njoit New Jersey Office of Information Technology

Master Data Matters

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Topics

- Tips about technology adoption
- Importance of master data
- Prime candidates for master data in municipal government
- The tax map as master data

Some Keys to Successful Technology Adoption

- Always start with requirements! Don’t let a shiny solution tempt you to skip past the step of determining what you really need.
- Keep existing processes in view, but don’t be afraid to change them.
- Focus on data re-use – build once, use many times – master data management

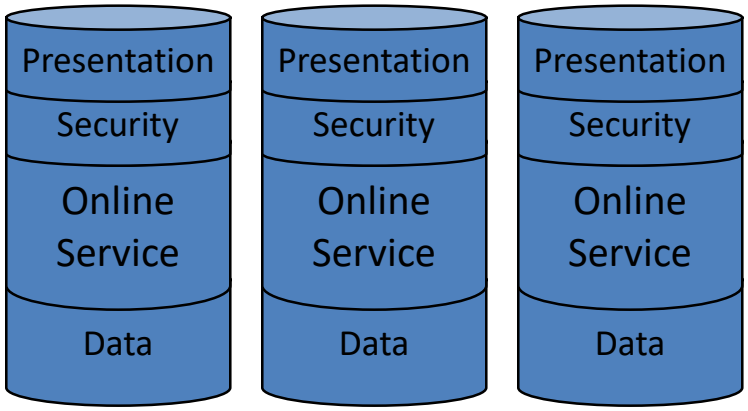
What is Master Data?

- Master data: data objects that are shared/re-used across the enterprise
- Formal master data management is a comprehensive approach requiring special tools and extensive process and system change
- Absent that, less elaborate methods can yield great value
- Emphasis on data re-use
- Quality and consistency are improved
- Costs are reduced

Image from galdosinc.com

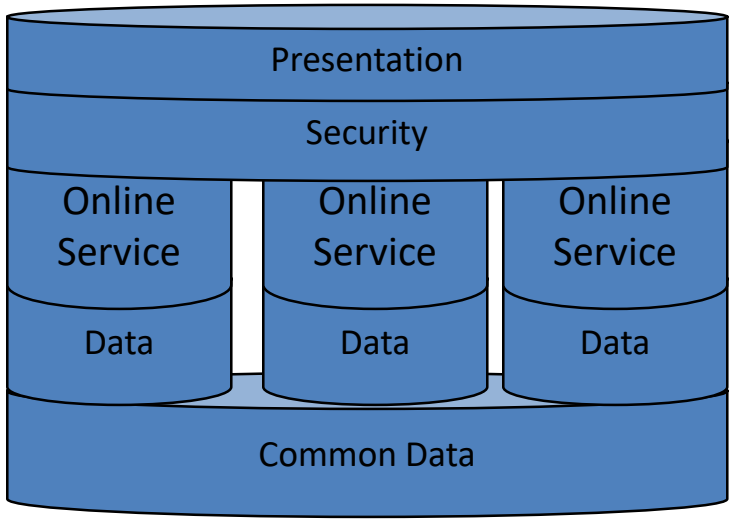
Silos Will Persist, That's OK

Individual Agency Implementations



Before

Unified Approach



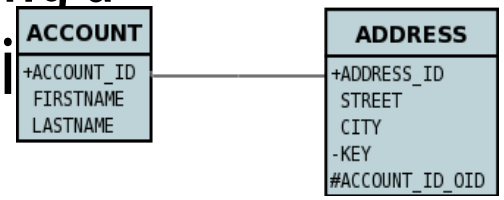
After

Prime Candidates for MD

- Street Names
  - Consistency
  - Efficiency
  - Set up pick lists for data entry
  - First step in building master data for addresses

Address Data

- How many of your databases include addresses?
- You already probably have all the addresses – here and there and everywhere.
- Master address data can be as simple as assigning a unique ID to each address and using that ID to li to a master table



Benefits of Complete Address Data

- Higher data quality
- Better matching between systems
- More efficient to update
- Better census counts ($$)
- Add x+y coordinates and you have an excellent reference for map-based systems
- (Cross-reference to block/lot/qual)

