



## **LIGIS User Conference**

*May 22, 2014*

GIS Program Office

NYS Office of Information Technology Services

# Today's Agenda

- What is the SAM Project?
- Background
- Project status
- Files provided to counties
- Data maintenance
- Free upcoming NENA training class
- A look at the data deliverables

# **SAM Project Objective**

***Create a statewide authoritative  
address point database to support  
Next Generation 9-1-1  
and other purposes***



Phone Number

Automatic Number Identification (ANI)



Add Street Address

Automatic Location Identifier (ALI)



Add Emergency Service Zone

Master Street Address Guide (MSAG)



Look up Police, Fire, EMS

Emergency Service Provider  
Lookup Table

# Current Land Line Tabular look-up



Phone Number  
or email, text, video  
and **X, Y**  
(no Address)

# Next Generation ~~Mobile Phone~~ Device



Add Street Address  
**NYS Address Point File**

OCS



# Many Uses for Address Data Beyond 9-1-1 Dispatch

- Sex offender placements
- Sales tax collection and distribution
- Environmental permitting
- Welfare to Work programs
- School bus routing
- Emergency response planning & recovery
- Tax fraud analysis
- Statewide Enterprise Geocoding

# Background

- NYS GIS Program Office
  - 10+ years building GIS Address Points
  - Awarded NTIA Broadband Mapping supplemental funds
- NYS 9-1-1 Coordinators
  - Understood NG 9-1-1 will **require** GIS data
  - Desired a Statewide Master Address file
- Big Picture
  - *Huge range of needs for address data statewide*
  - *One master address point database*
  - *Building to highest level requirements (i.e. 9-1-1) will support all lower requirements*
  - *Eliminate duplication of effort*

# A timely partnership opportunity!



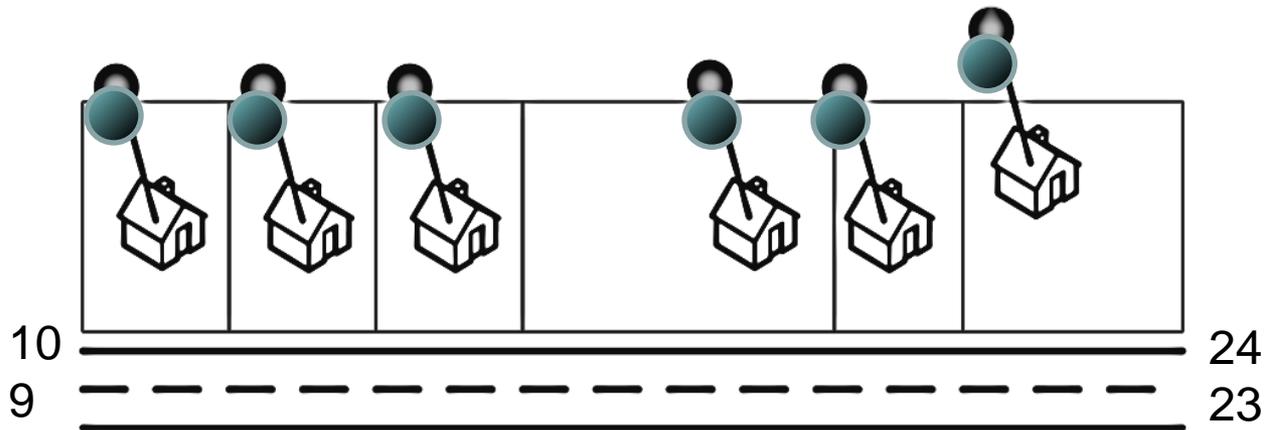
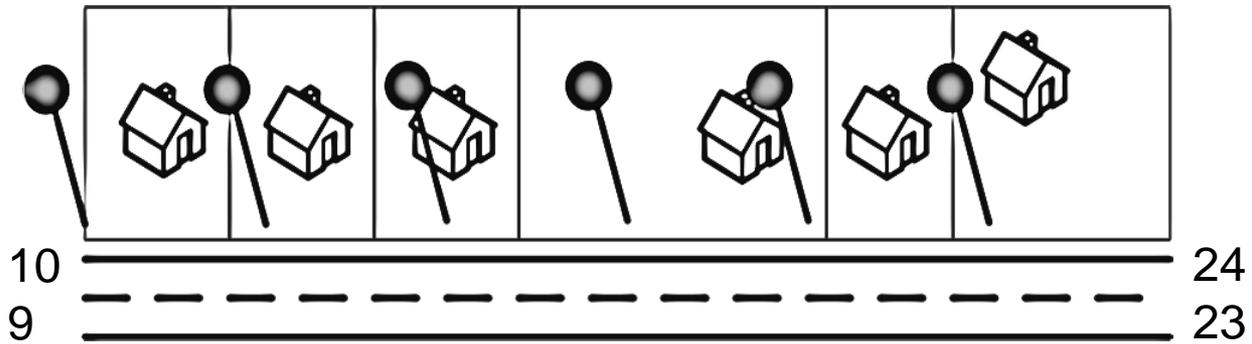
## So began the Street Address Mapping (SAM) Project

# Common Goals

- Address point data will:
  - *Support 9-1-1 dispatch and NG 9-1-1*
  - *Support high-quality geocoding*
  - *Be publically available for widespread uses*
  - *Contain no personal or sensitive information*
  - *Contain unique IDs*
- Build to NENA Standards
- Reduce data build and maintenance costs
- **Do it right, do it once**

# Geocoding Basics

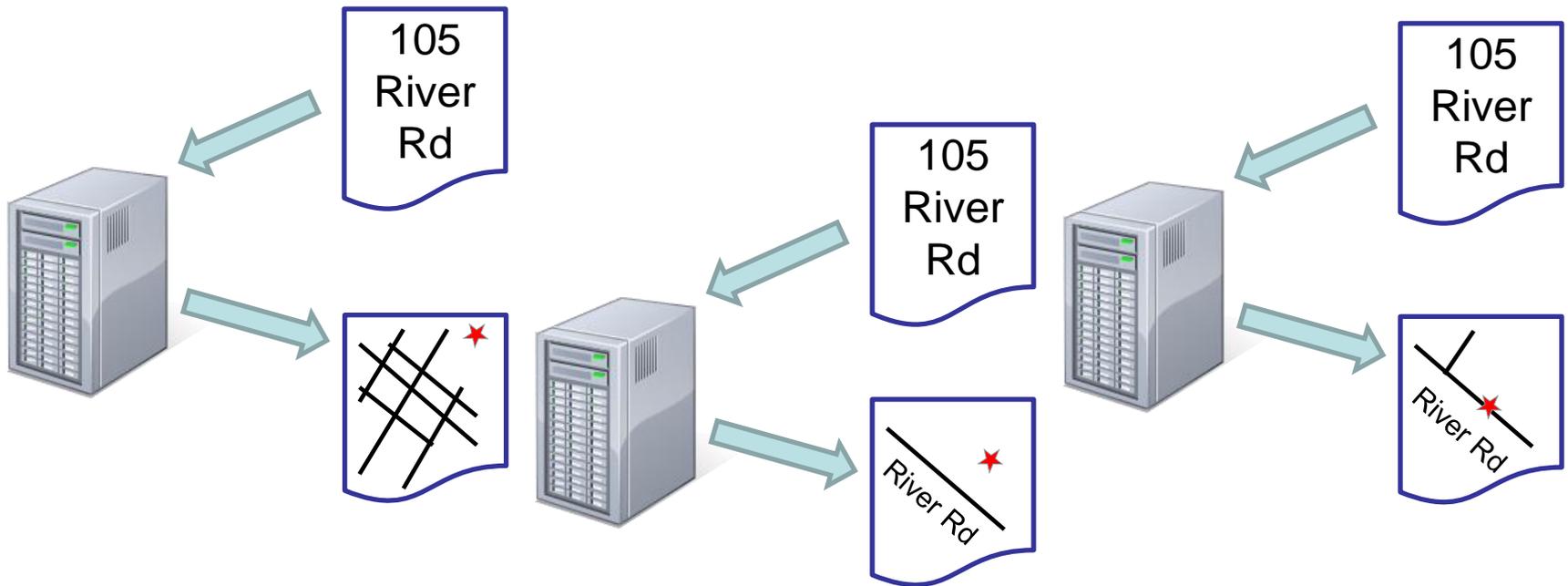
## Address matching vs. interpolation



# Current Geocoding Status Across the State

*Identical input addresses yield different results!*

State & local agencies currently use their own data for geocoding, yielding different results



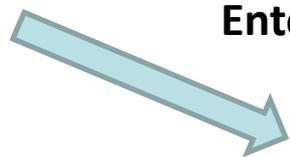
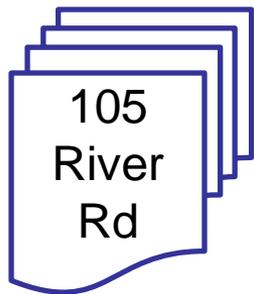
# Geocoding With a Centralized Service

