

# Citywide GIS Agenda

- Welcome – Marsha Kaunitz - DoITT GIS
- What is CSCCL and will it affect me? – Colin Reilly DoITT GIS
- CIO GIS Sub-Committee – Marsha Kaunitz & Martin Brenner - DPRR
- GIS Services & Tools – Tim Keane, DoITT GIS
- Health Department Portal – Chris Goranson - DOHMH, Doug Williamson - DoITT GIS
- ESRI – Dave LaShell

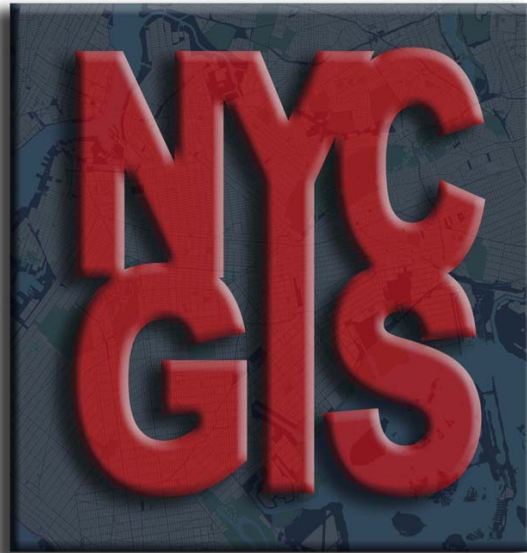
# City Street Centerline

**Colin Reilly, DoITT Citywide GIS**

Develop a single official repository of streets, addresses and places that is timely, accurate and distributable and a data maintenance system to support public safety dispatching and call taking as well as existing City usage of such data.

# **CIO GIS Sub-Committee**

**Marsha Kaunitz (DoITT)/Martin Brenner (DPR) Co-Chairs**



# Committee Members

- Peter Carlo – DPR
- Tim Keane - DoITT
- Rudy Lopez - DCP
- James McConnell - OEM
- Lloyd Nakao - HPD
- Steven Pollackov - FDNY
- John Speroni - DOT
- Anna Stern - HRA
- Doug Williamson - DoITT

# Purpose

- Foster the sharing and use of geospatial data and GIS applications. GIS data includes all data associated with a location. The power of GIS lies in its ability to integrate and analyze data from multiple sources based upon location or place.

# What is a GIS?

A Method of :

