
Resilience, Sustainability & Quality of Life:
2015 Community Charrette
Town of Mamaroneck

Greetings, Introductions & Objectives

Greetings

Sustainability Collaborative – *projects and plans*

2014 Charrette – community input on environmental priorities

Draft *Plan for a Resilient and Sustainable Mamaroneck*

Today's Objectives:

- *Consider accomplishments* in resilience, sustainability & quality of life
- Tell us your *priorities for sustainability*
- Discussion and Feedback on *User Fees vs. Taxes*

Introductions…all around

Agenda & Schedule

10:00	Greetings, Introductions & Charrette Objectives
10:10	Today's Agenda
10:15	2014 Community Input, Plan Objectives
10:20	**Part One – Priority Action Item Reports**
10:40	***Break Time!***
10:50	**Part Two – User Fees vs. Taxes: Sustainability & Efficiency of Town Services**
11:00	Case Studies
11:40	**Participant Discussions & Feedback**
12:05	**Discussion Reports, Summary & Next Steps**
12:30	Thank you, and Adjourn

Long-Term Objectives

Provide tools for **Resilience**

Protect our Power Supply: bury the electric lines, research options for community generation

Incorporate Renewable Energy: Explore Solar, micro-grids and alternatives

Capture or re-direct Storm Water: incentivize on-site retention, rain barrels; create swales

Address Flooding reduction: use permeable paving, repair infra-structure, plant trees

Reduce Food Waste: educate on purchasing; create community gardens and compost areas

Long-Term Objectives

Create programs for **Sustainability**

Protect Parks: preserve/replant trees, remove pesticides; pursue composting and mulching

Demand Energy Efficiency: upgrade and track electricity; green fleet; street lighting

Protect and Improve Water Quality: reduce pesticides; separate storm and sewer collection

Reduce Solid Waste: increase re-use & recycling; add compost and waste programs

Pass Government Policies: add green zoning & building codes, **explore tax incentives**

Provide Education: Create Seminars for Homeowner and Business on new products/systems

Long-Term Objectives

Preserve and Improve our Quality of Life

Educate the Public: how resilience and sustainability impact Quality of Life

Work on our Master Plan: Greening the Codes, Complete streets; add Open space

Reduce Noise: Implement a leaf blower policy for a quieter TOM; reduce air and I-95 noise

Explore Transportation Alternatives: promote bicycling/ walking/jitneys

Enhance Community: **Create more Homeowner Associations and Town Celebrations**

Implement a Community Perennial Garden

2014 Draft Plan to TOM

2015 Priority Action Items

Become a **Near-Zero Waste** Community

Increase **Renewable & Local** Energy Sources

Increase **Education & Awareness**

Improve **Air Quality** & **Reduce Noise**

Make TOM a Safer Place to **Walk, Bike & Drive**

Increase Community **Preparedness**

Improve **Water Quality** in Streams & Long Island Sound

Improve the **Resilience of Local Infrastructure**

Updates - Priority Action Items

- ***Renewable Energy, Resilient Infrastructure***
- ***Walk-able, Bike-able Community***
- ***Air & Noise Pollution***
- ***Reducing Emissions***

Update – Renewable Energy

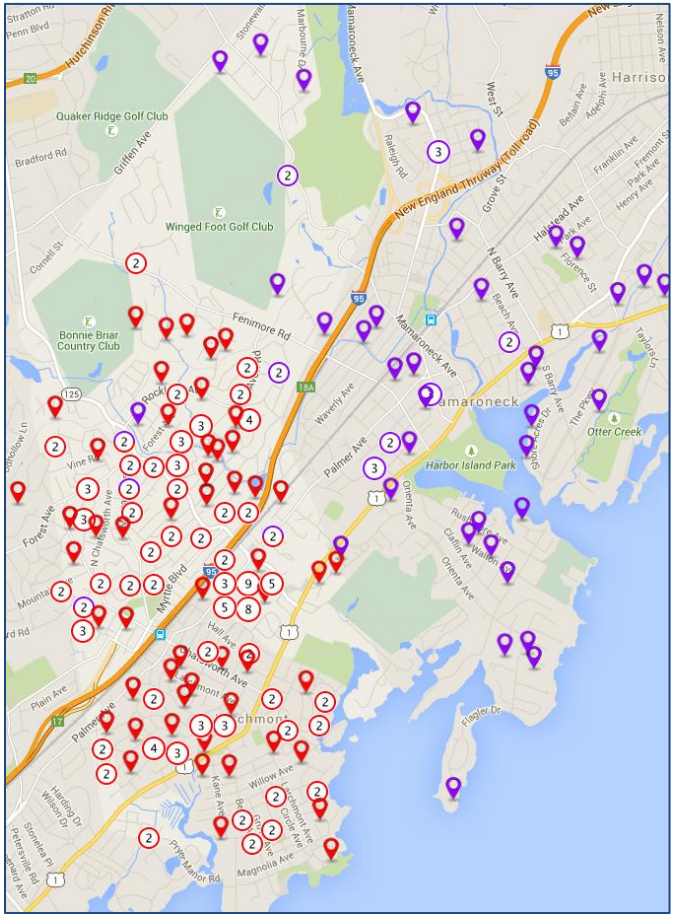
2014 Charrette	• "State-of-art technology to save energy" • "Town should be a renewable energy info source" • "Anticipate needs for the future and solve with renewables"
Plan Chapter	• **Sustainability**
Actions to Date	• Joined ***Municipal Solar Buyer's Group*** • Participating in ***Community Choice Aggregation*** • ***"Solarize Larchmont-Mamaroneck"*** - Feb thru June, 2015 • Collaborating with VOL, VOM, community organizations
Results	• 500+ resident inquiries, 72 new solar contracts • 4X number of solar installations in previous 5 years

Renewable Energy – ***Solarize Program***

Solarize
Larchmont-Mamaroneck!
Solar. Simple. Together.

Solarize Larchmont Mamaroneck Campaign – February-June, 2015

- **500+ resident inquiries & evaluations**
- **72 new solar installations**



Education & Awareness – *MHS Energy Dashboard*

50% Grant Funding from Mamaroneck Schools Foundation

Matching 50% Fund-raising now underway!

- Education & Research opportunities for Mamaroneck Students
- Energy Dashboard at MHS
- Real-time monitoring of Energy Use & Production

