



NYS Association of County Directors of Real Property Tax Services

October 16, 2012

NYS Division of Homeland Security & Emergency Services
Office of Cyber Security (OCS)

Jerome M. Hauer, Commissioner
Thomas Smith, Director

SAM Project Objective

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

Big Picture

- Next Generation 9-1-1 *requires* GIS data
- Huge range of needs for address data statewide
- Building to highest level requirements (i.e. 9-1-1) will support all lower requirements
- One master address point database
- Address point data will...
 - *Support 9-1-1 dispatch*
 - *Be publicly available for widespread uses*
 - *Support high-quality geocoding*
 - *Contain no personal or sensitive information*
 - *Contain unique IDs*

In Addition to 9-1-1 Dispatch, the Data will Improve:

- Sex offender placements by County
Social Services & Parole Officer casework
- Sales tax collection and distribution
- NYS DEC permitting (e.g. Chemical Bulk Storage Facilities, Pesticide application)
- Welfare to Work programs
- School bus routing

SAM Partners

- DHSES (incl. State 9-1-1 Board)
- NY 9-1-1 Coordinators Association
- New York State Association of Counties
- NENA
- US Census Bureau
- US Postal Service
- NTIA



NG9-1-1 Game Changers

- More than voice (audio)
 - Text
 - Email
 - Image
- Systems are IP based (Internet)
- IP Security
- Phones move and transmit their location
- GIS data is at the core



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



Point in Polygon Police, Fire, EMS
GIS Service Zones

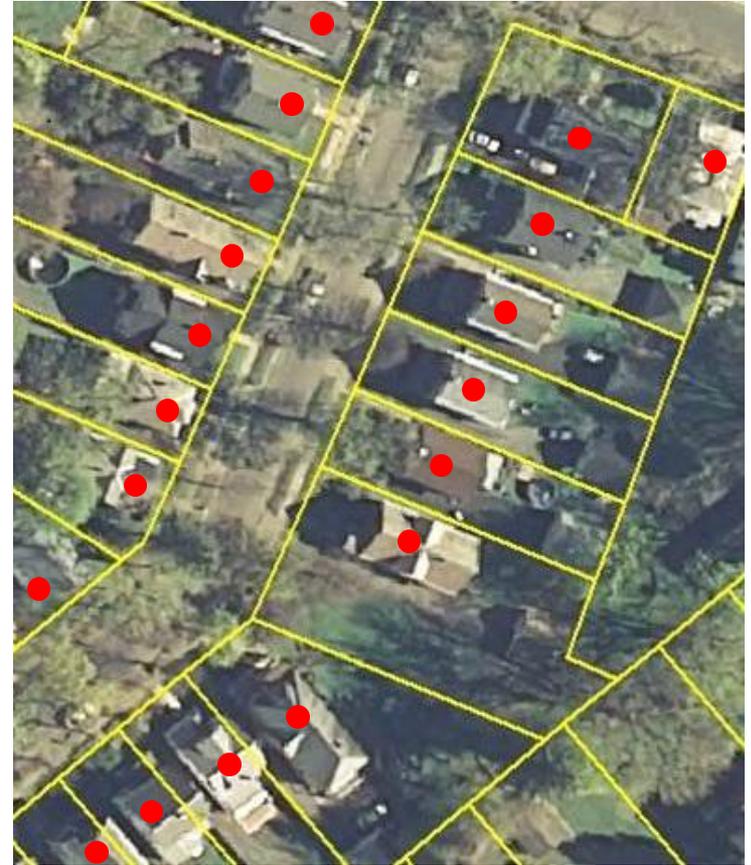
Statewide Address Point Build: 2 Stages

Stage 1:

State contracts for:

- “Principal” (main structure) point on building footprint
 - no routing points
 - no subaddresses (unless already in county data)
- Parcel centroids for vacant addressed parcels
- Addresses in draft NENA standard

State migrates existing county address points to draft NENA standard



Stage 1
Building Rooftops
Centroids of Vacant Parcels



Statewide Address Point Build: 2 Stages

Stage 2:

Counties use NENA standards to:

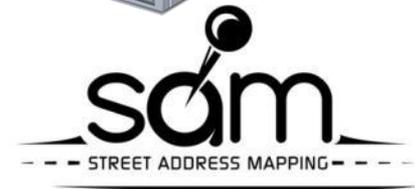
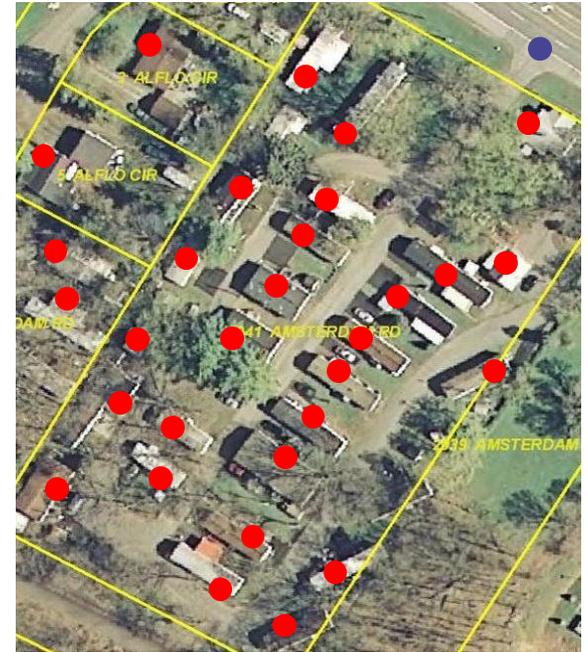
- **Add new points**
- **Refine** locations
- Map **subaddresses**
- Place **routing points**

