

EVENT WIFI
Network: **Civic Hall**
Password: **empathy118**

NYC OpenData

Learning about NYC: Environment & Sustainability

May 1, 2018

6:30 - 6:40pm - Welcome remarks

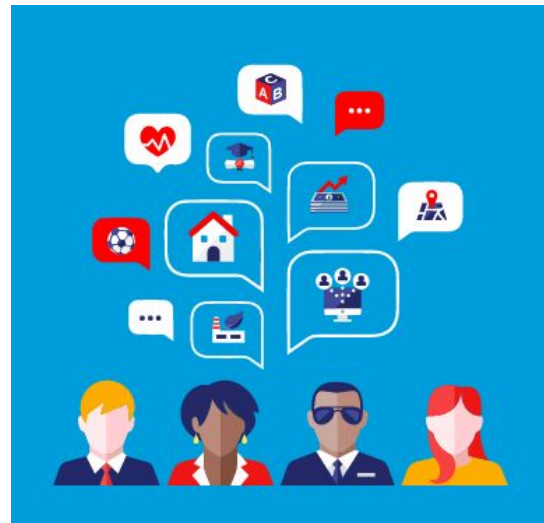
6:40 - 7:30pm

PBNYC & Charter Revision announcements
Open Data Team announcements
Mayor's Office of Data Analytics
NYC Parks
NYC Department of Environmental Protection
NYC Mayor's Office of Sustainability

7:30 - 8:00pm - Panel discussion

8:00 - 8:10 - Q&A

8:10-8:30pm - Networking



**#opendata #nyc @CivicHall @ESRI
#LearnAboutNYC**

**@NYCParks @NYClimate @NYCWater
@UrbanSystemLab @nature_org
@forestservice @PBProject @NYCCharter**

EVENT WIFI

Network: **Civic Hall**

Password: **empathy118**

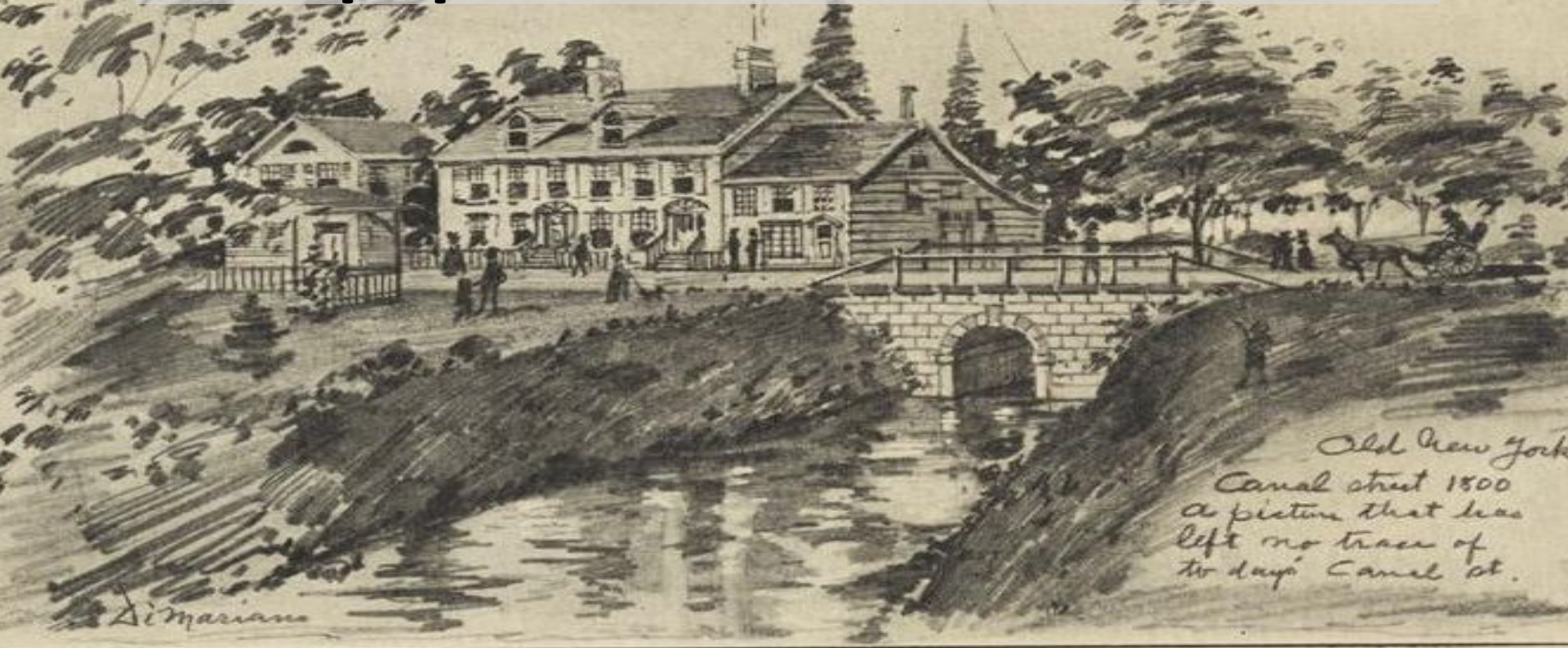
Code of Conduct: <http://bit.ly/chcode2018>

Accessible Restrooms: located to the right of the stage (facing the stage)

Emergency Exits: 2 exits in the back (next to elevator and corner window)

1 exit in the front (next to phone booths)

In the 1800s only 3% of the world's population lived in cities.



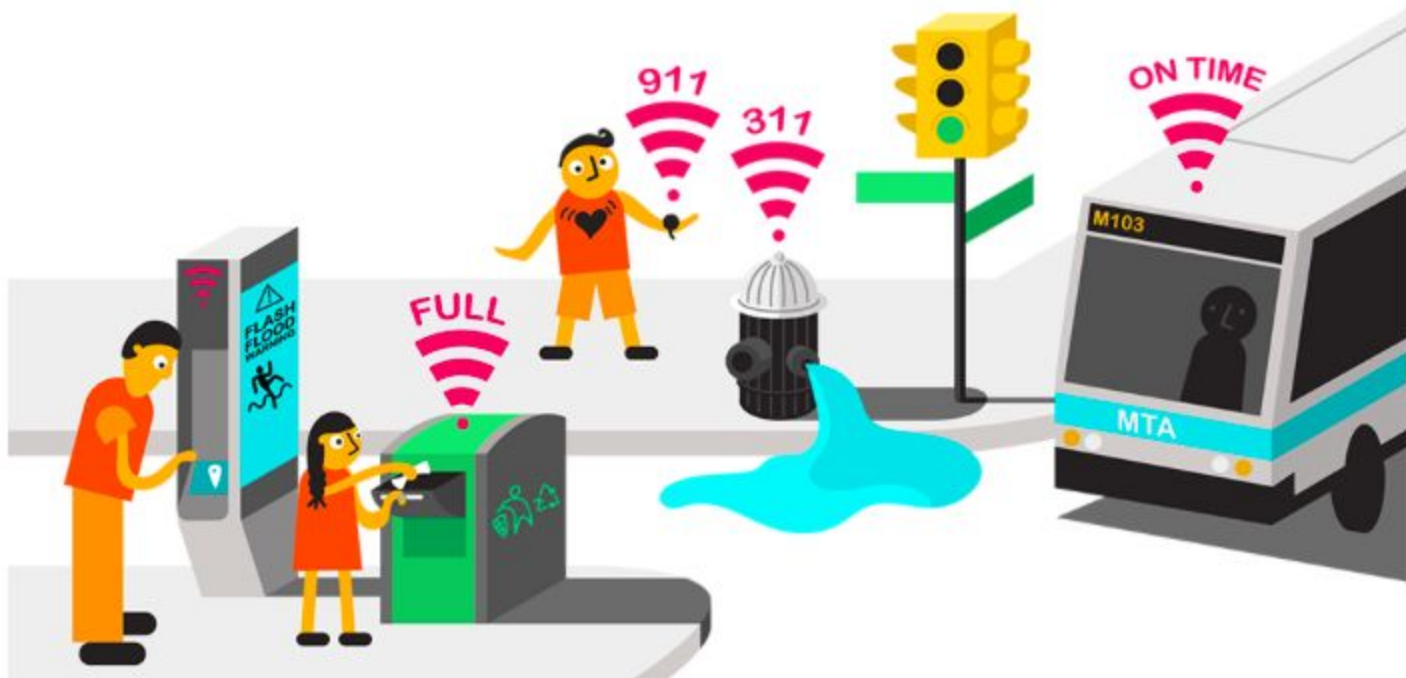
*Old New York
Canal street 1800
a picture that has
left no trace of
to day's Canal st.*



**By 2030 five billion humans will
live in cities.**

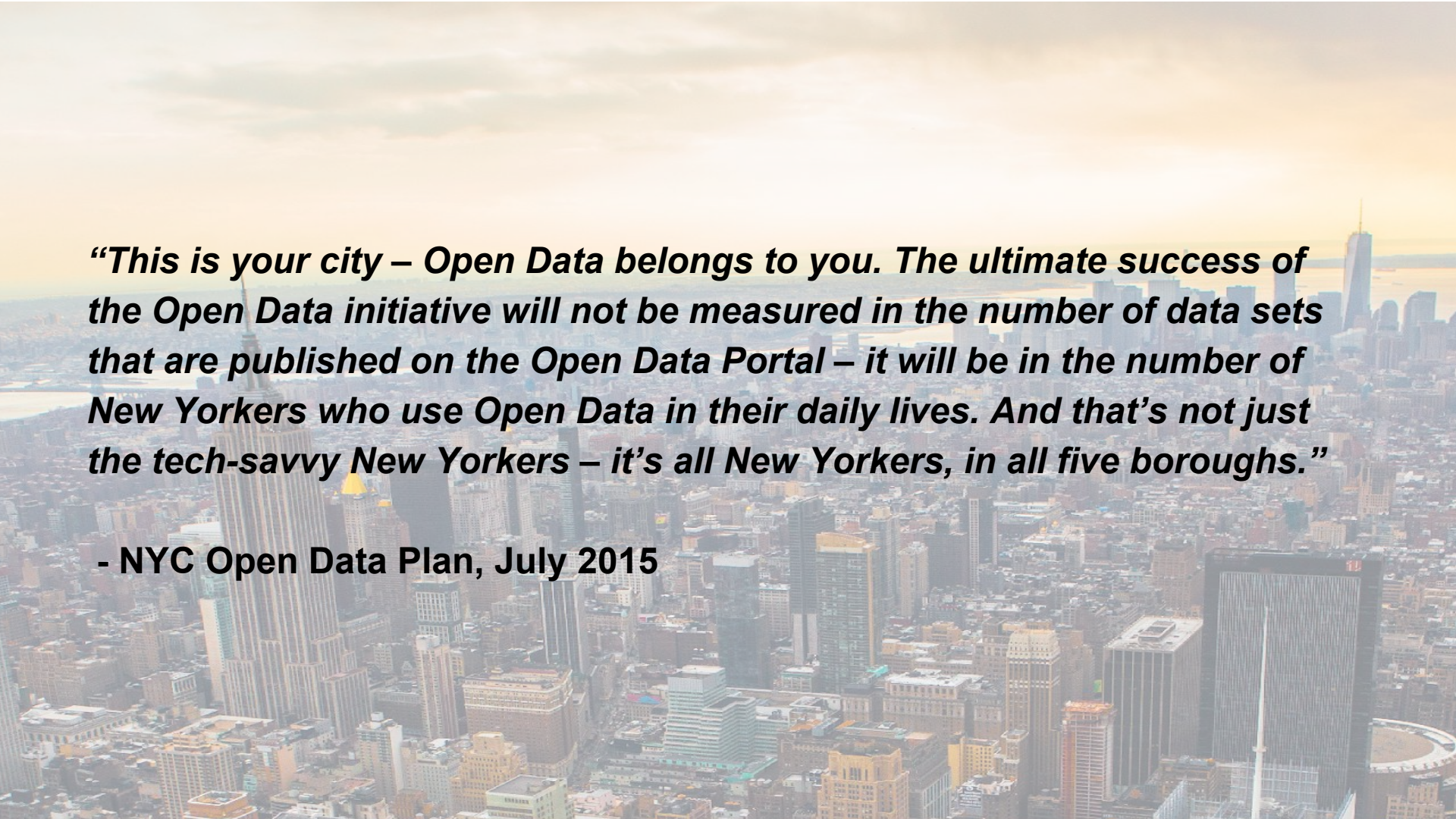
8,500,000 New Yorkers







**publicly
available data
structured in a way
that enables the data
to be fully
discoverable
and usable by
end users**

An aerial photograph of New York City, showing a dense urban landscape with numerous skyscrapers and buildings. The sky is a mix of orange, yellow, and grey, suggesting a sunset or sunrise. The text is overlaid on the upper half of the image.

“This is your city – Open Data belongs to you. The ultimate success of the Open Data initiative will not be measured in the number of data sets that are published on the Open Data Portal – it will be in the number of New Yorkers who use Open Data in their daily lives. And that’s not just the tech-savvy New Yorkers – it’s all New Yorkers, in all five boroughs.”

- NYC Open Data Plan, July 2015

Open Data for All New Yorkers

Where can you find public Wi-Fi in your neighborhood?
What kind of tree is in front of your office? Learn about
where you live, work, eat, shop and play using NYC Open
Data.

Search Open Data for things like 311, Noise, Crime



www.nyc.gov/opendata

[Translate »](#)

Search

Authority

Official

Community

Categories

Business

City Government

Education

Environment

Health

[Show All...](#)

View Types

Calendars

Charts

Data Lens pages

Datasets

External Datasets

1836 Results filtered by [Authority > Official](#) [Clear All](#)

Sort by [Recently Updated](#)

Street Hail Livery (SHL) Permits

Transportation

Dataset

This is a list of NYC TLC authorized Street Hail Livery Permits. This list is accurate to the date and time represented in the Last Date Updated and Last Time Updated fields. For inquiries about the contents of this dataset, please email I...

[More](#)

Tags [green taxi](#), [green cab](#), [shl](#), [street hail livery](#)
[API Docs](#)

Updated
October 31, 2017
Views
50,034

OEM Emergency Notifications

Public Safety

Dataset

Messages sent with information about emergency events and important City services

Tags [oem](#), [emergency](#), [notifications](#)
[API Docs](#)

Updated
October 31, 2017
Views
2,020

Construction Demoliton Registrants

City Government

Dataset

"The following companies have been issued registrations by the Business Integrity Commission authorizing them to collect, and remove only waste materials resulting from building demolition, construction, alteration or

[More](#)

Tags [cl2](#), [class 2](#), [construction and demolition](#), [c&d](#), [construction](#), and 4 more

[API Docs](#)

Updated
October 31, 2017
Views
1,520

Self Hauler Registrants

City Government

Dataset

"The following companies have been issued Class 1 self-hauler registrations by the Business Integrity Commission. They are authorized to remove, collect or dispose of trade waste that is generated in the course of operation

Updated
October 31, 2017
Views

Street Hail Livery (SHL) Permits

Transportation

Explore Data

Download

API

Share

...

This is a list of NYC TLC authorized Street Hail Livery Permits. This list is accurate to the date and time represented in the Last Date Updated and Last Time Updated fields. For inquiries about the contents of this dataset, please email licensinginquiries@tlc.nyc.gov. Reason Code: G – Good Standing, A – Problem with Permit, B – Problem with Base and C – Problem with Vehicle.

