 6,500 records
 - Lack of address information

Geocode Results



- Verify District Boundaries
- Identify new or updated districts
- Updated Historic site layer
- Final QA performed by RIHPHC

New System Environment

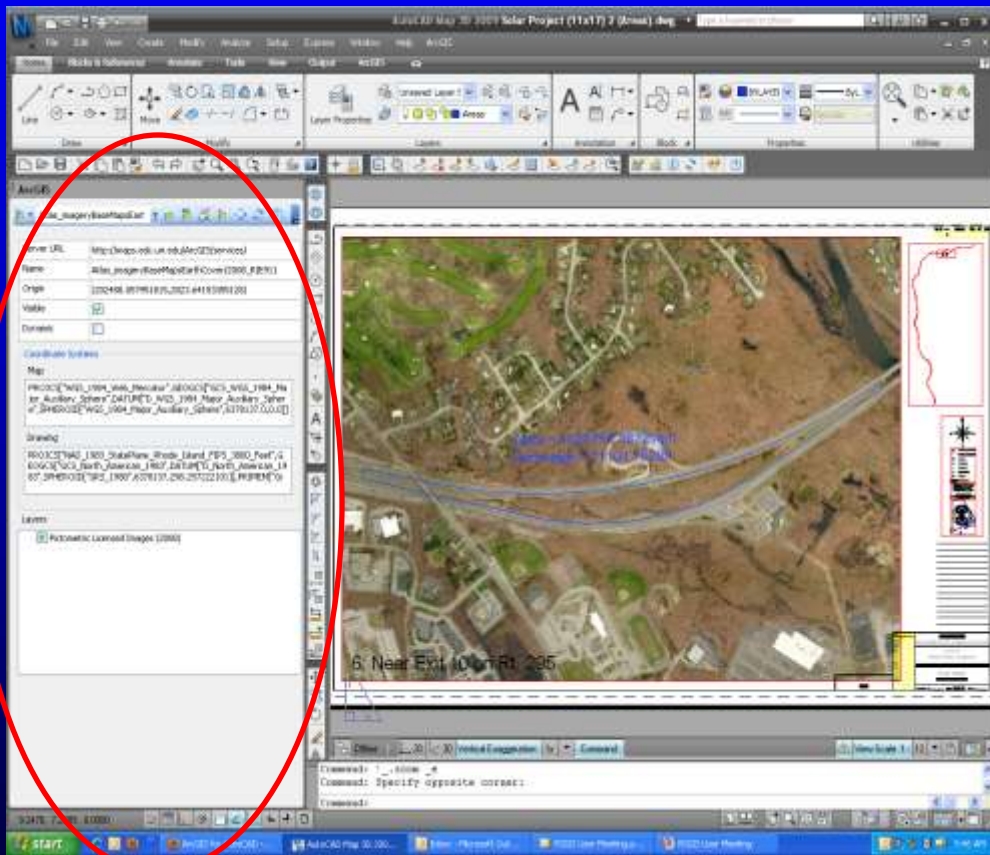


AutoCAD Map

- Create and manage spatial data. Bridged the gap between CAD and GIS.
- Enables engineers, planners, mapping technicians, surveyors, and GIS professionals to directly access, edit, visualize, and analyze a broad variety of CAD and spatial data in a familiar AutoCAD software environment.