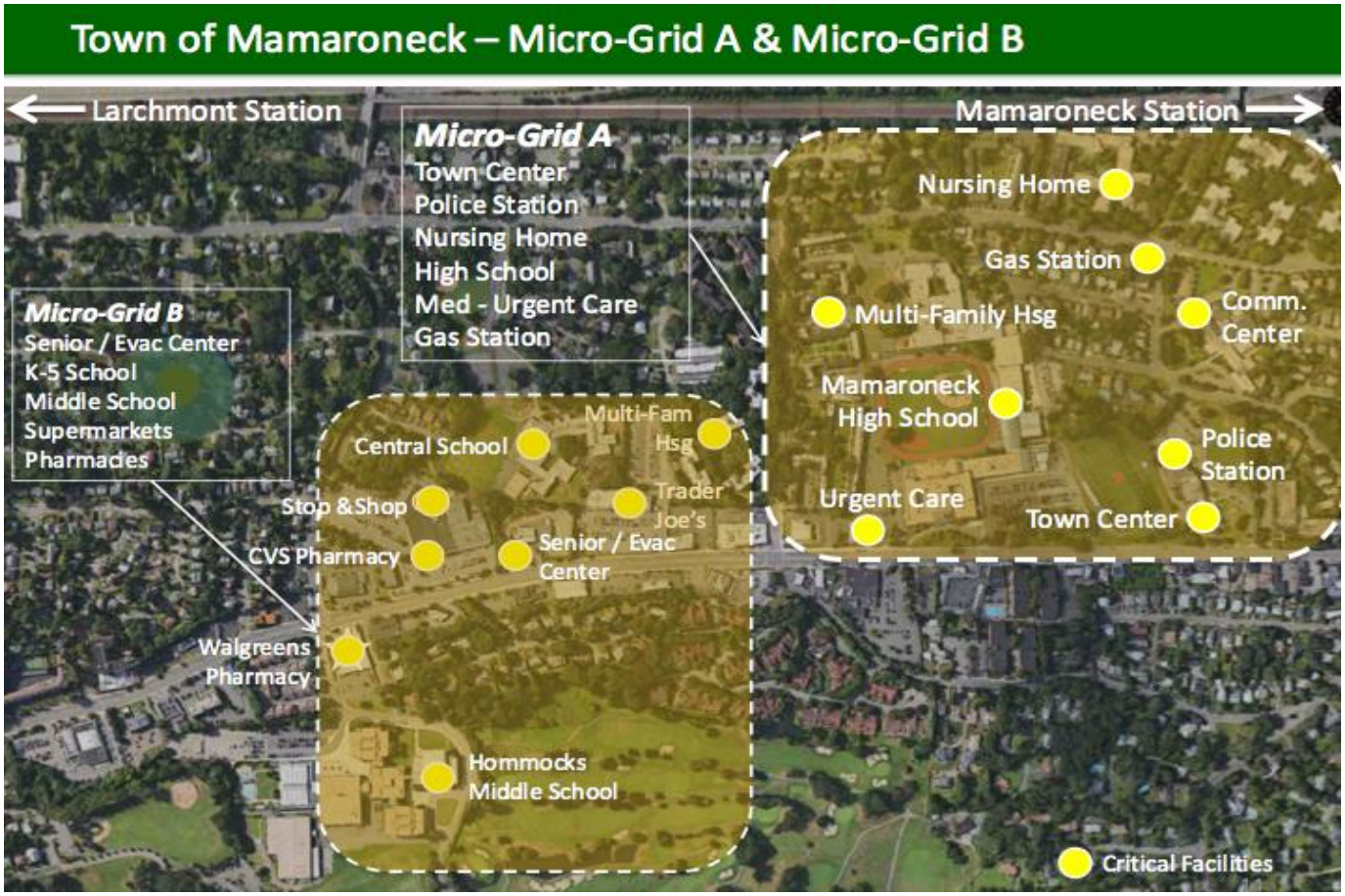
Update – Resilient Infrastructure

2014 Charrette	• "Explore Community Power Generation" • "Explore strategies to make TOM critical facilities more resilient"
Plan Chapter	• **Resilience**
Actions to Date	• Win $100,000 from NYSERDA for Phase 1 Micro-Grid Study • Propose Two Micro-Grids • Collaborate with ConEd, NYPA, Schools, Sarah Neuman
Results	• Micro-Grid Study on-going, Phase 1 submission December 2015

Resilient Infrastructure – *NY Prize Micro-Grids*

NY Prize Phase 1 Feasibility Study – Community Micro-Grids

- **Won $100,000 from NYSERDA for Phase 1 Micro-Grid Study**
- Collaborate with Con-Ed, NYPA, Schools, Sarah Neuman



Update – Walk-able, Bike-able Community

2014 Charrette	• "Promote Policies, Practices & Programs to provide safer and alternative means of transport for people, goods & services"
Plan Chapter	• **Quality of Life**
Actions to Date	• Submitted Bicycle-Friendly Community Application in 2014 • Received "report card" with plan for step-by-step improvements • Collaboration with *"Safe Routes to School"*
Results	• New Bike Racks at Hommocks Ice Rink • NYS DOT funds for Weaver St Sidewalk - Murray Ave to Bonnie Way

Walk-able, Bike-able – *BFC, Bike Master Plan*

MAMARONECK, NY

TOTAL POPULATION	POPULATION DENSITY	# OF LOCAL BICYCLE FRIENDLY BUSINESSES	# OF LOCAL BICYCLE FRIENDLY UNIVERSITIES
29,156	4,377.5	0	N/A

TOTAL AREA (sq. miles): 6.6

10 BUILDING BLOCKS OF A BICYCLE FRIENDLY COMMUNITY

	Average Bronze	Mamaroneck
Arterial Streets with Bike Lanes	33%	0%
Total Bicycle Network Mileage to Total Road Network Mileage	26%	0%
Public Education Outreach	SOME	GOOD
% of Schools Offering Bicycling Education	33%	10%
Bike Month and Bike to Work Events	GOOD	SOME
Active Bicycle Advocacy Group	MAYBE	YES
Active Bicycle Advisory Committee	MAYBE	NO
Bicycle-Friendly Laws & Ordinances	SOME	VERY GOOD
Bike Plan is Current and is Being Implemented	MAYBE	NO
Bike Program Staff to Population	PER 77K	48200

CATEGORY SCORES

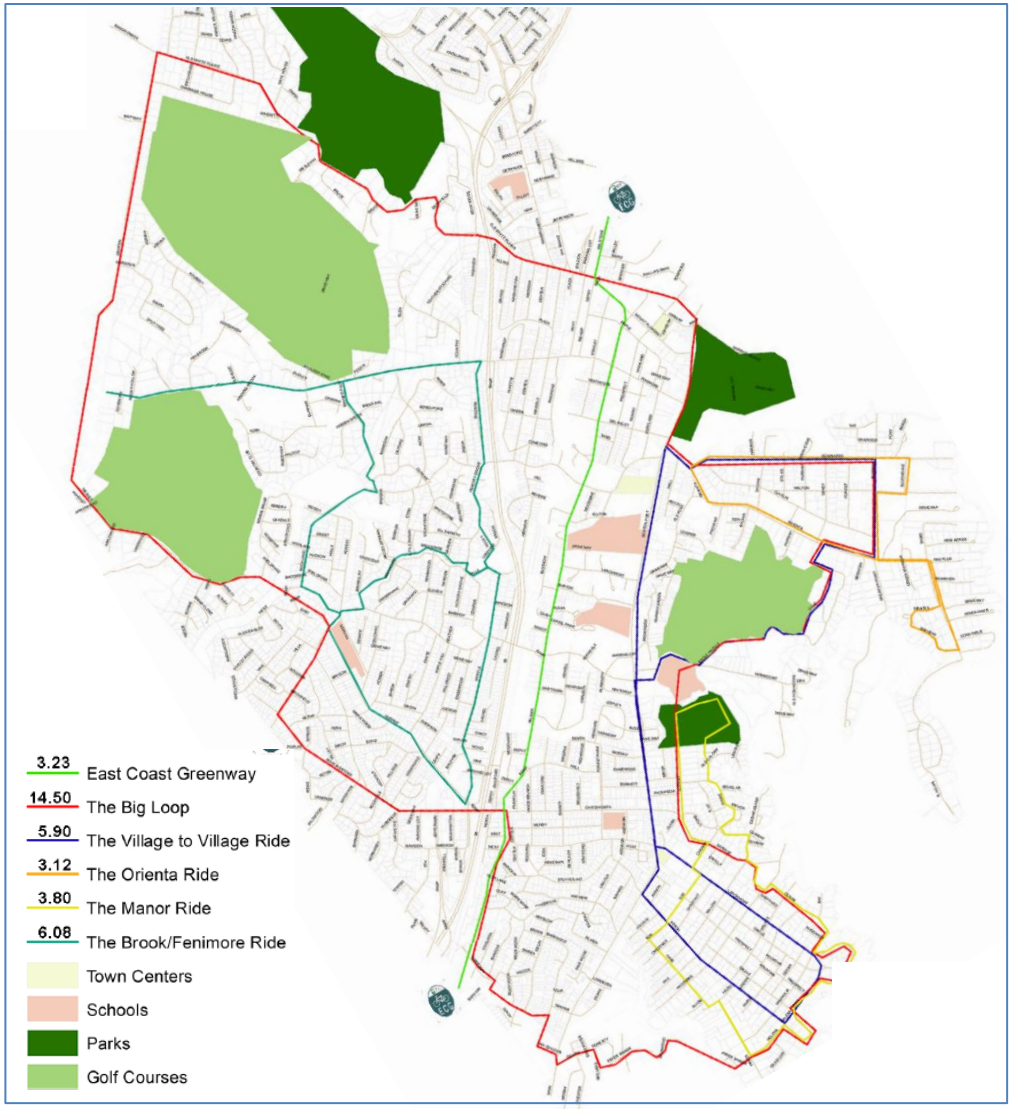
ENGINEERING *Bicycle network and connectivity*	1/10
EDUCATION *Motorist awareness and bicycling skills*	1/10
ENCOURAGEMENT *Mainstreaming bicycling culture*	1/10
ENFORCEMENT *Promoting safety and protecting bicyclists' rights*	3/10
EVALUATION & PLANNING *Setting targets and having a plan*	1/10

KEY OUTCOMES

	Average Bronze	Mamaroneck
RIDERSHIP *Percentage of daily bicyclists*	1.2%	0.23%
SAFETY MEASURES CRASHES *Crashes per 10k daily bicyclists*	370	328.1
SAFETY MEASURES FATALITIES *Fatalities per 10k daily bicyclists*	4	0.0

KEY STEPS TO BRONZE

- Appoint an official Bicycle Advisory Committee to create a systematic method for ongoing citizen input into the development of important policies, plans, and projects.
- Adopt standards for bike parking that conform to APBP guidelines.
- Increase the amount of high quality bicycle parking throughout the community, especially at commercial destinations.
- Continue to expand the on and off street bike network.
- Expand the Safe Routes to School program.
- Continue to expand your public education campaign promoting the share the road message.
- Offer bicycling skills training opportunities for adults frequently.
- Expand encouragement efforts during Bike Month and celebrate Bike To Work Day.
- Promote cycling throughout the year by offering or supporting family-oriented community or social rides.
- Ensure that police officers are initially and repeatedly educated on traffic law as it applies to bicyclists and motorists.
- Ask police officers to target both motorist and cyclist infractions.
- Adopt and implement the bike plan that is currently being prepared.