Updated
October 31, 2017

Data Provided by
Taxi and Limousine Commission (TLC)

About this Dataset

Updated
October 31, 2017

Data Last Updated
October 31, 2017

Metadata Last Updated
October 31, 2017

Date Created
October 29, 2014

Views
50K

Downloads

5,865

Data Provided by
Taxi and Limousine Commission
(TLC)

Dataset
Owner
NYC
OpenData

Update

Automation	Yes
Update Frequency	Daily

Dataset Information

Agency	Taxi and Limousine Commission (TLC)
--------	-------------------------------------

Attachments

[MDTLCSreetHailLiveryPermits.xlsx](#)

Topics

Category	Transportation
Tags	green taxi , green cab , shl , street hail livery

[Show More](#)



Street Hail Livery (SHL) Permits

This is a list of NYC TLC authorized Street Hail Livery Permits. This list is accurate to the date and time represented in the Last Date Updated and Last Time Updated fields. For inquiries about the contents of this dataset, please email licensinginquiries@tlc.nyc.gov. Reason

[Manage](#)
[More Views](#)
[Filter](#)
[Visualize](#)
[Export](#)
[Discuss](#)
[Embed](#)
[About](#)

Active	Permit License Number	Name	Expiration Date	Vehicle License Number	DMV License Plate Number	Vehicle VIN Number	Vehicle Type	Certification Date	Hack Up Date	Vehicle Year
1	YES	AA144	MARTINEZ, LORETO	06/28/2019	5164127	T461389C	1LNHM81V36Y611856	05/13/2016	10/28/2013	1970
2	YES	AA145	PENA, RAFAEL, E	06/28/2019	5468203	T629860C	1GNDV23147D106349	10/02/2013	10/28/2013	1970
3	YES	AA146	PAULINO, JUAN	07/01/2019	5110717	T448023C	1FAHP2D96DG162401	01/06/2017	01/10/2017	1970
4	YES	AA148	GUTIERREZ, FRANCISCO	07/01/2019	5496820	T636715C	4T1BF3EKXBU593943	09/20/2013	10/08/2013	1970
5	YES	AA150	MUNOZ, BLANCA, G	07/01/2019	5233940	T681696C	3N1CN7AP5EL809266	08/28/2015	09/03/2015	1970
6	YES	AA151	FELIZ, JULIO	07/01/2019	5315322	T523011C	1HGCP268X8A157091	06/20/2017	10/22/2013	1970
7	YES	AA157	MUNOZ, MANUEL, F	07/01/2019	5488233	T634334C	4T1BF1FK7DU669544	09/24/2013	09/25/2013	1970
8	YES	AA158	AHMED, MOHAMED, F	07/02/2019	5414238	T614488C	4T1BF1FK5FU104356	01/05/2017	06/01/2016	1970
9	YES	AA159	GUZMAN, MIGUEL, A	07/02/2019	5220175	T474090C	5TDBKRFH0FS196953	09/08/2015	09/11/2015	1970
10	YES	AA160	SALAS, KLEBER, M	07/02/2019	5379747	T528192C	5TDKK3DC1CS196248	08/27/2013	08/28/2013	1970
11	YES	AA161	YOUSUF, MOHAMMAD	07/02/2019	5309427	T726261C	4T1BF1FK0DU672821	12/23/2016	12/23/2016	1970
12	NO	AA162	CAMPUSANO, RAFAEL	07/02/2016						
13	YES	AA163	VARGAS, FRANKLIN	07/02/2019	5305257	T513612C	2C3KA53G76H351184	09/06/2013	09/23/2013	1970
14	NO	AA165	QUEZADA, GUSTAVO	07/02/2016						
15	NO	AA166	PORTORREAL-DURAN, JOSE, J	07/02/2016						
16	YES	AA167	DISLA-BAUTISTA, R	07/02/2019	5397923	T606679C	4T1BE46K39U812484	10/01/2013	10/30/2013	1970
17	YES	AA170	CRUZ, FRANCISCO, J	07/02/2019	5236149	T485449C	1LNHM81W25Y652373	09/05/2013	10/22/2013	1970
18	YES	AA171	PORRO, LUIS, E	07/02/2019	5399561	T610348C	4T1BF3EK6BU206370	09/25/2013	10/30/2013	1970
19	YES	AA172	MOREL, MARIO, J	07/02/2019	5423700	T613987C	JTDKN3DU8E0388059	07/27/2016	08/06/2015	1970
20	YES	AA173	GUERRERO-CASTILLO, FRANK	07/02/2019	5443137	T727691C	1LNHM82W25Y670807	08/19/2016	10/07/2013	1970
21	YES	AA174	FIGUEROA, JOSE, O	07/02/2019	5115721	T447258C	JTDZN3EU6D3206157	09/19/2013	10/07/2013	1970
22	YES	AA175	POLANCO, JOSE	07/02/2019	5692201	T694940C	4T1BE46K67U669625	04/15/2016	04/22/2016	1970
23	YES	AA176	CABRERA, TOMAS	07/02/2019	F59583	T485463C	4T4BF3EK7AR012080	01/22/2016	01/29/2016	1970
24	YES	AA178	PENA, RAMON, F	07/03/2019	5356723	T522977C	1LNHM82W25Y619537	01/28/2014	10/09/2013	1970



PARTICIPATORY BUDGETING PROJECT

Hadassah Damien

Director of Data and Technology
@HadassahDamien

Bitsy Bentley

Product Manager, myPB
@bitsybot

The Participatory Budgeting Project is a nonprofit organization that creates and supports participatory budgeting (PB) processes that deepen democracy, build stronger communities, and make public budgets more equitable and effective.



Supporting
Human-Centered
Democracy

Problem

**We have
observed that**

**existing digital PB tools that focus on the
deliberative phases of the processes such
as idea collection and voting**

aren't meeting

**community demand for project status
updates and district data to inform ideas**

which is causing

**engagement churn and stalled
institutionalization**

What's the status
of a funded project?

Design the
Process

Brainstorm
Ideas



Develop
Proposals



Cast a
Vote

Fund Winning
Projects



Read in my native language

Share with friend

Share with world

Contact PBNYC/PBP

Sign up for mailing list/updates

Find my district

See the status of my district's participation

Contact my district office

View list of projects with status of each

Scroll through list of all projects

Sort and scroll through list of sorted projects

Filter and scroll through filtered projects

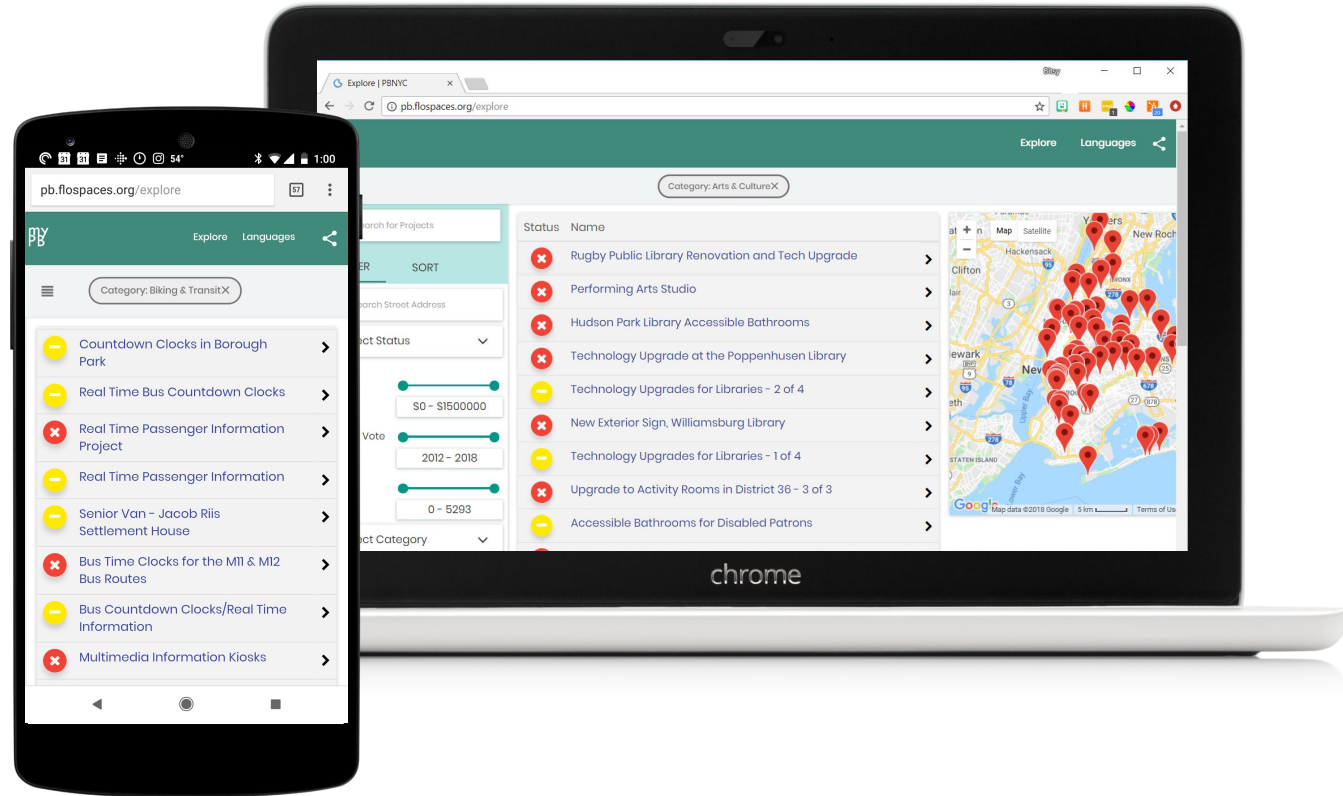
Search all projects

See project details

Description

Location

City Agency



**What are community
needs for new projects?**
August 2018

Brainstorm
Ideas

**What's the status
of a funded project?**
March 2018

**What can we learn
from past processes?**
November 2018

Develop
Proposals

Fund Winning
Projects

Cast a
Vote



Community Data Literacy & Storytelling

Audience

Communit
under re

Objectives

Empower
tell the s

Materials

Participa
WiFi inte

Post-its/

Whitebo

Handout

- Fir
- Tell your story

**Know a Community Organization that
would be interested in a FREE data
literacy workshop?**

Email us!

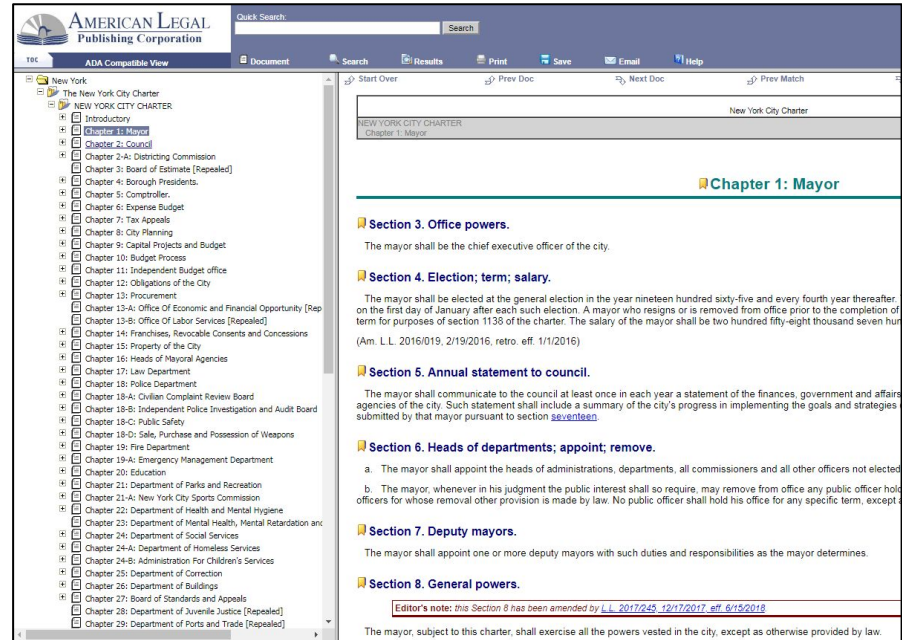
myPB@participatorybudgeting.org

- Create a poster or flyer for your target audience using data from Data for the People

NYC Charter Revision Commission

New York City has a Charter that sets out the structure, powers and responsibilities of our city government.

- The Charter Revision Commission's job is to review the City Charter and consider whether there are ways to improve it.
- The Charter Revision Commission wants to hear how to improve the operations and efficiency of our government. We are also interested in improving City elections and making it easier for the public to vote and engage in civic life.
- The Commission will carefully review all testimony and will use the public's comments to identify potential changes to the Charter. Revisions could ultimately be put on the ballot for the public to vote on in November 2018.



NYC Charter Revision Commission

Every New Yorker has the opportunity to share ideas with the Commission on how to improve the Charter:

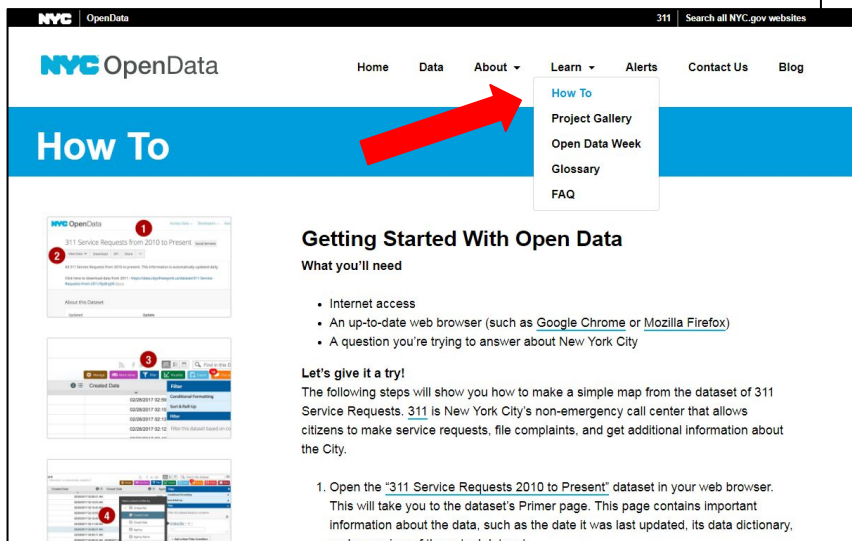
1. **Attend a public hearing:** The Commission is holding public hearings in every borough during the spring and summer of 2018. You can attend a hearing and share oral and/or written testimony.
2. **Drop off written comments:** If you don't want to speak in front of the Commission, you can still attend a hearing and drop off your written comments with the Commission (or you can simply come to observe; Commission meetings are all open to the public).
3. **Submit your comments online:** If you can't attend a hearing, you can submit your comments online at nyc.gov/charter.



@NYCCharter requests@charter.nyc.gov
#212-386-5350

NYC OpenData

January Learning About NYC
event slides now online!



The screenshot shows the NYC OpenData website. The navigation bar includes links for Home, Data, About, Learn, Alerts, Contact Us, and Blog. The 'About' dropdown menu is open, showing links for How To, Project Gallery, Open Data Week, Glossary, and FAQ. A red arrow points to the 'How To' link. Below the navigation bar, the 'How To' section is highlighted. The main content area features a 'Getting Started With Open Data' section with a 'What you'll need' list and a 'Let's give it a try!' section with a numbered list of steps. The steps include opening the '311 Service Requests 2010 to Present' dataset, navigating to the dataset's Primer page, and reviewing the actual dataset.

Getting Started With Open Data

What you'll need

- Internet access
- An up-to-date web browser (such as Google Chrome or Mozilla Firefox)
- A question you're trying to answer about New York City

Let's give it a try!

The following steps will show you how to make a simple map from the dataset of 311 Service Requests. 311 is New York City's non-emergency call center that allows citizens to make service requests, file complaints, and get additional information about the City.

1. Open the "311 Service Requests 2010 to Present" dataset in your web browser. This will take you to the dataset's Primer page. This page contains important information about the data, such as the date it was last updated, its data dictionary, and a review of the actual dataset.

Guidelines for the division of large datasets

In general, if you experience difficulty manipulating and downloading larger datasets, you should restrict the number of records that appear using the "filter" function. In this panel, users may "Add a New Filter Condition" and select attribute values that are exact matches with the "is" condition, or a fall within a range of values with the "contains" condition. A narrower selection of results will require less computing power to view and manipulate data, and will create smaller data files that are quicker to download onto a user's local device. For more information on filtering tabular datasets, including video tutorials, see the ["Filtering Datasets" topic](#) in the Socrata Knowledge Base.

