



## County Outreach Meeting

NYS Division of Homeland Security &  
Emergency Services

# Big Picture (1 of 2)

- Next Generation 9-1-1 *requires* GIS data
- Huge range of needs for address data statewide
- State-led project will be most efficient and least costly to all
- Building to highest level requirements (i.e. 9-1-1) will support all lower requirements
- Centralized coordination for Census Bureau
- We have federal funds to get started
- Not a re-addressing project; we're just mapping what you've got

# Big Picture (2 of 2)

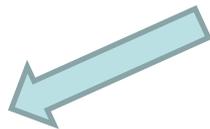
- One master address point database
- Multiple versions for different requirements
- Address point data will...
  - *Support 9-1-1 dispatch*
  - *Be publicly available for widespread uses*
  - *Support high-quality geocoding*
  - *Contain no personal or sensitive information*
  - *Contain unique IDs*

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

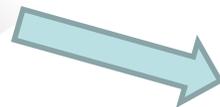
- Sex offender placements by County  
Social Services & Parole Officer casework
- Sales tax collection and distribution
- NYS DEC permitting (e.g. Chemical Bulk Storage Facilities, Pesticide application)
- Welfare to Work programs
- School bus routing



# Geocoding – adds a longitude and latitude (x/y) to an address string using a geocoding service



1220 Washington Avenue  
Albany, NY



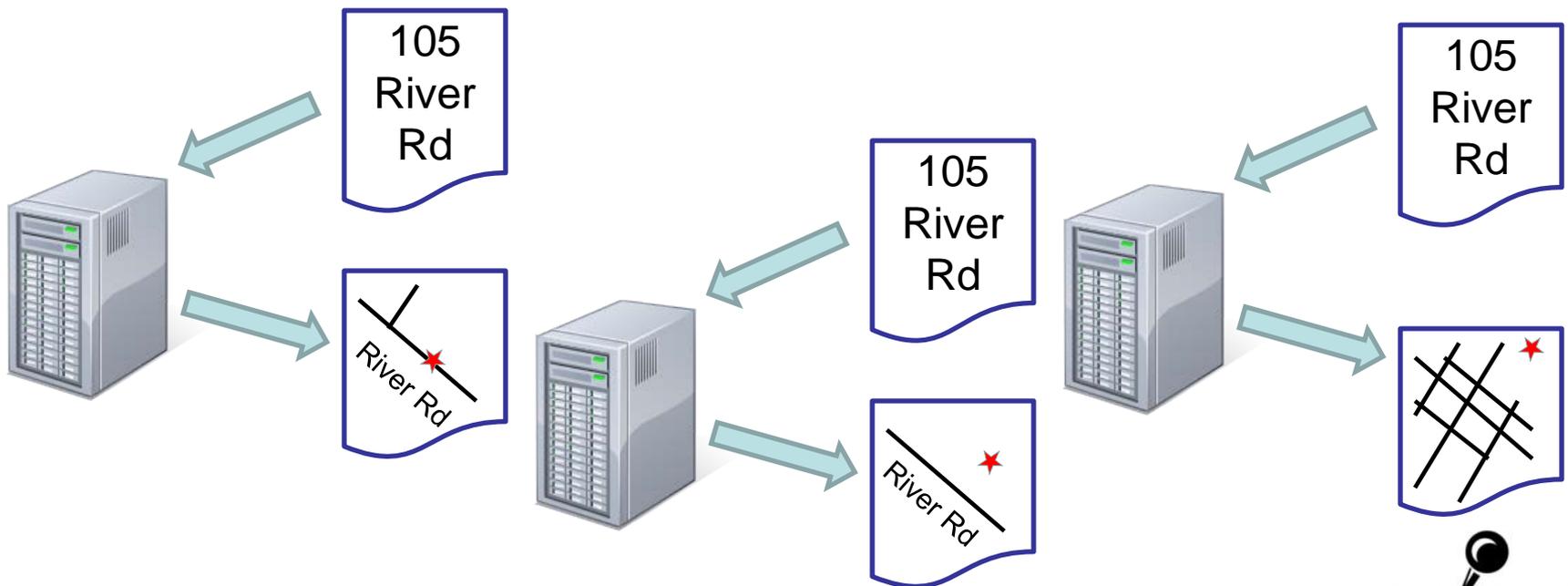
1220 Washington Avenue  
Albany, NY 12242, 42.680349,-73.810409