*Identical input addresses yield identical results*

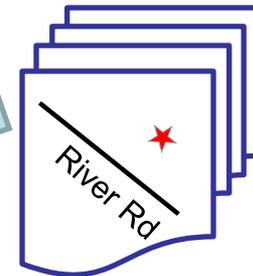
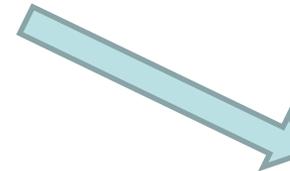
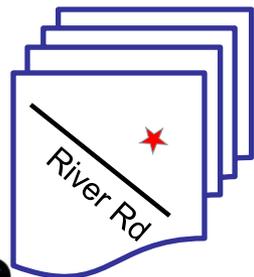
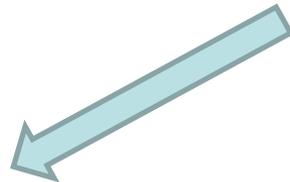
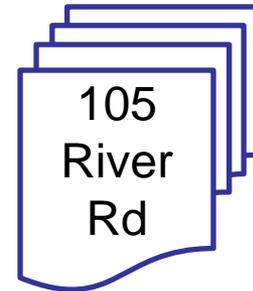
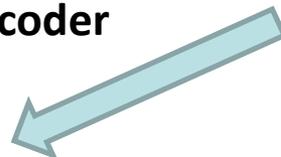
<http://gisservices.dhSES.ny.gov/arcgis/services>

Counties, Cities and Towns

State Agencies



Enterprise Geocoder



# Statewide Address Point Build: 2 Stages

## Stage 1:

### State contracts for:

- “Principal” (main structure) point on building footprint
- Parcel centroids for vacant addressed parcels
- Addresses in draft NENA standard

### State in-house tasks:

- Outreach to counties for data
- QA/QC of data deliverables



**Stage 1**  
*Building Rooftops*  
*Centroids of Vacant Parcels*

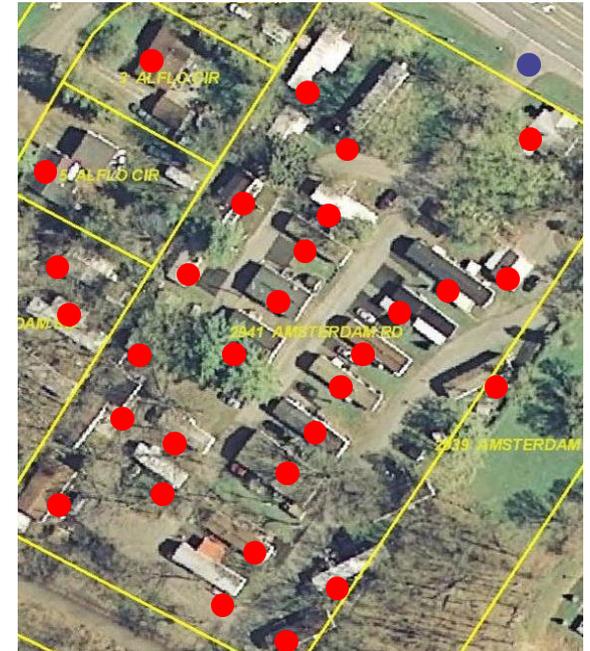


# Statewide Address Point Build: 2 Stages

## Stage 2:

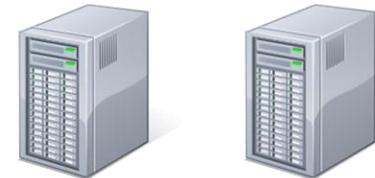
Counties use NENA standards to:

- **Locate** addresses identified in exception report
- **Add new points**
- **Refine** locations
- Map **subaddresses**

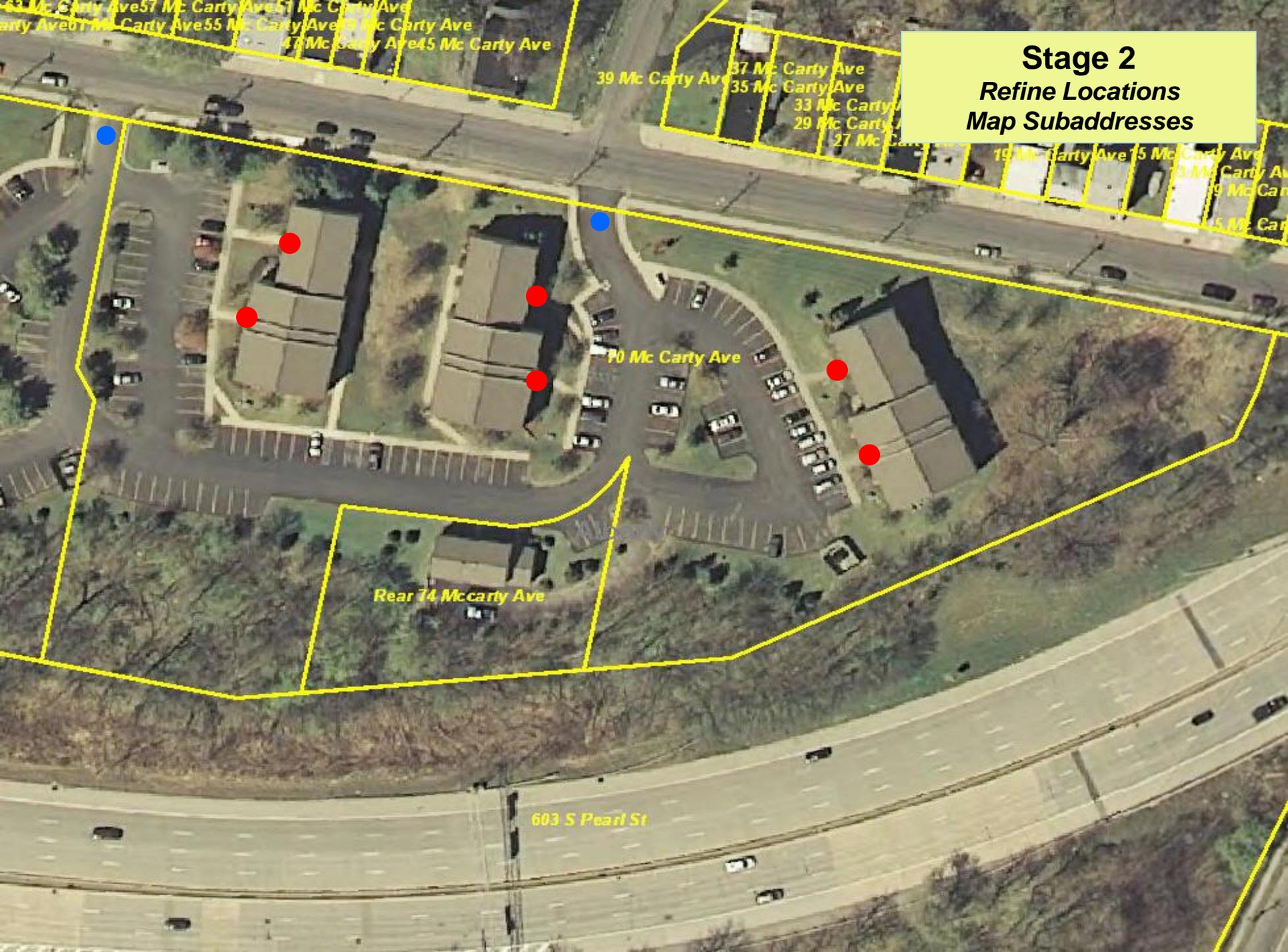


State provides:

- Data maintenance tools
- Data hosting/distribution services



**Stage 2**  
**Refine Locations**  
**Map Subaddresses**



39 Mc Carty Ave

37 Mc Carty Ave

35 Mc Carty Ave

33 Mc Carty Ave

29 Mc Carty Ave

27 Mc Carty Ave

19 Mc Carty Ave

15 Mc Carty Ave

13 Mc Carty Ave

11 Mc Carty Ave

9 Mc Carty Ave

7 Mc Carty Ave

5 Mc Carty Ave

3 Mc Carty Ave

1 Mc Carty Ave

47 Mc Carty Ave

45 Mc Carty Ave

43 Mc Carty Ave

41 Mc Carty Ave

39 Mc Carty Ave

37 Mc Carty Ave

35 Mc Carty Ave

33 Mc Carty Ave

31 Mc Carty Ave

29 Mc Carty Ave

27 Mc Carty Ave

25 Mc Carty Ave

23 Mc Carty Ave

21 Mc Carty Ave

19 Mc Carty Ave

17 Mc Carty Ave

15 Mc Carty Ave

13 Mc Carty Ave

11 Mc Carty Ave

9 Mc Carty Ave

7 Mc Carty Ave

5 Mc Carty Ave

3 Mc Carty Ave

1 Mc Carty Ave

70 Mc Carty Ave

Rear 74 Mccarty Ave

603 S Pearl St

# Developing the Partnership

- Leadership meetings
- Jointly identified:
  - Common goals
  - Individual strengths
  - Appropriate roles
  - Potential problems
  - Needed standards
  - Other stakeholders
- Developed an outreach plan