Tips & Tricks from the *Learning about NYC Series*:

Learning about NYC: Buildings

- [Presentation](#)
- [Recording of event](#)

NYC OpenData

NYC OpenData

ABOUT

EVENTS

PARTNERS

WELCOME TO
NYC OPEN DATA WEEK
MARCH 3-10 2018

#nyc #opendata

metr

News President Trump Entertainment Lifestyle Things to Do Body & Mind Sports Games

NEW YORK

NYC launches open data week to bring more knowledge to New Yorkers

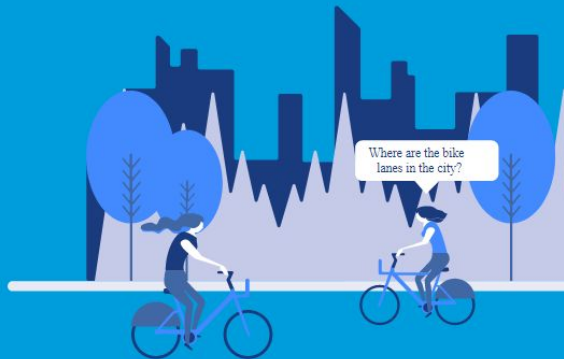
Mayor Bill de Blasio announced Open Data Week from March 3 to 10, a "week-long celebration to raise awareness of the city's public data."

By Kristin Toussaint Published : March 01, 2018 | Updated : March 02, 2018



See how creators are answering everyday questions with open data

Here you can find examples of open data in action and gain inspiration for projects of your own.



Welcome to the NYC Open Data Project Gallery!

NYC Open Data powers companies, universities, and nonprofits in New York and around the world. See how it is used by local activists to advocate for change, by entrepreneurs to develop products, and by teachers to teach analysis skills the classroom.

From March 3 - May 1st we're running a contest: if you submit a project during this timeframe, and opt-in upon submission, you'll be in the running to win the opportunity to be featured on the site and at an Open Data event later this year! Read the contest rules [here](#).

[Submit Project](#)

Project submissions due May 1st by midnight!



**Information
Technology &
Telecommunications**

Understanding the Users of Open Data

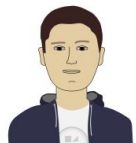
Research Findings

REBOOT
reboot.org

NYC OpenData
nyc.gov/opendata

Meet the users of NYC's open data.

CURRENT
OPEN DATA USERS



KENT
Meticulous
Mapper



ROMAN
Local
Liason



JUNE
Influential
Interpreter



MARCUS
Equipped
Explorer



SARAH
Busy
Bystander



ALANA
Community
Champion

POTENTIAL
OPEN DATA USERS

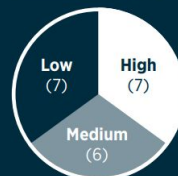
Final Respondent Profiles

Reboot prioritized respondents with diverse and representative backgrounds. We spoke with:

- Members of the civic tech community including startup owners, platform developers, and urban planners.
- A wide range of individuals within the non-profit sector. Organization specialty spanned:

education,
city budgeting,
civil rights.

DATA SKILL LEVEL:



LOCATION:

5
Boroughs

USER CATEGORY:

Communities Organizing



Individuals Problem-Solving



Businesses Operating



Professionals Investigating



Methodology | 14



Open Data User Journey

Samuel Engelberg - Mayor's Office of Data Analytics



- ★ Overview
- ★ Key Findings
- ★ User Breakdown
 - 1) Explorers
 - 2) Drivers
 - 3) Test Takers
 - 4) Fact Checkers
- ★ Key Takeaways
- ★ Next Steps





We're looking to answer the following questions:

- Who are Open Data users?
- What **sources** are referring them to our site?
- What is the **first page** they look at?
- And where do they **go next**?



Terminology

 **Google Analytics** is web analytics service that tracks and reports website traffic

 **Session** is a group of user interactions with a website that take place in a given timeframe

Data Catalog

🔍 Search

Categories ▾

Business
City Government
Education
Environment
Health

Show All...

View Types ▾

Calendars
Charts
Data Lens pages
Datasets
External Datasets
Files and Documents
Interactive Documents
Interactive Dashboards

2030 Results

Sort by Most Accessed ▾

DOB Job Application Filings

Housing & Development

Dataset

A list of job applications filed for a particular day and associated data. Prior weekly and monthly reports are archived at DOB and are not available on NYC OpenData...

Updated
April 19, 2018
Views
2,160,827

Tags buildings, job, dob

API Docs

New Driver Application Status

Transportation

Dataset

THIS DATASET IS UPDATED SEVERAL TIMES PER DAY. TLC Driver application status check for applicants who had applied for a new TLC driver's license. For more information and to upload missing requirements, visit www.nyc.gov...

Updated
April 20, 2018
Views
1,488,126

Tags exam, for-hire, medallion, fhv, new application, and 20 more

API Docs

For Hire Vehicles (FHV) - Active

Transportation

Dataset

TLC authorized For-Hire vehicles that are active. This list is accurate to the date and time represented in the Last Date Updated and Last Time Updated fields. For inquiries about the contents of this dataset, please email licen...@nyc.gov...

Updated
April 19, 2018
Views
594,420

Tags for-hire-vehicles, drivers, taxi, inactive, active, and 3 more

API Docs

Key Findings

1

2M Sessions
(March '17- March '18)



2

35 % Mobile Users

62% Desktop

3% Tablet



3

Top Referral Sources

1) Google

2) Nyc.gov

3) Direct



4

75% Drop-off/ Exit after
viewing 1 page

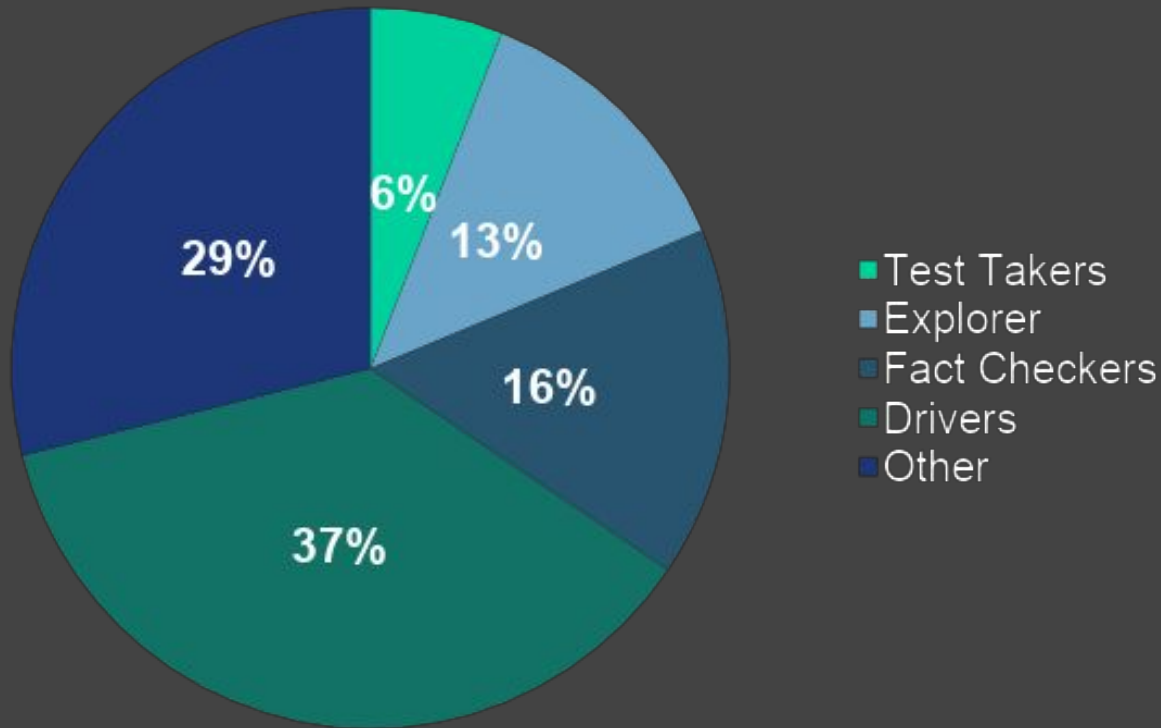




Understanding our Users

Breakdown

User Groups



Sessions from March '17- March'18

*Google Analytics Behaviour Flow Report



Fact Checkers

01

NYC Residents visiting the site, directly digging into the data

- Highly **unique** data sets
- Conducting **research**, identifying **trends** in their area, or working on a specific **case/project**
- Coming directly to a page finding what they need and then leaving it.



Fact Checker

Assets by Sessions

NYPD Motor Vehicle Collisions

311 Service Requests from 2010 to present

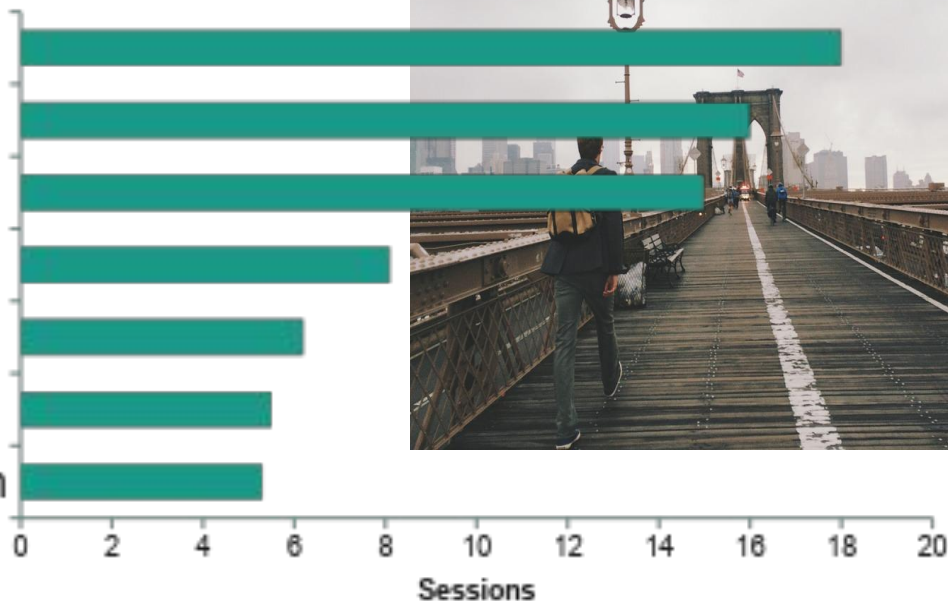
Film Permits

Subway Entrances

OATH Hearings Division Case Status

Citywide Payroll Data Fiscal Year

Average Salaries In Department of Correction

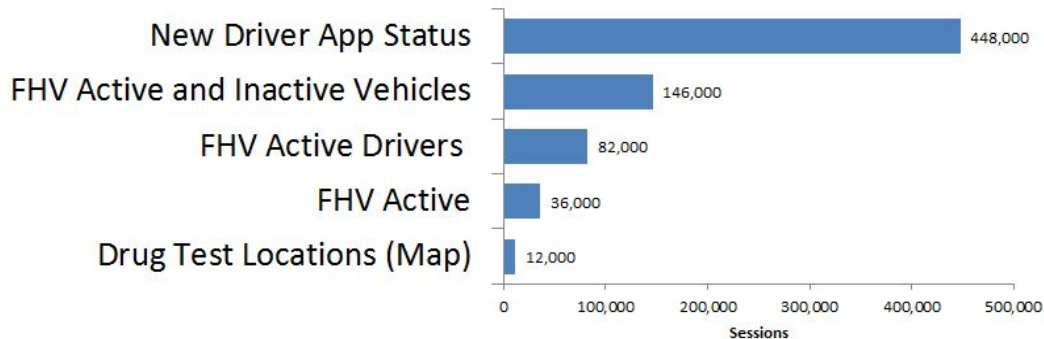




Drivers

02

- Refer to open data to check up on:
 - **Licences, Vehicles, and Applications**
- Exploring assets that are provided by the **TLC**
- Have been publishing on open data before the law was in place



61

*Datasets in the Catalog
are provided by the
TLC*



Test Takers

03

Leverage Open Data to *check exam results*

- Unions & Supervisors at other Agencies
- Specifically pertaining to civil service test results
 - This data can be found in assets such as:
 - Civil List, Civil Service Titles, City Record Online, and Civil Service List Active
- Department of Citywide Administrative Services (DCAS)
 - Responsible for publishing this data and managing exams





Explorers

04

Exploring the site content and data catalog

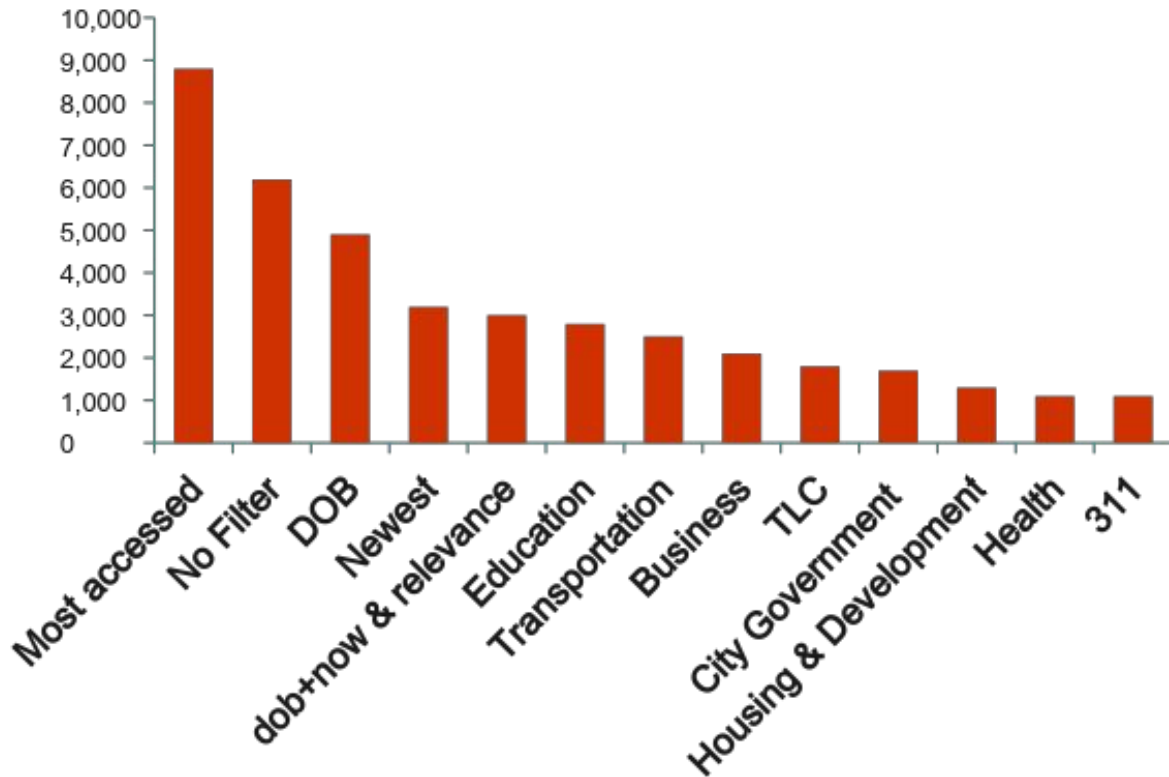
- **Home/ Info pages**
 - Broken down by: home, login, how to, management report and dashboard
- **Data Catalog Browsing**
 - Diverse set of filters, searches and over 60% continuing to another page
 - Most popular browsing queries *see next slide





Data Catalog Browsing

Most common
search queries
& *filter options*



733k

Drivers

Referred from:

- 1) Google
- 2) nyc.gov
- 3) direct



7-35%

continue navigating
the site

314k

Fact Checkers

Referred from:

- 1) Google
- 2) nyc.gov
- 3) direct



15%

continue navigating
the site

256k

Explorers

Referred from:

- 1) direct
- 2) Google
- 3) nyc.gov



28%

continue navigating
the site

119k

Test Takers

N.A.