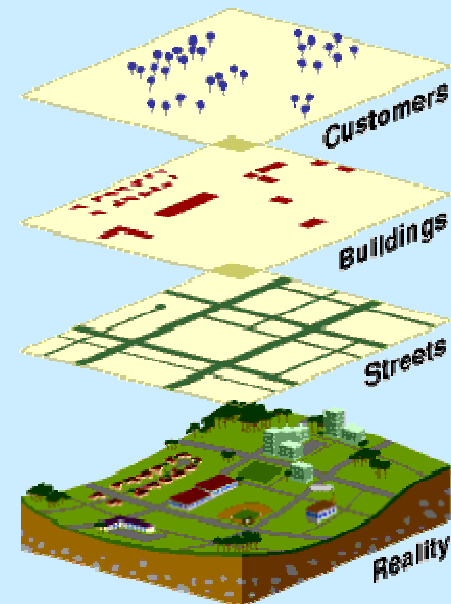
## Organizing Data

- Geographic
- Descriptive
- Image

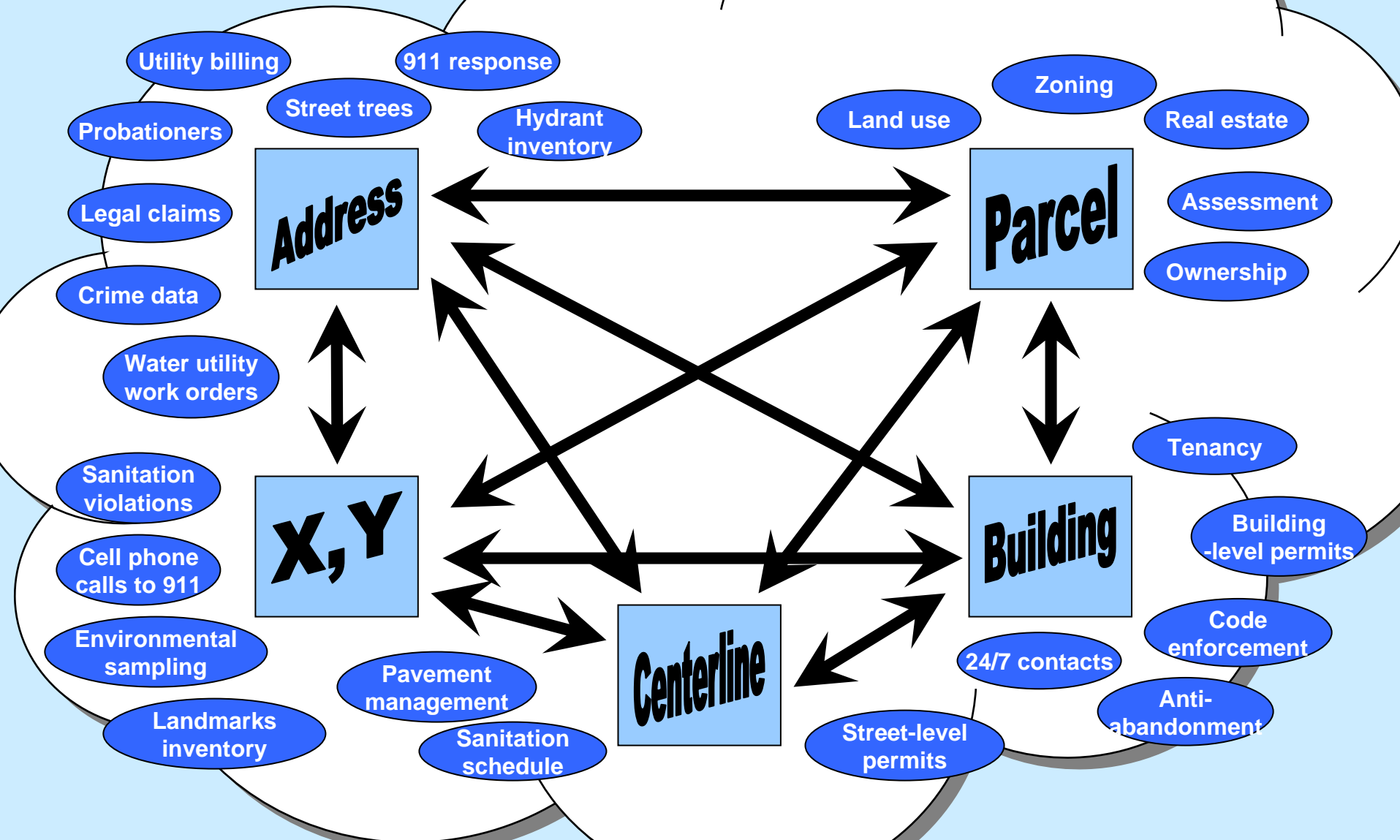
## Distributing Data

## Analyzing Data

## Visualizing Data



# Interrelationships and Uses of Spatial Data



**Location is the connection between disparate information systems !**

# Tasks

- Data
  - Explore current state, including data quality and data gaps
  - Promote adoption of standards
  - Create metadata services
- Services
  - Create protocols for sharing current and historical data
  - Define security processes and protocols
  - Create processes for moving data between participating agencies
  - Create a catalog of services
  - Create enterprise level Geospatial exchange
  - Leverage existing software and infrastructure investments
- Professional Development
  - Outreach, education and training
  - Explore GIS staffing requirements
  - Create GIS City Civil Service titles

# GIS Data

- **Inventory and analyze spatial data currently available**
- **Identify data gaps**
  - Data not geocoded
  - Data sets that are incomplete
  - Data that does not exist
- **Acquire or create missing datasets**
- **Review and adopt industry standards:**
  - Metadata
  - accuracy
  - addressing
  - Format
- **Require metadata for all datasets**
  - to preserve the data history and assess the age and character of data holdings.
- **Support implementation of standards**
  - to facilitate the development, sharing and use of geospatial data.

