



# **NYS 9-1-1 Coordinators Conference**

*May 10, 2013*

GIS Programs Office

NYS Office of Information Technology Services

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# **SAM Project Objective**

***Create a statewide authoritative address point database to support E-911, Next Generation 9-1-1, and other purposes***

# ITS Consolidation

*The IT Transformation program was created to enhance IT capabilities to improve government services and will enable the State to build an IT environment that maximizes existing resources*



- GIS and Cyber Security were consolidated into ITS
- Part of ITS Public Safety Cluster
- Very little operational change



# Statewide Address Point Build: 2 Stages

## Stage 1:

### State contracted for:

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

### State in-house tasks:

- Request updated data from counties
- QA/QC of data deliverables
- Enhance State geocoding web service

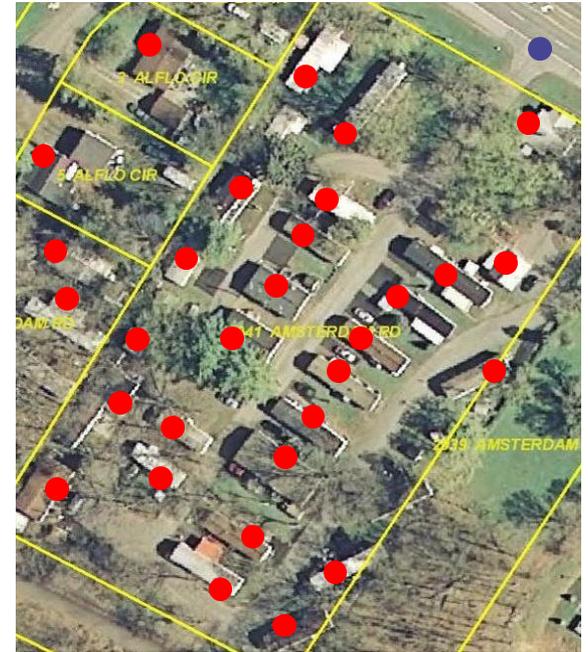


# Statewide Address Point Build: 2 Stages

## Stage 2:

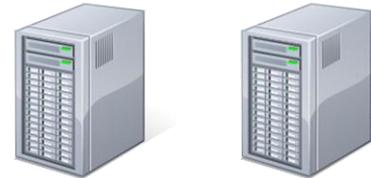
Counties use NENA standards to:

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



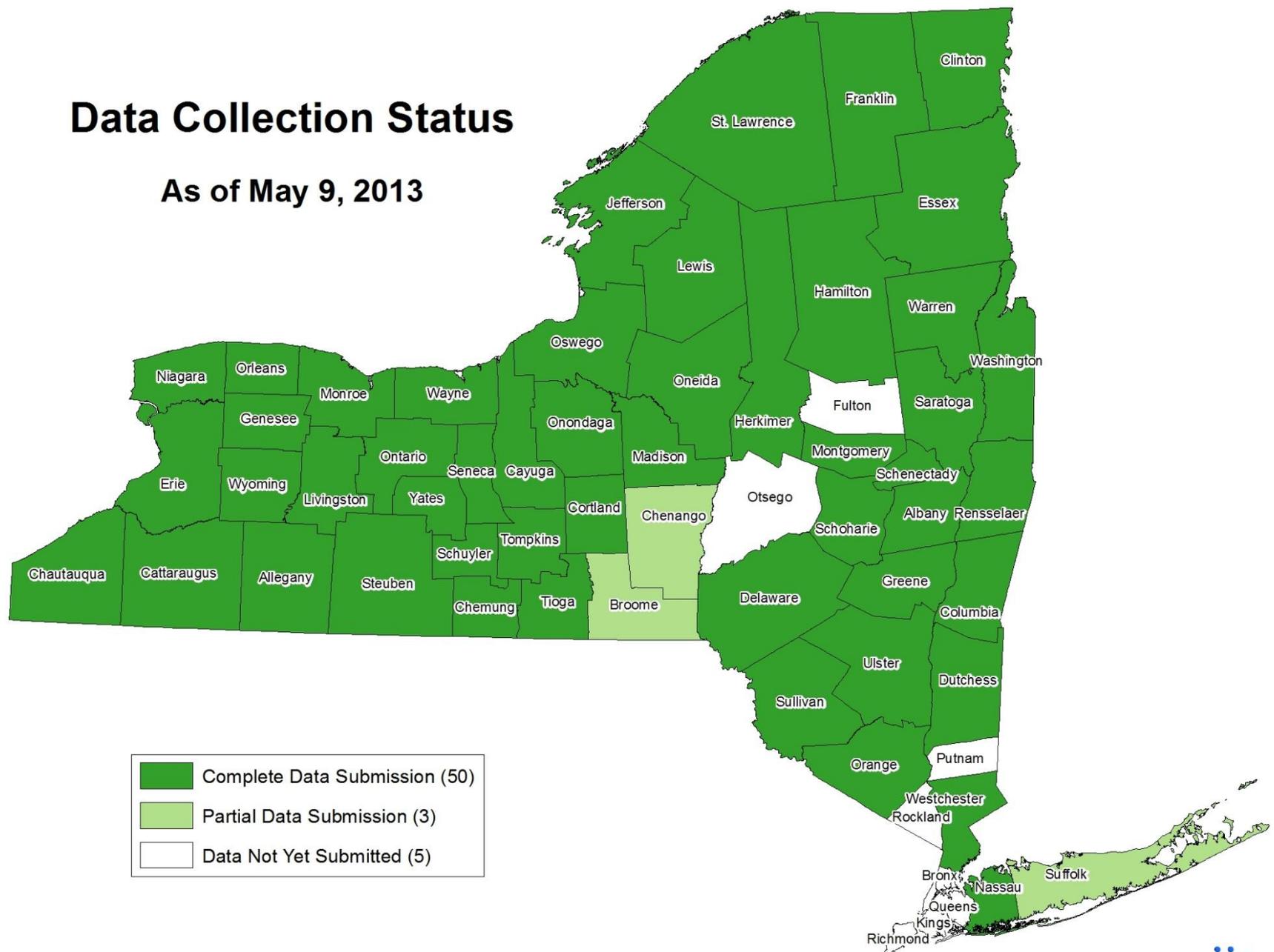
State provides:

- Data maintenance tools
- Data hosting/distribution services



# Data Collection Status

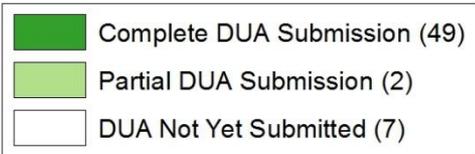
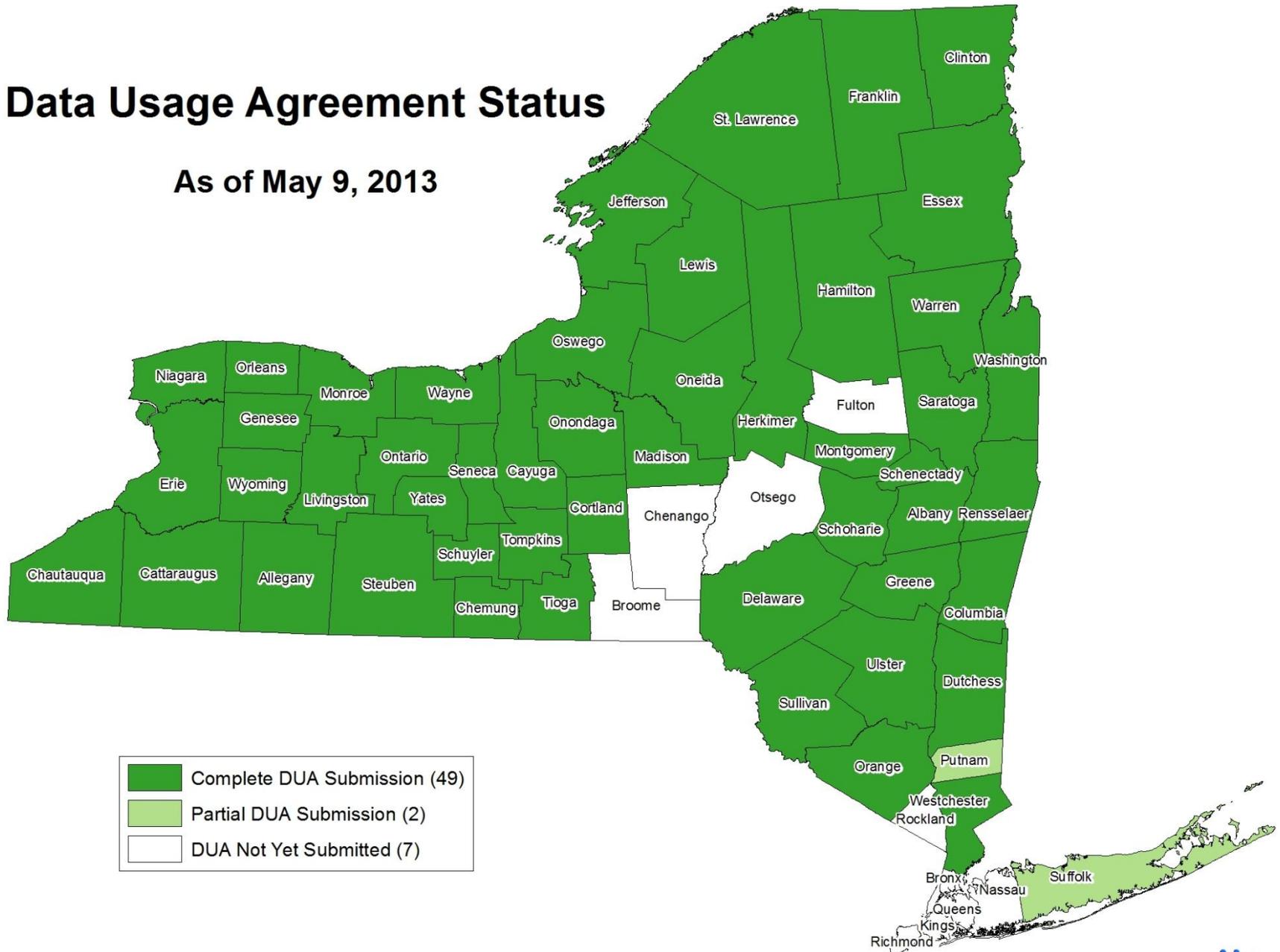
As of May 9, 2013