# Stakeholder Outreach Meetings

- Regional NYS 9-1-1 Coordinator Meetings
- County Real Property Tax Directors
- NYS Association of Counties
- NYS GIS community
- County/Local IT Directors
- NENA
- US Census Bureau
- CAD vendors / consultants
- GIS software vendors



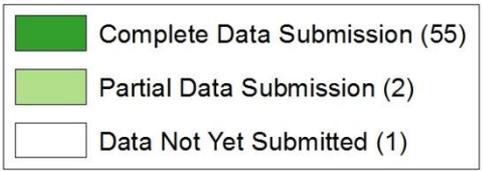
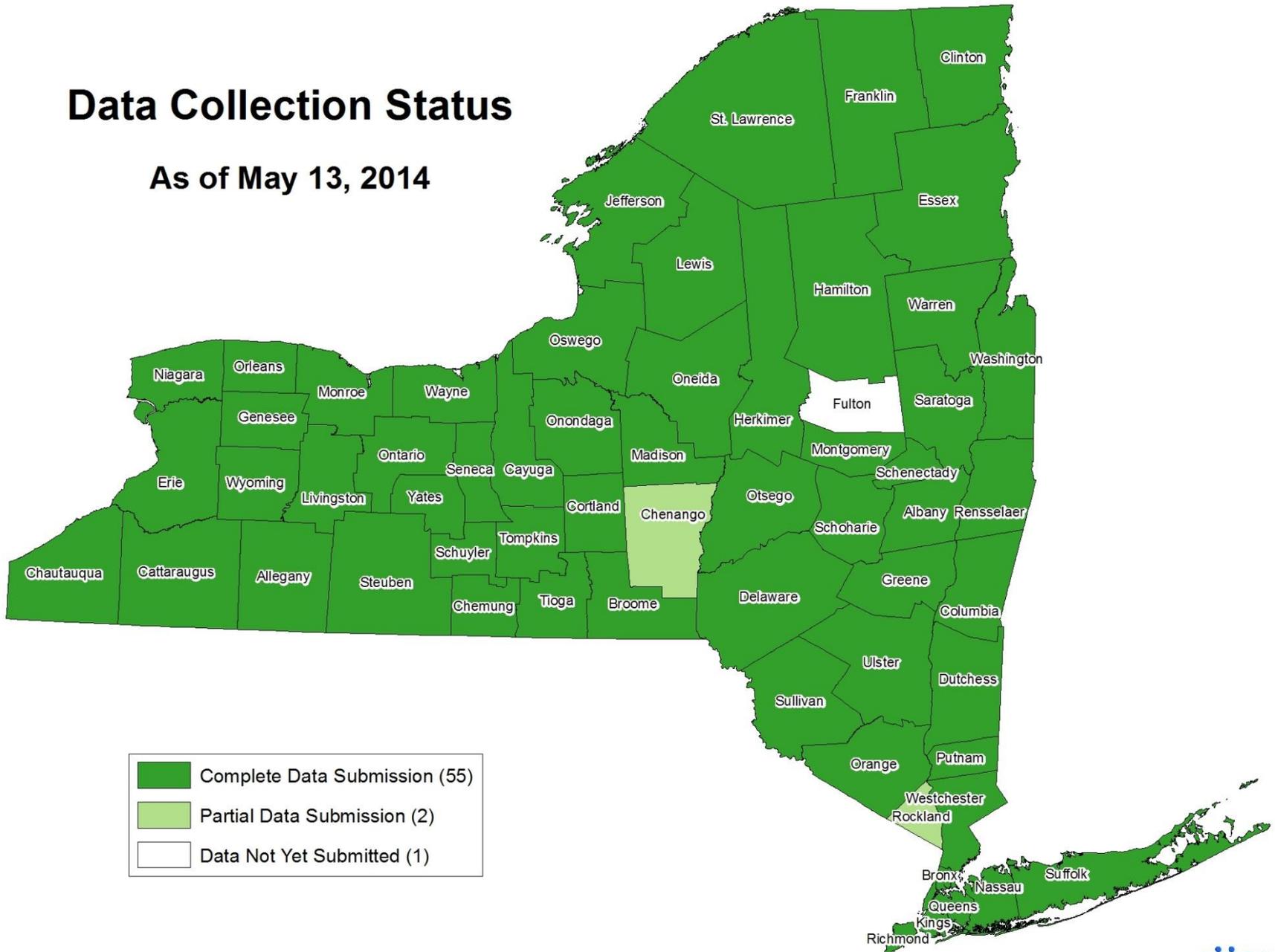
# Follow Up with Individual Counties

- Initial information collection
  - Contact sheet
  - Questionnaire
- On site meetings with County-level stakeholders
- Post meeting
  - Sample data
  - Source Usage Document
  - Data Usage Agreement
- Pilots
  - Data Build
  - QA/QC



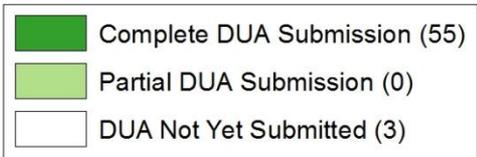
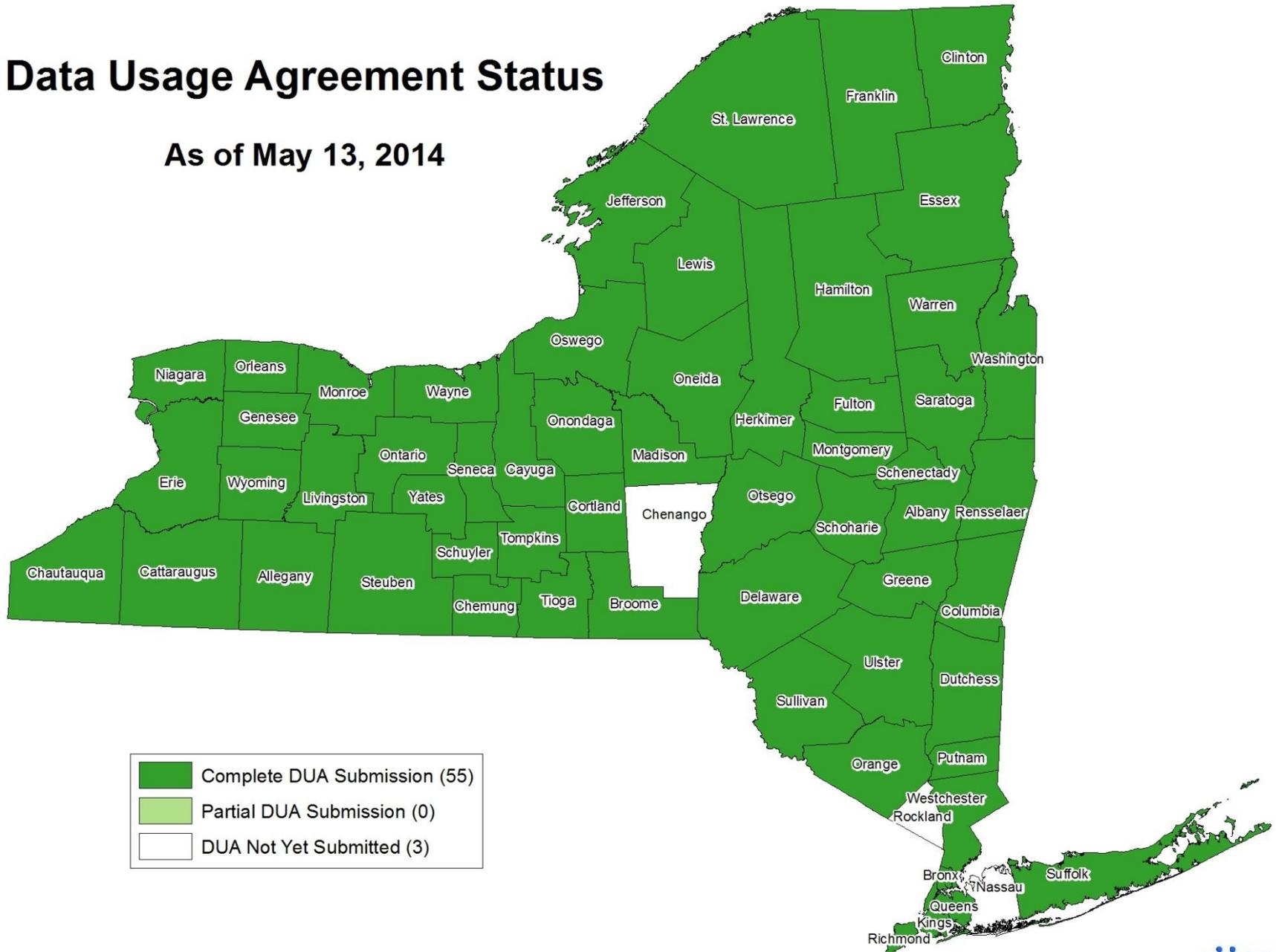
# Data Collection Status