Collaboration – *TOM & Safe Routes to School*

Why Safe Routes to School?

☑For the environment

Air quality is measurably better around schools with more walkers and bicyclists (EPA, 2003)

☑For individual health

Moderate physical activity, like walking or biking to school, fires up the brain and improves processes involved in attention, memory and academic performance in children. (The New York Times, 2013 and The Wellness Impact, 2013)

☑For the community

Families connect with their neighbors and the world around them when they walk or bike to school

Collaboration – *TOM & Safe Routes to School*

Safe Routes – the 5 “E”s

- ☑Engineer
- ☑Enforce
- ☑Educate
- ☑Encourage
- ☑Evaluate

Walk-able, Bike-able – ***Safe Routes Programs***

Education and Encouragement

Where it's safe, encourage walking & biking

- ☑ Weekly messages to parents (March - May)
- ☑ Walk to School Weeks (2/yr: Oct & Apr)
- ☑ Elementary school bike safety events
- ☑ Get in the habit: Walking School Buses

Walk-able, Bike-able – ***Hommocks Approach***

Engineering

Where it's not safe, make changes

Walk-able, Bike-able – ***Weaver St. Sidewalk***

Engineering

Where it's not safe, make changes

- ☑Murray Ave. to Bonnie Way
- ☑New sidewalks
- ☑NYS DOT & TOM funding
- ☑Construction 2016

Update – Air & Noise Pollution

2014 Charrette

- "Promote Policies & Programs for a quieter Mamaroneck"

Plan Chapter

- **Quality of Life**

"When it comes to blowing leaves around uselessly and creating an insane amount of noise, this model can't be beat."

Update – Air & Noise Pollution

2014 Charrette	• "Promote Policies & Programs for a quieter Mamaroneck"
Plan Chapter	• **Quality of Life**
Actions to Date	• Gas-powered Leaf blowers identified as major source of noise • Leaf blowers banned between June 1 and Sept. 30 • How can we reduce noise while they may be used? • Sustainability Collaborative researched, found quieter blowers
Results	• Propose regulation of noise from gas-powered leaf blowers • Ordinance under review by TOM before going to TOM Board

Air & Noise Pollution – ***Quiet Leaf Blower Law***

Proposed regulation of the maximum noise from gas-powered leaf blowers

- Education & Awareness campaign for Homeowners & Landscapers
- Promotion of Quiet Leaf Blowers through TOM website, others

Update – Reducing Emissions

2014 Charrette	• "Town must lead in reducing carbon footprint and waste" • "Install energy-saving state-of-art technology" • "Improve boiler efficiency; Improve lighting"
Plan Chapter	• **Sustainability**
Actions to Date	• TOM GHG emissions decreased 13% between 2007 and 2012 • ESPC to reduce energy cost, consumption, improve facilities & fund capital improvements completed in Spring 2015 • TOM purchased software to Tabulate & Track GHG Emissions
Results	• TOM Costs & GHG Emissions continue to decline

Emissions – ***Energy Service Performance Contract***

- ESCO with Honeywell to reduce energy cost, consumption, improve facilities
- ESCO energy-saving renovations completed in Spring 2015
- **36% Energy savings achieved - $0 cost to taxpayers**

THE TOWN OF MAMARONECK · FOUNDED 1661 ·

Emissions – ***Hommocks Ice Rink***

Daily Average Cost

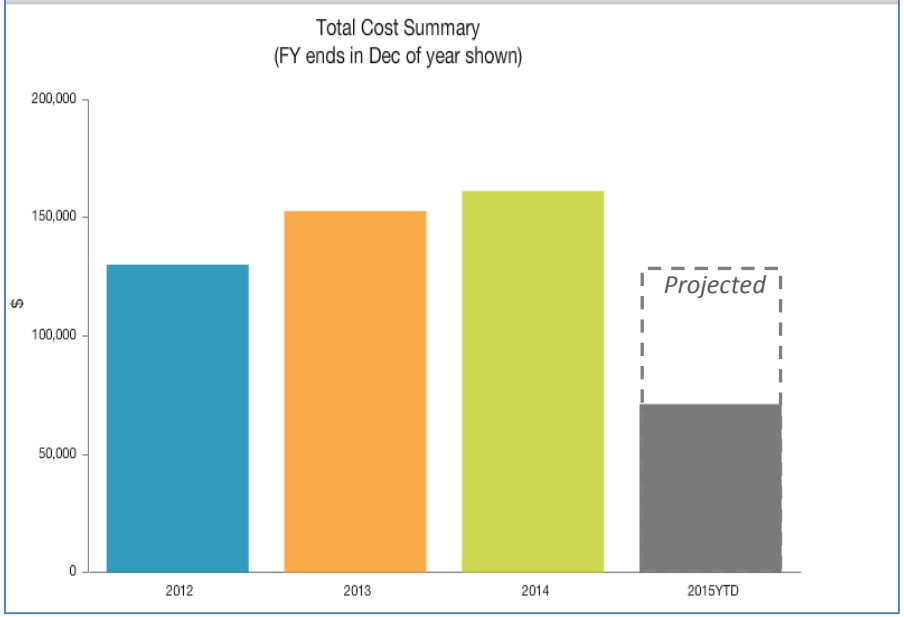
Percentage Change from **Previous Year To Current Year**

22.4 %

Current Year:
Aug 2014 - Jul 2015
$347.74

Previous Year:
Aug 2013 - Jul 2014
$448.69

Location: Town of Mamaroneck-> Town-> Honeywell Project-> HOMMOCKSICERINK [Hommocks Ice Rink]
Time: 09/28/2015 3:30:30 PM **Created By:** Noah Horowitz