# Current Geocoding Status Across the State

*Identical input addresses yield different results!*

Counties, Cities, Towns and State Agencies

Each hosts a geocoder which returns different results



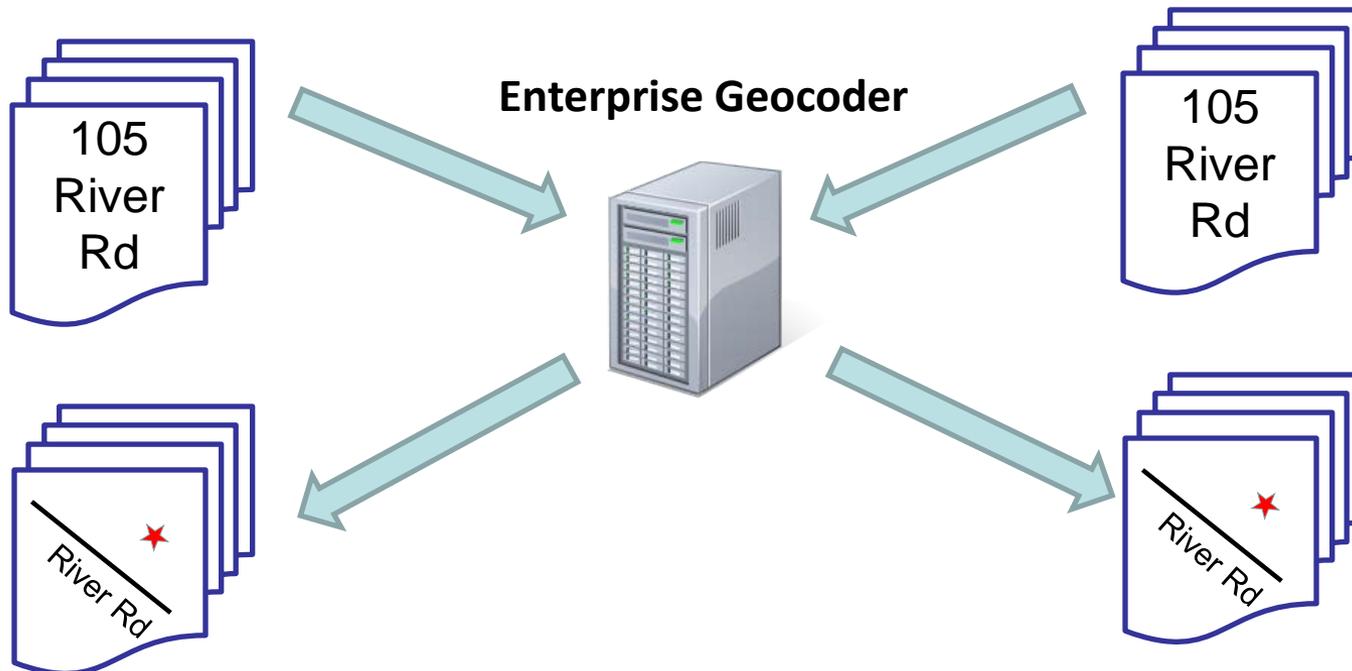
# Geocoding With a Centralized Service

*Identical input addresses yield identical results*

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

Counties, Cities and Towns

State Agencies



# SAM Partners

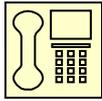
- DHSES (incl. State 9-1-1 Board)
- NY 9-1-1 Coordinators Association
- New York State Association of Counties
- NENA
- US Census Bureau
- US Postal Service
- NTIA





