

New York State's NG911 Addressing Project

Bill Johnson

New York State Division of Homeland Security & Emergency Services *February 27, 2012*

Big Picture (1 of 2)

- Next Generation 911 *requires* GIS data
- Huge range of needs for address data statewide
- State-led project is most efficient / least costly
- Building to highest level requirements (i.e. NG911) will support all lower requirements
- Centralized coordination for Census Bureau^{*}
- We have federal (NTIA) funds to get started
 - * Stay tuned for Census Address Panel at 2:00 today!



Big Picture (2 of 2)

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





In Addition to 911 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



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**



SAM Partners

- DHSES (incl State 911 Board)
- NY 911 Coordinators Association
- New York State Association of Counties
- NENA
- US Census Bureau
- US Postal Service
- NTIA



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
 - Includes subaddresses
- NENA version similar
 - Civic Location Data Exchange Format (CLDXF)
 - Allows some abbreviations
 - NENA reviewing 200+ public comments on CLDXF
- Mapping standard for address points lacking
 - Where to place a point & how many points?
 - NENA standing up a work group
 - Will follow NENA standards development process

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

1

+

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

277

ntv Ave

Rear 74 Mccarty

- 117 (003)

111

Trailer Park 2941 Amsterdam Rd, Lot 1, Lot2, Lot 3, etc.

AMSTERDAM RO

DAM RD

STERDA<mark>N</mark> RD

MAAL DUUDPALLA



Statewide Address Point Build: 2 Stages

Stage 1:

State contracts for assistance in mapping "main structure" address points

- Points on building footprint
 - not including supplemental points
 - not including subaddresses (unless they already exist in county data)
- Address will be in NENA standard

State migrates existing county address points data to NENA standard

Stage 1

Like building the Transcontinental RR...



Statewide Address Point Build: 2 Stages

Stage 2:

- Using the pending NENA standards
 - Refine locations
 - Map subaddresses
 - Place supplemental points (driveways, entrances, etc)
 - Potential State grant funding (via 911 Board) based on future NENA standards



Conversion to NENA Standard

Before

	OBJECTID *	Shape *	ADDRESSID	ADDRNUM	PREFIX	STREETNAME		STREE	ETTYPE SUFFIX		SUBADDRESS	
	3749	Point	3749	<null></null>	<null></null>	STATE RO	UTE 13	<null></null>			C ITHACA	
	3750	Point	3750	<null></null>	<null></null>	STATE ROUTE 13		<null></null>	ull>		C ITHACA	
	3751	Point	3751	<null></null>	<null></null>	STATE ROUTE 13		<null></null>			C ITHACA	
	3752	Point	3752	<null></null>	<null></null>	STATE ROUTE 13		<null></null>		C ITHAC		4
	After	·a				4						
AddressNumber		PreMod	ifier Pre	Directional	Pr	еТуре	SeparatorElement		StreetName		ie	PostType
<n< th=""><td>ull></td><td><null></null></td><td><null></null></td><td></td><td>STATE</td><td>ROUTE</td><td><null></null></td><td></td><td>13</td><td></td><td></td><td><nul></nul></td></n<>	ull>	<null></null>	<null></null>		STATE	ROUTE	<null></null>		13			<nul></nul>
<n< th=""><td>ull></td><td><nul></nul></td><td><null></null></td><td></td><td>STATE</td><td>ROUTE</td><td><null></null></td><td></td><td>13</td><td></td><td></td><td><nul></nul></td></n<>	ull>	<nul></nul>	<null></null>		STATE	ROUTE	<null></null>		13			<nul></nul>
<n< th=""><td>ull></td><td><nul></nul></td><td colspan="2">Null> <null></null></td><td>STATE</td><td colspan="2">ROUTE <null></null></td><td></td><td colspan="2">13</td><td></td><td><nul></nul></td></n<>	ull>	<nul></nul>	Null> <null></null>		STATE	ROUTE <null></null>			13			<nul></nul>
<n< th=""><td>ull></td><td colspan="2"><null> <null></null></null></td><td></td><td>STATE</td><td colspan="2">TATE ROUTE <null></null></td><td></td><td colspan="2">13</td><td></td><td><nul></nul></td></n<>	ull>	<null> <null></null></null>			STATE	TATE ROUTE <null></null>			13			<nul></nul>
		1	I I									



Conversion to NENA Standard

Before





Stage 1 Timeline

	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
911 Assoc Outreach											
County Pilots											
Data Requests											
OCS Data Build											
Local QA											
RFP Issued											
Contractor Selected											
Contract Approval									I		
							Q3- 2014	Q4-2014			
Stage 1 Build											
OCS Data Build									-		
Local QA								-	S		ING -

Thank you!