Word of Mouth



42%

continue navigating
the site

Snow Priority Designation - Department of Sanitation (DSNY)



NYC OpenData

Board of Standards and Appeals (BSA) Decisions - Board of Standards and Appeals (BSA)

The screenshot shows the official website of the NYC Board of Standards and Appeals. The header features the NYC logo and the text "Board of Standards and Appeals" in a serif font. To the right of the header are links for "বাংলা" (Bangla), "Translate", and "Text-Size". Below the header is a navigation bar with links for "Home", "About", "Public Hearings", "Applications", and "Contact BSA", along with a search bar. The main content area features a large banner image of the New York City skyline at sunset. Overlaid on the right side of the banner is a text box with the heading "READ MORE" and the text: "The New York City Board of Standards and Appeals was established in 1916 along with the creation of the City's first zoning ordinance." Below the banner, the text "NYC Board of Standards and Appeals" is displayed with a right-pointing arrow. The footer is divided into two columns. The left column is titled "Announcements" and contains a blue box with the "NYC OpenData" logo and text stating that the Board is pleased to announce its participation in NYC Open Data, providing a dataset of decisions from 1998 to the present, which can be viewed through the NYC Open Data portal. The right column is titled "Resources" and lists links to the "Center for New York City Law" and the "NYC Department of Transportation".

NYC Board of Standards and Appeals

Announcements

The New York City Board of Standards and Appeals is pleased to announce its participation in NYC Open Data. A dataset of decisions of applications filed since January 1, 1998 and subsequently decided by the Board can be found on NYC Open Data. A map of all "Variances" and "Special Permits" from 1998 through the present can also be viewed through the [NYC Open Data portal](#).

Resources

[Center for New York City Law](#)

[NYC Department of Transportation](#)

[NYC Department of City Planning](#)

NYC OpenData

DOT Newsrack Inspections - Department of Transportation (DOT)



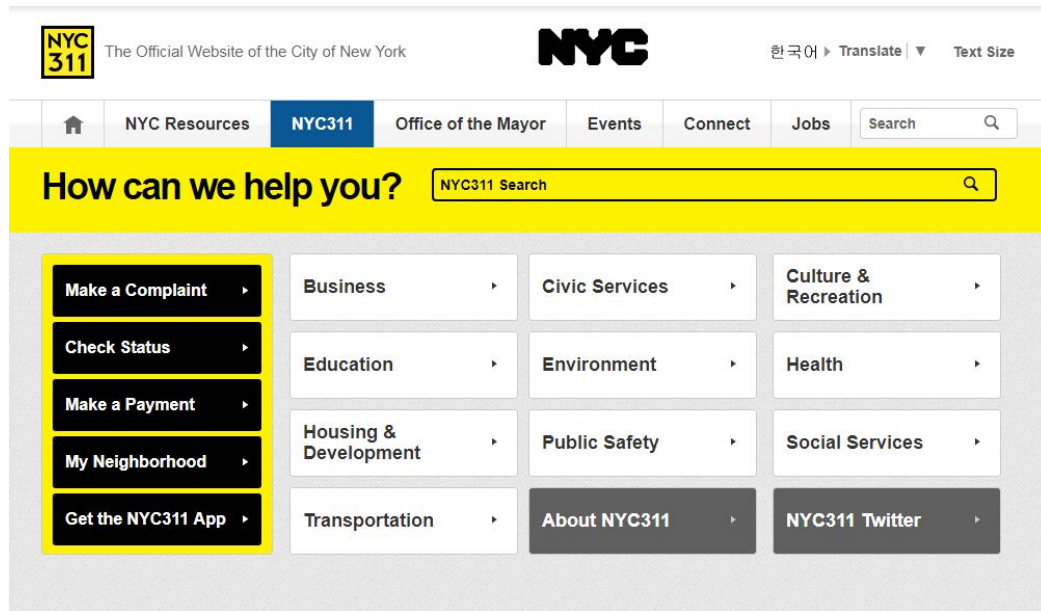
NYC OpenData

**TLC Taxi Trip Data
(Yellow/SHL for 2017)**
- Taxi & Limousine
Commission (TLC)



NYC OpenData

311 Service Requests (update!) - 311 Team at the Mayor's Office of Operations



Sustainability: An Introduction

“Meeting the needs of the present generation without compromising the ability of future generations to meet their needs.”

(Brundtland, 1987)

“Sustainability is giving future generations as many opportunities as, if not more than, we have had ourselves.”

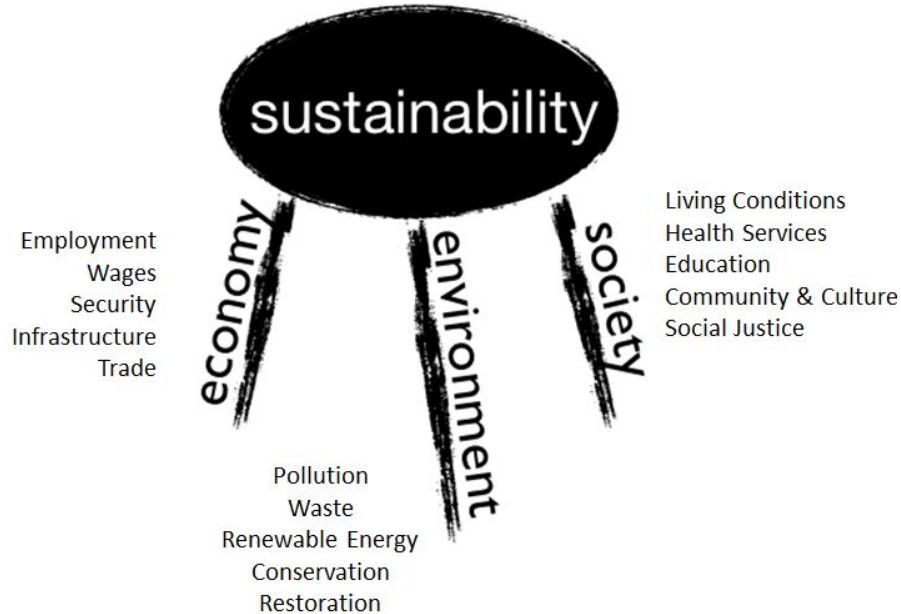
(Serageldin, 2006)

“A sustainable world is one where human needs are met equitably without harm to the environment or sacrificing the ability of future generations to meet their own needs.”

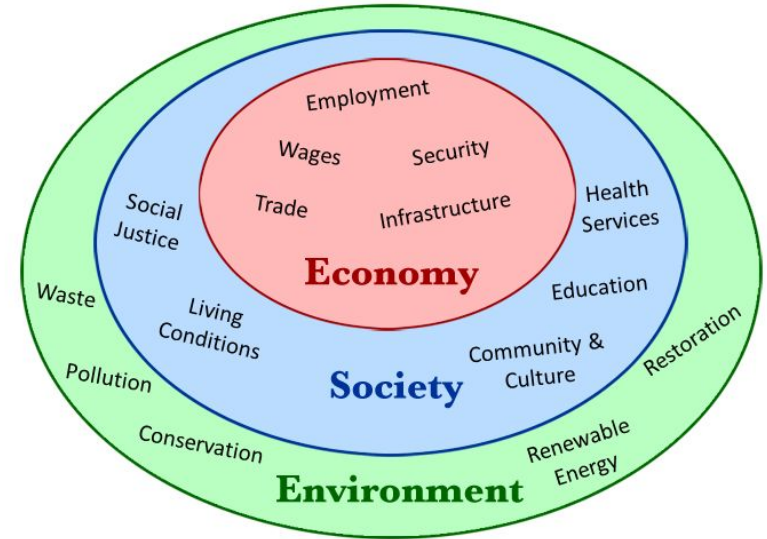
(National Science Foundation)

How to think about Sustainability?

Three-Legged Stool Model



Nested Model



Sustainability in NYC

Leg – Topic – Vision: Society – Education – Workforce Development
Initiative: Ensure that all New York City students have access to an education that enables them to build 21st century skills through real-world, work-based learning experiences
Agency: DOE, CUNY
Role: Increase postsecondary attainment by promoting high-school graduation, college matriculation and degree completion.
Open Data: SAT Scores, School Attendance, School Quality Reports

Leg – Topic – Vision: Environment – Waste – Zero Waste
Initiative: Expand the NYC Organics program to serve all New Yorkers by the end of 2018.
Agency: DSNY
Role: Develop additional organics sorting and processing capacity in New York City and the region.
Open Data: DSNY Monthly Tonnages, DCA Business Permits, DOHMH Restaurant Inspections



Leg – Topic – Vision: Economy – Infrastructure – Transportation
Initiative: Expand the City's bike network.
Agency: DOT
Role: Continue to expand the City's bike lane network, especially to neighborhoods with limited bike infrastructure.
Open Data: DOT Bike Routes, DOT Traffic speed



Parks

NYC Parks Open Data

Caring for our Urban Forest

Jacqueline Lu
Director of Data Analytics
Innovation & Performance Management

Vision:
To create and sustain
thriving parks and
public spaces.



NYC Parks



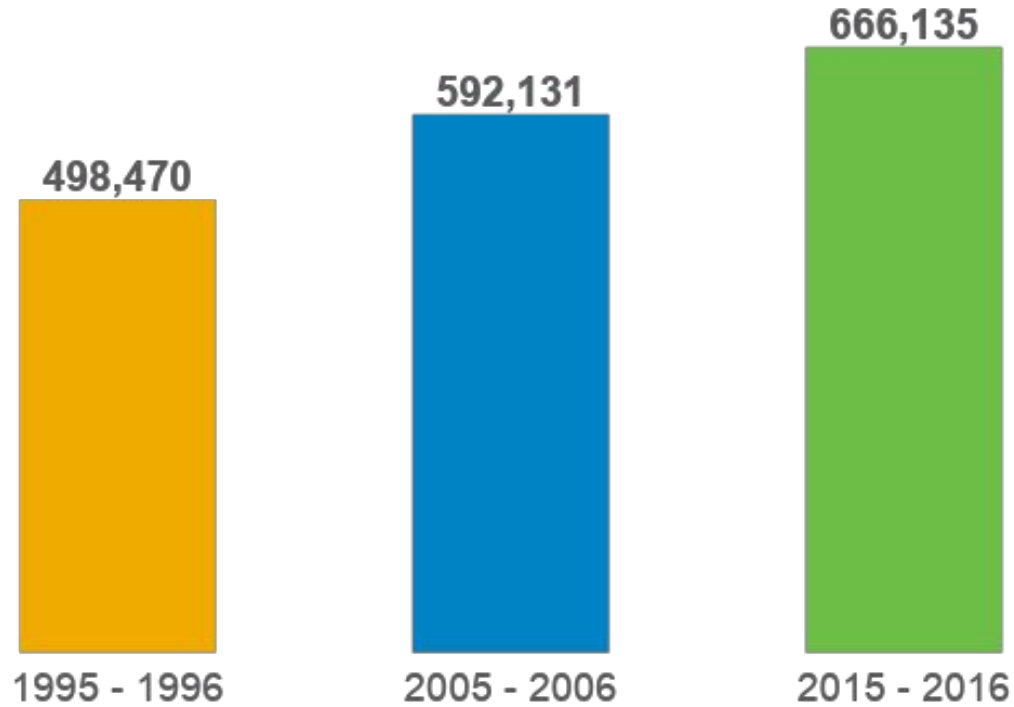




A photograph of a tree-lined street in New York City. The scene shows a wide sidewalk on the left with parked cars, a row of mature trees in the center, and a road with traffic on the right. A street sign for 'NEW YORK' is visible on the right. The text 'More than 680,000 trees shade New York City's streets, sidewalks, and homes. They make our city cooler, our air cleaner, and our neighborhoods more beautiful.' is overlaid in the center.

More than 680,000 trees shade New York City's streets, sidewalks, and homes. They make our city cooler, our air cleaner, and our neighborhoods more beautiful.

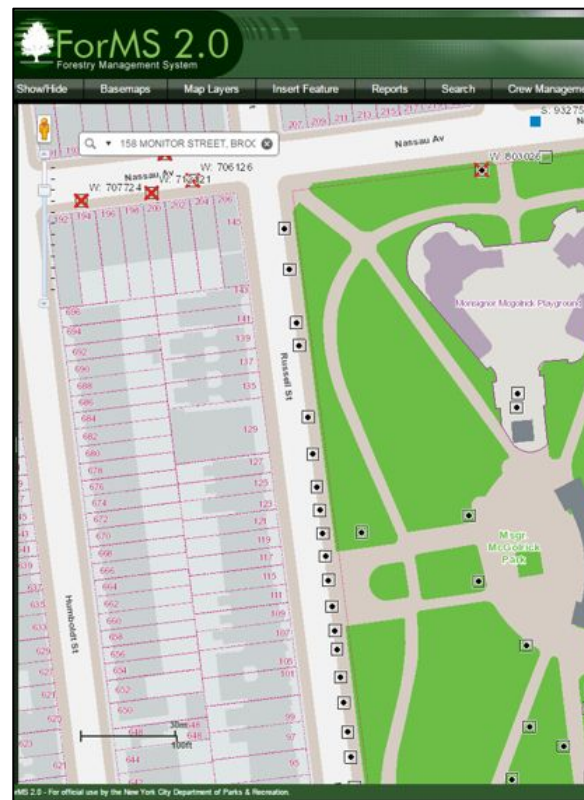
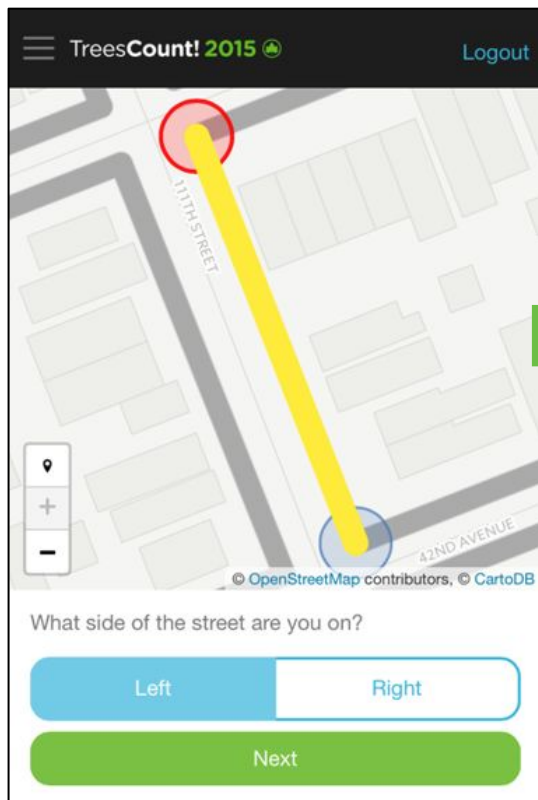
New York City's Street Tree Population







Operationalizing the Data



A Street Tree Map for Every New Yorker




Tree Profiles

[Share](#) [Tweet](#) [Favorite](#) [Report Problem](#)


London Planetree ●

Platanus x acerifolia

[Species Map and Details](#)

ID Number: 1433723
Trunk Diameter: 4 inches
[Suggest an Edit](#)

Closest Address
1664 PARK AVENUE, NEW YORK, NY
10035



© 2017 Google | [Terms of Use](#) | [Report a problem](#)

Tree Care Activity

There are no activities reported for this tree.

Get tips on tree care activities in the [Learn](#) section.

[Record Your Care](#)

Ecological Benefits

Benefits are calculated using formulas from the U.S. Forest Service. Learn more about the [benefits of trees to NYC](#) →

💧 **Stormwater intercepted each year**
317 gallons Value: \$3.14

⚡ **Energy conserved each year**
238 kWh Value: \$30.07

😊 **Air pollutants removed each year**
0 pounds Value: \$1.73

⚙️ **Carbon dioxide reduced each year**
35 pounds Value: \$0.12

💰 **Total Value of Annual Benefits**
\$35.17

Stewardship

[Share](#) [Tweet](#) [Favorited](#) [Report Problem](#)

Littleleaf Linden ●

Tilia cordata

[Species Map and Details](#)



Favorited: 1 time.
ID Number: 3756504
Trunk Diameter: 4 inches
[Suggest an Edit](#)

Closest Address
357 16 STREET, BROOKLYN, NY
11215



© 2017 Google Terms of Use Report a problem

Tree Care Activity

Date	Activity
04/08/2017	You Mulched, Cleared Litter/Waste
01/21/2017	You Cleared Litter/Waste
07/15/2016	You Pruning

Get tips on tree care activities in the [Learn](#) section.