# 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



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

# Next Generation ~~Mobile Phone~~ Device

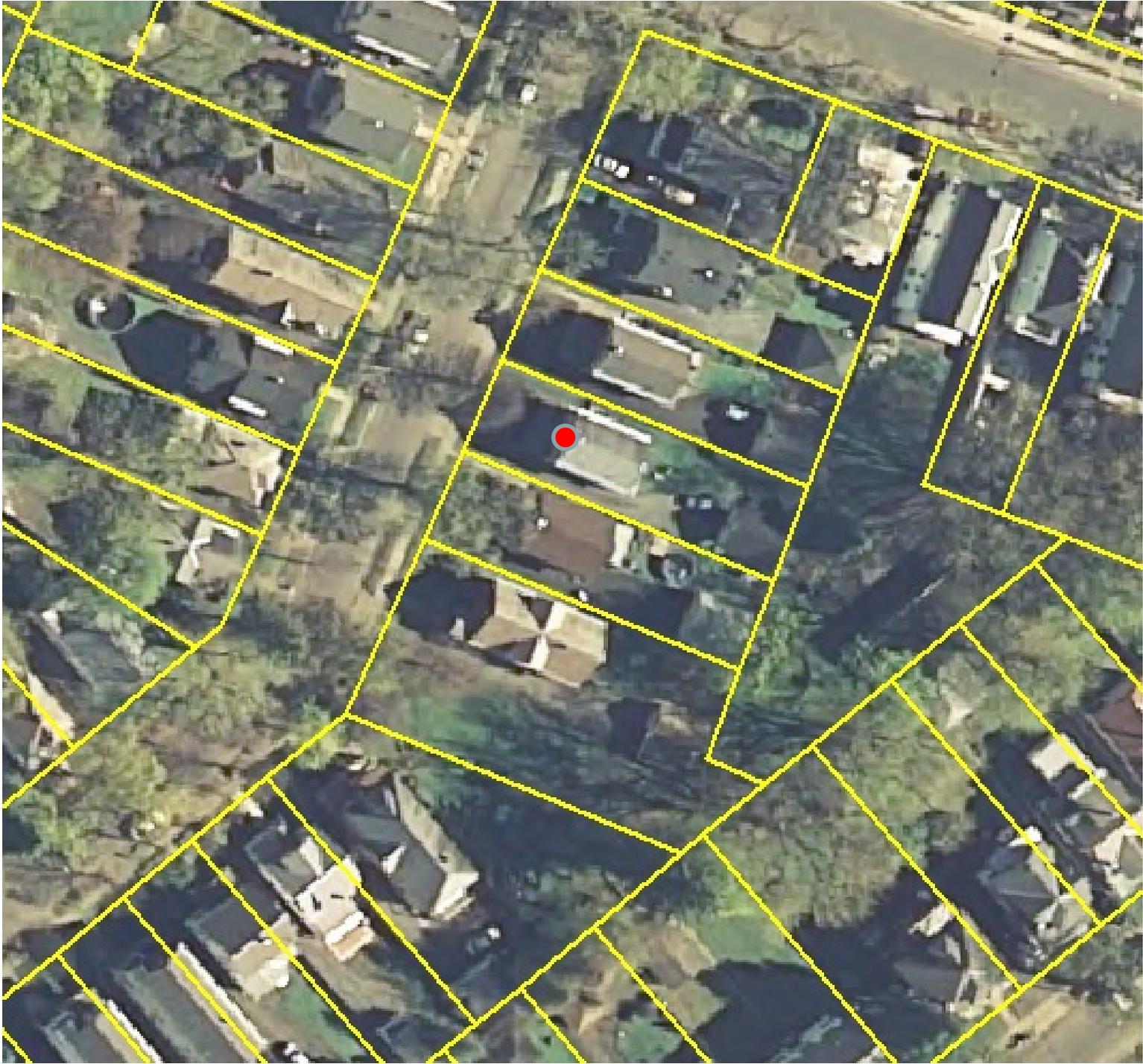


Point in Polygon Police, Fire, EMS  
GIS Service Zones

# NENA Address Standards

- *FGDC US Thoroughfare, Landmark and Postal Address Data Standard (2/9/11)*
  - Parses/breaks out addresses into smaller components
  - Jointly developed by URISA & NENA
- *NENA Civic Location Data Exchange Format (CLDXF)*
  - Similar to FGDC but allows some abbreviations
  - Second public review later this year
- Mapping standard for address points lacking
  - Where to place a point & how many points?
  - NENA Site/Structure Address Point work group

Some examples of what the NENA  
standard will resolve...