Potential State grant funding

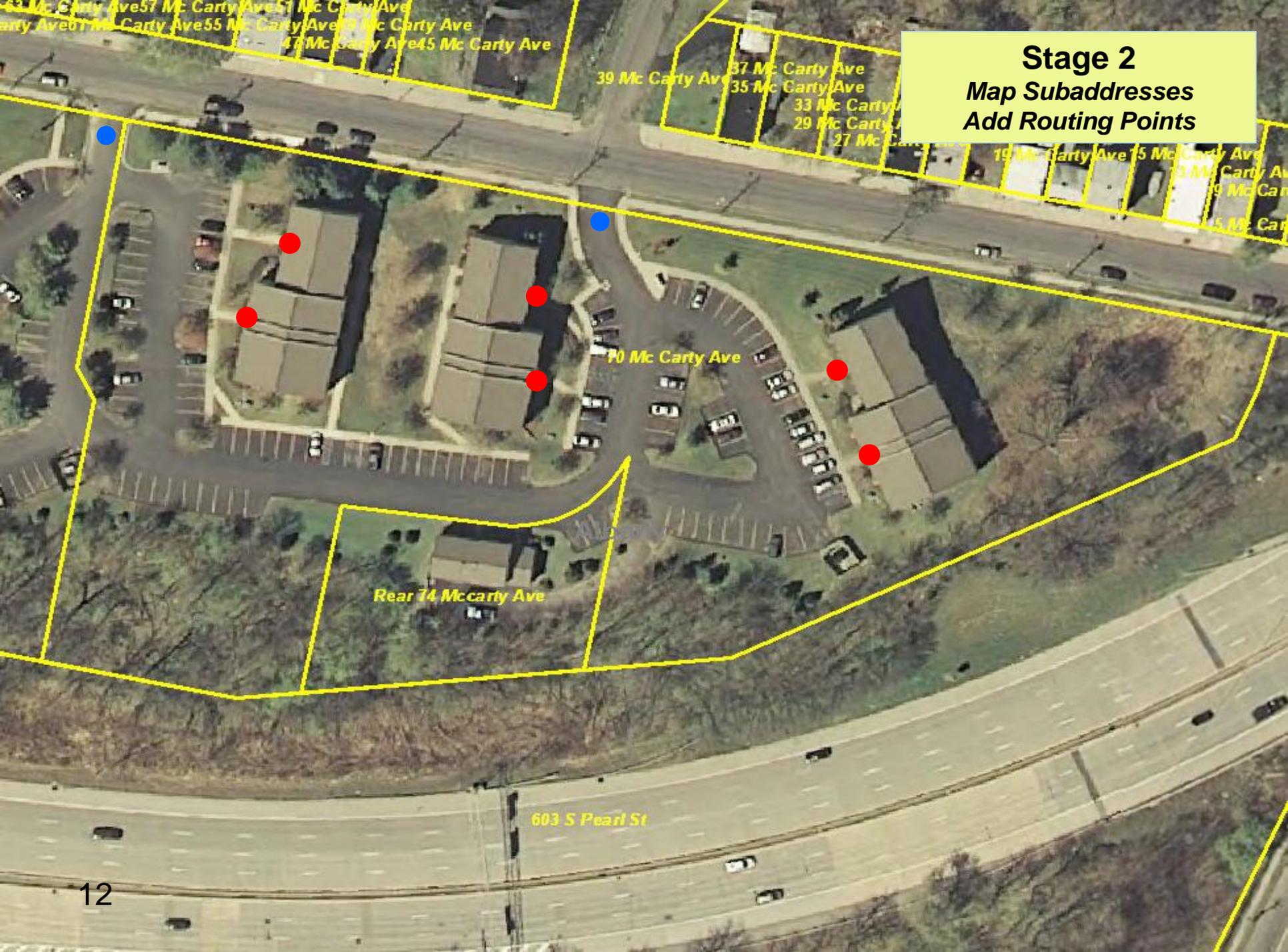
(via Interoperable & Emergency
Communications Board)

State could provide:

- Data maintenance tools
- Data hosting/distribution services



Stage 2
Map Subaddresses
Add Routing Points



61 Mc Carty Ave 57 Mc Carty Ave 51 Mc Carty Ave
49 Mc Carty Ave 47 Mc Carty Ave 45 Mc Carty Ave

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 5 Mc Carty Ave

70 Mc Carty Ave

Rear 74 Mccarty Ave

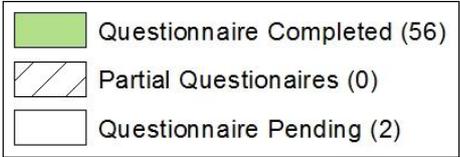
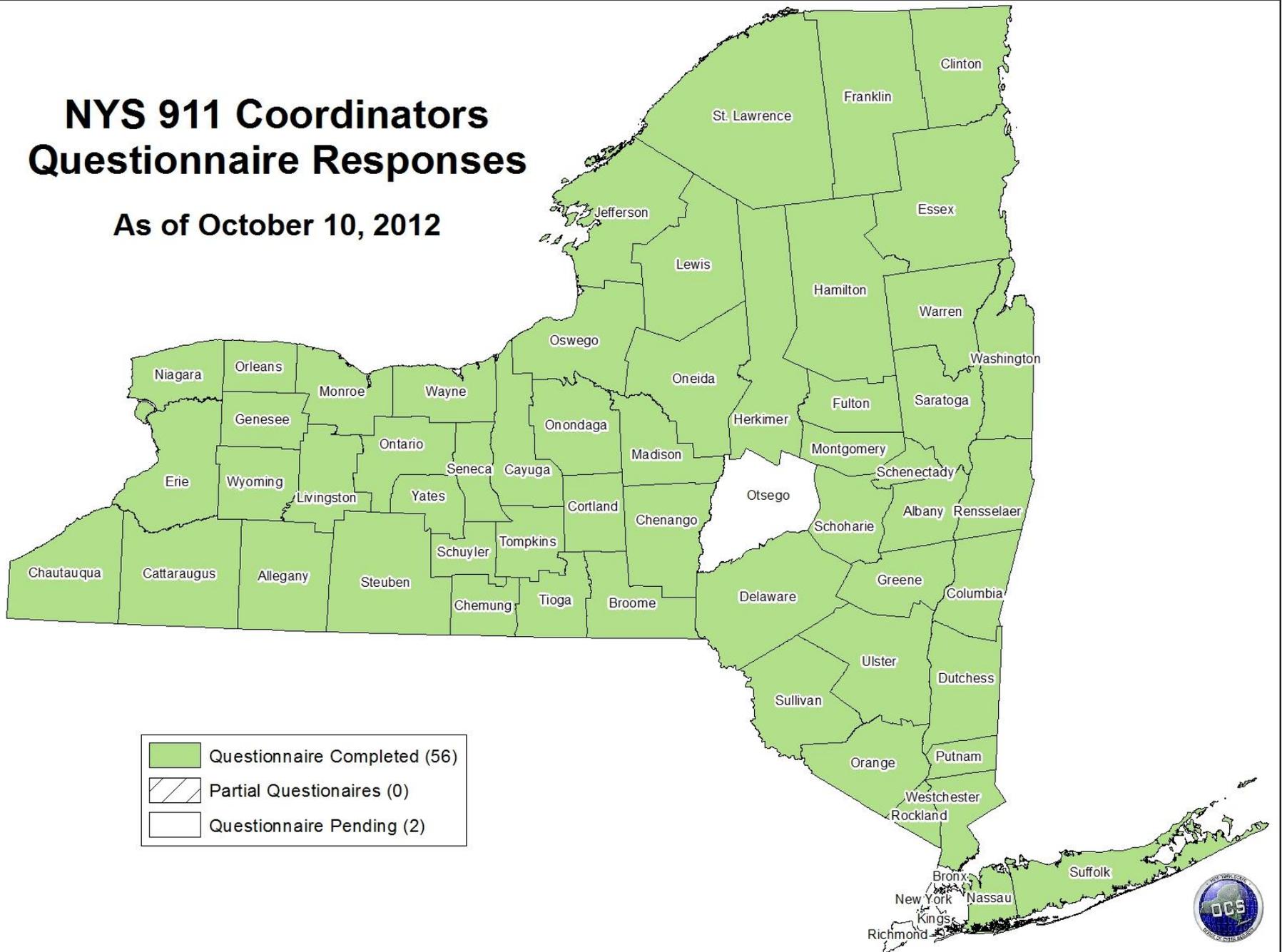
603 S Pearl St