Add Your Activity

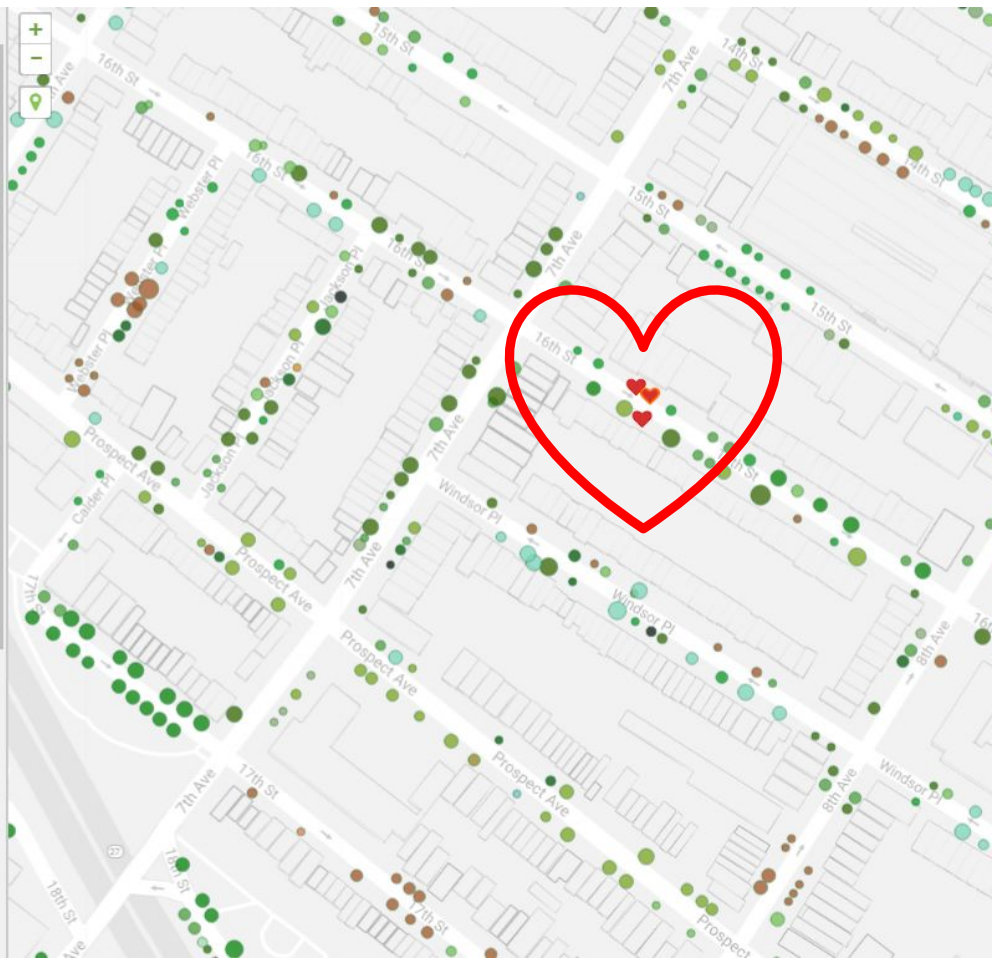
What date did the activity take place?

How long did the activity take?
Minutes

Stewardship Activities

☐ Cleared Litter/Waste ☐ Landscaped/Planted Flowers

☐ Managed Soil ☐ Mulched ☐ Pruning ☐ Watered



Tips and Tricks for Working with Street Tree Data

Urban Forest Management

ForMS 2.0 – Forestry Management System

- Updated by Parks Forestry staff
- Tree points and Planting Spaces
- Service Requests, Inspections and Work Orders

Street Tree Map

- Used by the public
- Stewardship Activity and Stewardship Groups
- Ecological Benefits
- Contributed Tree Data Edits

ForMS 2.0

Service Requests
GlobalID

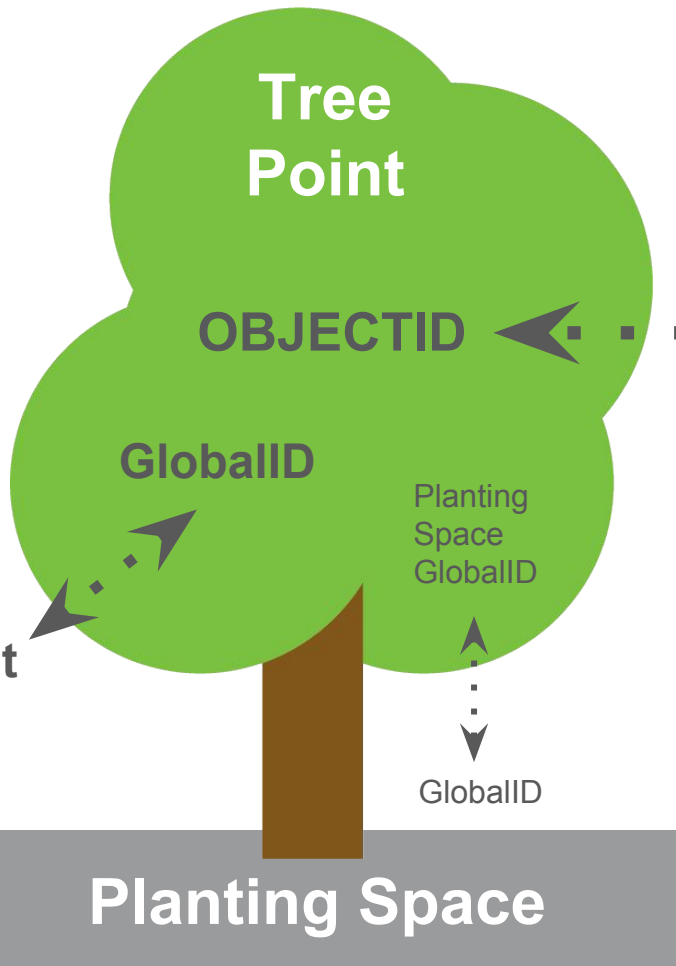


ServiceRequestGlobalID
Inspections
GlobalID



InspectionGlobalID
Work Orders

TreePoint
GlobalID



Street Tree Map

treeID

Stewardship
Activity

Ecological
Benefits

Contributed Tree
Data Edits



Tips and Tricks for Working with Street Tree Data

Our Changing Street Tree Population

1995 and 2005 Street Tree Census

- Mainly collected on paper data entry forms
- Trees were located by address

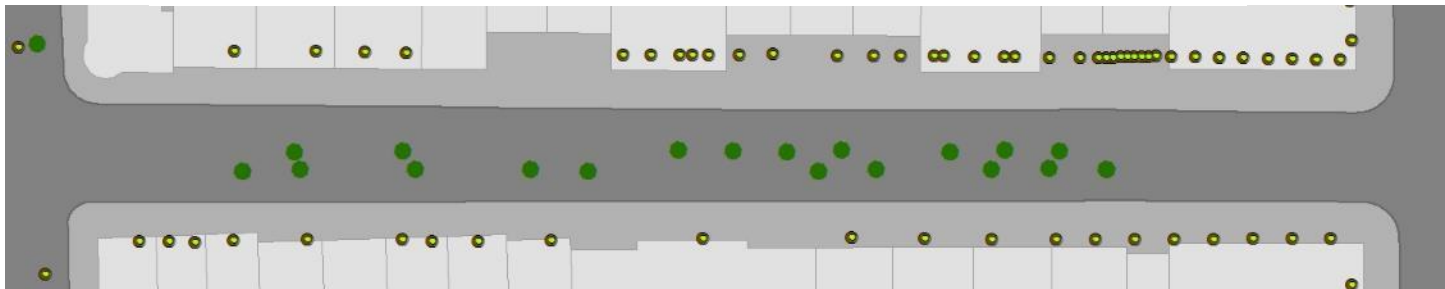
2015 Street Tree Census

- Mobile-based data collection
- Trees located accurately through survey-based mapping techniques

In order to compare Censuses

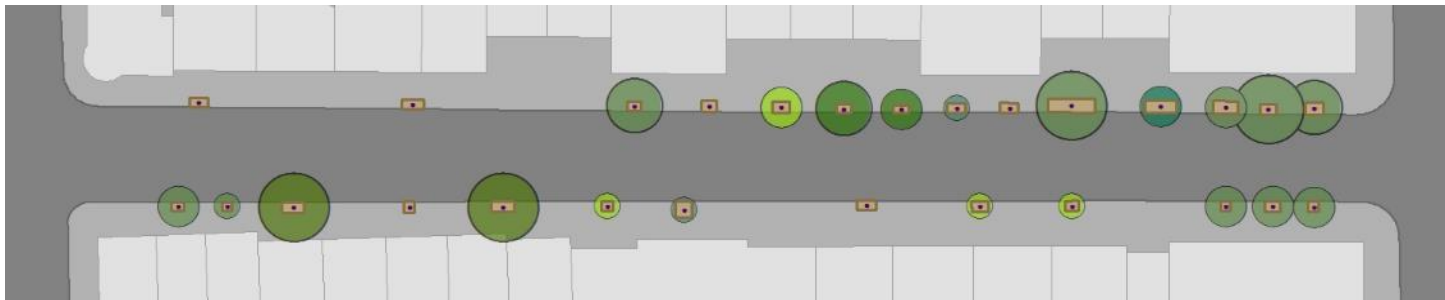
- Summarize inventory data by a common geography (such as Neighborhood Tabulation Area)
- Do **not** try to match individual trees

From this in 1995 and 2005...



address-based (approximate) tree location

...to this in 2015



 **TreeKIT** survey method (precise) tree location

Enabling Collaboration through Data

1,2, 



The TreesCount! 2015 engagement cycle – from participatory mapping, to operational data, civic hackathons and tree stewardship.



Parks

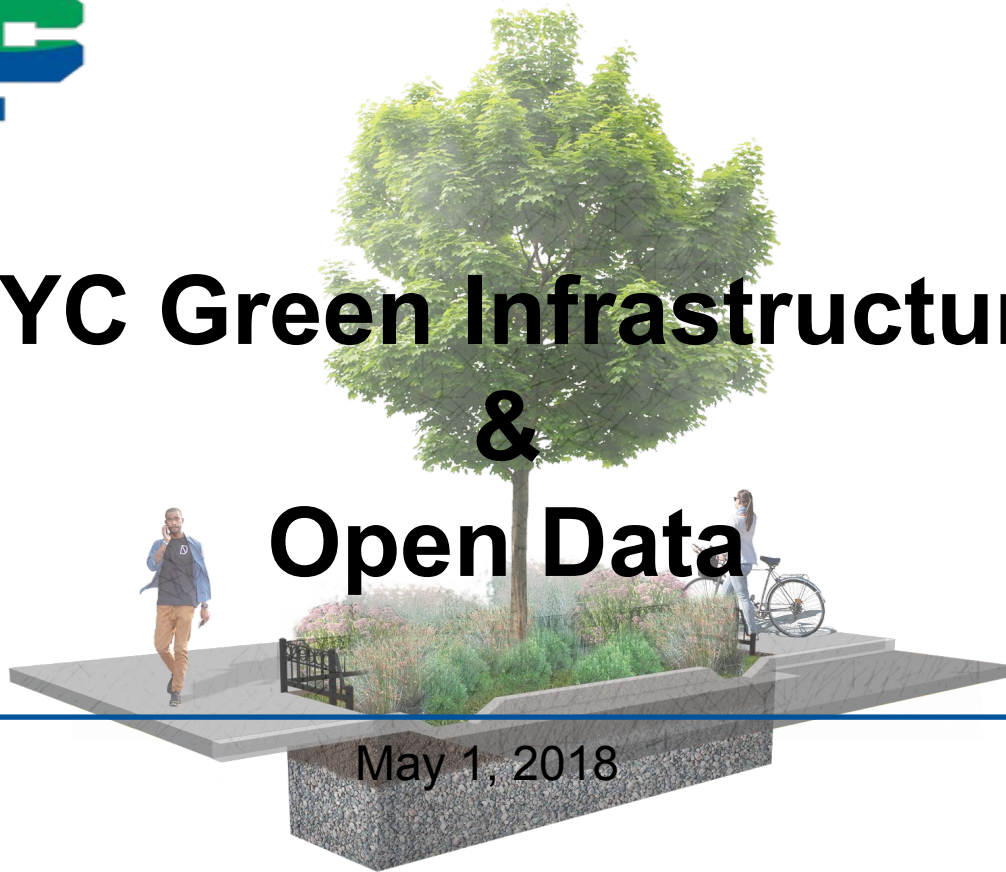
Thank You!!

Questions about our data?

Send us a note via the [Open Data Contact](#) page



NYC Green Infrastructure & Open Data



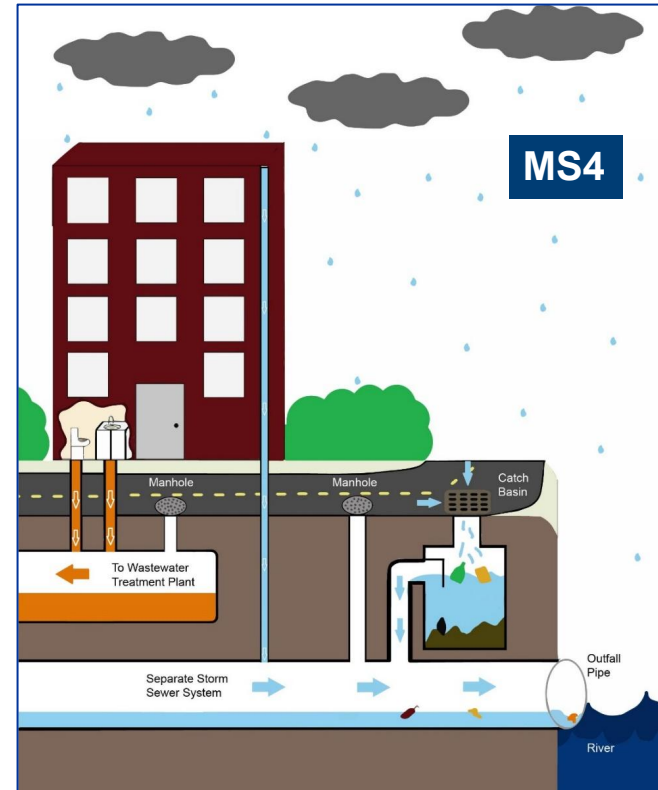
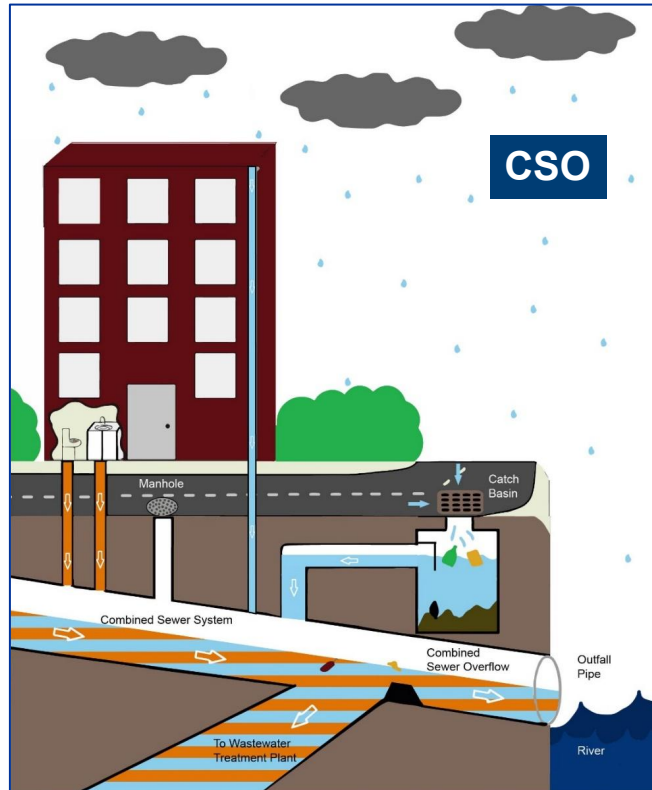
May 1, 2018