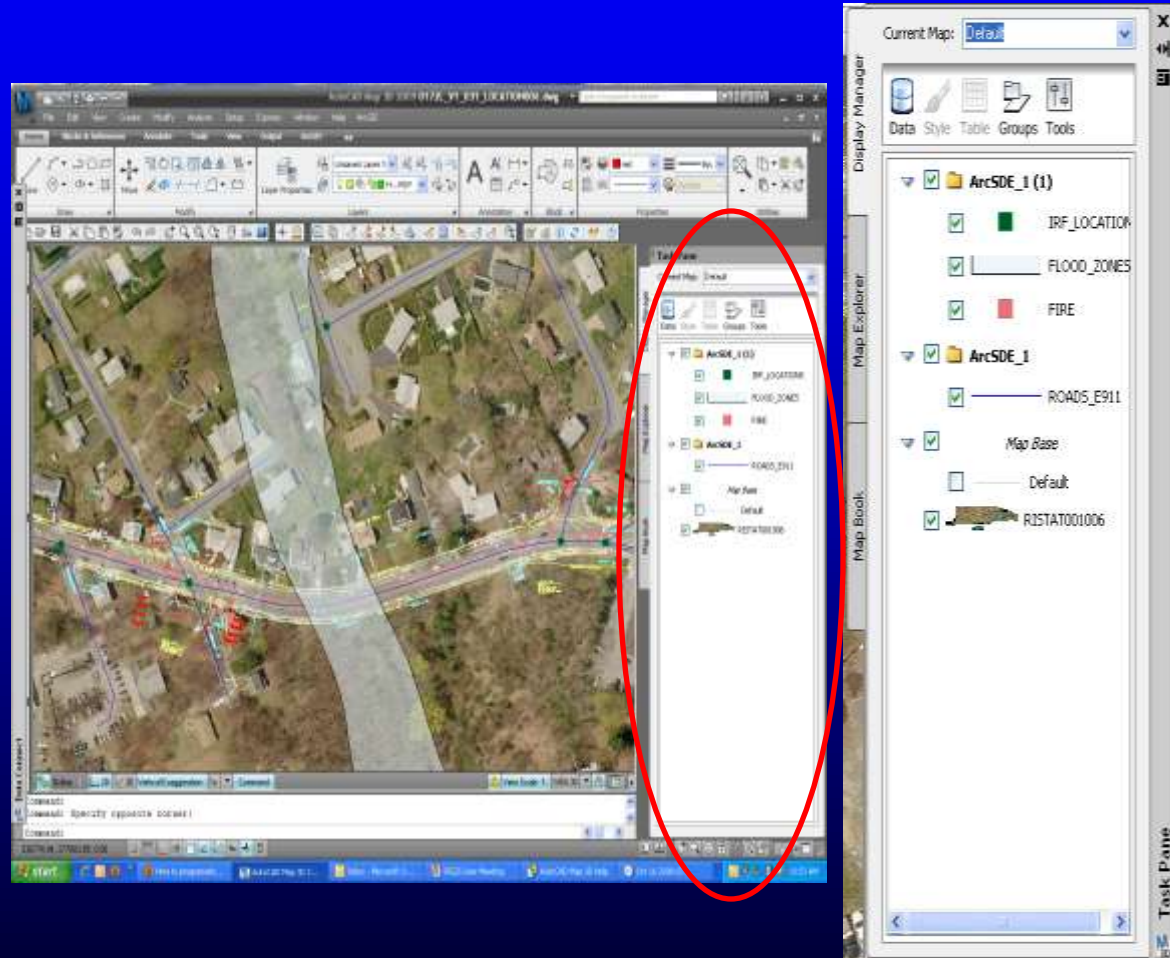
ArcGIS for AutoCAD

- Tool offers seamless interoperability between AutoCAD and the ArcGIS platform.
- Gain easy access to enterprise GIS data and imagery published by ArcGIS Server.
- Provides the ability to prepare CAD data for ArcGIS using your existing CAD standards.



Map Task Pane

- Provides centralized access to the tasks and needed to create, manage, display, and publish maps.
- Data Connections:
ArcSDE, MySQL, ODBC, Oracle, SDF, SHP, SQL, WFS, WMS, Raster.



Ultimate CAD Goals

- Update information on the servers directly from AutoCAD Map 2009 without having to use any supplementary program.
- Gain access to multiple data types directly from AutoCAD
- Facilitate the gathering of geospatial information in AutoCAD for engineers, surveyors, planners and other users.