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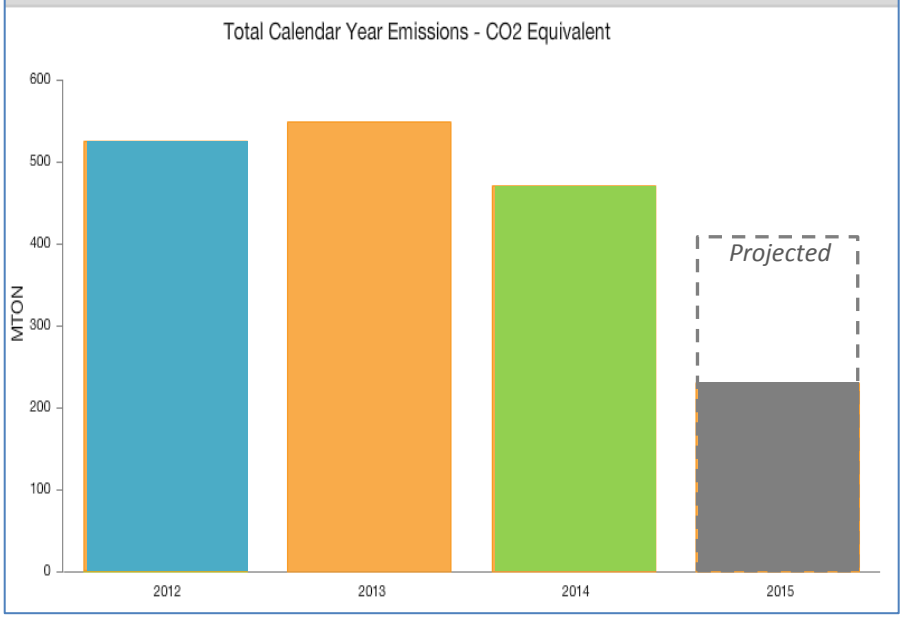
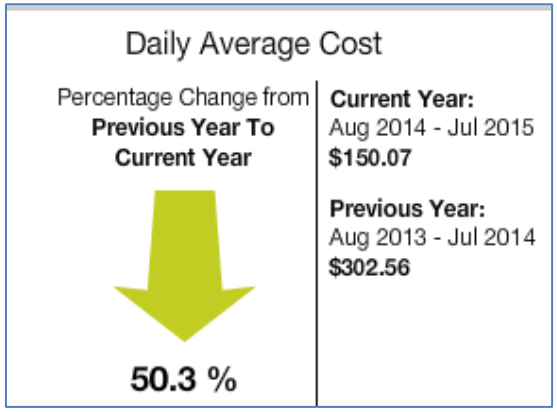
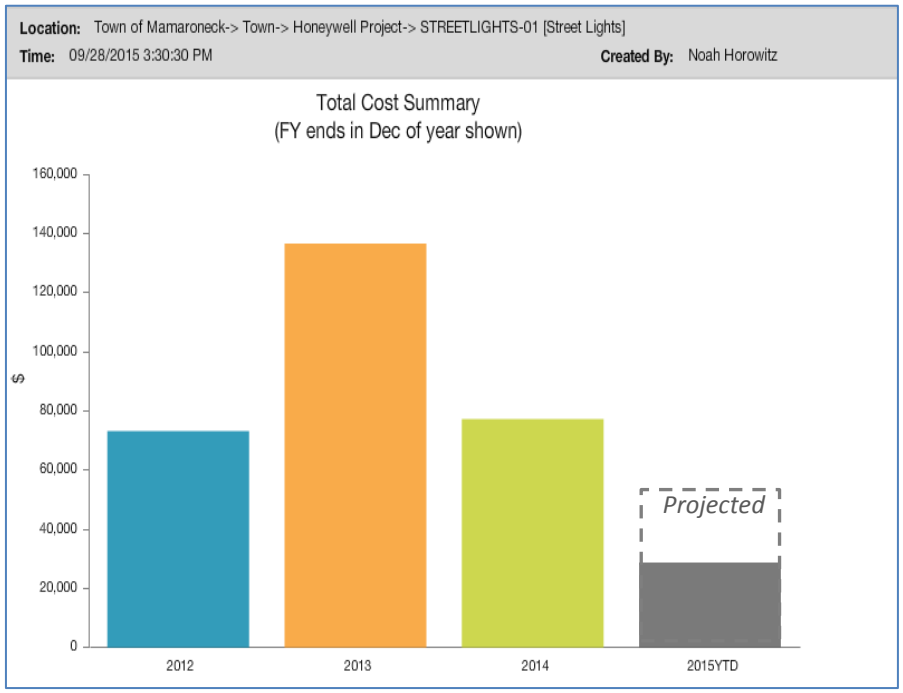
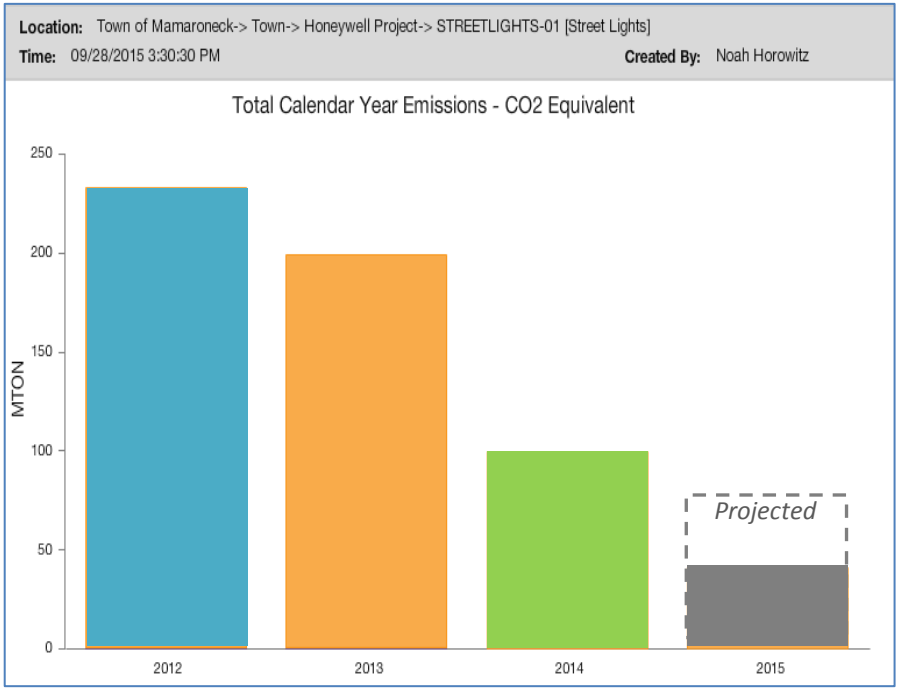