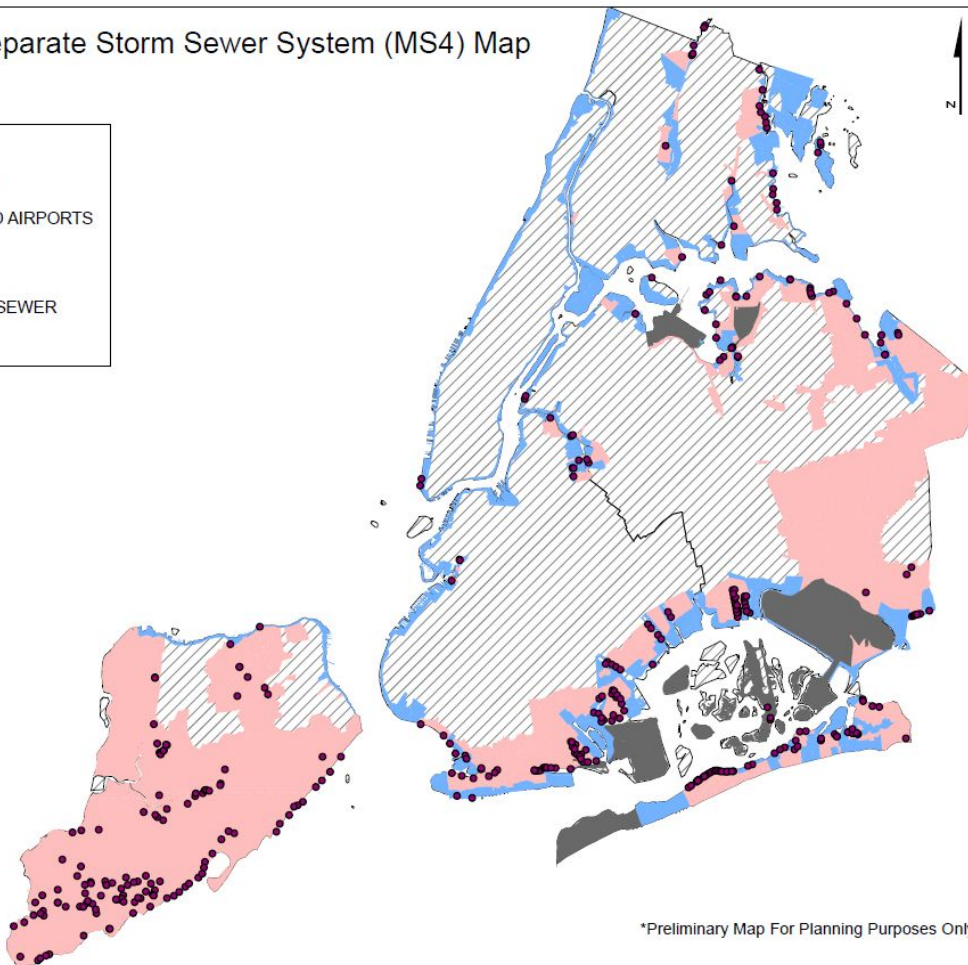
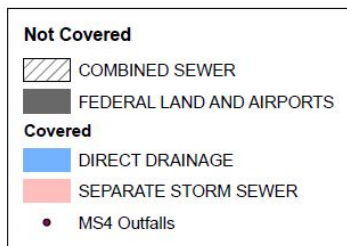
The New York City Department of Environmental Protection (DEP) protects public health and the environment by supplying clean drinking water, collecting and treating wastewater, and reducing air, noise, and hazardous materials pollution.

Subject	Type
Asbestos Control Program (ACP7)	Dataset
Catch Basins of the City of New York	GIS Map
CATS Permits	Dataset
Certified Asbestos Investigator	Dataset
Compliance at-the-tap Lead and Copper Data	Dataset
Current Reservoir Levels	Dataset
DEP - Cryptosporidium And Giardia Data Set	Dataset
DEP Green Infrastructure	GIS Map
DEP NYC Outfalls	HREF
Distribution Sites LCR Monitoring Results	Dataset
Drinking Water Quality Distribution Monitoring Data	Dataset
Entry Point LCR Monitoring Results	Dataset
Free Residential at-the-tap Lead and Copper Data	Dataset
Harbor Water Quality	Dataset
Hydrants of the City of New York	GIS Map
Land Acquisition Statistics	File
Lead At The Tap Results	Dataset
NYCDEP Recreation Area Maps	Dataset
Recreational Boating Permits	Dataset
Significant Noncompliance List	Dataset
Summary of DBP Quarterly Report	Dataset
Wastewater Treatment Plant Performance Data	File
Water Consumption In The New York City	Dataset
Watershed Water Quality Data	Dataset
Work Order Management Module	Dataset

New York City is served by both **combined** and **separated** sewer systems. The City has multiple programs to address stormwater runoff in order to protect and improve water quality.



Draft Municipal Separate Storm Sewer System (MS4) Map



*Preliminary Map For Planning Purposes Only



City Sidewalks



City Streets



Grants and Incentives for Private Property



Public Property (Schools, Parks, Housing)

GI Practices for Property Retrofits



Green Roofs



Cisterns



Permeable Pavement



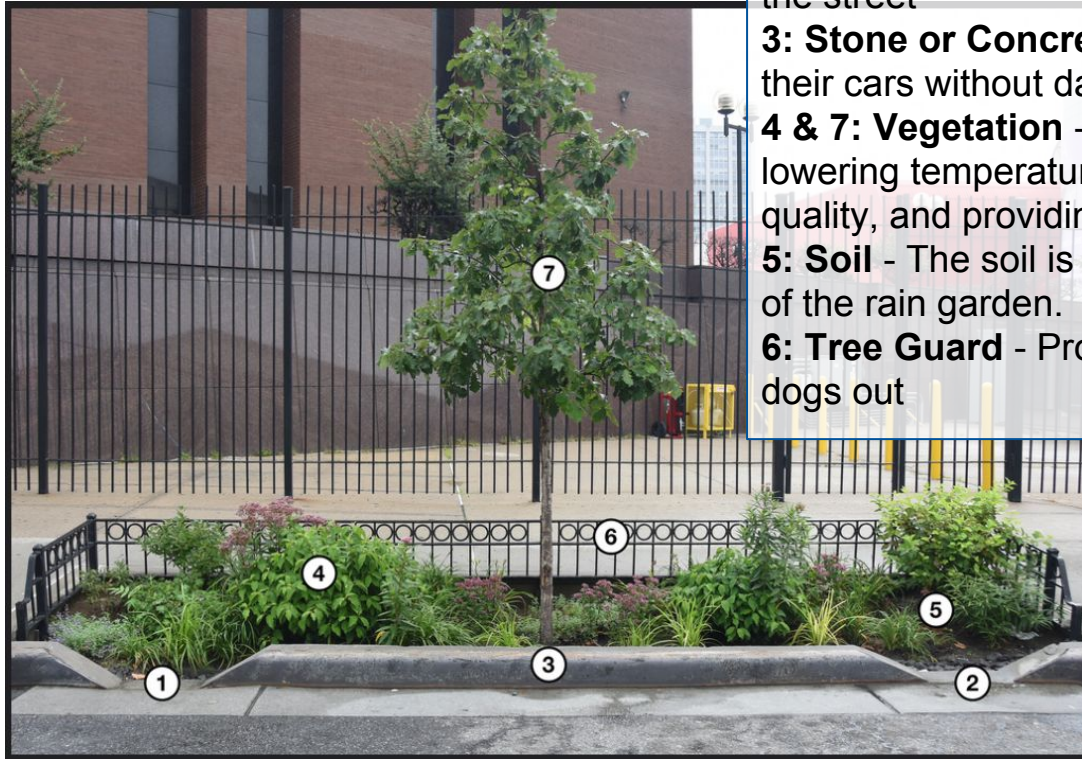
Rain Gardens



Synthetic Turf



Underground Stormwater Chambers



1: Curb inlet - Allows water to flow into the rain garden as it flows down the curb

2: Outlet - Allows overflow out of the rain garden back onto the street

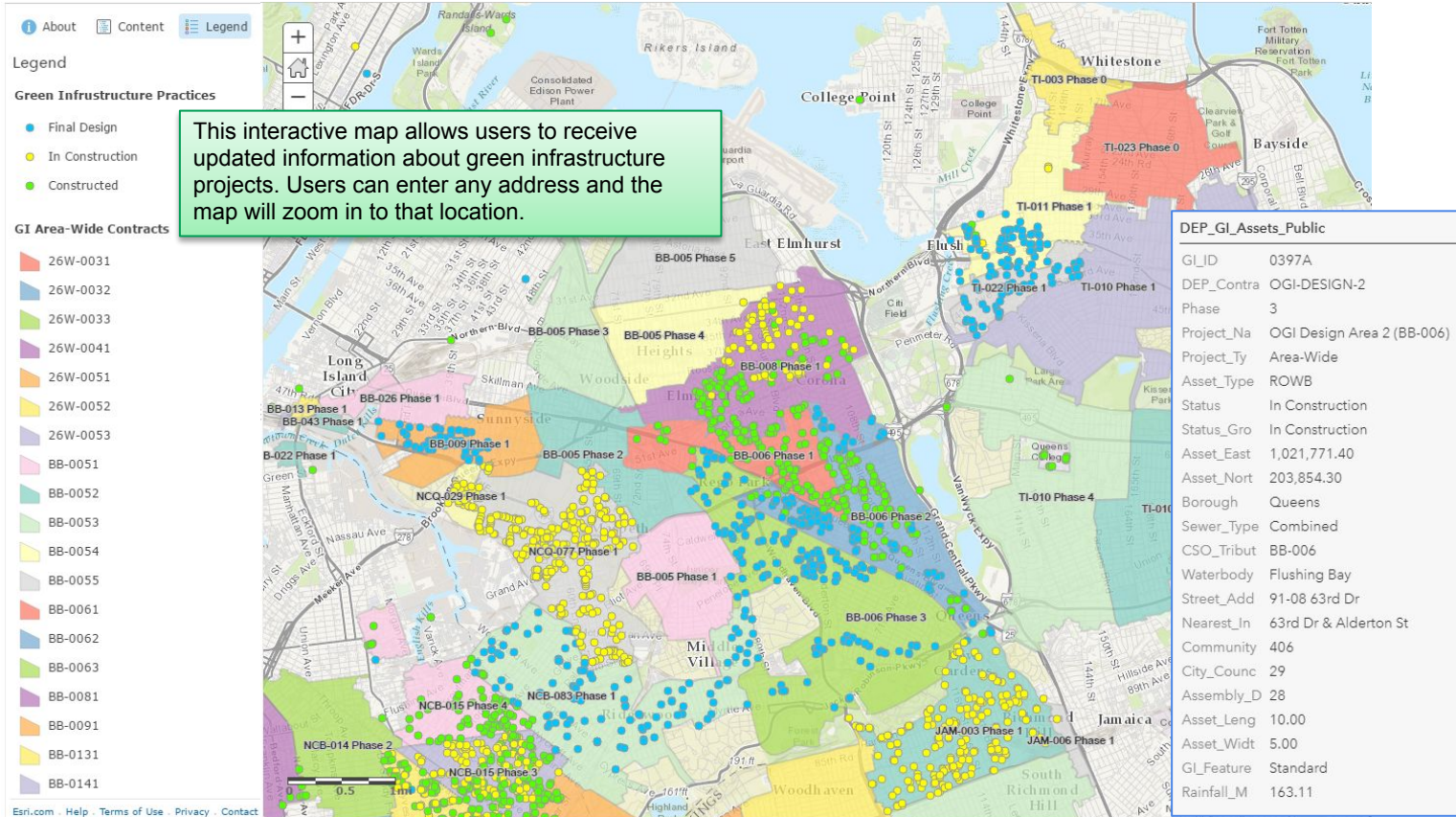
3: Stone or Concrete Strip - Allows people to step out of their cars without damaging the plants.

4 & 7: Vegetation - Plants benefit neighborhoods by lowering temperatures in hot summer months, improving air quality, and providing habitat for birds and butterflies.

5: Soil - The soil is graded so that water ponds in the center of the rain garden.

6: Tree Guard - Protects the plants by keeping people and dogs out

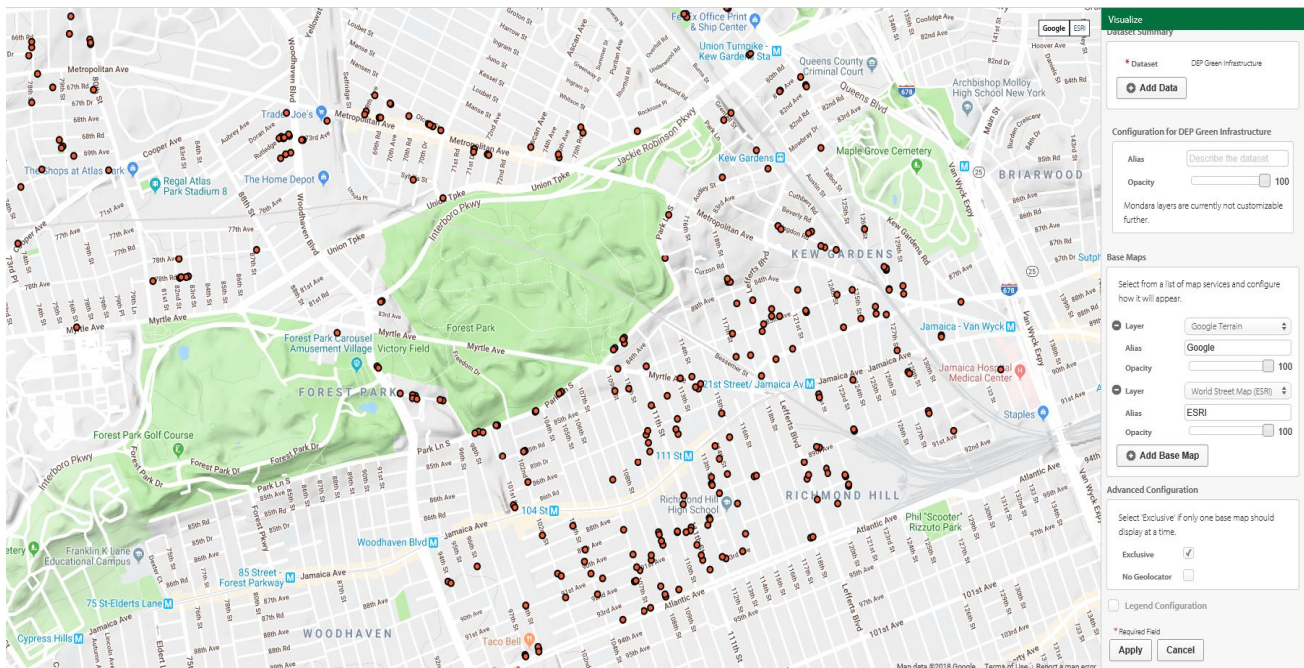
www.nyc.gov/dep/gimap



Data downloadable on Open Data as:

- KML / KMZ
- CSV
- Shapefile
- JSON
- GeoJSON

- Updated monthly
- Variety of base maps
- Ability to embed maps





Planning Phase

- DEP staff present to community boards, elected officials, environmental organizations, and civic groups

Analysis & Design Phase

- Contractors carry brochures
- City Agency coordination

Construction

- DEP distributes maps and lists of construction locations to community boards. Additional presentations
- Contractor distributes door hangers to every adjacent property
- Contractor team includes designated community liaison

Maintenance

- All rain gardens have decals identifying them as DEP infrastructure
- Rain garden phone hotline and email
- Maintenance staff carry brochures