# Services

- **Create Inventory of Existing Services**
- **Determine the need for new services**
- **Secure resources and funding to develop and enhance services**
- **Leverage existing software and infrastructure investments**
- **Determine the need for additional software and infrastructure**
- **Assess funding needs for software and infrastructure**
- **Create processes for moving data between participating agencies**
- **Review industry standards for security processes and protocols**
- **Adopt citywide standards for security processes and protocols**
- **Assess funding needs for creation of enterprise level Geospatial exchange along with related services**

# Professional Development

- **Conduct survey of GIS users by agency**
- **Present the findings of CIO committee to citywide GIS users**
- **Promote the value of GIS to Deputy Mayors, Agency Commissioners and Senior executives**
- **Procure citywide contract for ESRI training**
- **Make recommendations for agency GIS staffing requirements**
- **Propose GIS civil service title descriptions to DCAS**

# Next Steps

- **Continue GIS CIO Sub-Committee to:**
  - **Form a project team to address GIS issues and engage agency GIS community**
  - **Define short-term and long-term projects**
  - **Develop project plans and methodology**
  - **Request necessary support, funding and resources**
  - **Implement projects**

# GIS Services & Tools

Tim Keane, DoITT GIS

- **USE STANDARD APIs and TECHNOLOGIES**
  - J2EE
  - WFS, WMS
  - SOAP
  - JSON
  - AJAX
- **USE FRAMEWORKS**
  - Spring
  - Hibernate
  - Dojo
- **MODULAR DESIGN**
  - Allows for plug-and-play data
  - Allows for on-the-fly data
  - Facilitates refactoring
- **TESTING**
  - Enables flexible design and development by making refactoring easy
  - Provides a standard way of communicating functionality to developers
  - JUnit
  - D.O.H.
  - JsUnit

# Development and Hosting for City Agencies

Chris Goranson, DOHMH  
Doug Williamson, DoITT GIS

# BACKGROUND

- DOHMH: 6,000 staff, 60 locations, 10 Divisions encompassing approximately 52 Bureaus or Programs
- 16 Public Clinics. Different services, each with different hours set by the individual programs. All subject to change.
- IT Department – internal web & application development
- Communications Department – manages public information & the public website
- NYC DOITT - oversees the City's use of existing & emerging technologies and its delivery of services to the public. They already have a public web mapping interface to deliver city government information.
- DOHMH GIS Center – the only people that care?

# How is GIS Used at DOHMH?

- Basic Mapping Products
- Location-based Information
- Investigating Patterns of Disease
- Environmental Health Investigations / Sampling
- Integrating Different Data Sets
- Identifying spatial correlations already existing in data, in-depth spatial analysis

# With the GIS Health Portal You Can...

Currently...

- Locate services

In the future...

- Map Quantities (doctors per ZIP Code)
- Map Densities (At-risk populations)
- Map Change (Obesity rates by UHF, per year)



# DOHMH - Facility Locator

SEARCH RESULTS:  
**10038 | Mental Health**



**#1 Service Provider:**

COMMUNITY ACCESS, INC. - Cooper Club

**Street Address:**  
156 William Street

**Service Type:**  
Mental Health

[MORE INFORMATION](#)

**Hours of Operation:**  
Call for hours.

**Phone:**  
(212) 780-9008

**Service Description:**  
Psychosocial Club

[PRINT MAP & FACILITY INFO](#)