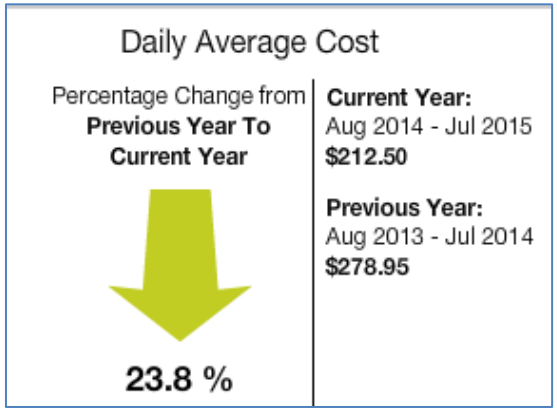
Emissions – ***Street Lights***

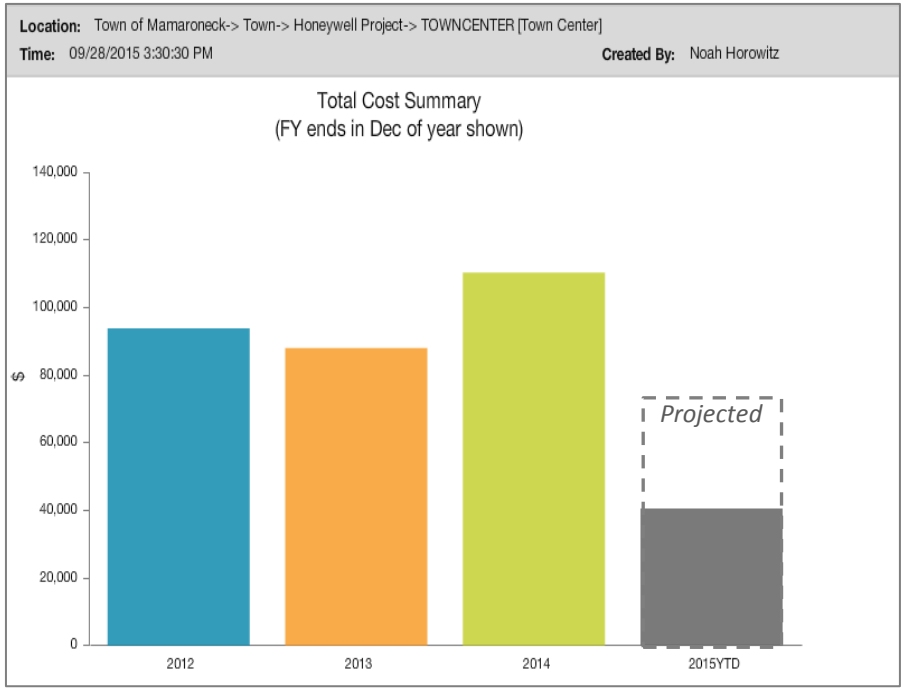


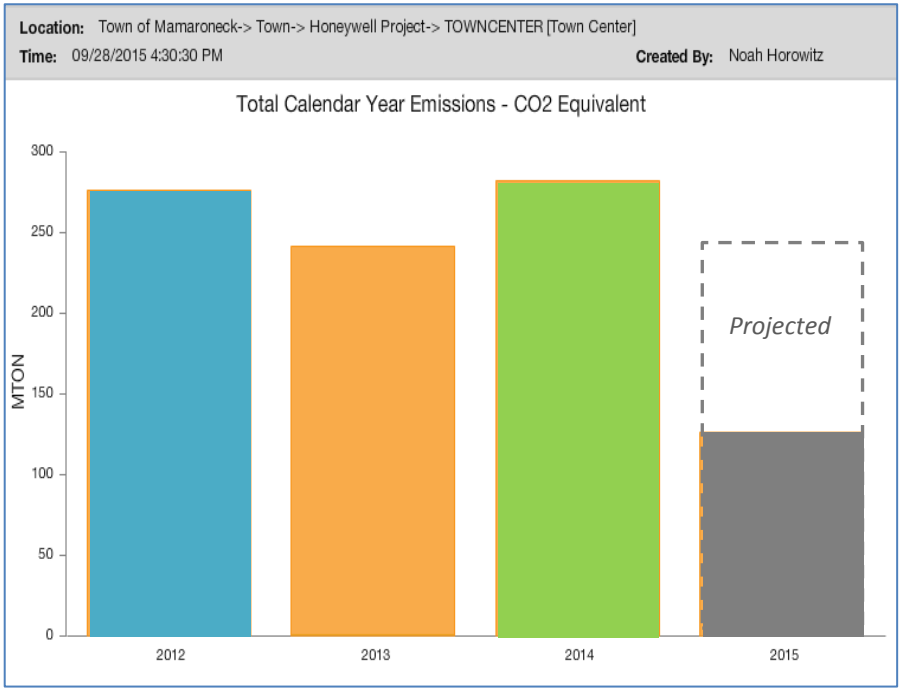




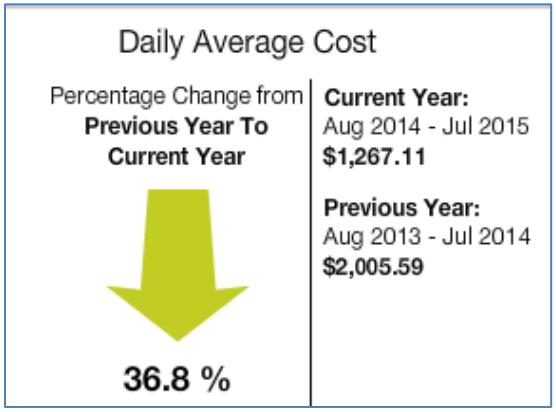
Emissions – *Town Center*

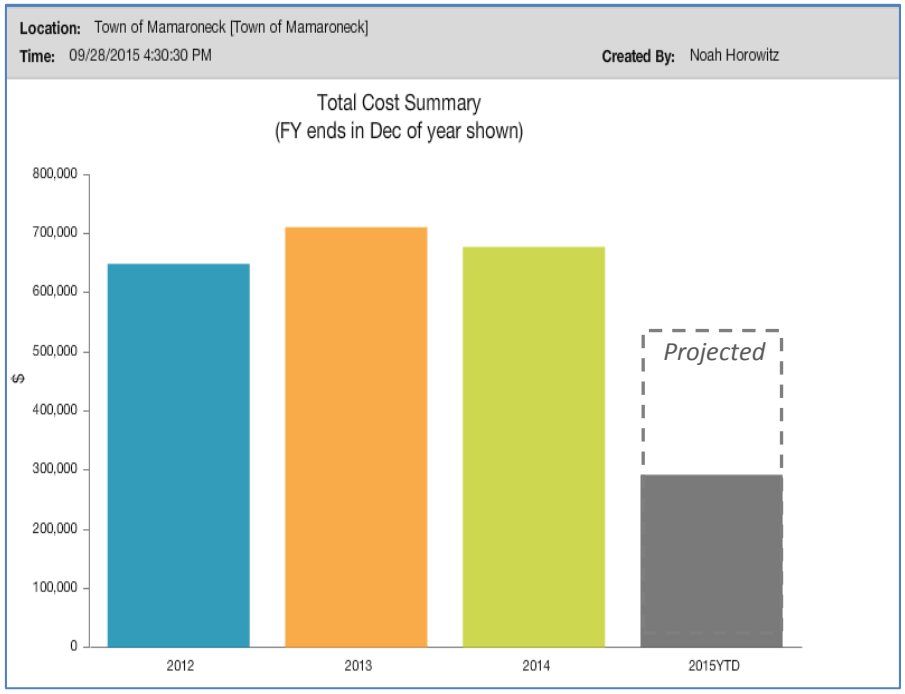


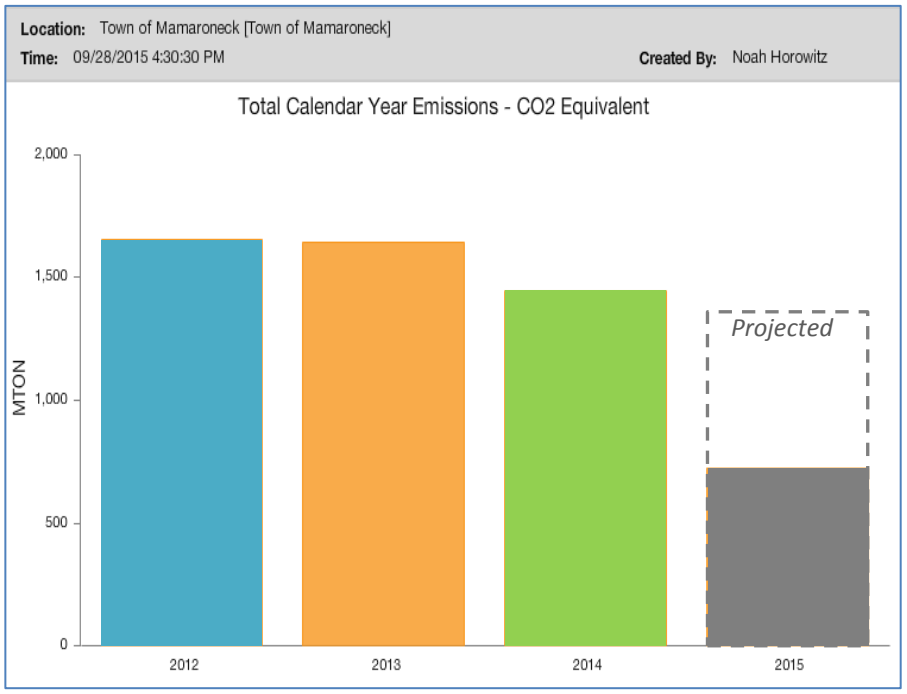




Emissions – *TOM Overall (Bldgs & Fleet)*







Break Time!

Town of Mamaroneck

SUSTAINABILITY Collaborative

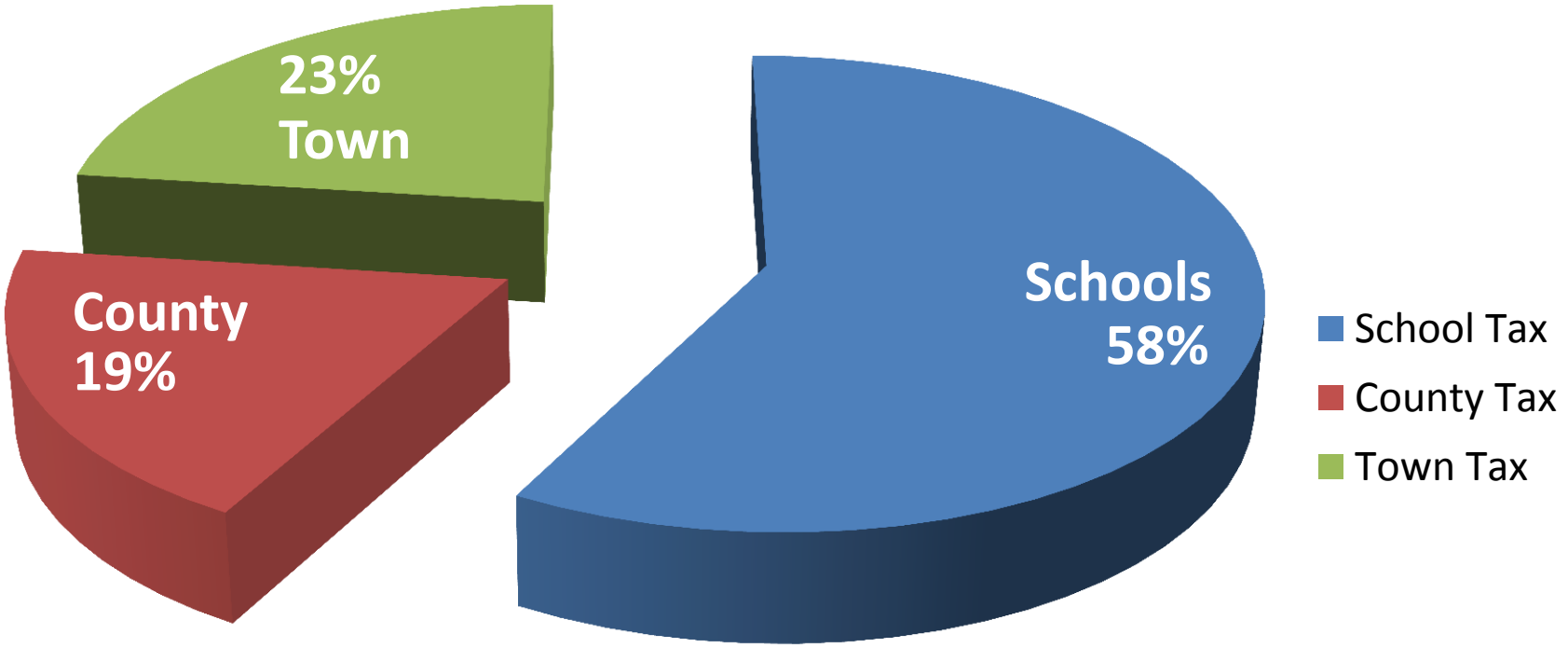
Part Two – ***User Fees vs. Taxes***

Improving the Sustainability & Efficiency of Town Services

- *Funding Local Government Services:*
  - *Real Estate Taxes…or User Fees*
- *User Fees:*
  - *Voluntary payments*
  - *Pay only for what you use*
  - *Fees designed to cover part, or all, of actual costs*
- *Why change from Taxes to User Fees?*
  - *Taxes are too high! For all of us!*

