The NYC GIS Utility



GIS: A Key Integrating Component of IT

INFORMATION technology

Human Beings and Human Society Depend Upon Information For EVERYTHING They Think and Do

The Value of and Need For Information Drives The Creation of New Technology

The Higher Quality The Information The Greater the Potential For Doing Things Better

technology

- Processing Powah
- Telecommunications speed and bandwidth
- Wireless
- Miniaturization
- Web
- RDBMS and other software tools and apps

=====Equals

Information Anytime, Anywhere, Anyhow

Information Hierarchy

- Data (isolated/paper)
- Information (report)
- Information (analysis)
- Intelligence (stovepipe)
- Knowledge (integrated agency)
- Knowledge (integrated enterprise)
- Insight (interpretive)
- Insight (predictive)
- Wisdom (human)

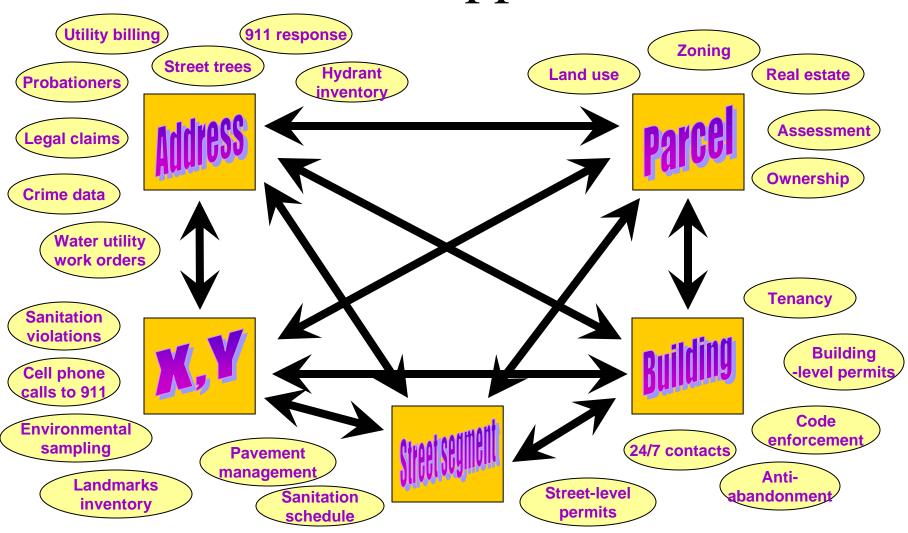
Information Types

- Who: Name, ID, Object, Entity, Subject
- What: Facts, Figures, Event, Description
- When: Time
- Where: Address, Parcel, Building #, Coordinate, Street Segment, Street Intersection, Street Segment, Floor
- Why? How? explanations

Combinations of Information

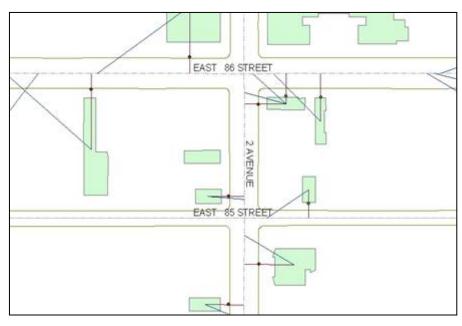
- Enable and encourage collaboration and cooperation
- Solve problems
- Increase efficiency, effectiveness, productivity
- Enable predictive and preventive analysis
- Lead to new solutions and new services
- Results in higher value answers and uses

NYC Geographic Identifiers & Geosupport





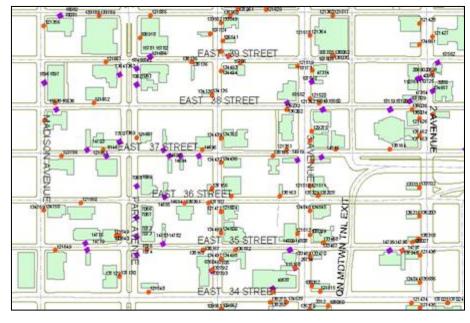
Automated Mapping Application



Sample process for public pay telephones:

- 1) Validate & normalize street address
- 2) Convert from address to building centroid
- 3) Move to curb or building frontage
- 4) Offset by user defined distance

Sample product: Mapping of public pay telephones



GIS In Action

• With A Critical Mass of Registered Data and Fully Aligned Spatial Indicators, The Applications Keep Coming!