Visit www.nyc.gov/raingardens
to learn more

RainGardens@dep.nyc.gov
(718) 595-7599



ONE CITY Built to Last

Using Data to Reach 80 X 50

Ross MacWhinney

#ONENYC

Vision 3

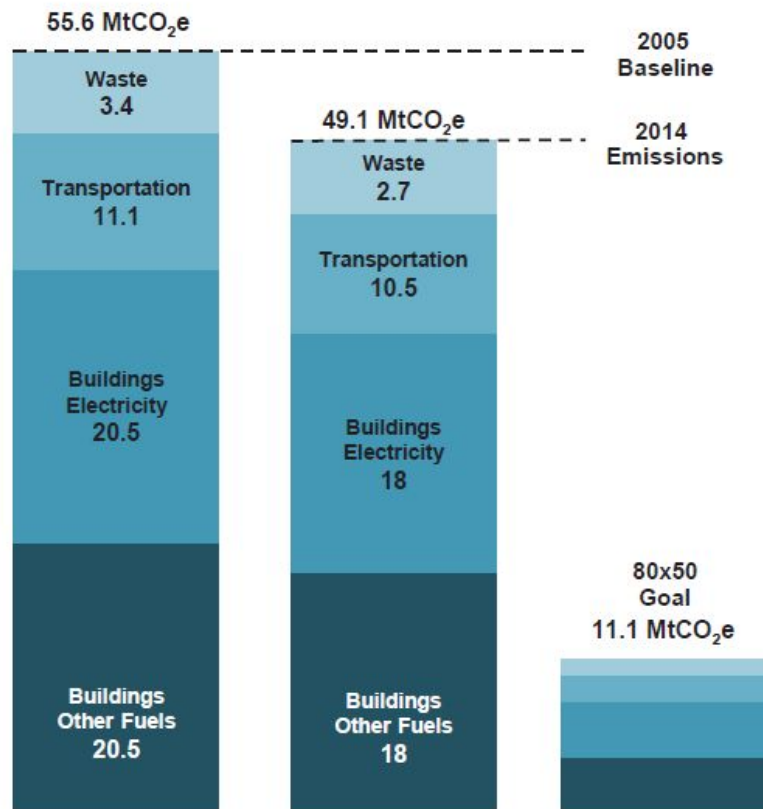
Our Sustainable City

New York City will be the most sustainable big city in the world and a global leader in the fight against climate change



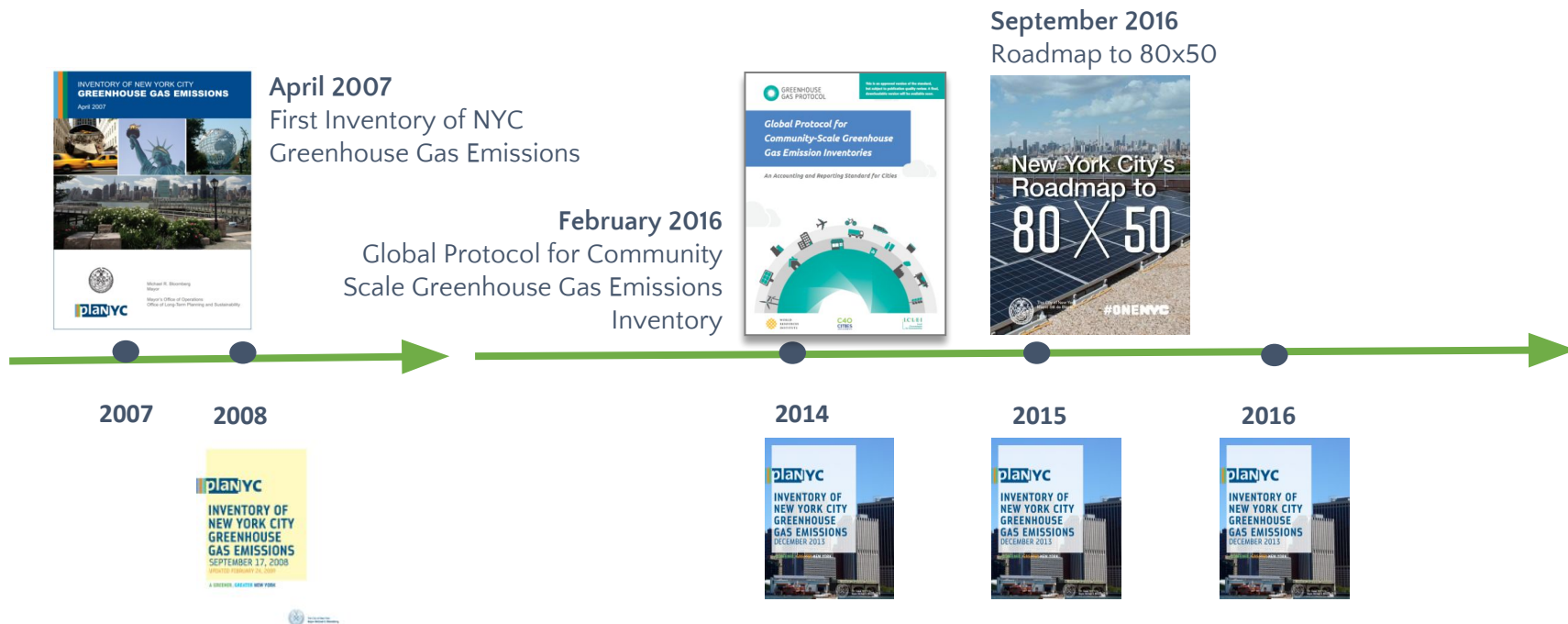
**By 2050, New York City's
greenhouse gas emissions
will be 80% lower than in 2005**

New York City's 80 x 50 Commitment



Total Reduction = **44.5**
million metric tons of
carbon dioxide equivalent
(MtCO₂e)

NYC Has One of the Richest Data Sets on GHG Emissions in the World



10 Annual GHG Inventories completed to date!!

Why is Having an Inventory Important?

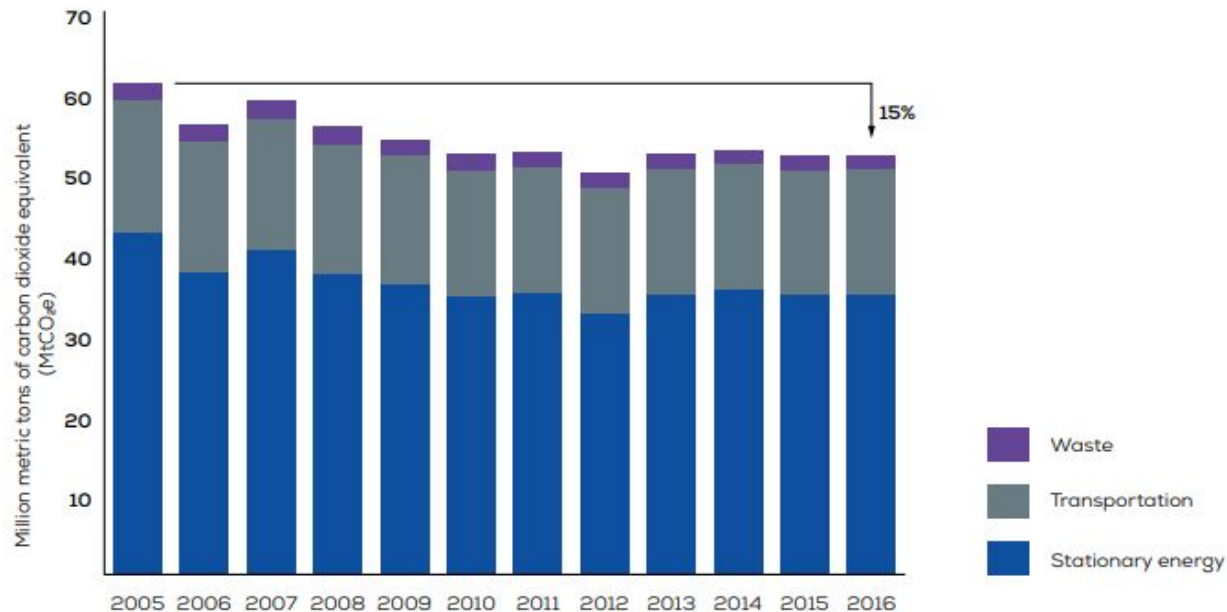
- Understand the emissions contribution from different sectors
- Develop actions to tackle major sources of emissions
- Evidence base for setting a target
- Ability to monitor the impact of city actions and review performance
- Greater confidence for decision makers and funders
- Improved communication with residents and businesses

No Inventory is Perfect

- All cities have gaps in their data and have to make assumptions and using scaling factors to estimate emissions
- For example, using national-level data or emission factors from another city
- This is good practice provided the assumptions are disclosed
- Improving data quality is an on-going and iterative process
- Cities need to understand the weaknesses in their data before they can address them
- GPC is flexible and provides cities with options to overcome data limitations

NYC's Citywide GHG Inventory

CITYWIDE ANNUAL GHG EMISSIONS BY SECTOR

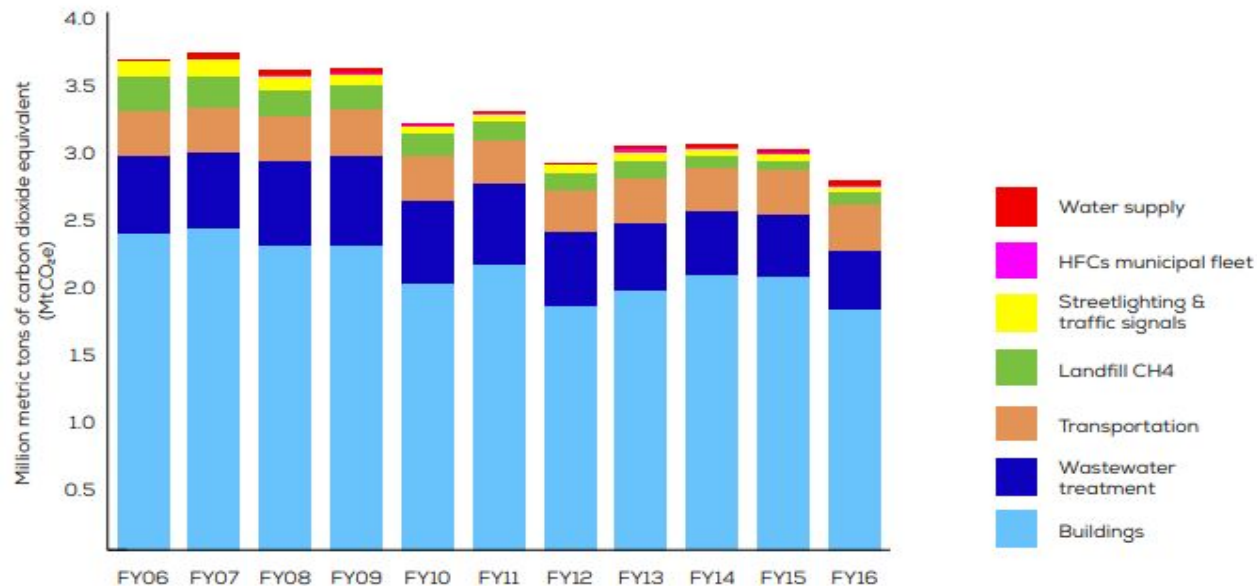


Activity Data

- Electricity
- Natural Gas
- Heating Oil
- District Steam
- Vehicle miles traveled
- Residential waste
- Organics Composting
- Commercial waste

NYC's City Government GHG Inventory

CITY GOVERNMENT ANNUAL GHG EMISSIONS BY SECTOR



Activity Data

- Electricity
- Natural Gas
- Heating Oil
- District Steam
- Transportation fuels
- Waste in place
- Wastewater treatment

Reducing emissions from buildings is critical

Buildings are NYC's largest source of GHGs

- Account for 67% of NYC's GHG Emission

Fossil fuels must be reduced in buildings

- In-building fossil fuel combustion accounts for 40+% of NYC's
- 79% of building fossil fuel emissions are attributable to natural gas, 21% to fuel oil
- Even with 100% clean grid, NYC will not achieve 80x50 unless we address fossil fuels in buildings

NYC GHG Emissions

52.2

MtCO₂e

**Buildings
Electricity**
25%

**Buildings
Fossil Fuels**
42%

Transportation
30
%

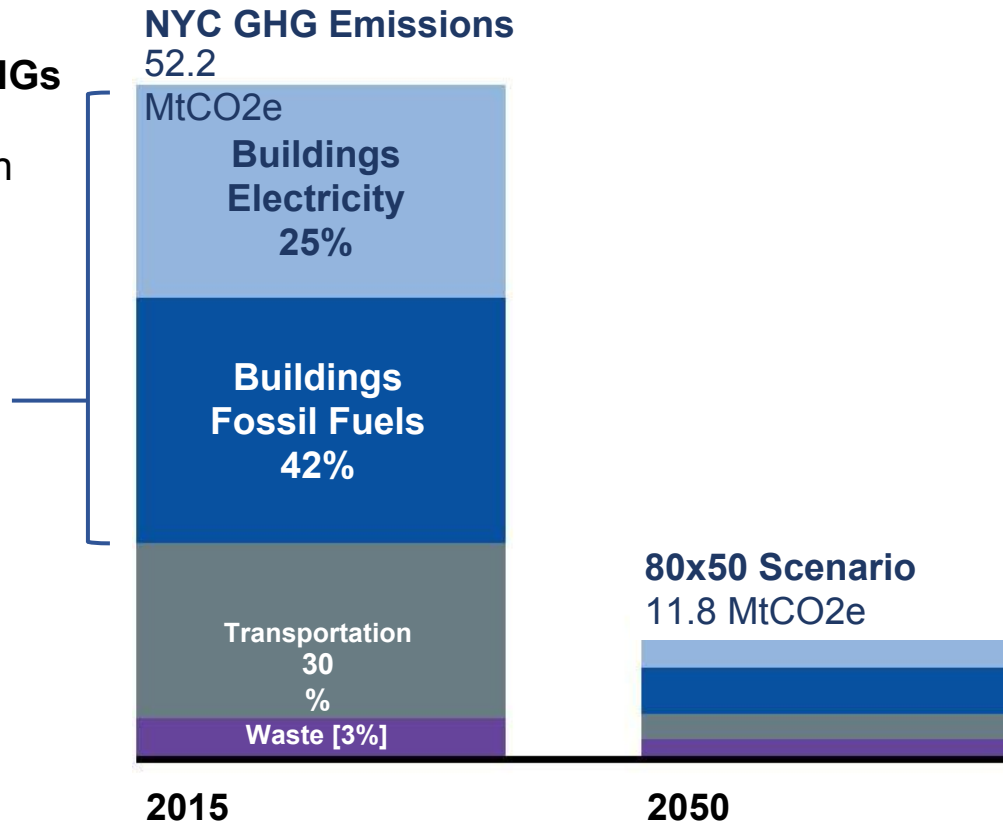
Waste [3%]

