



Master Address Database is a Good Compliment to Municipal GIS

Spring NEARC Smith College, Northhampton, MA May 11, 2010

Jeff Amero, GIS Manager, City of Cambridge

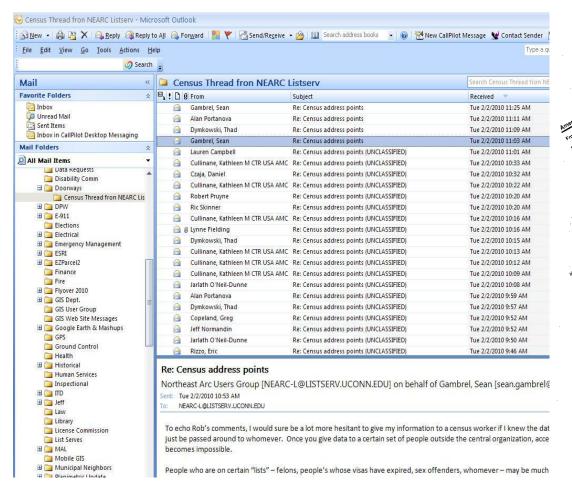
Who cares about addressing?

- GIS types have always wanted to accurately map events.
- Municipal staff need good addressing for day-to-day operations
- The public wants services without confusion
- People want the ambulance to show up!



People are interested in this!

50+ NEARC ListServ e-mails on a Feb 2nd thread



Amero, Jeff

From:

Northwast Arc Users Group INEARCL@LISTSERV.UCONN.EDU] on behalf of Copeland, Greg (GCOPELAND@BIDGEF-ONDMAINE.CRG) Monday, Retway 61, 2010 Std PM CRARCL@LISTSERV.UCONN.EDU

Re: Consus andress points

Back in 2008 the Census Bureau contacted me about collecting the data in our community. The rules were so restrictive regarding data collected and it's availability, that it will for all intents and purposes member available to us for use. I forget the actual time frame they gave before the modalable collected, but it was ridiculously long, 50 years, 70 years are considered to the contact they years are considered to the contact they want an accurate count and they want people to be willing to respond to the census. By the contact they want to the contact the contact the contact the contact that is not contact that the contact the contact that the contact that the contact the contact that the contact that the contact that the contact that the contact the contact that the contact that the contact the contact that the contact the contact that the contact that the contact that the contact the contact that the contact that the contact the contact that the contact that the contact the contact the contact that the contact the contact the contact the contact that the contact need an accurate count and they want people to be willing to respond to the census. They feel by protecting this information people will be more willing to be upforten with them. Mhen I question the people at the census (purposel) aspend about what would happen if during the course of collecting data I was to find illegal apartwents on bousing units? I was told the course of collecting data I was to find illegal apartwents on bousing units? I was told the course of the reasons the data would not become available. The count was of the casons the data would not become available. The count was of the utmost memortance to them. The will not chare thing data. The will not share their data. importance to them.

Gregory J. Copeland, PLS

City of Biddeford Maine

----Original Message----From: Mortheast Arc Users Group [mailto:NEARC-L@LISTSERV.UCCNN.EDJ] On Behalf Of Andrew

Sent: Monday, February 01, 2010 4:13 PM TO: NEARC-LOLISTSERV.UCONN.EDU Subject: Census address points

My understanding is that the 2010 US Census has already created GPS points for all known USPS whom scanning a close of the course closes man and course the course of the course of

Does anyone have a sense of if & when the Census will release this point & address (only) data for general use by cities and towns? I don't want to have to reinvent the whale.

Andrew Kuether, GIS Coordinator,

Public Works, Engineering Division 125 Locust Street, Morthampton, Ma 01060 413-587-1570 x4308, <u>akucther@northamptonma.gov</u>

Kuether Sent: Mond. To: NEARC-L Subject: Cen

Hello All --

My understandin, addresses (and t up in a special l

Does anyone have a data for general us

used GPS points for all known USPS at layer for me but the data is locked of other use than census planning.

... the Census wil: release this point & address (only)
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The address issue...

- An address is the most commonly used identifier of places for most people.
- An address is a common geospatial aid to navigation

BUT

- No one department is responsible for maintaining a comprehensive list of all addresses
- Different versions of the same address may exist in individual databases



- There is no complete list of addresses
- Addresses and street names are stored in databases in different formats
- Some properties don't have addresses
- Exceptions are not handled consistently

The Result?