Apportionment of Property Taxes

Town of Mamaroneck (unincorporated area property)



User Fees - Characteristics

- *User Fees – three characteristics:*
  - *Separability, voluntarism, chargeability*

- *Example – Hommocks Ice Rink:*
  - *Costs easily separated from other Town services*
  - *Users easy to identify, activity is voluntary*
  - *Fees easily calculated and collected*

User Fees – Public Policy Advantages

- *User Fees can advance public policy – Resource Conservation:*

- *Examples:*
  - *Public water supply – individual metering & billing*
  - *Waste Collection fees – reduce TOM costs, increase recycling*
  - *Recreation classes – avoid subsidizing non-essential svcs*

Case Study – ***Sewer Usage Fees***

2014 Charrette	• Resilient Infrastructure
Plan Chapter	• **Resilience**

Town of Mamaroneck Sewer Rent Law

October 3, 2015

Sewer Rent Law

* On January 21, 2015 the Town Board adopted what is known as the Sewer Rent Law.

* The law permits the Town to establish a rent for use of the sanitary sewer system as an alternative funding mechanism to the ad valorem tax.

* The proceeds of the sewer rent fee must be dedicated to the operation and maintenance of the sanitary sewer system in the Town's unincorporated area.

Why a Sewer Rent vs. the Sewer District Tax?

* Sewer Rents are a fairer way of charging property owners for the use of the sanitary sewer system
* Sewer Rents reflect one's actual use of the sewer system by scaling the charge to water consumption. The property owner has control over the amount they will pay to use the Town's sewer system
* Sewer Rents are charged to all users, both taxable and tax-exempt
* Moving to sewer rent will lower the Town's tax levy

How will the sewer rent charge be billed?

* Sewer rent charges are added to your current water bill. The first bills to reflect the sewer rent were issued this month, September 2015

* Billing will be done in the unincorporated Town by the Westchester Joint Water Works.

How is the Sewer Rent Calculated ?

* Annually the Town Board will set the rate per gallon to establish the sewer rent for the year.
* The Town Board must hold a public hearing each year as part of the rate setting process.
* The rate is calculated by dividing the total revenue needed to operate the sewer system by the total water consumption for the unincorporated Town.

What about water consumed that does not enter the sewer system?

* Water that is used for irrigation or other outdoor purposes generally does not enter the sanitary sewer system.

* To account for that type of water consumption property owners are billed for only 90% of the water actually consumed. A 10% discount factor has been incorporated in the sewer rent law.

Sewer Rent Rate Calculation 2015

3,150 Billed water customers in the unincorporated Town

87 Properties are not connected to sanitary sewer system

3 Year Average Water Sales	**496.1 million gallons**
Deduct Properties not connected to System	**9.9 million gallons**
Subtotal	**486.2 million gallons**
Reduction for 90% of actual water consumed	**48.6 million gallons**
Net Water sales for Rate Calculation	**437.6 million gallons**

Sewer Rent Calculation 2015

* Net Water Consumption for Rate Calculation 437.6 million gal.

* Amount to be raised for Sewer District Budget $210,000

* Rate Calculation: Funds to be raised/ Net water consumption
  $210,000/ 437.6 million = $.00048/gallon

Expected Annual Costs Per Residential Sewer User

Estimated Sewer District Tax

* Average Residential Assessment $1,100,000
* Sewer District Budget $210,000
* 2015 Sewer District Tax Rate $.06/1,000 of assessed value
* ***Average District Tax =***
* ***$66.00***

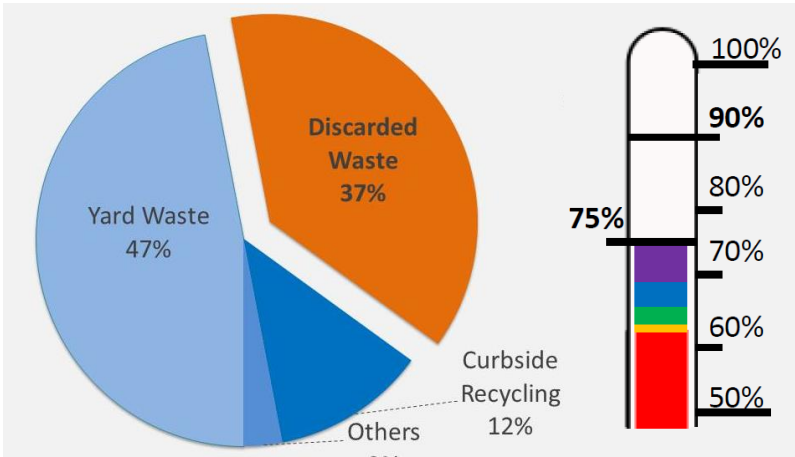
Estimated Sewer Rent

* Average Residential Water Consumption - 114,000 gallons
* 90% of Average = 102,600 gallons
* Sewer District Budget $210,000
* Sewer Rent Rate= $.00048 per gal.
* Estimated Rent = $.00048x 102,600
* ***Average Sewer Rent Bill=***
* ***$49.25***

Case Study – ***Pay-As-You-Throw***

2014 Charrette	• "Save tax dollars" • "Increase recycling and food composting"
Plan Chapter	• **Sustainability**
Challenge	• Become a Near-Zero Waste Community; currently 63%
Strategy	• Columbia University Masters in Sustainability Program Capstone Workshop subject – Fall 2014
Outcome	• 4 Recommendations, 12% increase in recycling % potential

Top Ten Priorities for 2015: Columbia Solid Waste Capstone Team visits Mamaroneck



COLUMBIA UNIVERSITY SUSTAINABILITY MANAGEMENT – CAPSTONE WORKSHOP

TOWN OF MAMARONECK

Top Ten Priorities for 2015: Columbia Solid Waste Capstone Team Visits Mamaroneck

ZERO WASTE

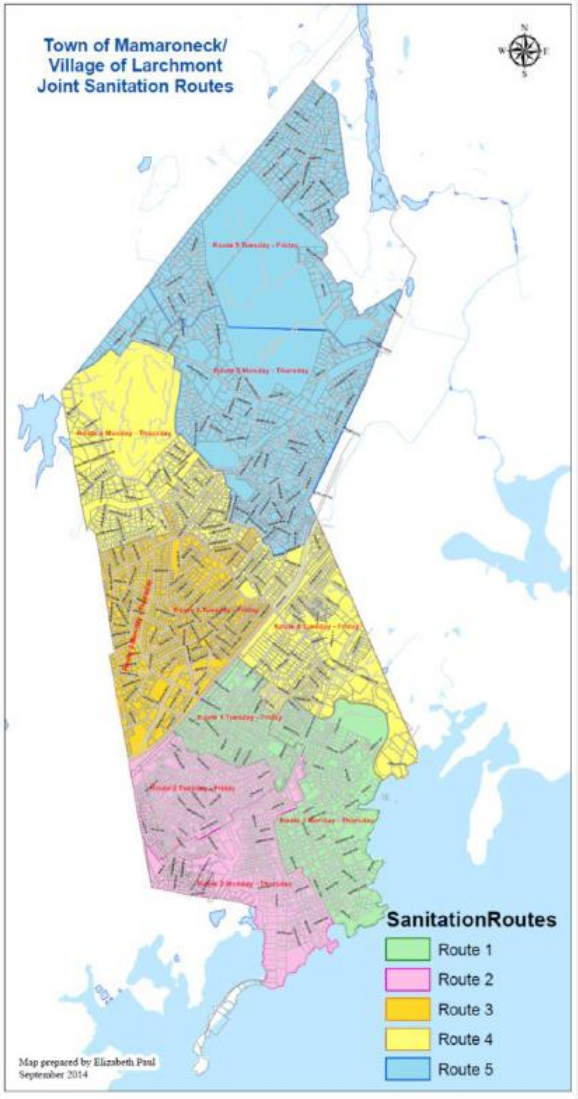
CLIENT The Town of Mamaroneck, Mitch Green, Steve Altieri