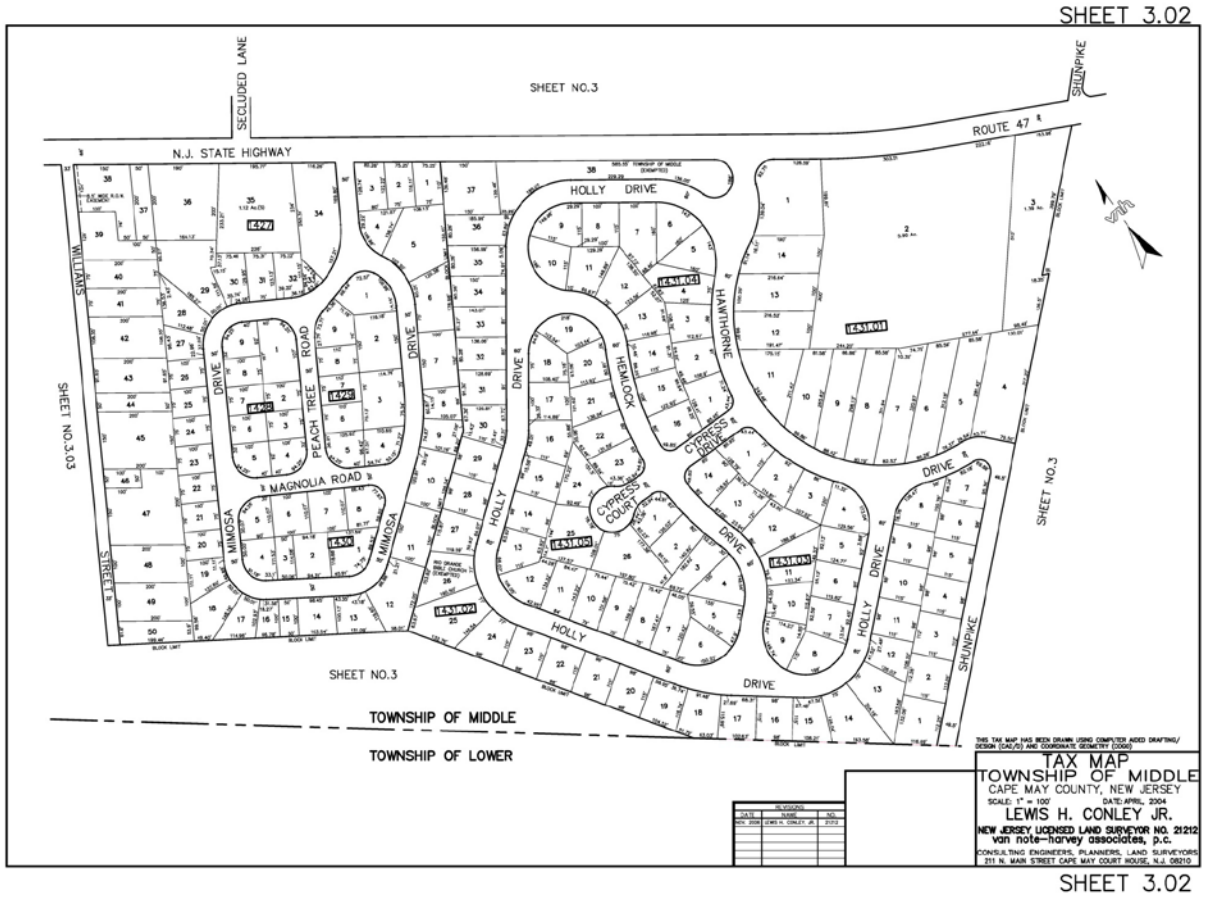
Digital Tax Maps as Master Data

- Many municipal records are keyed to BLQ
- In many cases separate maintenance process creates parcel data in GIS
- Digital tax map, properly constructed, eliminates that separate process

An Investment With Dividends

- Provide a powerful tool to manage & analyze resources and improve decision making
- Streamline procedures by automating processes
- Reduce duplication of effort
- Improve quality & timeliness of service and information to the public
- Protect against the loss of valuable maps and records due to a natural disaster

By Itself, Just a Tax Map



(But a better one)

Power is in Integration

Uses of Parcel Data in GIS

Permits
Inspections
Historical Bldgs

Building

Transportation
Infrastructure
Mgmt.

Engineering

UEZ
Business
Development

Economic Dev.