Outreach Steps

- ✓ Contact Sheet
- ✓ Questionnaire
- ✓ Follow up meeting/discussion with each County
- ✓ Request data
 - County provides data
 - Source Usage Document
 - Data Usage Agreement

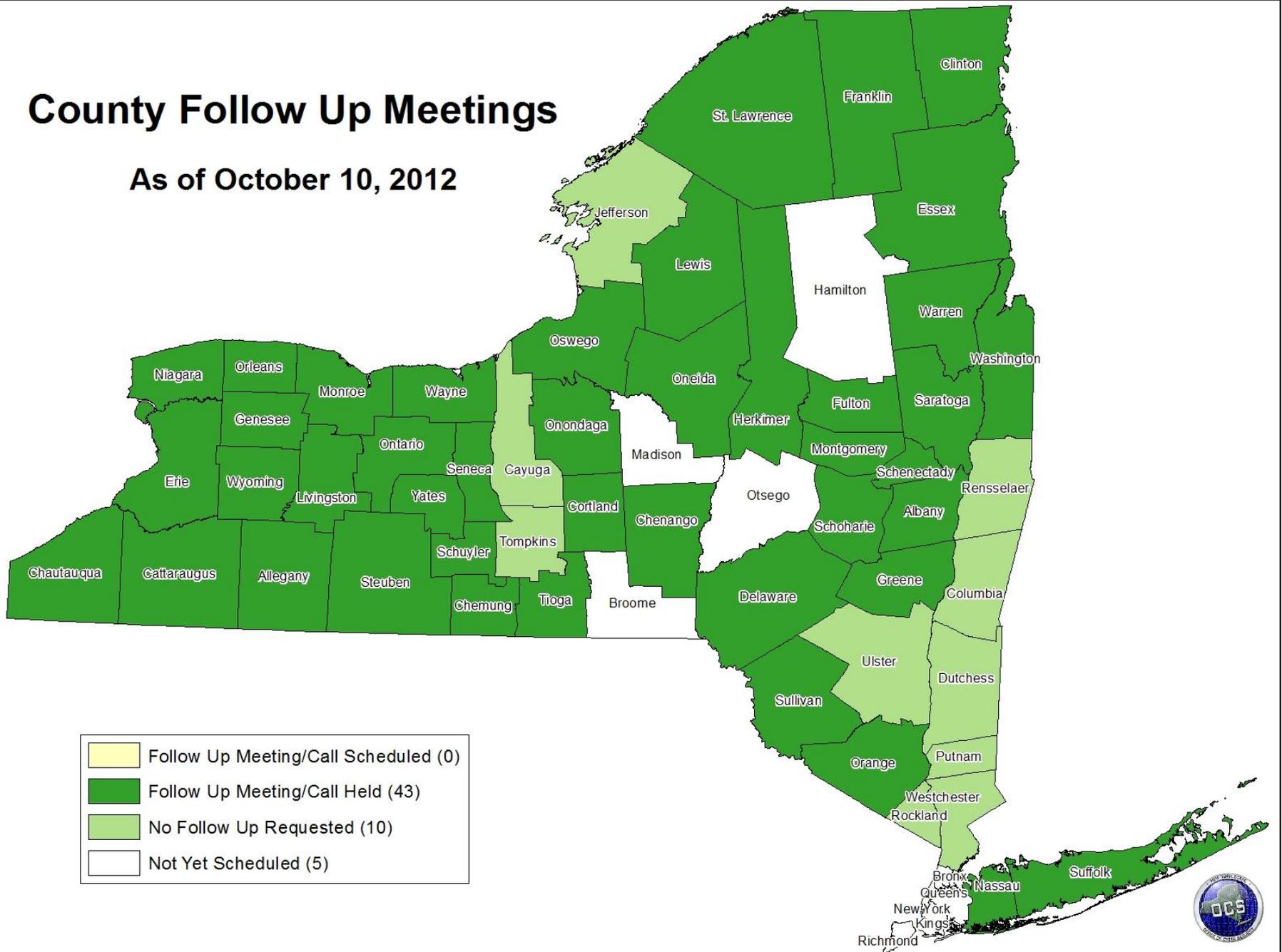
NYS 911 Coordinators Questionnaire Responses