	Complete Data Submission (50)
	Partial Data Submission (3)
	Data Not Yet Submitted (5)

# Data Usage Agreement Status

As of May 9, 2013



# SAM Contract

- Intrado/GDR team selected – November 2012
- Contract approved – February 2013
- Kickoff meeting – March 15, 2013
- Funds expire September 2014
  - 18 months from Kickoff
- Providing available subaddresses
- Deliverable Schedule by county
  - Projected total of 5 million principal address points
  - First interim sample – 4/19/2013
  - First county deliverable – 5/9/2013
- \$2 million investment in core 9-1-1 GIS data



# SAM Production Schedule

1. NYS source data preparation (2 weeks)
  - Obtain updated data from County
  - Revise Source Usage Document (SUD)
2. Intrado production activities
  - SUD review (5 days)
  - Address Point Production (10-15 days)
3. NYS QA/QC (10 days)
4. Intrado/GDR makes corrections (5 days)

***Approximately one County delivered every 10 days***

# SAM Production Schedule

- Counties in Production:
    1. Lewis
    2. Franklin
    3. Cattaraugus
    4. Allegany
    5. Hamilton
  - Next Counties to be Processed (tentative order):
    - Delaware
    - Columbia
    - Seneca
    - Albany
    - Saratoga
- Schedule is flexible!*
- 2013 Orthoimagery Program impacts

# Tentative County Order

1	Lewis	16	Clinton	31	Chemung	46	Oneida
2	Franklin	17	Livingston	32	Genesee	47	Westchester
3	Cattaraugus	18	Montgomery	33	Tompkins	48	Suffolk
4	Allegany	19	Steuben	34	Schuyler	49	Greene
5	Hamilton	20	Tioga	35	Yates	50	Orange
6	Delaware	21	Jefferson	36	Chautauqua	51	Warren
7	Columbia	22	Sullivan	37	Rensselaer	52	Madison
8	Seneca	23	Schoharie	38	Onondaga	53	Ulster
9	Albany	24	Erie	39	Fulton	54	Putnam
10	Saratoga	25	Niagara	40	Chenango	55	Dutchess
11	Ontario	26	Monroe	41	Broome	56	Nassau
12	St. Lawrence	27	Wayne	42	Otsego	57	Rockland
13	Schenectady	28	Wyoming	43	Essex		
14	Cortland	29	Cayuga	44	Herkimer		
15	Orleans	30	Oswego	45	Washington		

# SAM QA/QC Procedures

- Initial File Checks
  - Format
  - Extent
  - Schema compliance
  - Completeness
- Review Random Sample of Points
  - Validate positional accuracy
  - Validate attribute accuracy
- Acceptance/rejection required within 10 days of delivery

# ANSI Sampling

Tightened Inspection (Level III)		
Delivered Principle Points	Sample Size	Acceptance / Rejection
3,201 - 10,000	315	18 / 19
10,001 - 35,000	500	18 / 19
35,001 - 150,000	800	18 / 19
150,001 - 500,000	1250	18 / 19
500,001 and over	2000	18 / 19