Voter Registration
Senior Citizen
Immunization programs

Citizen Services

- Owner
- Address
- Land usage/zoning
- Sales
- Property Value

Fire response
Inspection
HazMat
Fire Districts

Fire

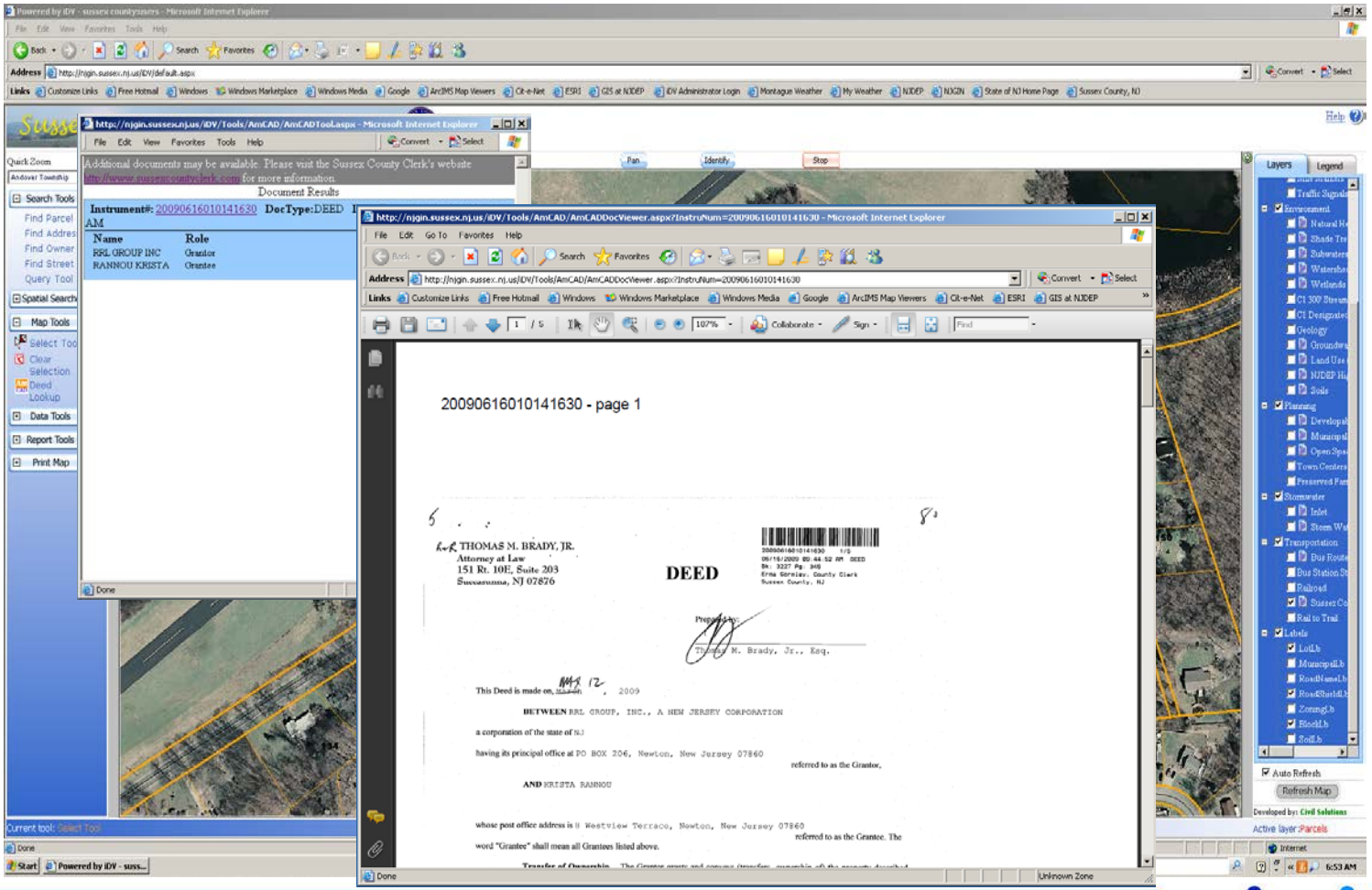
Housing, Land Use & Zoning,
Open Space
Schools, Day Care