As of October 10, 2012



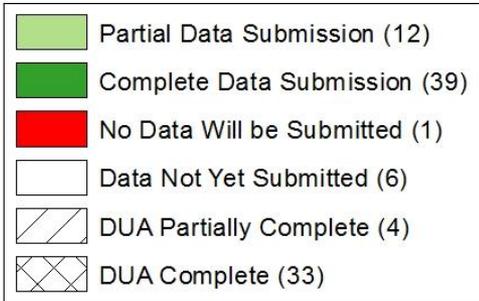
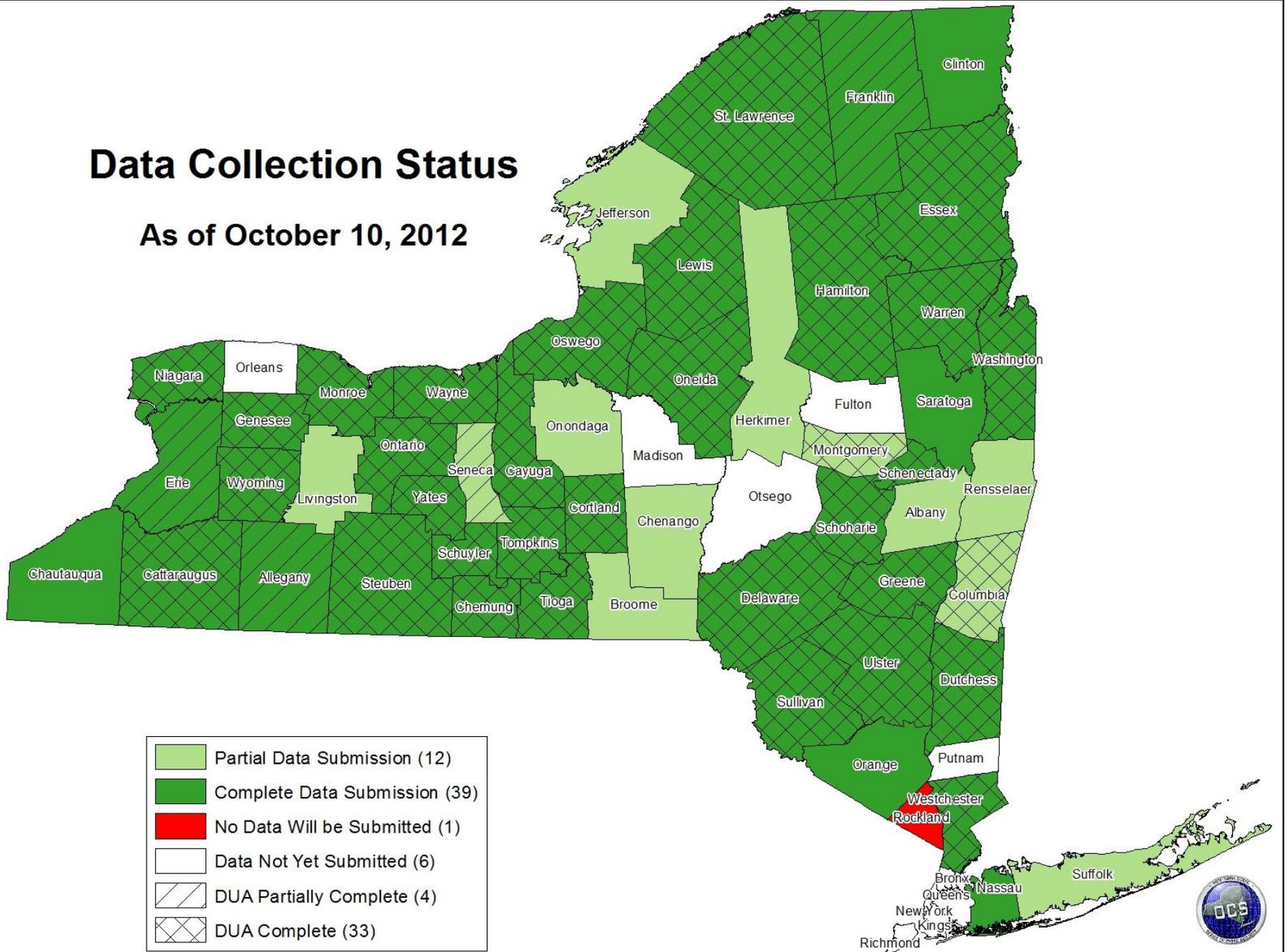
County Follow Up Meetings

As of October 10, 2012



Data Collection Status

As of October 10, 2012



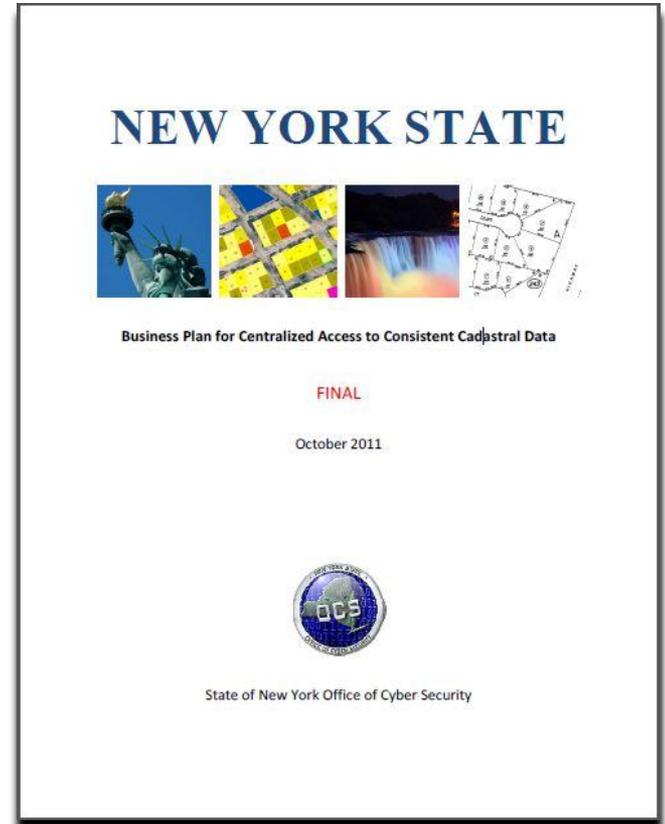
Data Usage Agreement

- Clearly documents:
 - How each individual dataset provided can be used
 - Who can use this source data
 - No redistribution of source data unless County instructs otherwise
 - Public availability of resultant Statewide Address Point file
 - Authorize use (or opt out) of provided parcel data into a publically accessible statewide parcel data layer
- Can have one or multiple Data Usage Agreements
- Data Usage Agreement terms apply to subsequent data deliveries