As of May 13, 2014



# Data Usage Agreement Status

As of May 13, 2014



# Involvement in NENA GIS Standards

- *Civic Location Data Exchange Format (CLDXF) Standard*
  - Breaks out addresses into smallest data elements
  - XML used to share data components in a NG9-1-1 system
- *NG9-1-1 GIS Data Model Standard*
  - Identifies the GIS data layers & defines attributes
- *Site/Structure Address Point GIS Data for 9-1-1*
  - Where to place a point & how many points
  - An Information Document, not a Standard
- *Provisioning and Maintenance of GIS data to ECRF/LVF Standard*
  - Loading local GIS data into regional, statewide, and national databases
- *NG9-1-1 Data Management Standard*
  - Discrepancy Reports for errors discovered during data provisioning
- NENA web site: [www.nena.org](http://www.nena.org)

# Data in NENA Draft Standard

**Before**

| ADDRUNITS                        | APUNIT   |
|----------------------------------|----------|
| 132 GRANT EGBERT BLVD E BLDG G28 | 2-7 FL 4 |

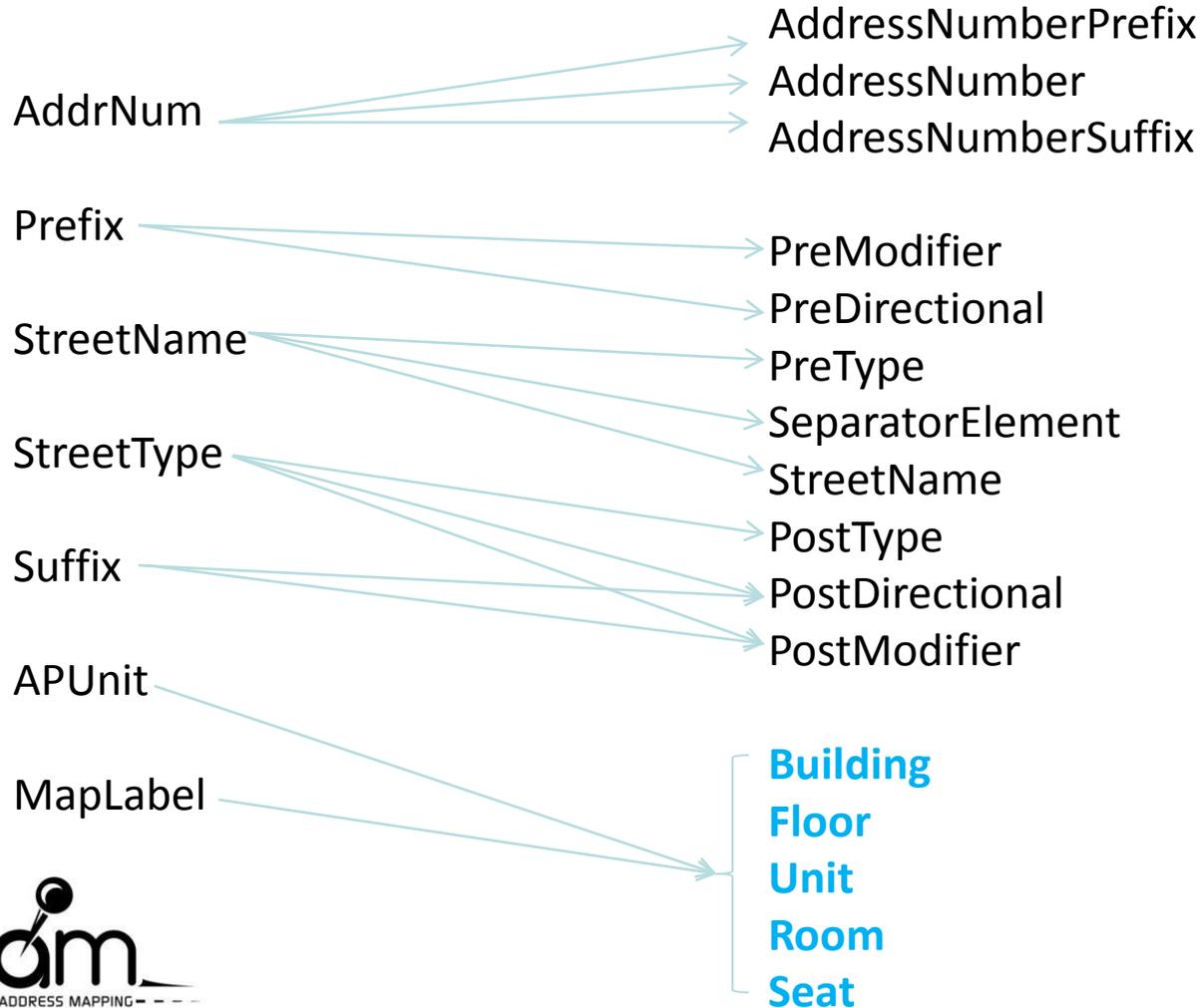
**After**

| AddressNumber | StreetName   | PostType | PostDirectional | Building     | Floor   | Unit |
|---------------|--------------|----------|-----------------|--------------|---------|------|
| 132           | GRANT EGBERT | BLVD     | E               | BUILDING G28 | FLOOR 4 | 2-7  |

# Field Matching

## Tompkins County Schema

## NENA Standard



# SAM Contract

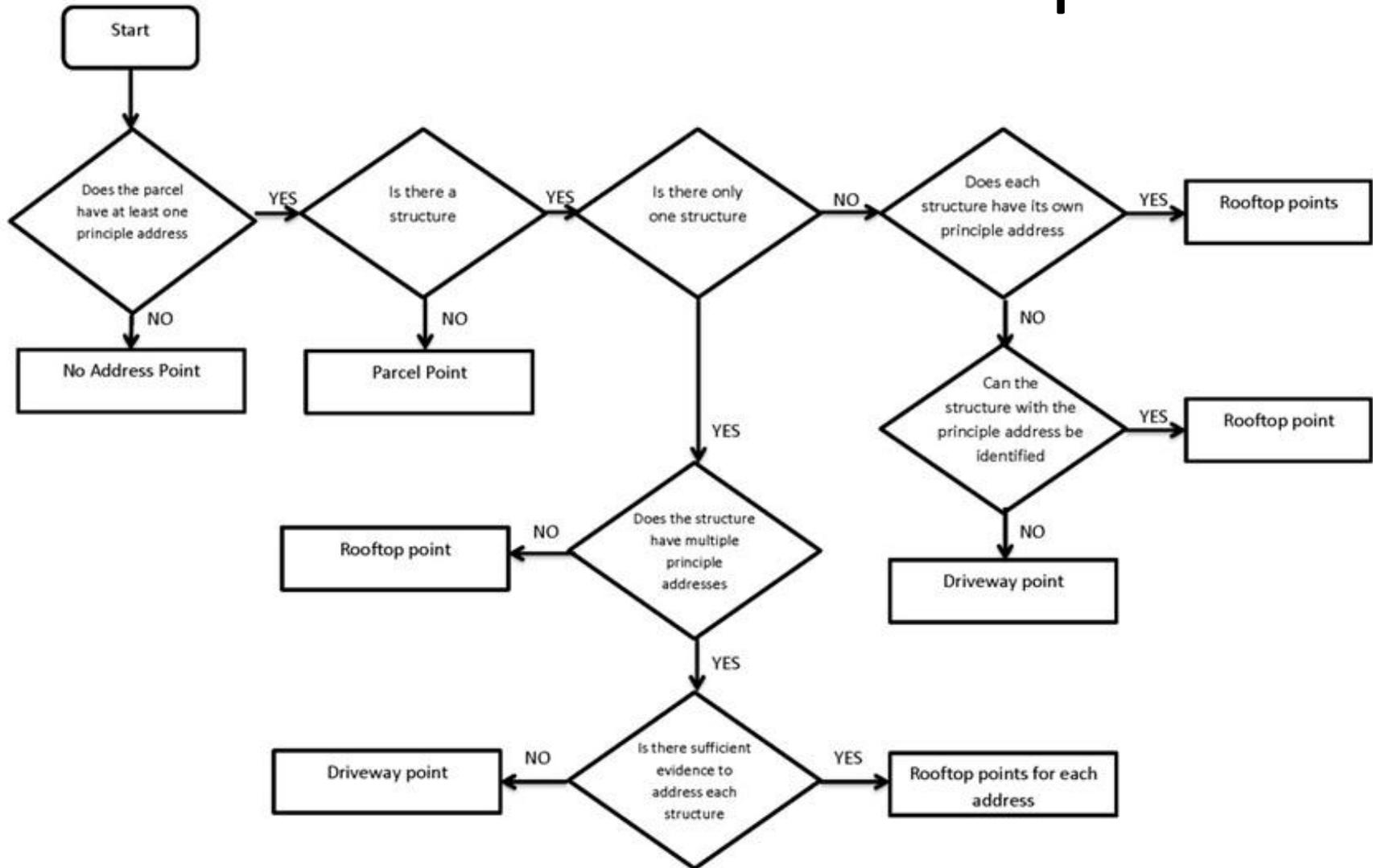
- Intrado/GDR team selected
- Kickoff meeting March 18, 2013
- Funds expire September 30, 2014
  - Just extended to January 31, 2015 !!
- Deliverable schedule by county
  - Projected total of 5 million principal address points
  - Schedule order is flexible
- Intrado/GDR providing available subaddresses
- **\$2 million investment in core 9-1-1 GIS data**

 intrado®

 **GDR**  
GIS Data Resources, Inc.



# Point Placement Examples



## Residential House with Multiple Buildings Moved to Rooftop



In this example, there are multiple buildings within a single parcel but only one parcel centroid address point. Since there is only a point for the main structure within the parcel and no additional point for the barn, the centroid point gets moved to the rooftop of the house.