Planning

Crime response
Crime tracking

Police

Open Data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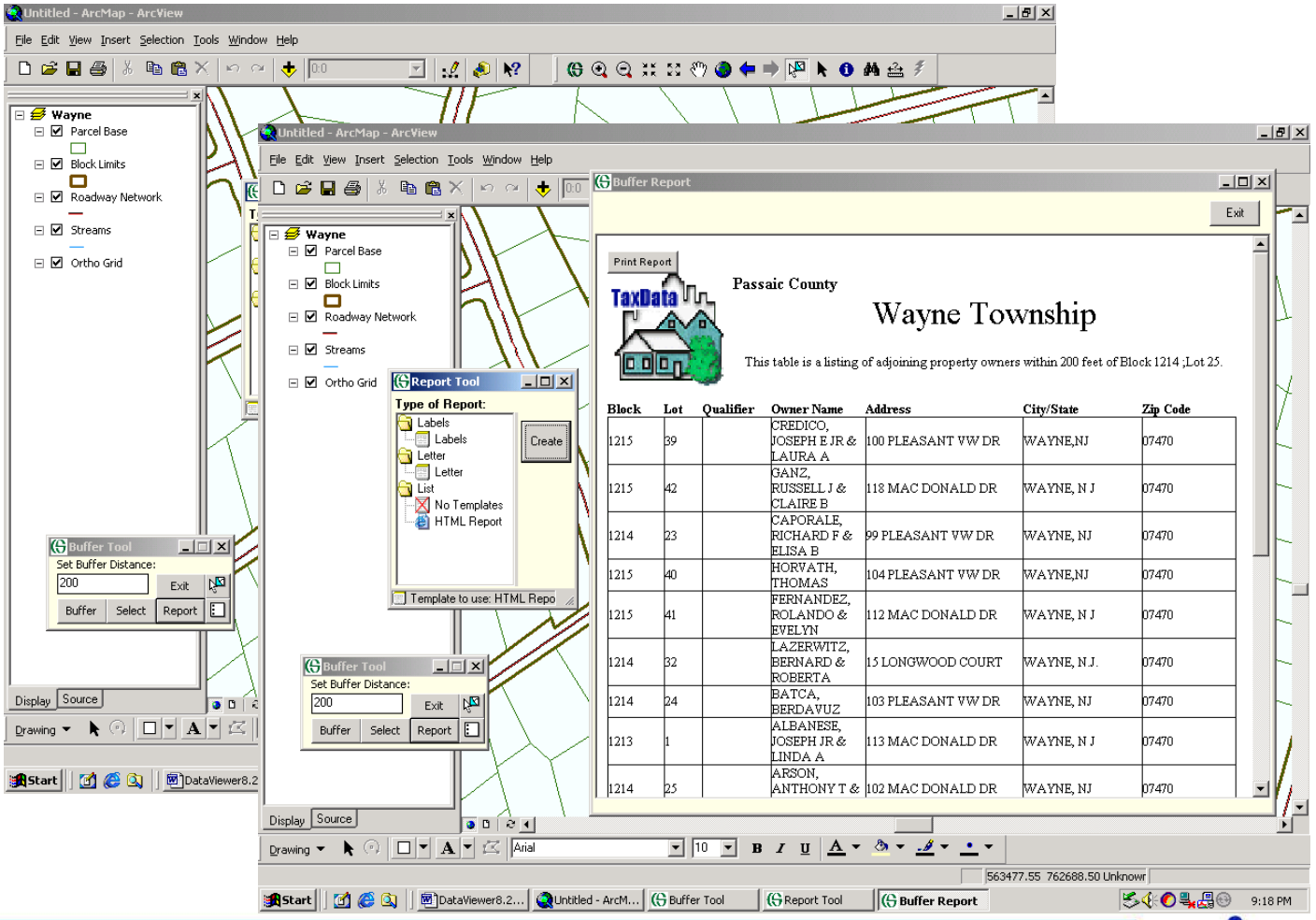
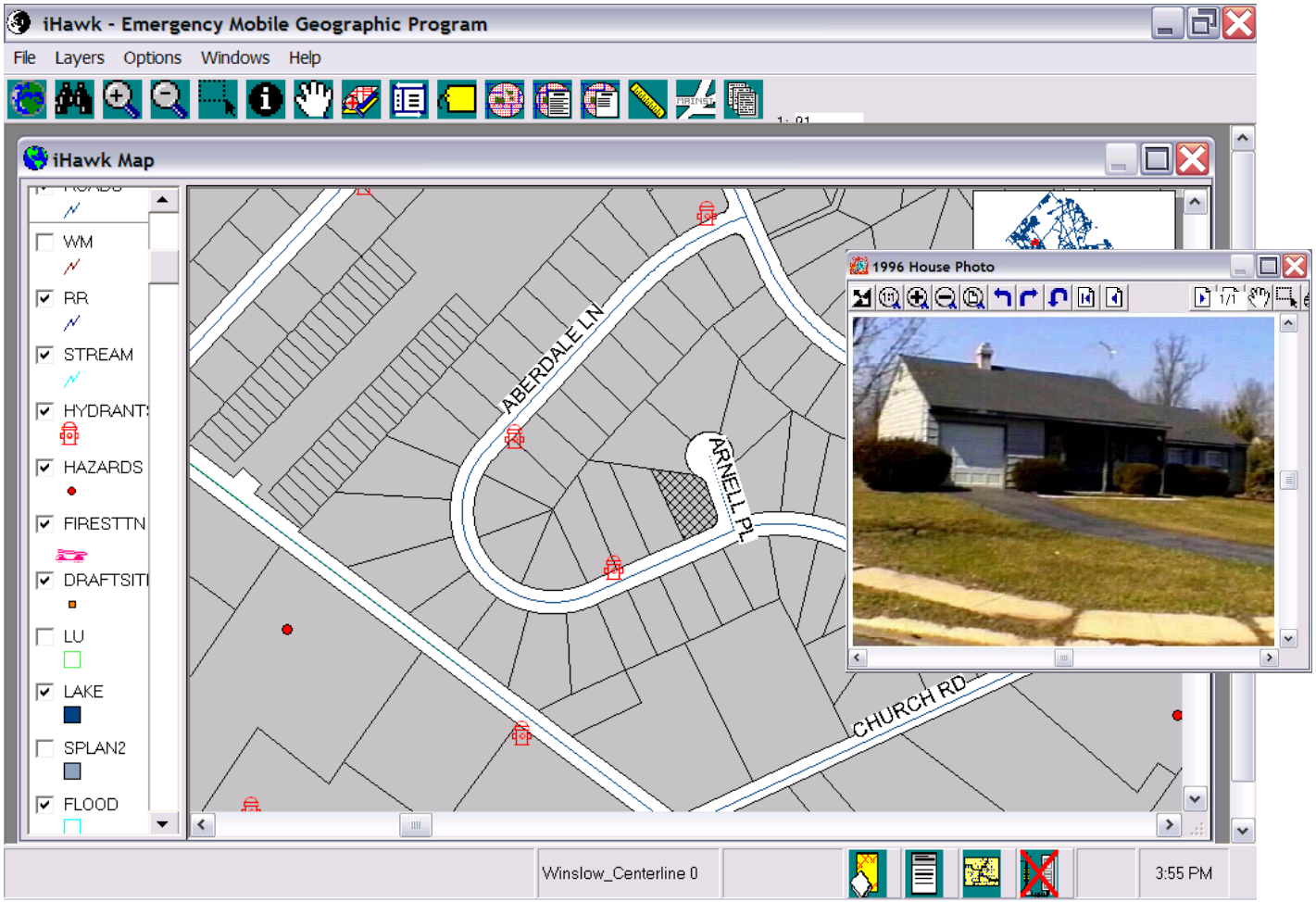
RRL GROUP INC Grantor
RANNOU KRISTA Grantee
20090616010141630 - page 1
THOMAS M. BRADY, JR.
Attorney at Law
151 Rt. 10E, Suite 203
Succasunna, NJ 07876
DEED
This Deed is made on
2009
BETWEEN RRL GROUP, INC., A NEW JERSEY CORPORATION
a corporation of the state of NJ
having its principal office at PO BOX 206, Newton, New Jersey 07860
referred to as the Grantor,
AND KRISTA RANNOU
whose post office address is 8 Westview Terrace, Newton, New Jersey 07860
referred to as the Grantee. The
word "Grantee" shall mean all Grantees listed above.