Normal Inspection (Level II)		
Delivered Principle Points	Sample Size	Acceptance / Rejection
3,201 - 10,000	200	21 / 22
10,001 - 35,000	315	21 / 22
35,001 - 150,000	500	21 / 22
150,001 - 500,000	800	21 / 22
500,001 and over	1250	21 / 22

# What's Next for Local Governments

- DATA, DATA, DATA!!!
- Requesting 2-3 weeks prior to processing
- Must have:
  - Updated data
  - Signed Data Usage Agreement
  - Approved Source Usage Document
- Parcels now key component for data build

no data + no DUA + no SUD = delayed processing

# Data Maintenance

- Data provided to county once accepted
- Considered immediately in maintenance
  - 2 months since source data provided
  - Exception files need review
- Help develop/pilot data maintenance strategies
  - Multiple solutions
- Procuring Geo-Comm web-based maintenance tool
  - Edit data directly
  - No client side install
  - Fast performance
  - Geo-Comm uses in house to maintain client data
  - Can provide to counties at no cost
  - Can use to maintain more than just address points

# NENA GIS-Related Standards

- *Civic Location Data Exchange Format Standard*
  - Parses addresses into smallest components
  - XML used to share data components in a NG9-1-1 system
- *NG 9-1-1 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?
- *Provisioning GIS Data (ECRF/LVF)*
  - Emergency Call Routing Function & Location Validation Function
- *Discrepancy Reports*
  - Reports for errors discovered during data provisioning
- NENA web site: [www.nena.org](http://www.nena.org)

# NENA Standards

## *NG9-1-1 CLDXF Standard*

- ✓ Standard completed & submitted to NENA leadership for review:
  - ✓ Internal NENA Authoring Committee Review
  - ✓ Internal NENA Development Group Review
  - ✓ Public review
- ✓ NENA Work Group reviews comments & updates document after each review
- ✓ Second public review (10/2012)
- ✓ NENA Workgroup reviews comments & updates document
- Revised standard submitted for publication (expected May or June 2013)

# NENA Standards

## *NG9-1-1 Data Model Standard*

- ✓ Standard completed & submitted to NENA leadership for review:
  - ✓ Internal NENA Authoring Committee Review
  - ✓ Internal NENA Development Group Review (6/2012)
- ✓ **NENA Workgroup reviews comments & updates document**
- Public review – expected June/July 2013 (15 business days)
- NENA Workgroup reviews comments & updates document after each review
- Revised standard submitted for publication

# NENA Standards

## *Site/Structure Address Point GIS Data for 9-1-1*

- ✓ Workgroup initiated (8/15/2012)
- ✓ Draft standard
- Standard completed & submitted to NENA leadership for review:
  - Internal NENA Authoring Committee Review – expected by end of 2013 (10 business days)
  - Internal NENA Development Group Review (10 business days)
  - **NO public review**
- NENA Workgroup reviews comments & updates document after each review
- Revised standard submitted for publication

# NENA Standards

## *Provisioning GIS Data (ECRF/LVF) Standard*

- ✓ Standard completed & submitted to NENA leadership
- ✓ Internal NENA “Authoring Committee Review” (10/2012)
- ✓ NENA Workgroup reviews comments & updates document
- Revised standard submitted to NENA leadership for review:
  - ✓ Internal NENA Development Group Review (ends 5/10/2013)
  - ✓ Public review (15 business days)
- NENA Workgroup reviews comments & updates document
- Revised standard submitted for publication

# NENA Standards

## *Provisioning GIS Data (ECRF/LVF) Standard*

From the Operations Impacts Summary...

*NG9-1-1 will have a profound impact on the operation of 9-1-1 services and PSAPs. In particular, MSAG and ALI systems will be **replaced** with ECRF/LVF and LIS systems.*

*ECRFs and LVFs are provisioned with **GIS data**. As a result, 9-1-1 authorities will be required to build and maintain GIS databases for 9-1-1 that meet new standards for uniformity, data accuracy, and timeliness. **These GIS databases will be the primary authoritative source** for location based call routing and location validation information.*

# Preparing Data for NG9-1-1

- Why wait? You can benefit now!
- Proposed NENA Training Class for Fall Conference
  - *Introduction to NG9-1-1 & GIS*
  - Sponsored and funded by ITS
  - GIS Committee input on content
- ITS sponsorship of 5 regional training classes
  - Spring 2014?
  - 5 consecutive days across the state
- Should we proceed with the Fall Training session?
- Upcoming SIEC Board Meeting
  - What message do we bring to help you?

# Thank you!

## Questions??

SAM Project Web Page:

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