### Source Data

| NYS Address Points |            |          |       |        |
|--------------------|------------|----------|-------|--------|
| ADD_NUMBER         | STREETNAME | CITY     | STATE | POSTAL |
| 4533               | HURST RD   | ALTAMONT | NY    | 12009  |

| Albany County Tax Parcel Data |            |         |          |
|-------------------------------|------------|---------|----------|
| SBL                           | PROP_CLASS | LOC_NUM | LOC_NAME |
| 3800000030200010000           | 210        | 4533    | Hurst Rd |

## Driveway Entrance Points to Rooftop Points



In this example, the driveway entrance address points along Frisbee Hill Road have been moved to the rooftop of the principle structure within the parcel.

### Source Data

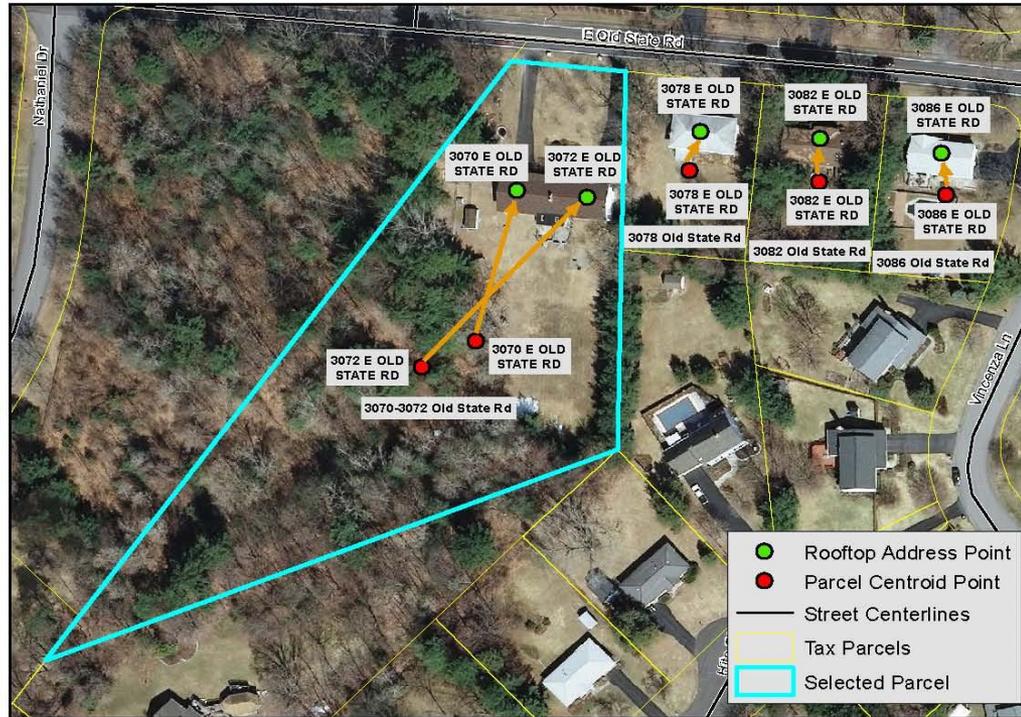
| Monroe County Address Points |        |                   |            |              |  |
|------------------------------|--------|-------------------|------------|--------------|--|
| SBL                          | ST_NBR | RPS_ST_NAM        | PROP_CLASS | PROP_DESC    |  |
| 26280003301000020330000000   | 346    | Frisbee Hill Road | 210        | 1 Family Res |  |
| 26280003301000020320000000   | 336    | Frisbee Hill Road | 210        | 1 Family Res |  |
| 26280003301000020310000000   | 330    | Frisbee Hill Road | 210        | 1 Family Res |  |
| 26280003301000020300000000   | 324    | Frisbee Hill Road | 210        | 1 Family Res |  |
| 26280003301000020290000000   | 318    | Frisbee Hill Road | 210        | 1 Family Res |  |

| Monroe County Tax Parcel Data |        |                   |            |              |  |
|-------------------------------|--------|-------------------|------------|--------------|--|
| SBL                           | ST_NBR | RPS_ST_NAM        | PROP_CLASS | PROP_DESC    |  |
| 26280003301000020330000000    | 346    | Frisbee Hill Road | 210        | 1 Family Res |  |
| 26280003301000020320000000    | 336    | Frisbee Hill Road | 210        | 1 Family Res |  |
| 26280003301000020310000000    | 330    | Frisbee Hill Road | 210        | 1 Family Res |  |
| 26280003301000020300000000    | 324    | Frisbee Hill Road | 210        | 1 Family Res |  |
| 26280003301000020290000000    | 318    | Frisbee Hill Road | 210        | 1 Family Res |  |

Map created by NYS OCS, July 11, 2012



# Single Parcel with Multiple Points Moved to Rooftop



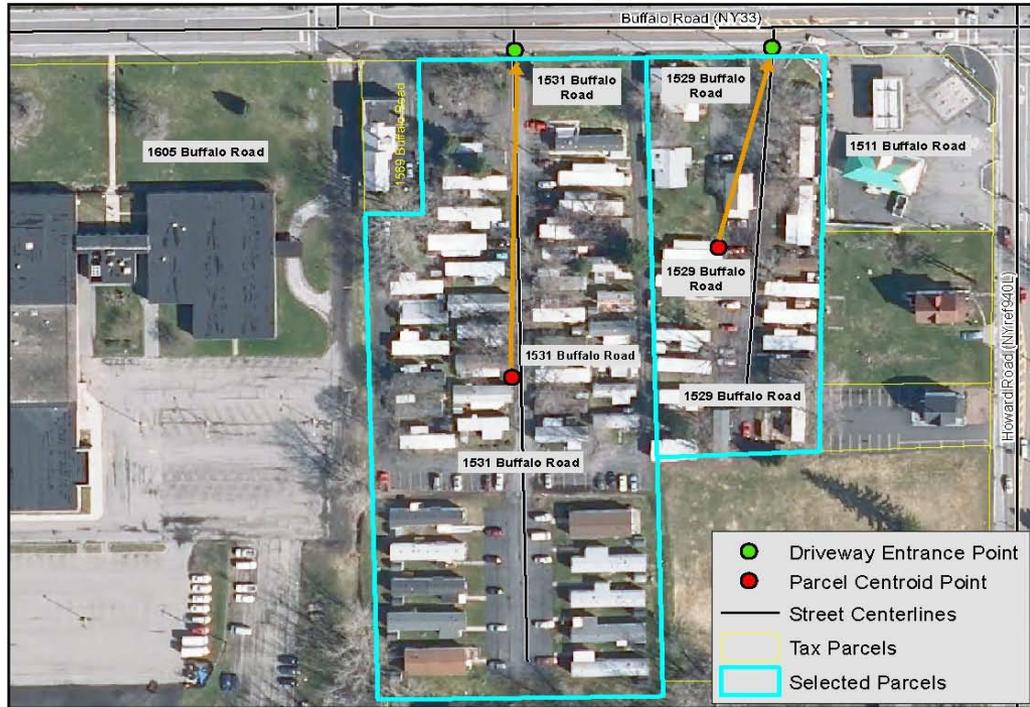
In this example, the Duplex in the selected parcel has 2 principle addresses in the same parcel and requires 2 points. Since the address numbers are increasing to the right, the lower numbered point was placed on the left of the roof and the higher numbered point was placed on the right of the roof. Since the three parcels to the right only have one building per parcel, the addresses were matched between the centroid points and parcels and points were moved to the rooftop.