2015

80x50 Scenario

11.8 MtCO₂e

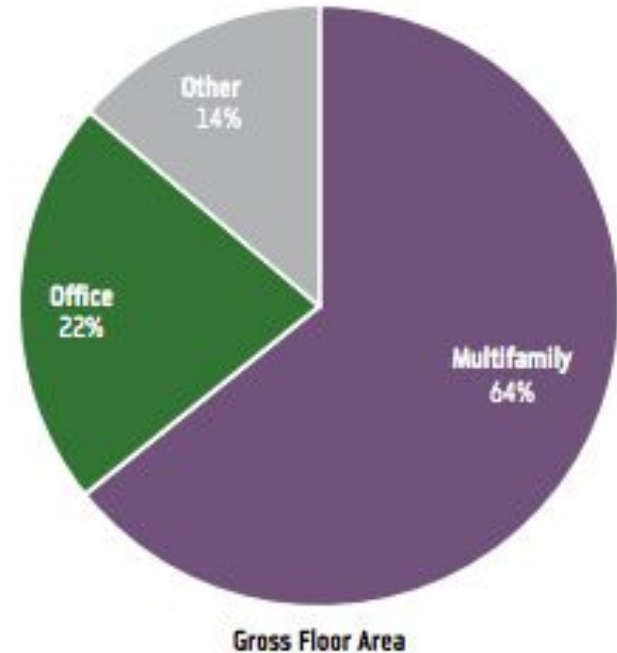
2050



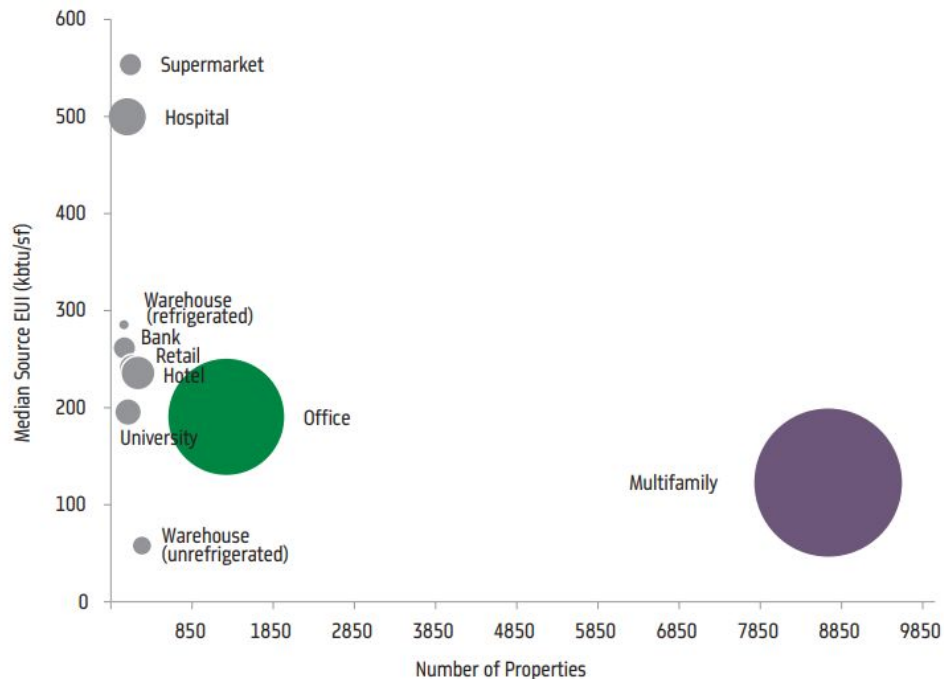
Energy and Water Performance Data in Large Buildings

- Local Law 84 (09) & Local Law 133 (16)
- Mandate annual reporting of energy and water consumption
- Buildings over 25,000 ft²
- Roughly 24,000 properties (out of ~1M)
- Data reported via EPA Portfolio Manager
- Leader in a national movement: 15 cities and 1 state have adopted benchmarking

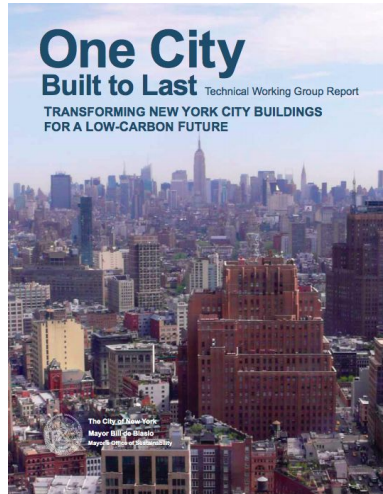
[Fig. 2] Proportion of Gross Floor Area



Building Data is Key to Understanding Energy Use in NYC



Building Data is Critical to Policy and Programs



Panel Discussion #LearnAboutNYC

Moderator:

@forestsservice - Erika Svendsen

Panelists:

@nature_org - Emily Nobel Maxwell

@NYClimate - Ross MacWhinney

@NYCParks - Jackie Lu

@NYCWater - Kyle Winslow

@UrbanSystemLab - Timon McPhearson



NYC Parks



Climate

THE NEW SCHOOL

URBAN
SYSTEMS
LAB

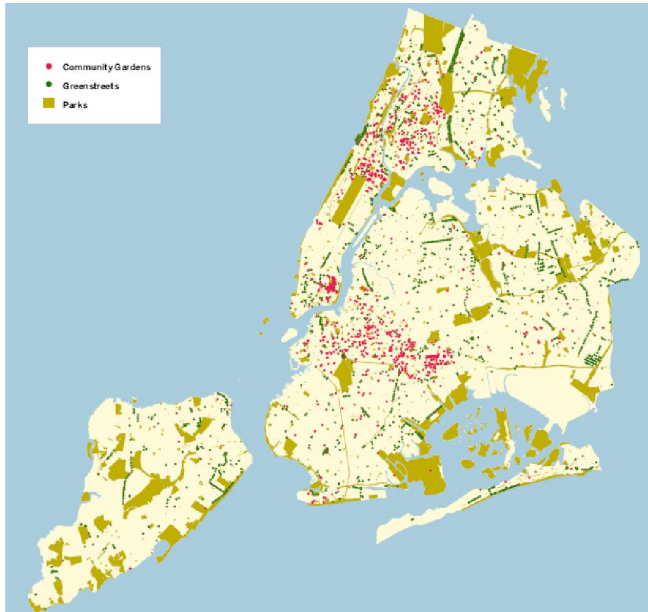


Environmental
Protection

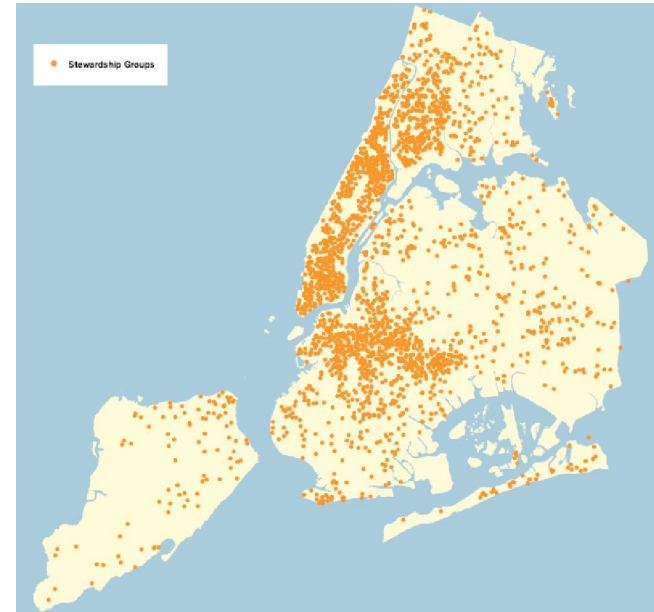




STEW-MAP: Mapping green space & social space

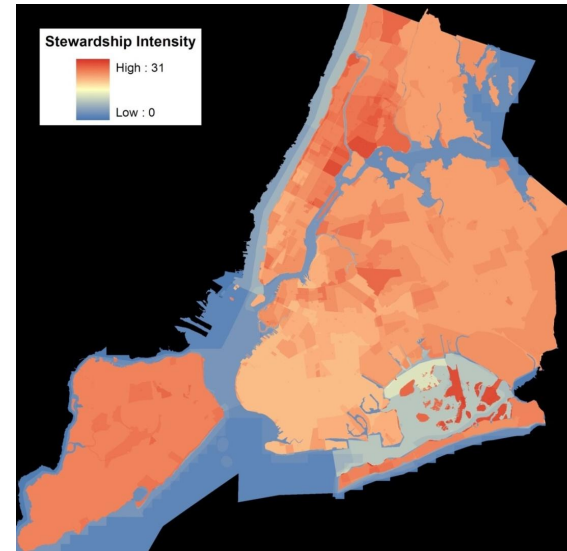
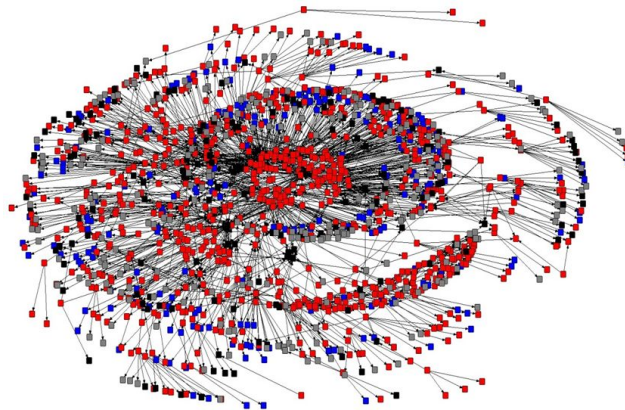
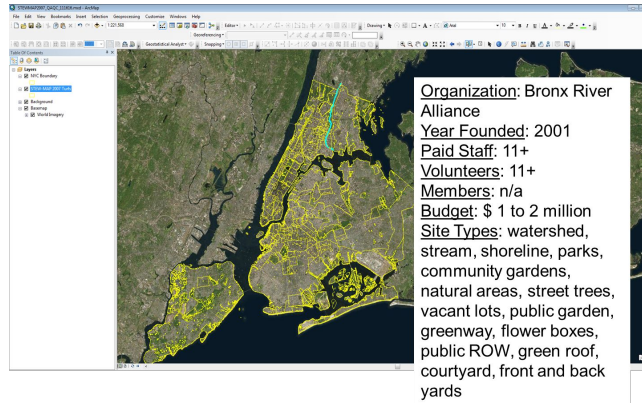


Green
space



Social
space

Stewardship Group Characteristics, Networks & Turf





Multi-city STEW-MAP network

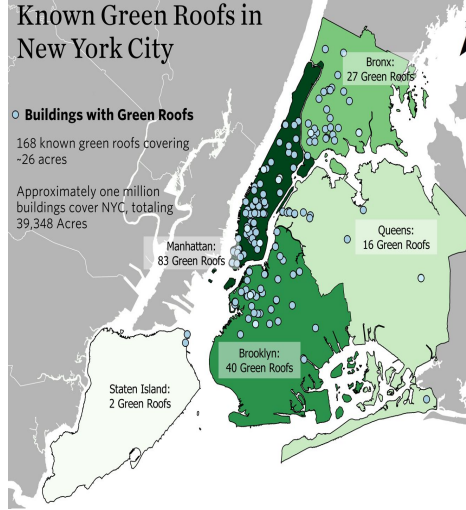


Known Green Roofs in New York City

Buildings with Green Roofs

168 known green roofs covering ~26 acres

Approximately one million buildings cover NYC, totaling 39,348 Acres



Greenprinting New York City Project Scope Report



*Prepared by Emily Nobel Maxwell, Lauren Alleman, Michael Treglia,
Joshua Carrera, Jessica Hoch, and Christina Thorbourne*

The Nature
Conservancy

**Our World
Depends on Us.**
NEW YORK CITY



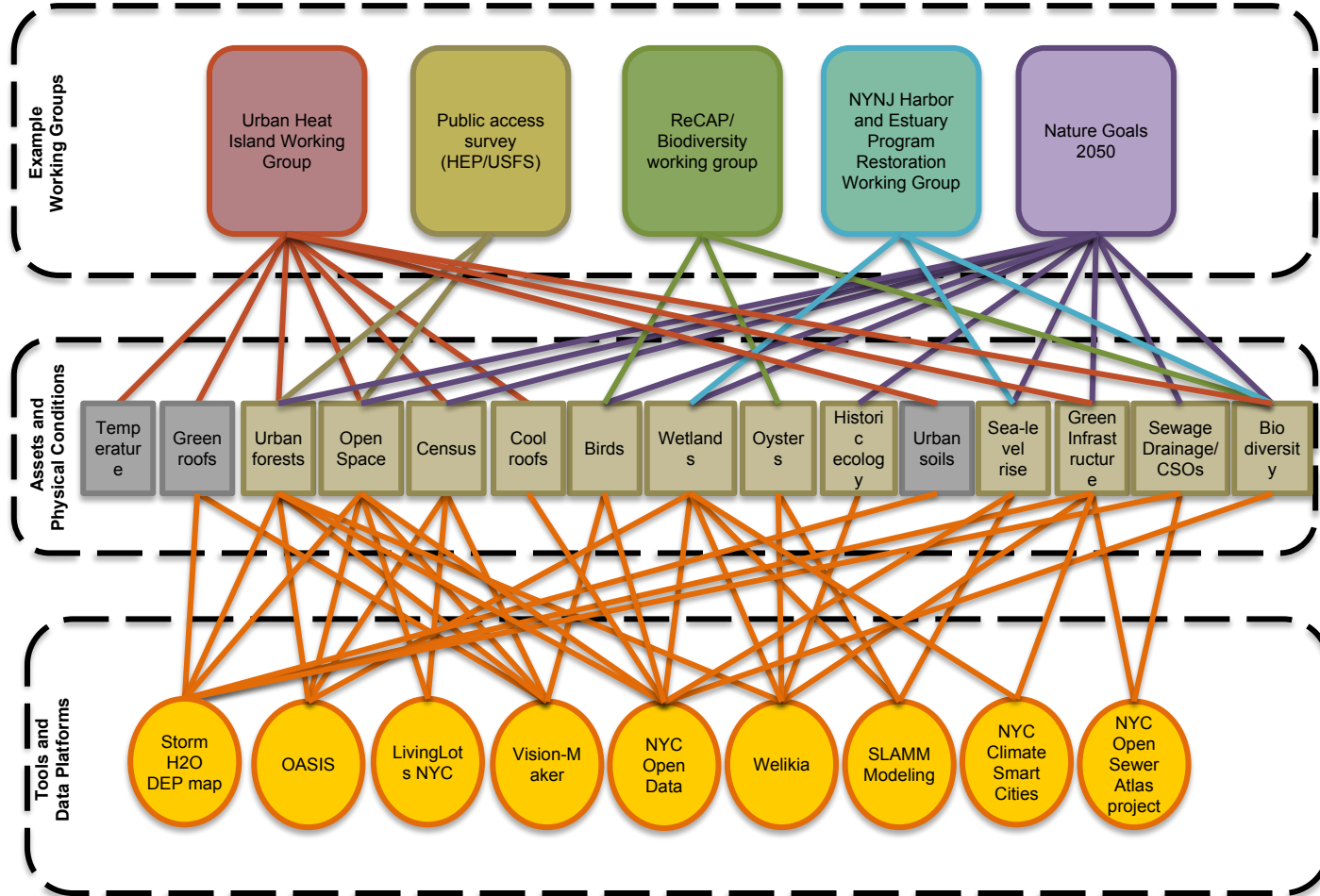
Urban Coastal Resilience: Valuing Nature's Role

CASE STUDY: HOWARD BEACH, QUEENS, NEW YORK | JULY 2015

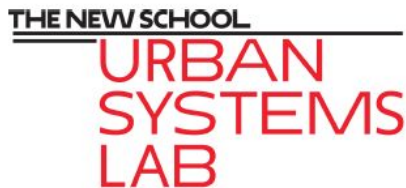


The Nature
Conservancy

Greenprint Scoping Project



A SYSTEMS APPROACH TO MODELING NYC RESILIENCE FUTURES



TIMON MCPHEARSON

Assoc. Professor + Director, *Urban Systems Lab, The New School*

Lead Author, *IPCC WGII*

Senior Research Fellow, *Cary Institute of Ecosystem Studies*

Associate Research Fellow, *Stockholm Resilience Centre*

@TIMONMCPHEARSON URBANSYSTEMSLAB.COM TIMON.MCPHEARSON@NEWSCHOOL.EDU



VISUALIZING URBAN FUTURES

@TIMONMCPHEARSON URBANSYSTEMSLAB.COM DATAVIZ.URBANSYSTEMSLAB.COM/PROJECTS/UREX/

Panel Discussion #LearnAboutNYC

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@UrbanSystemLab - Timon McPhearson



NYC Parks



Climate

THE NEW SCHOOL

URBAN
SYSTEMS
LAB



Environmental
Protection



NYC OpenData

Calls to Action:

1. Submit a dataset request!
2. Submit a project to the contest by midnight tonight!
3. Ask questions!

**#opendata #nyc @CivicHall @ESRI
#LearnAboutNYC**

**@NYCParks @NYClimate @NYCWater
@UrbanSystemLab @nature_org
@forestsERVICE**

@PBProject @NYCCharter

NYC OpenData

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IT'S BETA

Open Data for All New Yorkers

Where can you find public Wi-Fi in your neighborhood? What kind of tree is in front of your office? Learn about where you live, work, eat, shop and play using NYC Open Data.

Search Open Data for things like 311, Noise,

www.nyc.gov/opendata

→ **Contact Us**

Translate »