Data Usage Agreement

Statewide Parcel Data Layer

- Highest priority in 2008 NYS GIS Strategic Plan
<http://gis.ny.gov/coordinationprogram/straplan>
- Subsequent Parcel Business Plan
<http://gis.ny.gov/coordinationprogram/parcelplan>
- Not ready to build statewide parcel data layer now, but paperwork will be done
- Efficiency through combined outreach efforts
- Participation is voluntary
- Would request updated data at the time of parcel data build



County/Local Government Benefits

- Eliminate multiple state agency requests for parcel data
- Minimize time responding to parcel data requests
- Eliminate parcel data viewer hosting costs
- Have option to share as many or as few attributes as desired
- Access to your neighboring counties parcel data

What's Next for Local Governments

- For those who have not yet done so...
 - **DATA, DATA, DATA!!!**
 - Signed Data Usage Agreement
 - Review Source Usage Document

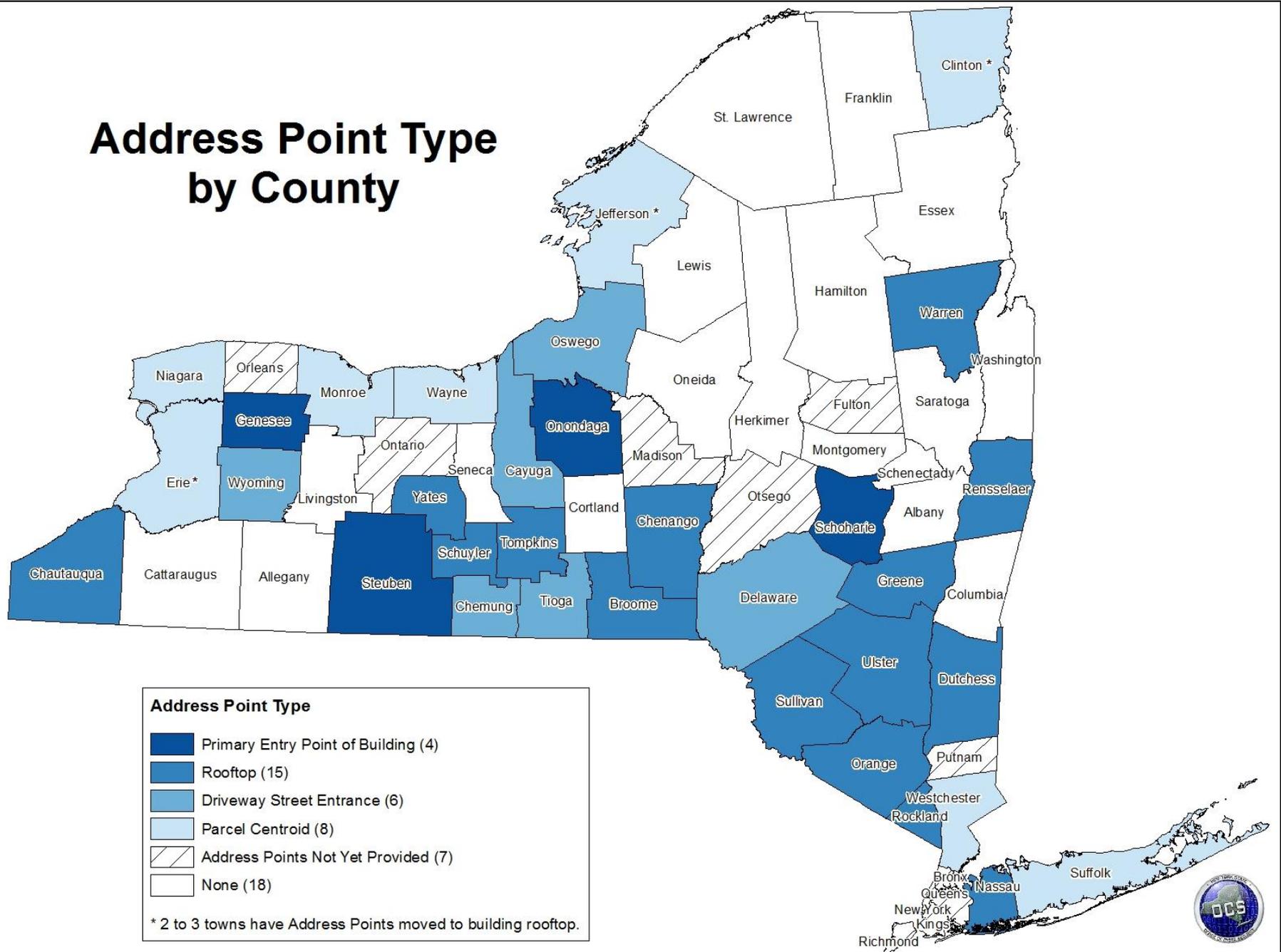
no data + no DUA + no SUD = no processing

- Help to develop and pilot an interim data maintenance strategy

Maintenance

- SAM is not a one-off
- Want a solution that enables continuous updates, bulk uploads, and configurable downloads
- Looking for COTS, not a custom build
- Web based, no client install
- Still evaluating our options
- OCS will:
 - Facilitate local gov't maintenance discussions
 - Provide hands on training

Address Point Type by County



SAM RFP

- Restricted period – NYS procurement law
 - Intent to influence by potential bidders must be reported
 - Designated agency contact: Joe Martucci
 - SAMRFP@dhses.ny.gov
 - In effect until there is a signed contract
- RFP schedule

RFP Schedule

- RFP Released - Monday, 9/24/2012
- Mandatory Pre-Bid Conference - Thursday, 10/11/2012
- Written Questions Due from Bidders - Monday, 10/15/2012
- Response to Bidders' Questions - Wednesday, 10/17/2012
- **Final Deliverable Schedule to RFP website - Wednesday, 10/17/2012**
- Bids Due - Thursday, 11/01/2012
- Select bidder - Friday, 11/16/2012
- **Contract Award (OSC approval)– Late December/early January**