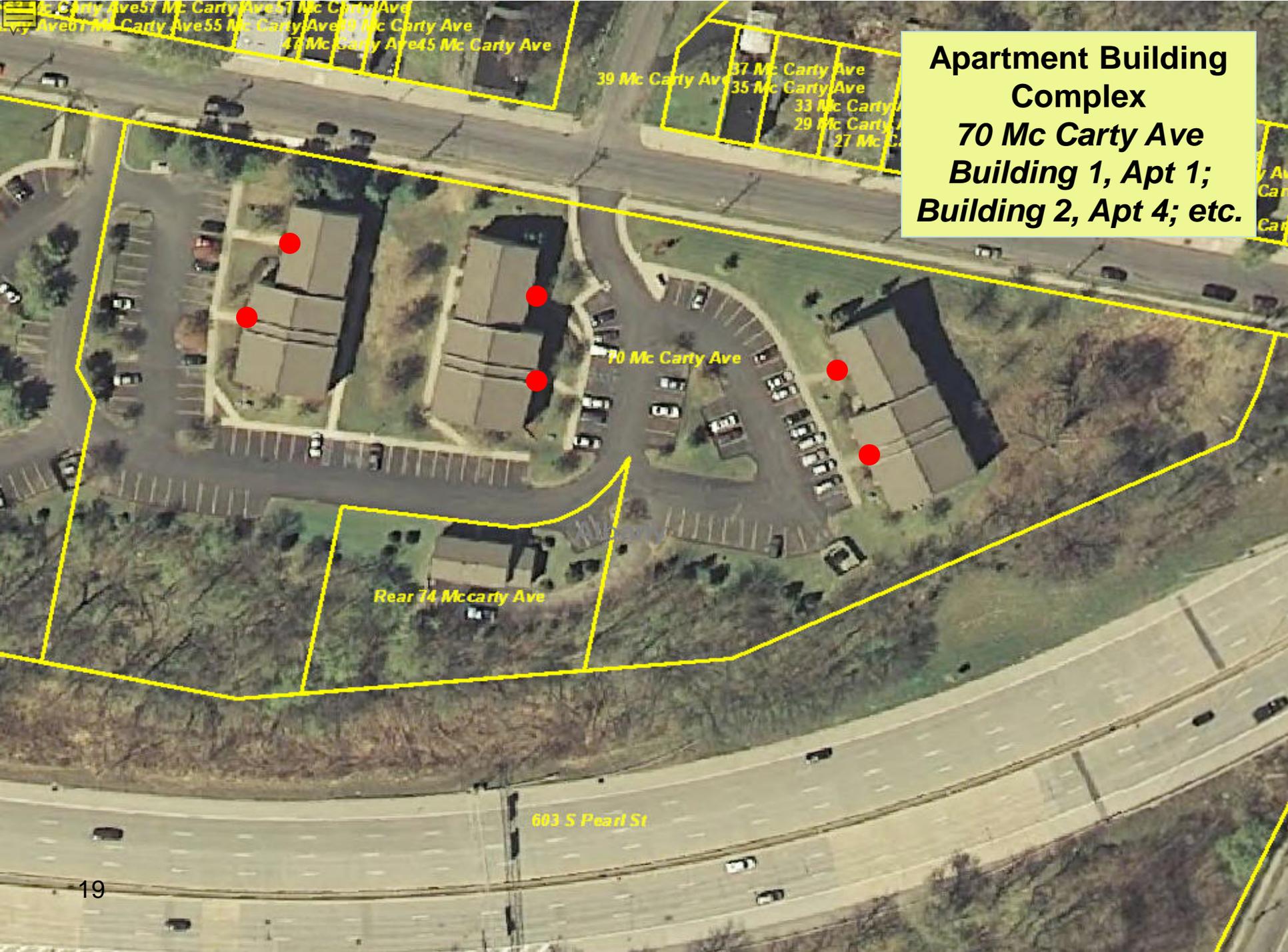
# What's a Subaddress?

- 123 Main Street, **Apartment 101**
- U.S. Dept. of Agriculture Building, **Floor 7, Room 324**
- 800 West Mountain Road, **Building 6, Suite 450**
- Suburban Office Park, **Building 12, Mezzanine, Suite 200**
- Five-Star Hotel, **East Tower, Penthouse**
- General Hospital, **Cardiac Wing, Room 224**
- Metro Airport, **Terminal A, Gate C27**
- Batavia Downs, **Barn 12**