## Source Data

| NYS Address Points |              |             |       |        |
|--------------------|--------------|-------------|-------|--------|
| ADD_NUMBER         | STREETNAME   | CITY        | STATE | POSTAL |
| 3070               | OLD STATE RD | SCHENECTADY | NY    | 12303  |
| 3072               | OLD STATE RD | SCHENECTADY | NY    | 12303  |

| Albany County Tax Parcel Data |           |              |            |  |
|-------------------------------|-----------|--------------|------------|--|
| SBL                           | LOC_NUM   | LOC_NAME     | PROP_CLASS |  |
| 02701900020370000000          | 3070-3072 | Old State Rd | 220        |  |

# Mobile Home Park with Single Point Moved to Driveway Entrance



In this example, there were only parcel centroid address points for these two mobile home communities. There were no addresses or points for the individual mobile homes in the data. Since there is no principle building within these two mobile home communities, the centroid points were moved to the driveway entrance.

## Source Data

| Monroe County Address Points |        |            |            |                |
|------------------------------|--------|------------|------------|----------------|
| SBL                          | ST_NBR | RPS_ST_NAM | PROP_CLASS | PROP_DESC      |
| 26260011910000030530000000   | 1531   | Buffalo Rd | 416        | Mfg Housing Pk |
| 26260011910000030540000000   | 1529   | Buffalo Rd | 416        | Mfg Housing Pk |

| Monroe County Tax Parcel Data |        |            |            |                |
|-------------------------------|--------|------------|------------|----------------|
| SBL                           | ST_NBR | RPS_ST_NAM | PROP_CLASS | PROP_DESC      |
| 26260011910000030530000000    | 1531   | Buffalo Rd | 416        | Mfg Housing Pk |
| 26260011910000030540000000    | 1529   | Buffalo Rd | 416        | Mfg Housing Pk |



## Multiple Building Mall Plaza with Parcel Centroid Point Moved to Driveway



In this example, the plaza is made up of multiple buildings and there is only one address for the whole strip mall. The parcel centroid is moved to the driveway entrance since there is not one principle structure within the parcel or subaddress information for each of the stores within the strip mall.

### Source Data

| NYS Address Points |             |        |       |        |
|--------------------|-------------|--------|-------|--------|
| ADD_NUM            | STREETNAME  | CITY   | STATE | POSTAL |
| 1475               | WESTERN AVE | ALBANY | NY    | 12203  |

| Albany County Tax Parcel Data |         |             |
|-------------------------------|---------|-------------|
| SBL                           | LOC_NUM | LOC_NAME    |
| 05200400020080000000          | 1475    | Western Ave |



# Delivery Acceptance

- County-wide review of:
  - Schema compliance
  - Domain values
- ANSI statistical sample
  - Random selection of points to be reviewed
  - Validate positional accuracy
  - Validate attribute accuracy
  - Tightened inspectional only allows 18 errors
- Acceptance/rejection required within 10 days of delivery
- ***Approximately one County delivered every 5-7 days***

# Post Data Build

- ITS tasks:
  - ✓ Error corrections
  - ✓ Post processing
  - ✓ Build new geocoding locators
  - ✓ Review Exception file and error flags
  - ✓ Data distribution
    - [County address data flow discussions](#)
    - Train Counties to use data maintenance tool
- County Tasks:
  - Spatially Invalid file and Exception file review
  - Submit edits via data maintenance tool or other agreed upon edit submission process
  - Review proposed street and address edits from ITS



# Files Provided to Counties

# Address Points Deliverable

(symbolized by Point Type)



# Address Points Deliverable

(symbolized by Point Type)



# Spatially Invalid Address Points

(addresses geocode only to street centerlines)



# Spatially Invalid Address Points

(addresses geocode only to street centerlines)



# Spatially Invalid Address Points (addresses geocode only to street centerlines)



# Exception Report

(addresses do not geocode to parcels or centerlines)

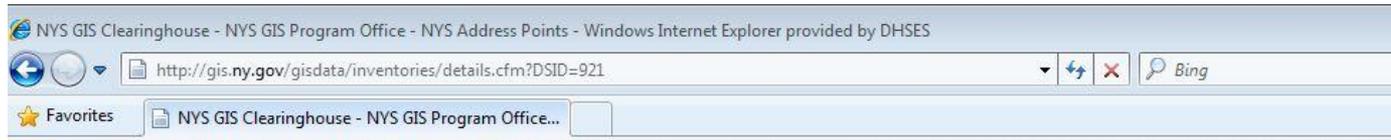
|    | A                                    | B               | C     | D       | E                   | F  |
|----|--------------------------------------|-----------------|-------|---------|---------------------|--|
| 1  | Address                              | City            | State | ZipCode | SOURCE              | REASON   |
| 2  | 200 Industrial Park                  | Bloomfield      | NY    | 14469   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 3  | 68 Picture Book Park West            | Bloomfield      | NY    | 14585   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 4  | 2095 Cdga Hopewell Townline Rd       | Canandaigua     | NY    | 14424   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 5  | 2180 Cdga Hopewell Townline Rd       | Canandaigua     | NY    | 14424   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 6  | 6537 Mountain Side Dr                | Canandaigua     | NY    | 14424   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 9  | 2794 Manchester Hopewell Townline Rd | Clifton Springs | NY    | 14432   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 10 | 3057 Manchester Hopewell Townline Rd | Clifton Springs | NY    | 14432   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 11 | 3456 Manchester Hopewell Townline Rd | Clifton Springs | NY    | 14432   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 12 | 4682 State Route 96a                 | Geneva          | NY    | 14456   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 13 | 34 Parklawn Apts                     | Honeoye         | NY    | 14471   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 14 | General Delivery                     | Port Gibson     | NY    | 14537   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 15 | 1501 State Route 96                  | Victor          | NY    | 14564   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 16 | 1600 Moseley Rd                      | Victor          | NY    |         | Business Address    | Geocoded Outside County  |
| 17 | 213 Eastview Mall # 149a             | Victor          | NY    | 14564   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 18 | 501 Eastview Mall # 132              | Victor          | NY    | 14564   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 19 | 502 Great Brook                      | Victor          | NY    | 14564   | Business Address    | Address could not be geocoded to NYS Centerlines or working address points |
| 24 | 100 Bloomfield Grns                  | Bloomfield      | NY    | 14469   | Residential Address | Address could not be geocoded to NYS Centerlines or working address points |
| 25 | 16 Picture Book Park West            | Bloomfield      | NY    | 14585   | Residential Address | Address could not be geocoded to NYS Centerlines or working address points |
| 26 | 17 Picture Book Park West            | Bloomfield      | NY    | 14585   | Residential Address | Address could not be geocoded to NYS Centerlines or working address points |
| 27 | 18 Picture Book Park West            | Bloomfield      | NY    | 14585   | Residential Address | Address could not be geocoded to NYS Centerlines or working address points |
| 28 | 19 Picture Book Park West            | Bloomfield      | NY    | 14585   | Residential Address | Address could not be geocoded to NYS Centerlines or working address points |
| 29 | 20 Picture Book Park West            | Bloomfield      | NY    | 14585   | Residential Address | Address could not be geocoded to NYS Centerlines or working address points |
| 30 | 200 Industrial Park                  | Bloomfield      | NY    | 14469   | Residential Address | Address could not be geocoded to NYS Centerlines or working address points |



# ArcReader Map Packages

- Useful for those who don't have GIS software
- Data deliverables and original source data
- View and Identify capabilities
- Allows on-screen markups
- Requires free Esri viewer
  - <http://www.esri.com/software/arcgis/arcreader>
- User instructions provided (demo)

# Public Access to SAM Data



## GIS Data Set Details

| Data Set Name      | Description   | Theme                                    | Metadata |
|--------------------|---|--|----------|
| NYS Address Points | Point files of addressed properties in New York State. Data is not complete statewide. Data is copyright protected. | Cadastral (tax parcels)<br>Miscellaneous | n/a      |

## Supporting Documentation

- [Data Dictionary-Streets and Address Points \(Revised 01/14\)](#)
- [Geocoding - ESRI Instructions](#)

Web Service

A web service of the SAM Address Point file is available here:  
<http://gisservices.dhSES.ny.gov/arcgis/rest/services>. The web service named SAM\_Address\_Points\_Symbolized has different symbology for each of the 5 PointType values (see image). The web service named SAM\_Address\_Points has all points symbolized the same way. The SAM Address Point files are projected in Web Mercator (Auxiliary Sphere).

### Address Point Type

- Rooftop
- Primary Structure Entrance
- Driveway Entrance
- ▲ Parcel Centroid
- Miscellaneous

Geocoding service

If the purpose of downloading the address points is for geocoding, NYS ITS has a publicly available geocoding service which includes the address points along with other layers. The geocoding service is named NYS\_Points\_Streets and can be found here:  
<http://gisservices.dhSES.ny.gov/arcgis/rest/services>.

The NYS Address Point File is changing! Please see the [SAM project](#) about future updates to the statewide address point file.

Direct Download

## Files available to the Public

| Files                | Download   | Metadata   |
|----------------------|--|--|
| Address Points - SAM | <a href="#">GEODATABASE</a><br><a href="#">SHAPE</a> | <a href="#">Metadata</a><br><a href="#">Metadata</a> |

<http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=921>



# Public Geocoding Service

## Detailed documentation on Locaters and Web Services

### The Locaters

The first composite locator (SAM\_ZipName\_Composite) is made up of the following set of locaters which are most likely to return a high quality hit. The locaters are listed in the order in which they will be accessed along with a brief description of the locator's source data. These six locaters will generate the majority of the results when geocoding addresses.