- People can't be found in emergencies
- Problems that cannot be located for repair
- Inefficient use of staff time
- Higher cost of doing business
- Higher liability and risk for the city

Addressing Problems

- Inconsistency (streets change names, ranges are not uniform)
- Aliases and obsolete street names
- Corner lots, multiple occupancies, garage apartments, shifting mall tenants
- Situs (location) addresses vs. mailing addresses
- Odd and even, potential vs. actual, diagonals and circles

How Do We Fix This?

- Inventory of existing lists of addresses
- Review existing conditions
- Standardize and clean up addresses
- Develop a master address database

How Do We Fix This?

- Develop tools that allow other systems to validate addresses.
- Match addresses to geographic entities (buildings, parcels, address points)
- Clean up addressing from the match
- Field checking



- Assign addresses to parcels, structures and occupancies where they are missing.
- Develop workflows for address assignment
- Keep the database current and complete



- Lack of cooperation among departments
- Different formats for address data
- Things can change rapidly
- Need real time validation and verification of addresses

Organizational Issues

- Where are addresses created?
- What is the workflow for creation?
- Where are the newly created addresses kept?
- Who is advised of them, or has access to them?

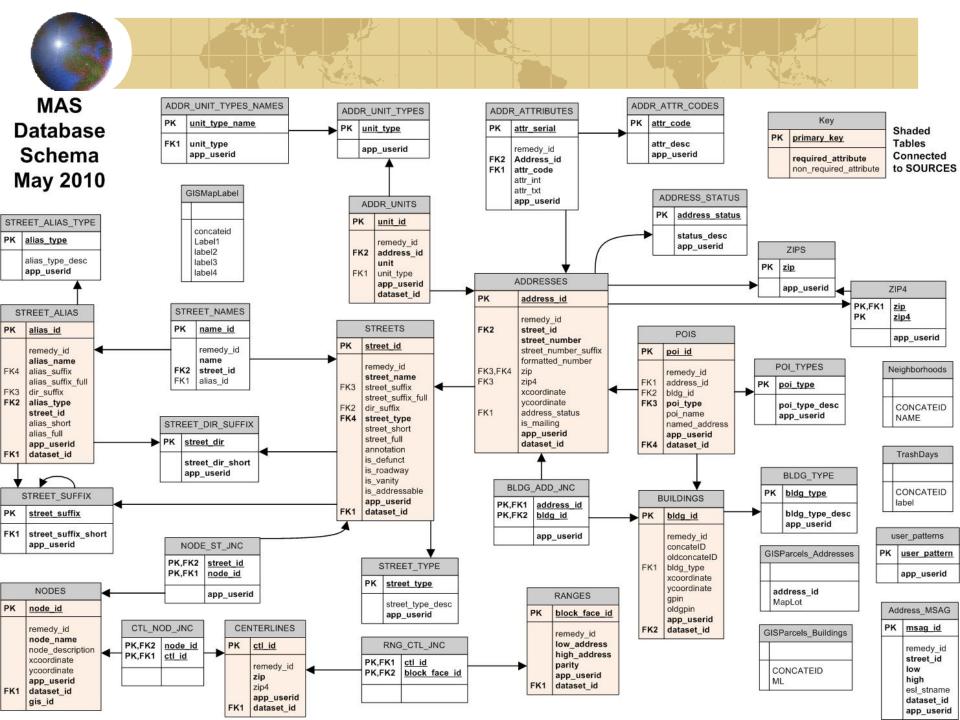


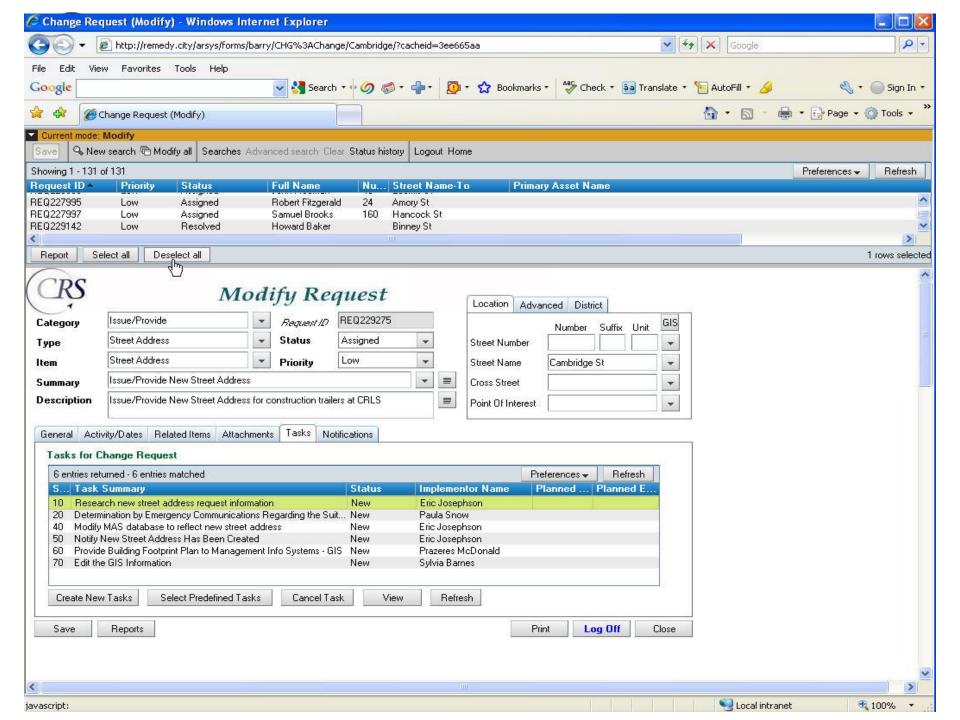
Organizational Issues

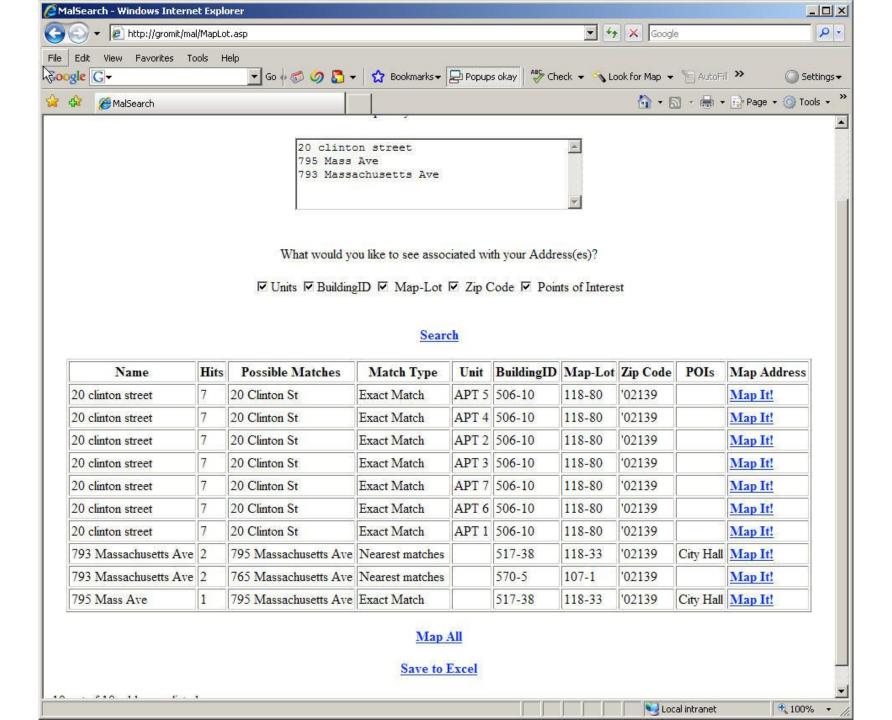
- How are address databases maintained?
- Any internal notification of other departments?
- Any external notification (P.O., utilities, etc.)?
- How are they integrated with other data sets?

Opportunities and Rewards

- Everyone has the same information
- Faster average response time for both emergency and non-emergency personnel
- Better ability to manage infrastructure
- Better ability to serve customers
- Potential for significant revenues through geoauditing











Jeff Amero - GIS Manager City of Cambridge 617-349-6015 jamero@cambridgema.gov