*Some examples...*

**Duplex**  
**10A Limerick Ave**  
**& 10B Limerick Ave**





**Apartment Building  
Complex**  
**70 Mc Carty Ave**  
**Building 1, Apt 1;**  
**Building 2, Apt 4; etc.**

57 Mc Carty Ave  
55 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

70 Mc Carty Ave

Rear 74 Mc Carty Ave

603 S Pearl St



**Mobile Home Park**  
**2941 Amsterdam Rd,**  
**Lot 1, Lot2, Lot 3, etc.**

1 ALFLO CIR

3 ALFLO CIR

5 ALFLO CIR

BOX\_285 AMSTERDAM RD

2941 AMSTERDAM RD

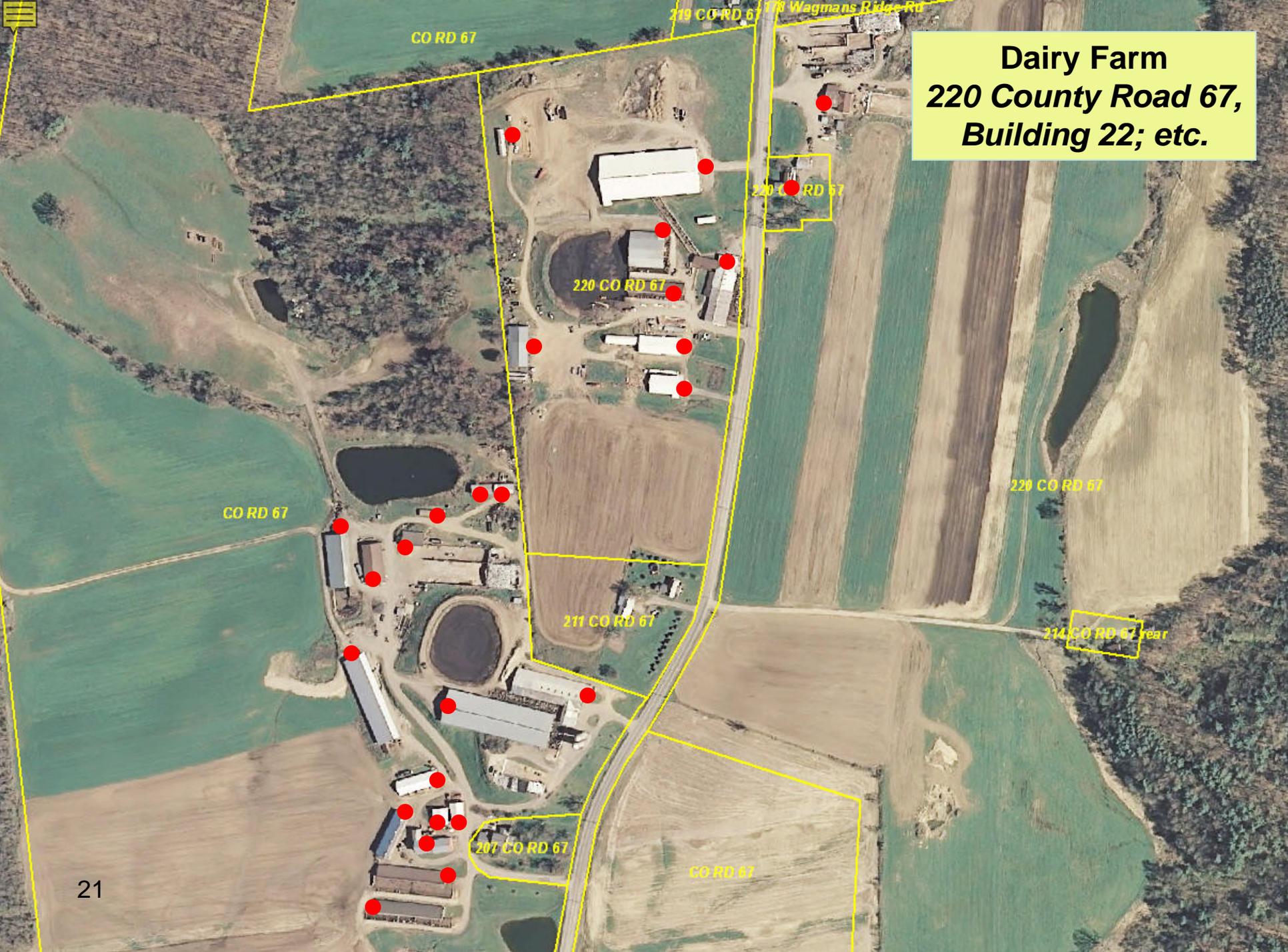
2939 AMSTERDAM RD

AMSTERDAM RD

2901 AMSTERDAM RD

20

VAN BUREN LN



**Dairy Farm**  
**220 County Road 67,**  
**Building 22; etc.**



**Office Building  
90 State Street,  
Floor 3, Suite 6;  
Floor 1, Suite 1; etc.**

# Conversion to NENA 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

# 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 NENA standard

State migrates existing county address points to NENA standard



# 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 9-1-1 Board)

State could provide:

- Data maintenance tools
- Data hosting/distribution services





# Outreach Steps

- ✓ Contact Sheet
- ✓ Questionnaire
- ✓ Follow up meeting/discussion with each County
  - Request data
  - Source Usage Document
  - Data Usage Agreement
    - Statewide Address Point Layer
    - Statewide Parcel Data Layer



# Data for the Address Point Build

- County Address Points
- Other data sources containing addresses
  - Local Carrier Exchange (LEC) subscriber database (9-1-1 Master Address list)
  - County Tax Parcels
  - *NYS Address Points-NAVTEQ*
- Data useful for placing or refining address points
  - Building Footprints
  - MSAG Address Ranges
  - County Streets
  - *NYS Streets*
- Common Place Names Table
  - For populating Landmark Name attribute/table



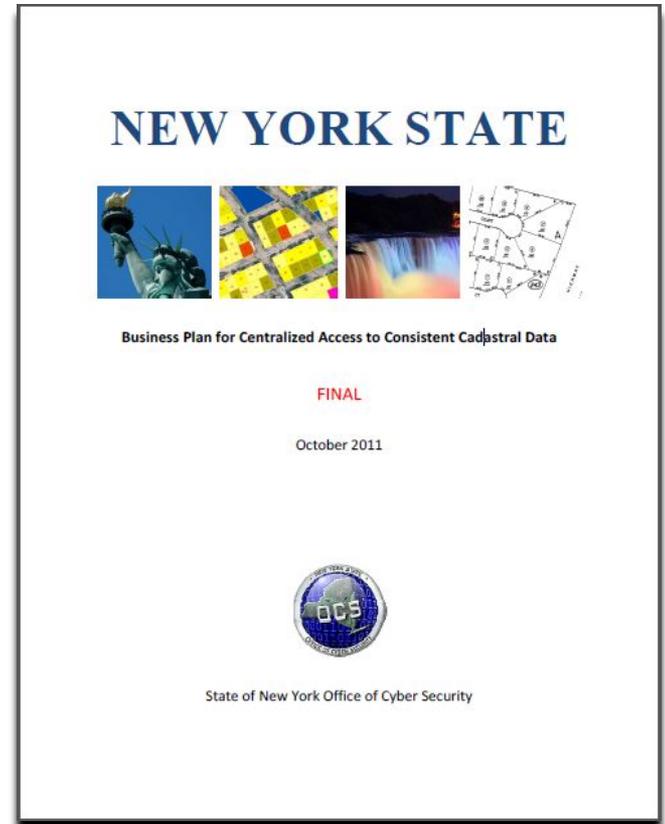
# Source Usage Document

- Identifies data available for the data build
- Evaluates how data should be used
  - *Primary source*
  - *Secondary source*
  - *Reference source*
- Each county reviewed on a case-by-case basis
- County will provide input and review the SUD
- Important for:
  - *Gauging level of work*
  - *Prioritizing county build order for Contractor assigned work*

# Data Usage Agreement

## Parcel Business Plan

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





# Statewide Parcel Data Layer Uses

- Assessment
- Statewide STAR exemption checking
- Public safety & emergency response
- Disaster recovery
- Economic development
- Planning & zoning
- Land use and environmental permitting
- Broadband infrastructure planning

# 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



# 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
- Original (notarized) signature required
- Can have one or multiple Data Usage Agreements
- Data Usage Agreement terms apply to subsequent data deliveries
- **Let's fill it out now!**