Tentative County Order

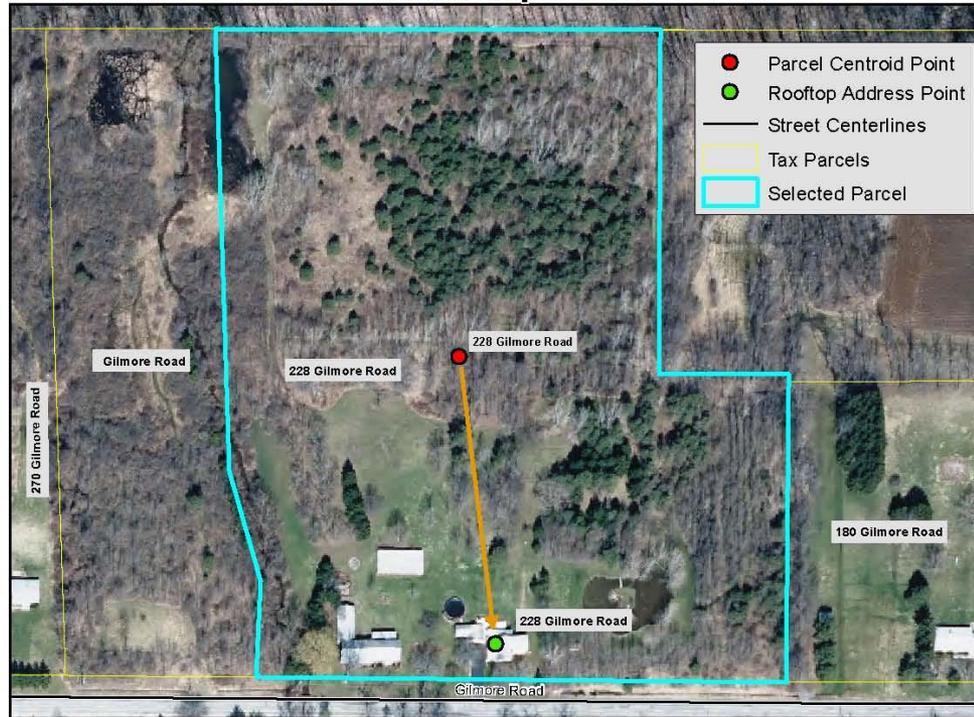
1	Hamilton
2	Lewis
3	St. Lawrence
4	Essex
5	Franklin
6	Delaware
7	Allegany
8	Cattaraugus
9	Herkimer
10	Columbia
11	Cortland
12	Seneca
13	Washington
14	Montgomery
15	Tioga

16	Saratoga
17	Wyoming
18	Orleans
19	Livingston
20	Fulton
21	Clinton
22	Chenango
23	Ontario
24	Oneida
25	Schenectady
26	Cayuga
27	Wayne
28	Jefferson
29	Madison
30	Albany

31	Otsego
32	Chemung
33	Niagara
34	Oswego
35	Yates
36	Putnam
37	Westchester
38	Erie
39	Monroe
40	Schuyler
41	Suffolk
42	Chautauqua
43	Schoharie
44	Greene
45	Genesee

46	Sullivan
47	Steuben
48	Rockland
49	Ulster
50	Nassau
51	Onondaga
52	Broome
53	Rensselaer
54	Warren
55	Tompkins
56	Orange
57	Dutchess

Parcel Centroid Point to Rooftop Point



In this example, the parcel centroid address point has been moved to the visual center of the rooftop on the principle structure within the parcel boundary.

Source Data

Monroe County Address Points				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26248905402000010111100000	228	Gilmore Road	240	Rural Res

Monroe County Tax Parcel Data				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26248905402000010111100000	228	Gilmore Road	240	Rural Res



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	



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.

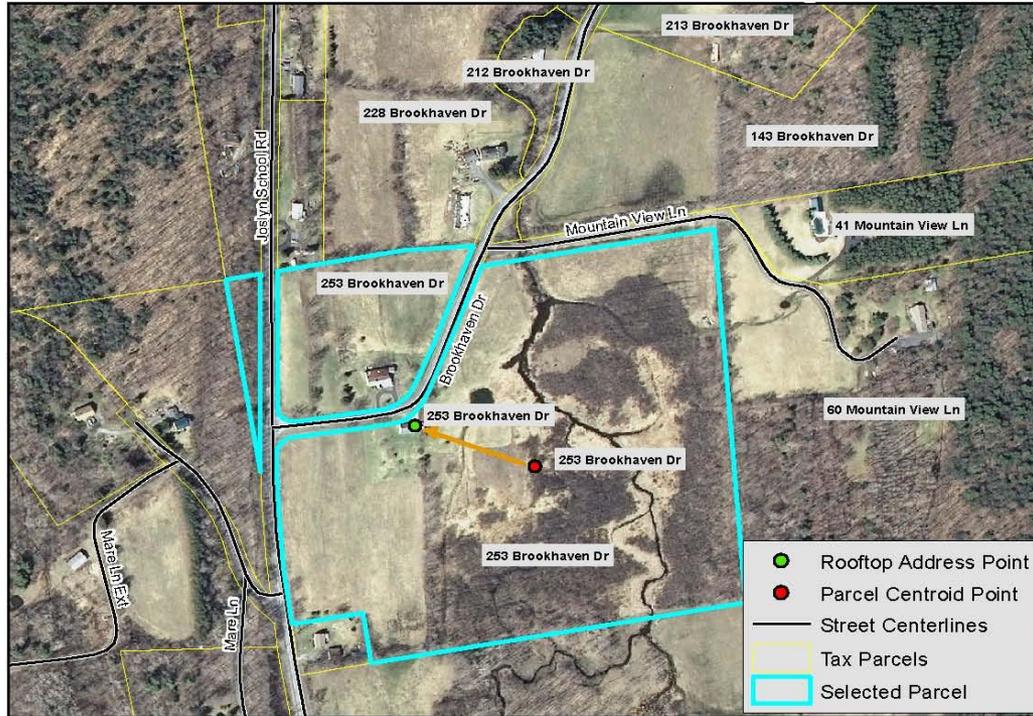
Source Data

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



Parcel Split by Road and Centroid Point Moved to Rooftop



In this example the parcel is split by Brookhaven Dr. The addresses on the right side of Brookhaven Dr are odd and the addresses on the left side are even so the address point would be placed on the rooftop of the building on the right side of the road. This situation is common in rural areas of the state where farm structures are on one side of the road and the residential structure is on the opposite side of the road.