### SAM\_ZipName\_Composite

| Locator Name             | Source Data           | Description   |
|--------------------------|-----------------------|---|
| 1A_SAM_AP_ZipName        | SAM Address Points    | SAM rooftop address points (as it is developed) using the postal zip code name for the city name in the locator.  |
| 1B_SAM_AP_CTName         | SAM Address Points    | SAM rooftop address points. The city or town name is used for the city name in the locator  |
| 1C_SAM_AP_PlaceName      | SAM Address Points    | SAM rooftop address points. The city name is populated using the NYS Villages and Indian Reservations, the Census Designated Places and Alternate Acceptable Zip Code Names from the USPS. These names do not exist everywhere so there will be a limited number of points in this locator. |
| 1D_SAM_LandmarkAliasName | SAM Address Points    | This allows for geocoding to the name of a landmark instead of the street address. (e.g. NYSDOT Hornell NY, 14843) The street address of that landmark will be returned. This locator has been temporarily disabled while bugs are worked out.  |
| 2A_AP_ZipName            | Parcel Address Points | Parcel address point using the postal zip code name for the city name in the locator.   |
| 3A_SS_ZipName            | NYS Street Segments   | NYS Street Segments dataset using the postal zip code name for the city name in the locator. The location is interpolated from an address range on the street segment. The city name can be different for the left and right sides of the streets.  |

Any address that does not successfully geocode to the first composite should then be run through the second composite locator (Fallback\_Locaters\_Composite). This composite locator is made up of the following locaters.

### Fallback\_Locaters\_Composite

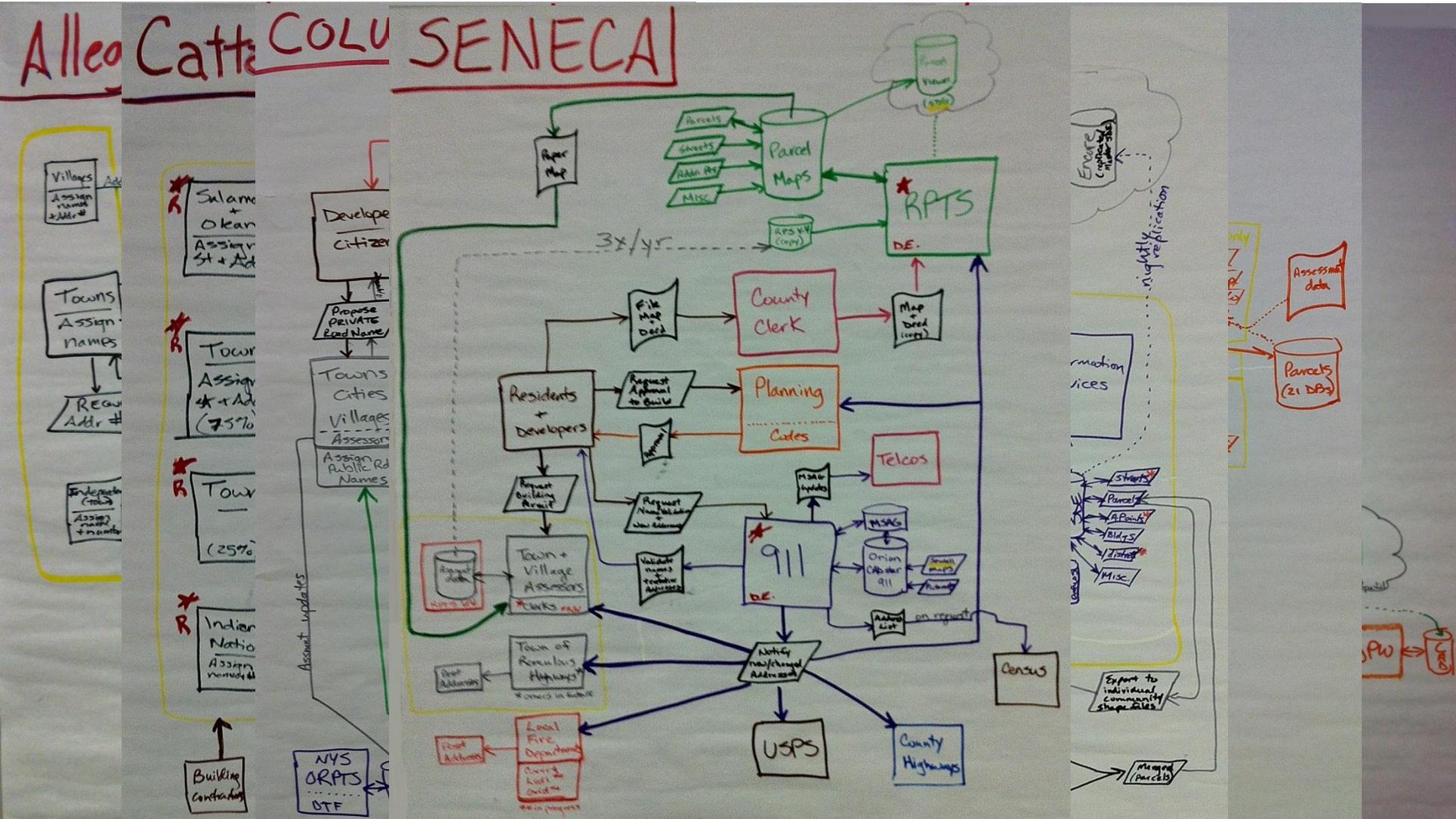
| Locator Name    | Source Data           | Description   |
|-----------------|-----------------------|---|
| 2B_AP_CTName    | Parcel Address Points | Parcel address point using the city or town name for the city name in the locator.  |
| 2C_AP_PlaceName | Parcel Address Points | Parcel address points. The city name is populated using the NYS Villages and Indian |

# Data Maintenance

# Data Maintenance Discussions

- Onsite meeting with stakeholders
- Overview of data build, QA, & post processing
- Address data flow discussion
  - Who assigns street names? Addresses?
  - What County/local gov't digital data contains addresses?
  - Where are street and address changes being shared?
- Strategize data maintenance
  - Do they have maintenance tools ?
  - Are they interested in the NYS-provided tools?
- Detailed review of delivered data

# Mapping address data flow in the County



# GeoComm Data Maintenance Tool

- Web-based data maintenance tool - GeoLynx
- No cost for counties and select state agencies to use
- Edit data directly
  - Editing limited by geographic footprint
  - Add, delete, or reposition address points
  - Edit attributes on address points and streets
  - Add, delete or realign streets\*
- Notification only option
  - Provide information/attachments for needed changes
  - Edits outside of your geographic footprint

# Add/Extend a Street

The screenshot displays the Geolynx Server web application interface. At the top, there is a navigation bar with links for 'Views', 'Layers', 'Change Requests', 'Web DMS', and 'GIS Portal', along with a 'Log Off' button. Below this is a search bar labeled 'Street Address or Longitude, Latitude'. The main area is an aerial map showing a residential area with several streets. A prominent street is highlighted in a bright green color, indicating it is the current focus for editing. The map includes various address points labeled with numbers in blue boxes, such as 1825, 1931, 1937, 1941, 1945, 1947, 1881, 1879, 784, 1870, 1858, 1852, 1849, 1880, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950. The sidebar on the left is titled 'Web DMS' and contains a 'Web DMS Editing' section. This section has an 'Addressing' sub-section with icons for address points, roads, and other features. Below that is an 'Editing Tools' section with a list of checked options: GISEditing\_Labels, Address Points, Roads, GISEditing\_Roads, GISEditing\_GPS, GISEditing\_Boundary, Aerial, and World Imagery. The bottom right corner of the map area features the 'esri' logo and the text 'POWERED BY esri'.