ADVISOR Susanne DesRoches

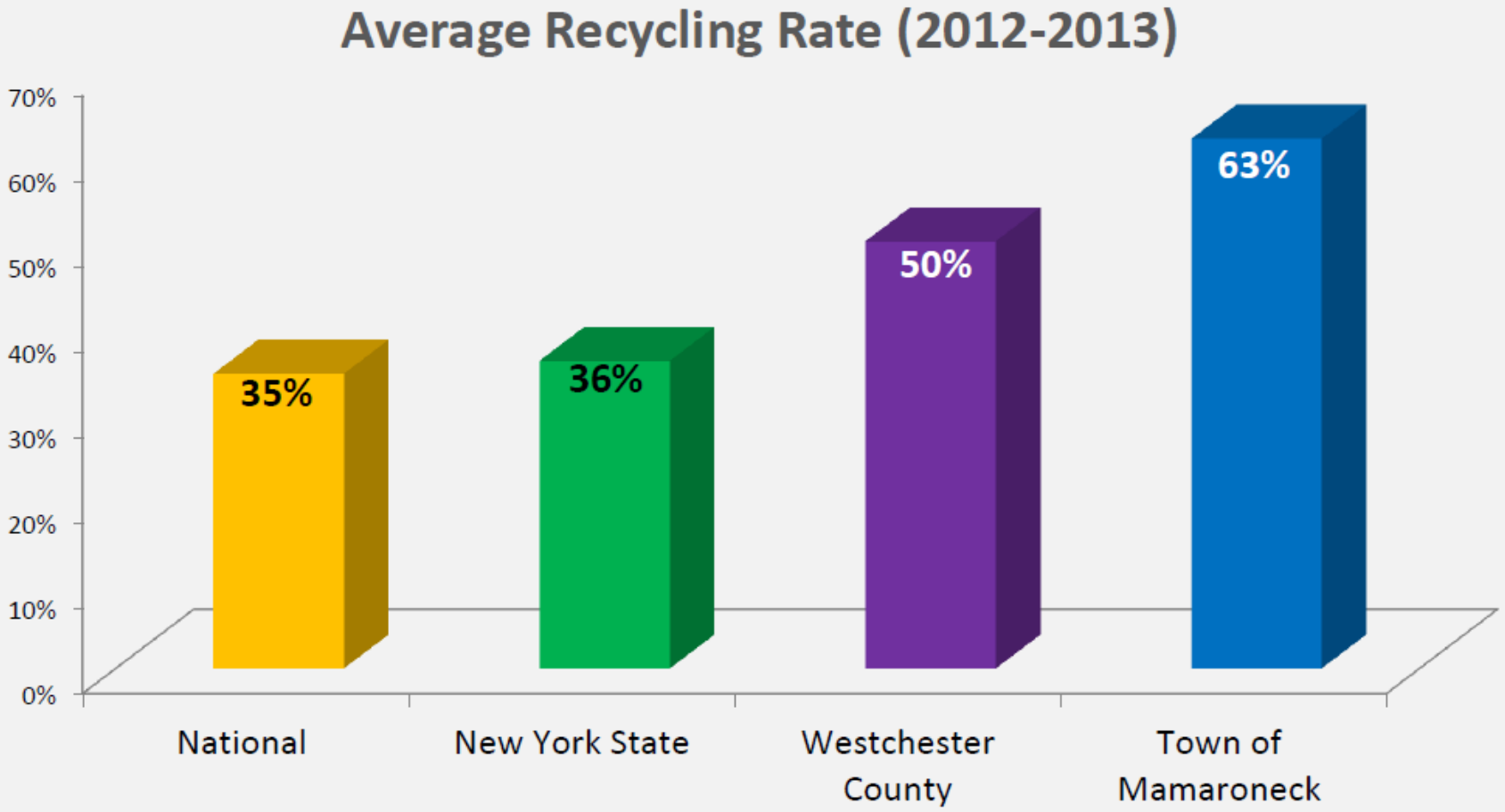
S. Kotorac, MJ. Burke, C. Cangelosi, K. Cheung, E. Levy, P. Mahadevan, T. Mohapatra, J. Ossman, M. Prasad, K. Stephens

LARCHMONT-MAMARONECK JOINT SANITATION COMMISSION

- High service level
  - Back-door pick-up
  - Separate recycling pick-ups
  - Bulk item pick-up
  - Yard waste pick-ups
- Annual Volume: 21,224 tons
- Annual Budget: $3.4 million
- Paid for through Real Estate Tax
- Annual Tax Burden: $605 per family (based on $1.1 million avg home value)