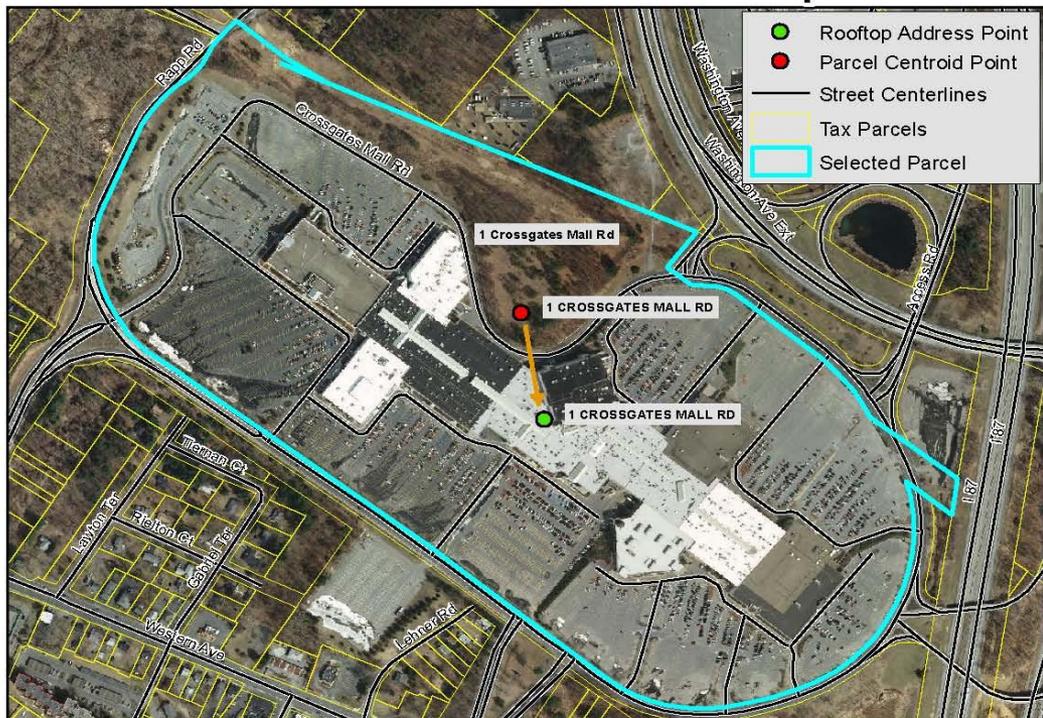
Source Data

NYS Address Points				
ADD_NUMBER	STREETNAME	CITY	STATE	POSTAL
253	BROOKHAVEN DR	EAST BERNE	NY	12059

Albany County Tax Parcel Data		
SBL	LOC_NUM	LOC_NAME
10400000020030000000	253	Brookhaven Dr



Single Building Mall with Parcel Centroid Point Moved to Rooftop



In this example, there is only one address in the data for the large, single building mall. The parcel centroid point was in a wooded area to the North of the parcel and was moved to the rooftop of the structure since there is only one structure within the parcel.

Source Data

NYS Address Points				
ADD_NUMBER	STREETNAME	CITY	STATE	POSTAL
1	CROSSGATES MALL RD	ALBANY	NY	12203

Albany County Tax Parcel Data		
SBL	LOC_NUM	LOC_NAME
05200100010040020000	1	Crossgates Mall Rd



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.

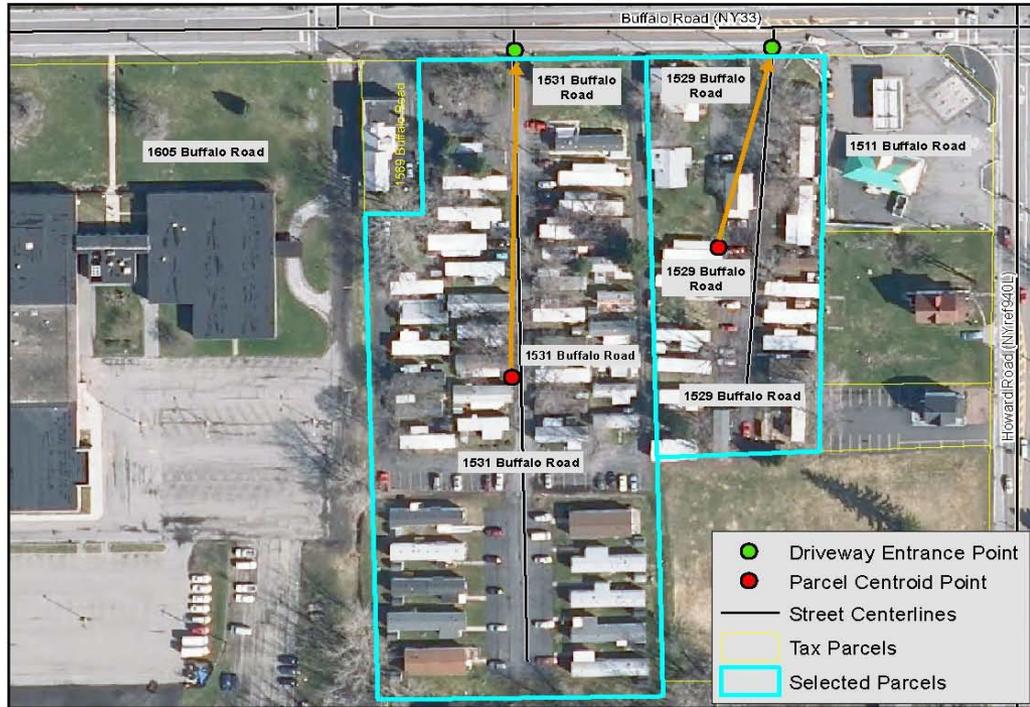
Source Data

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



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.