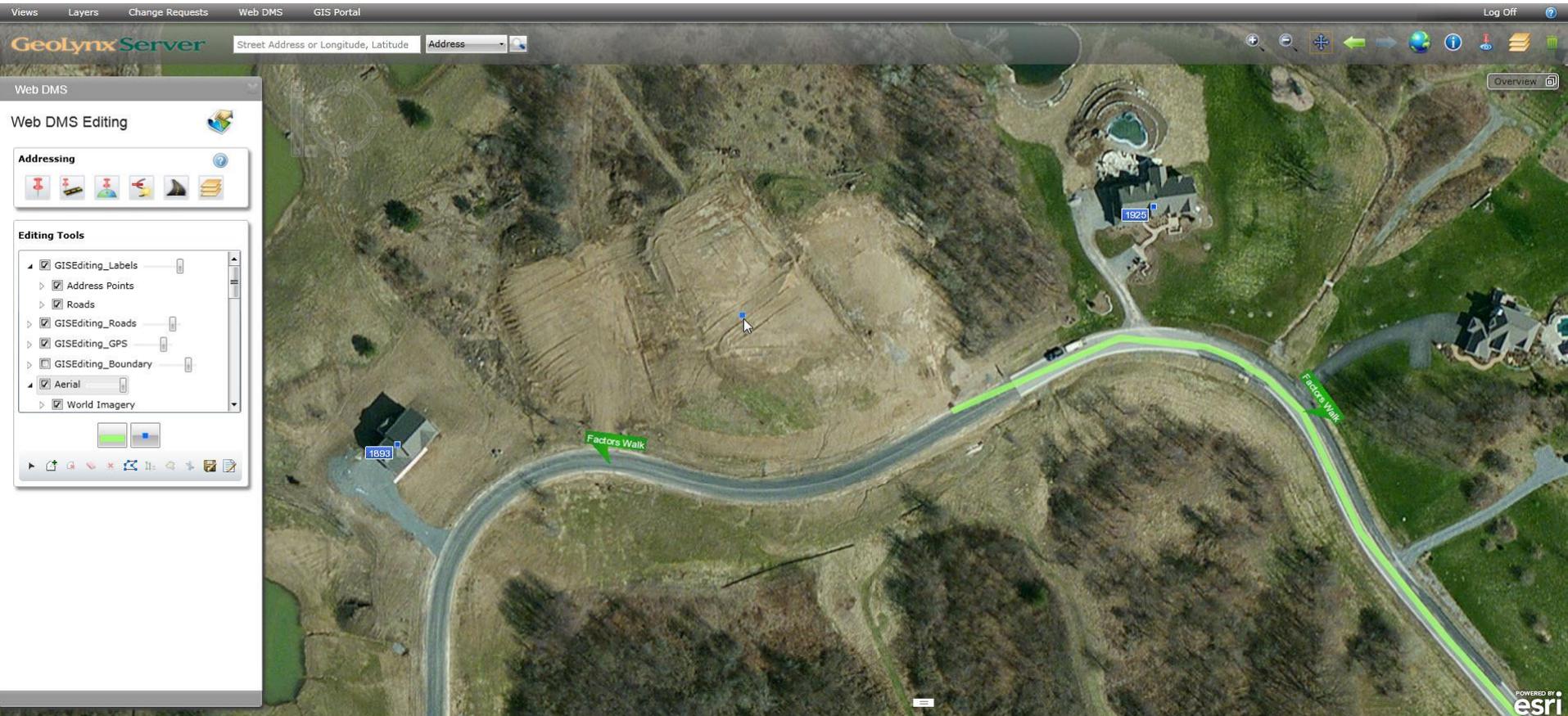
# Add/Edit Street Attributes

The screenshot displays the Geolynx Server web application interface. At the top, there is a navigation bar with links for Views, Layers, Change Requests, Web DMS, GIS Portal, and Log Off. Below this is a search bar labeled "Street Address or Longitude, Latitude". The main area shows an aerial map with a cyan street highlighted. A "Web DMS Editing" sidebar on the left contains sections for "Addressing" (with icons for pin, edit, add, delete, and layers) and "Editing Tools" (with checkboxes for GISEditing\_Labels, Address Points, Roads, GISEditing\_Roads, GISEditing\_GPS, GISEditing\_Boundary, Aerial, and World Imagery). An "Attributes" dialog box is open over the map, containing the following fields and controls:

- LeftFromAddress:
- LeftToAddress:
- RightFromAddress:
- RightToAddress:
- CompleteStreetName: Factors Walk
- PreModifier:
- PreDirectional:
- PreType:
- SeparatorElement:
- StreetName:
- PostType:
- PostDirectional:

At the bottom of the dialog are "Update" and "Delete" buttons. The map also shows various street names like "Factors Walk", "State Route 64", and "Unnamed Street", along with address points labeled with numbers such as 1825, 1931, 1937, 1941, 1945, 1947, 1881, 1870, 1858, 1852, 1849, 1879, 784, 1880, 1893, 1826, 1838, 1854, 1856, 1857, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950.

# Add an Address Point



# Add Address Point Attributes

The screenshot displays the GeolynxServer GIS interface. At the top, navigation links include Views, Layers, Change Requests, Web DMS, GIS Portal, and Log Off. The main header shows 'GeolynxServer' and a search bar with 'Street Address or Longitude, Latitude' and 'Address' as input. On the left, the 'Web DMS Editing' sidebar contains 'Addressing' tools (pin, delete, add, edit, undo, redo) and 'Editing Tools' (GISEditing\_Labels, Address Points, Roads, GISEditing\_Roads, GISEditing\_GPS, GISEditing\_Boundary, Aerial, World Imagery). The central 'Attributes' dialog box is open, showing the following fields: PrefixAddressNumber (empty), AddressNumber (1899), SuffixAddressNumber (dropdown), PreModifier (empty), PreDirectional (dropdown), PreType (dropdown), SeparatorElement (dropdown), StreetName (Factors Walk), PostType (dropdown), PostDirectional (dropdown), PostModifier (empty), and SuffixAddress (empty). 'Update' and 'Delete' buttons are at the bottom of the dialog. The background is an aerial map of a residential area with a road labeled 'Factors Walk' highlighted in green. Address points are marked with blue labels: 1893, 1899, and 1826. An 'Overview' button is in the top right corner. The bottom right corner features the 'POWERED BY esri' logo.

# Reposition an Address Point

The screenshot displays the GeolynxServer web application interface. At the top, there is a navigation bar with links for Views, Layers, Change Requests, Web DMS, GIS Portal, and Log Off. Below this is a search bar labeled "Street Address or Longitude, Latitude" with a dropdown menu set to "Address".

On the left side, there is a "Web DMS Editing" panel. It includes an "Addressing" section with various icons and an "Editing Tools" section with a list of checked items: GISEditing\_Labels, Address Points, Roads, GISEditing\_Roads, GISEditing\_GPS, GISEditing\_Boundary, Aerial, and World Imagery.

The main area is an aerial map showing a residential area with a road labeled "Fascina Walk". Several address points are visible, with labels like "1925", "1931", and "1937". A red box highlights the "1931" address point.

On the right side, there is an "Attributes" window. It contains the following fields and values:

- ZipName: Ionia
- State: New York
- ZipCode: 14475
- PointType: Parcel Centroid (highlighted with a red box)
- AddressSource: County Building Footprint
- SourceOfData: [Empty]
- DateUpdated: 9/10/2013 7:00:00 PM
- PrimaryPoint: Yes
- CityTownName: West Bloomfield
- PlaceName: [Empty]
- PlaceType: [Empty]

At the bottom of the attributes window, there are "Update" and "Delete" buttons.

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# Change PointType Attribute

The screenshot displays the GeolynxServer GIS interface. At the top, there are navigation tabs for Views, Layers, Change Requests, Web DMS, and GIS Portal. A search bar contains the text "Street Address or Longitude, Latitude" and "Address". The main map area shows an aerial view of a residential area with a road labeled "Frasera Walk" highlighted in green. Several address points are visible, including 1925, 1931, and 1937. On the left side, there is a "Web DMS Editing" panel with sections for "Addressing" and "Editing Tools". The "Addressing" section includes icons for various address types. The "Editing Tools" section has a list of tools with checkboxes, including GISEditing\_Labels, Address Points, Roads, GISEditing\_Roads, GISEditing\_GPS, GISEditing\_Boundary, Aerial, and World Imagery. On the right side, an "Attributes" dialog box is open, showing the following fields: ZipName (Ionia), State (New York), ZipCode (14475), PointType (Rooftop), AddressSource (County Building Footprint), SourceOfData, DateUpdated (9/10/2013 7:00:00 PM), PrimaryPoint (Yes), CityTownName (West Bloomfield), PlaceName, and PlaceType. The "PointType" dropdown menu is highlighted with a red box. At the bottom right of the dialog box are "Update" and "Delete" buttons. The bottom right corner of the map area features the "POWERED BY esri" logo.

# Want to Stay Informed?

- SAM Newsletter (bimonthly email)
- SAM Project Webpage:
  - <http://www.dhSES.ny.gov/ocs/streets>
  - Address Points Schema
  - County data build list
  - Status maps
  - Presentations
- NYS 9-1-1 GIS Workgroup
  - Bimonthly webinar on 3<sup>rd</sup> Thursday at 1pm
  - Over 60 NYS 9-1-1 and NYS GIS professionals
  - Review/discuss NENA GIS-related standards

# ***GIS Data Preparation for NG9-1-1***

- FREE NENA training (modest lunch fee)
- 5 regional locations
  - Tuesday, June 3 in Long Island City (Queens)
- Class size is ~40 people
- Seats still available!
- Will take registrations through Thursday, May 29
- Suggested attendees
  - Maintainers of GIS Address files, MSAGs, and ESZ files
  - Those involved in address verification

**Let's look at the data deliverables!**



# Thank you!

SAM Project Web Page:

<http://www.dhses.ny.gov/ocs/streets>

SAM Address Point Data:

<http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=921>