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**Map Key:**

- DOHMH Facilities

**Boundaries:**

- Show UHF Boundaries
- Show Zip Code Boundaries

**Transportation:**

- Subways
- Bus Routes
- None

**Locate Facilities by:**  
*Select a tab to enter or modify search parameters*

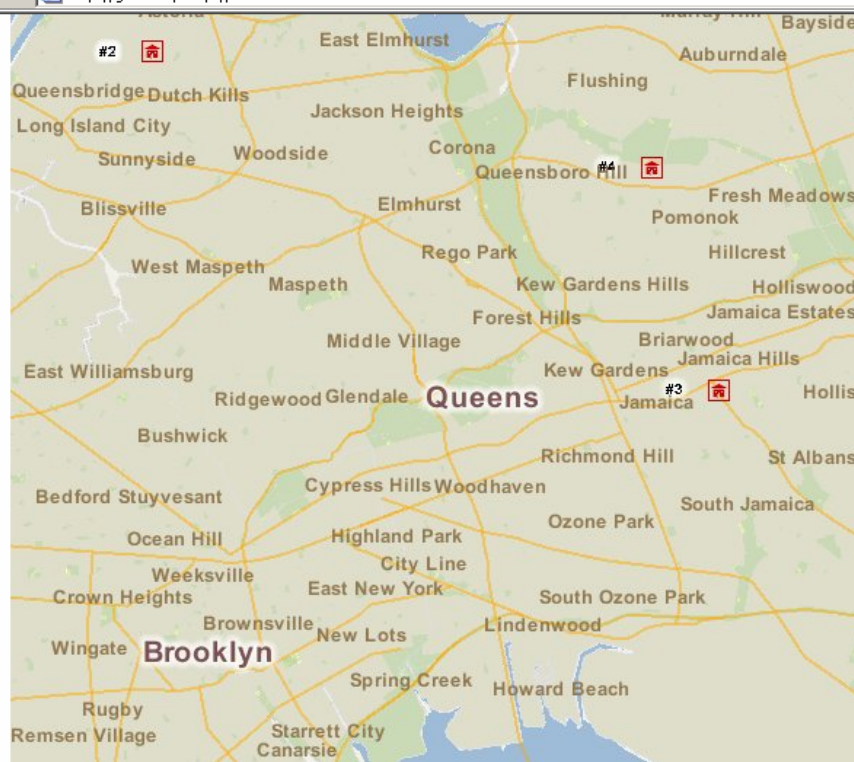
Zip Code **Address** Borough

Zip Code:

Service Type:

[PRINT MAP AND ALL VISIBLE FACILITIES](#)

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**1 Service Provider:** Astoria Health Center  
**Street Address:** 12-26 31st Av  
**Service Type:** Maternity  
**More Info:** <http://www.nyc.gov/html/doh/html/ms/ms1.shtml>  
**Hours of Operation:** Monday, Wednesday, Friday 9:00 AM ? 4:30 PM. <BR>  
Tuesday 12:30 PM ? 4:30 PM  
**Phone:** (718) 626-6735  
**Service Description:** Public Health Center offering MIC Women's Health Services

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**2 Service Provider:** Astoria Health Center  
**Street Address:** 12-26 31st Av  
**Service Type:** Maternity  
**More Info:** <http://www.nyc.gov/html/doh/html/ms/ms1.shtml>  
**Hours of Operation:** Monday, Wednesday, Friday 9:00 AM ? 4:30 PM. <BR>  
Tuesday 12:30 PM ? 4:30 PM

# DEVELOPMENT CHALLENGES

- Consensus on Data Model
- Consensus on Design
- Coordination of Software/Hardware upgrades in multiple, complex environments

# Contact

- For more information contact:
  - Marsha Kaunitz (212) 232-1114  
[mkaunitz@doitt.nyc.gov](mailto:mkaunitz@doitt.nyc.gov)
- For data or map requests email  
[spatialdatarequest@doitt.nyc.gov](mailto:spatialdatarequest@doitt.nyc.gov)
- Sign up to be invited to the GIS User Group Meeting

# **How GIS Helps Field Workers Collect and Update Critical Agency Information**

**Dave LaShell, ESRI**