# What Data Can Your County Provide?

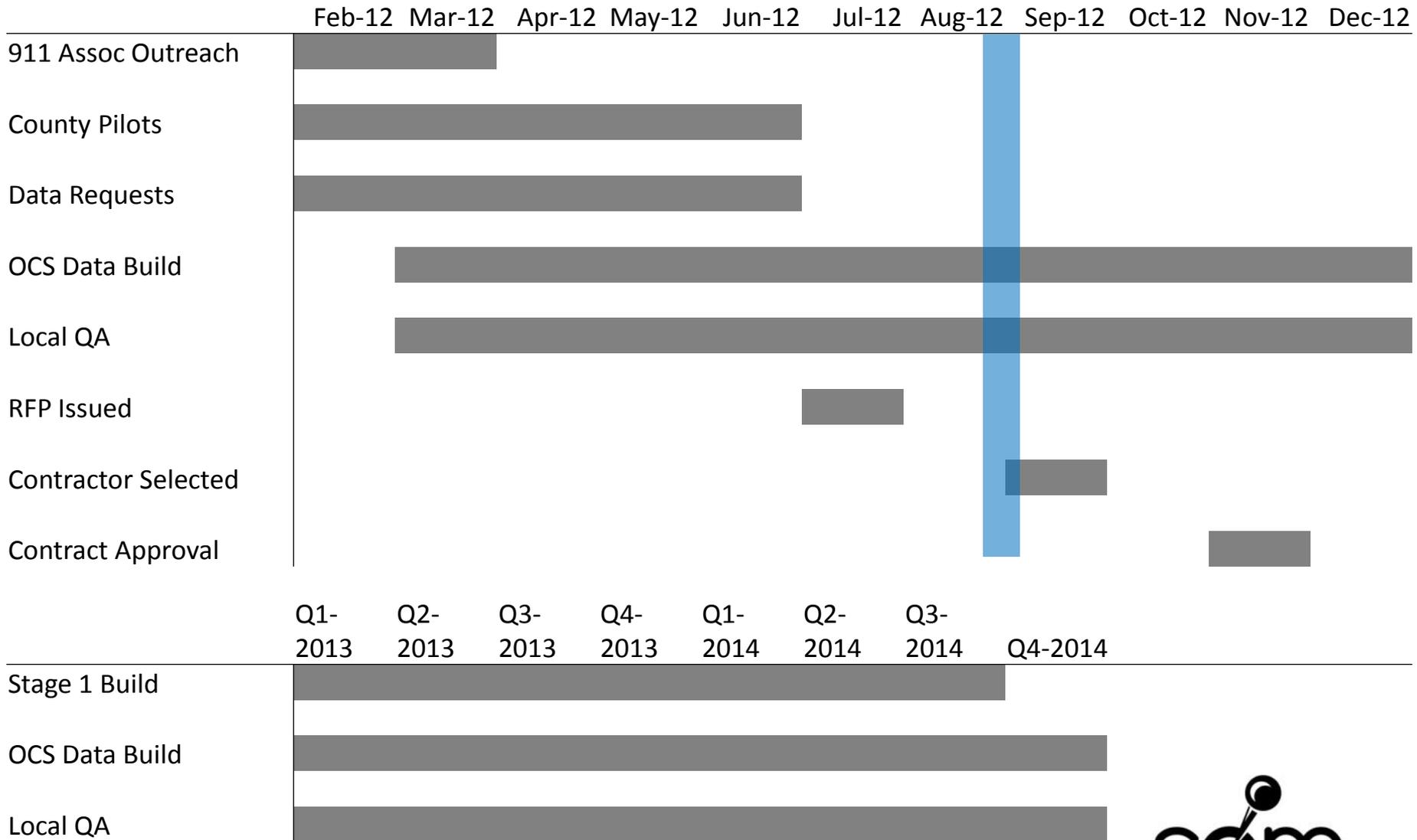
- County Address Points
- Other data sources containing addresses
  - Local Carrier Exchange (LEC) subscriber database (9-1-1 Master Address list)
  - County Tax Parcel Boundaries
  - Voter Registration Address List or Other address lists?
- Data useful for placing or refining address points
  - Building Footprints
  - MSAG Address Ranges
  - County Streets
- Common Place Names Table
  - For populating Landmark Name attribute/table



# What's Next for Local Governments

- Provide data
  - What one person will have an FTP account?
  - Signed Data Usage Agreements
- SUD evaluation
- Participate in work groups
  - NENA Standards
  - Data QA roles and processes
  - Long term data maintenance agreement
- Data QA and long term maintenance

# Stage 1 Timeline



**Thank you!**

**Open Discussion**