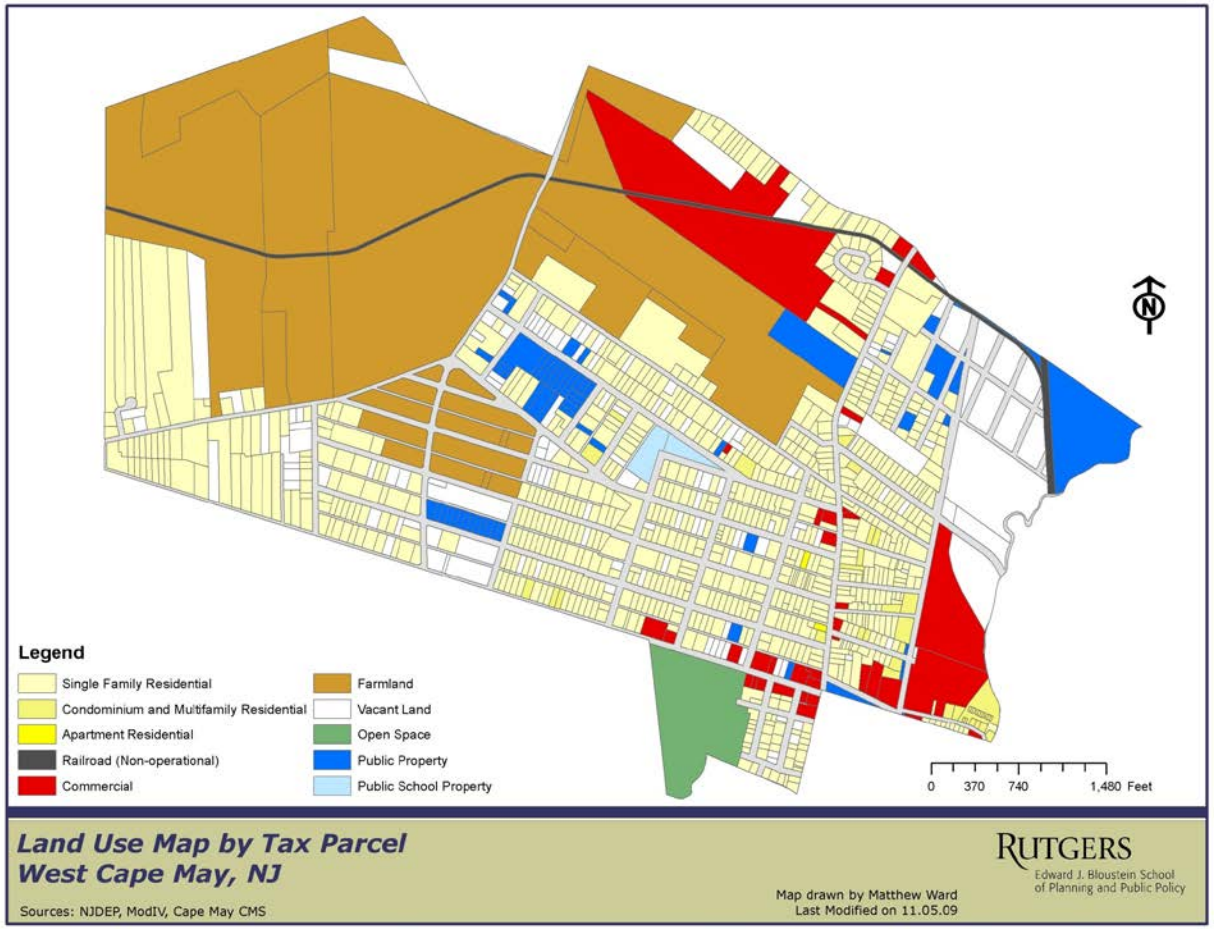
Buffers and Notifications



Emergency Support System



Planning Support



Digital Tax Map Preparation

- New map should be constructed from a proper backbone, not scanned from paper
- CAD template from Division of Taxation has standardized layers
- Provides for a seamless, georeferenced map
- Facilitates easy conversion to GIS
- Soon: digital submission for map approval

Resources and Contact Info

- http://www.state.nj.us/treasury/taxation/lpt/digitaltaxmaps.shtml
- https://njgin.state.nj.us/NJ_NJGINExplorer/jviewer.jsp?pg=digital_tax_map

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