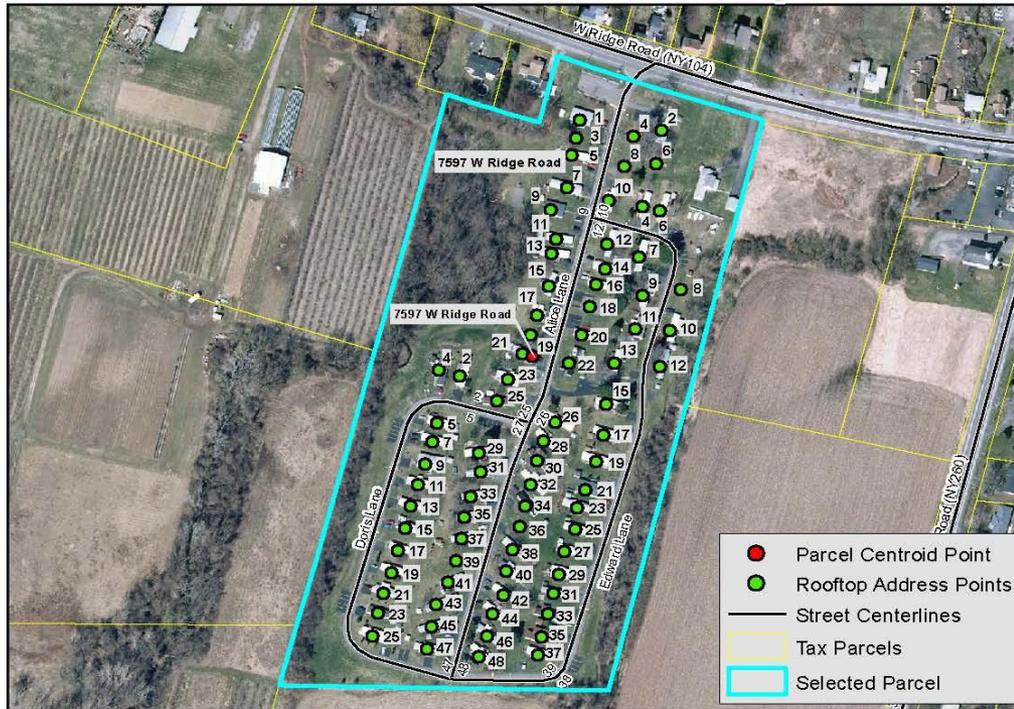
Source Data

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



Parcel Centroid Point Moved to Individual Mobile Home Rooftops



In this example, the streets within the mobile home community are named and there are addresses for each of the mobile homes as well. Based on the street ranges it is possible to place the address points on the rooftop of the correct mobile homes.

Source Data

Monroe County Master Address File						
SBL	ST_NBR	ST_NAME	ST_TYPE	LOC_NAME	LOC_CITY_ST	LOC_ZIP
26248905404000010240000000	1	Alice	Lane	Maple Ridge Mobile Home Park	Brockport NY	14420
26248905404000010240000000	10	Alice	Lane	Maple Ridge Mobile Home Park	Brockport NY	14420
26248905404000010240000000	11	Alice	Lane	Maple Ridge Mobile Home Park	Brockport NY	14420
26248905404000010240000000	12	Alice	Lane	Maple Ridge Mobile Home Park	Brockport NY	14420
26248905404000010240000000	11	Doris	Lane	Maple Ridge Mobile Home Park	Brockport NY	14420
26248905404000010240000000	10	Edward	Lane	Maple Ridge Mobile Home Park	Brockport NY	14420
26248905404000010240000000	11	Edward	Lane	Maple Ridge Mobile Home Park	Brockport NY	14420

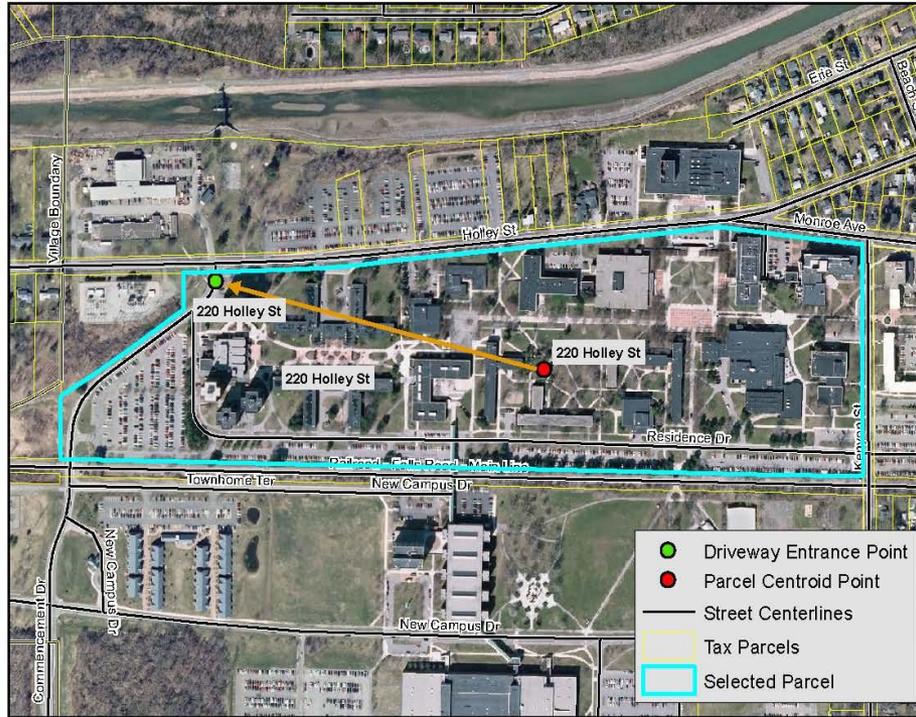
Monroe County Address Points					
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC	
26248905404000010240000000	7597	WRidge Road	416	Mfg Housing Pk	

Monroe County Tax Parcel Data					
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC	
26248905404000010240000000	7597	WRidge Road	416	Mfg Housing Pk	

Map created by NYS OCS, July 12, 2012



Single Address Point on Campus Moved to Driveway



In this example, the college campus pictured has an address point in the center of the parcel. There were no additional address points for the individual buildings on campus so the centroid address point has been moved to the driveway street entrance off of Holley St.

Source Data

Monroe County Address Points				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26520106815000010101100000	220	Holley St	613	College/Univ

Monroe County Tax Parcel Data				
SBL	ST_NBR	RPS_ST_NAM	PROP_CLASS	PROP_DESC
26520106815000010101100000	220	Holley St	613	College/Univ



Thank you!

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

Questions?