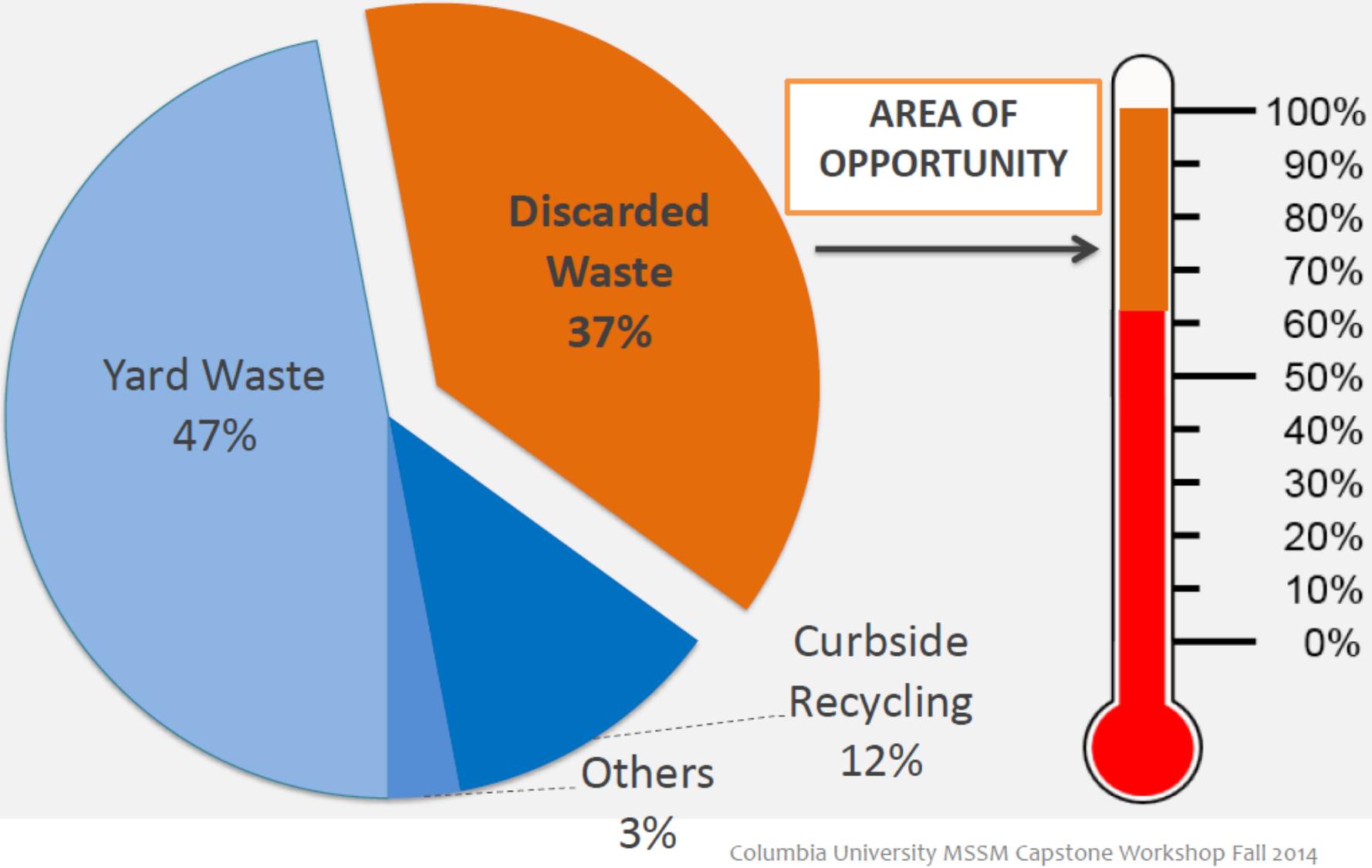


MAMARONECK TODAY



Goal: achieve 90% without increasing financial cost

NEAR ZERO WASTE CHALLENGE & OPPORTUNITY



INTRODUCTION WASTE COLLECTION - IMPACTS

Cost of disposal

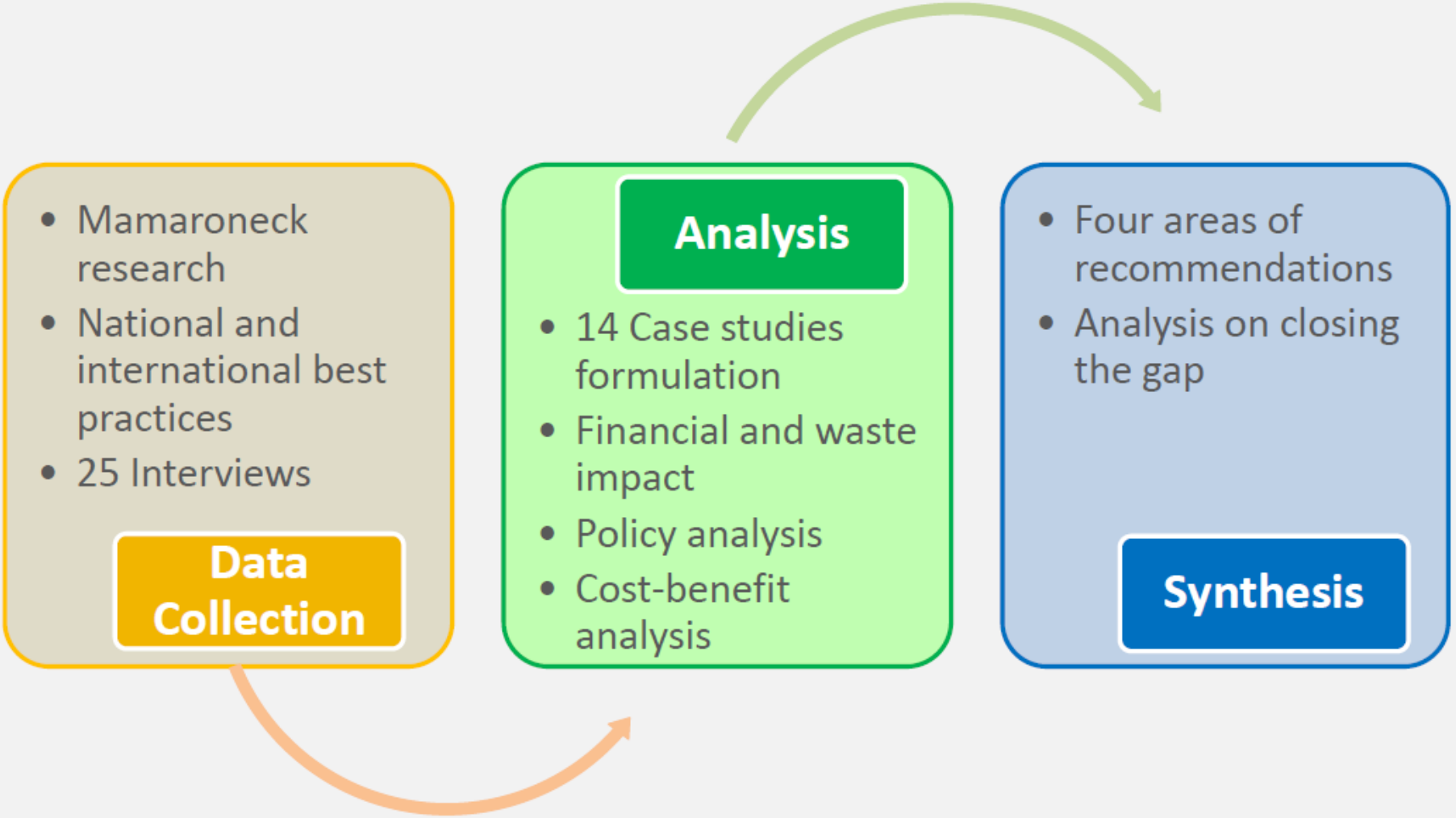
Roadway Wear & Tear

Pollution

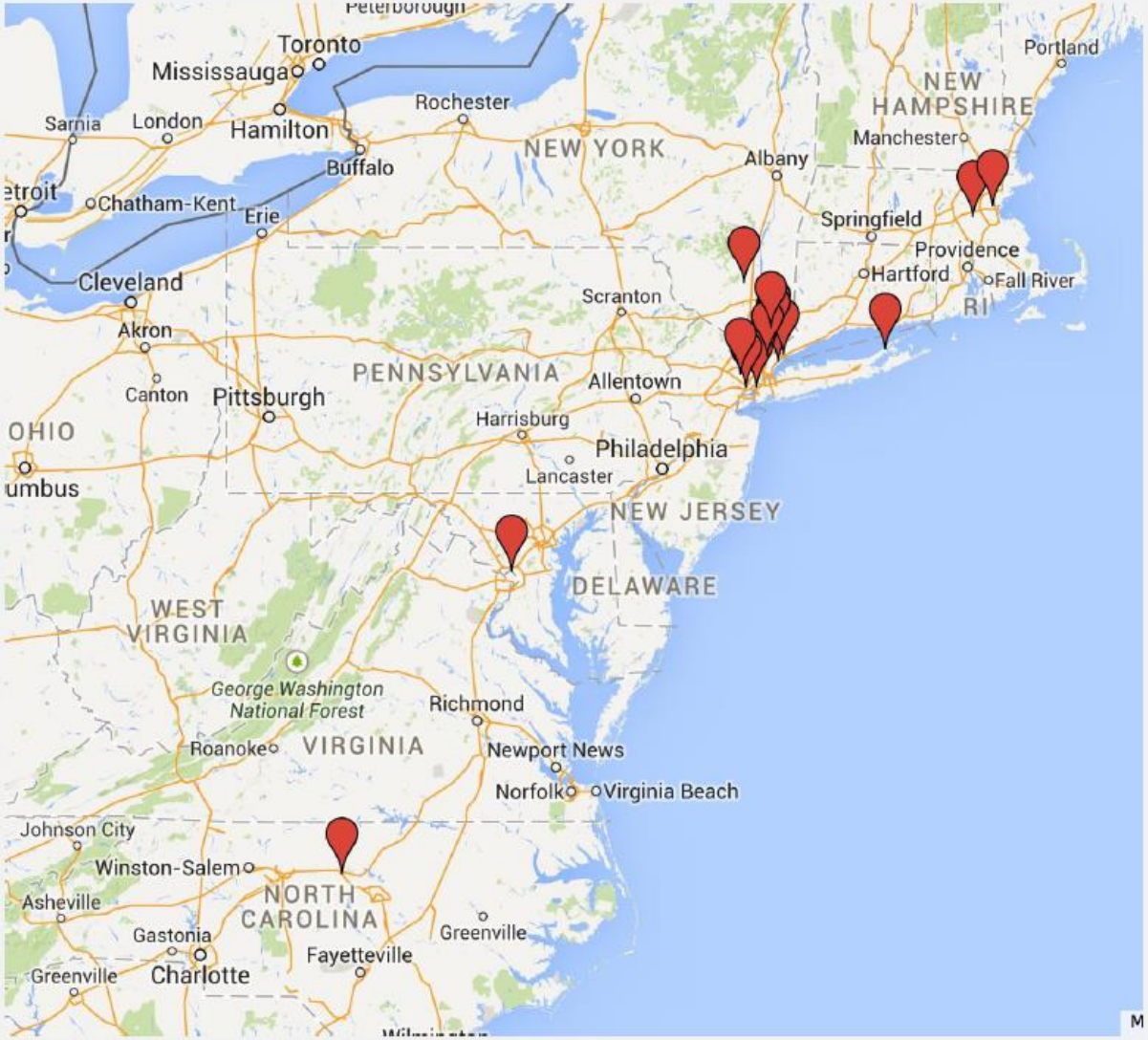
GHG emissions

Sustainability

PROCESS COLUMBIA CAPSTONE TEAM



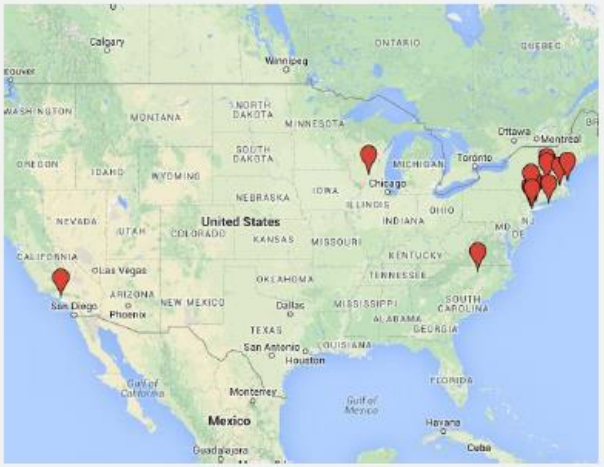
PROCESS 25 INTERVIEWS + 14 CASE STUDIES



List of interviews

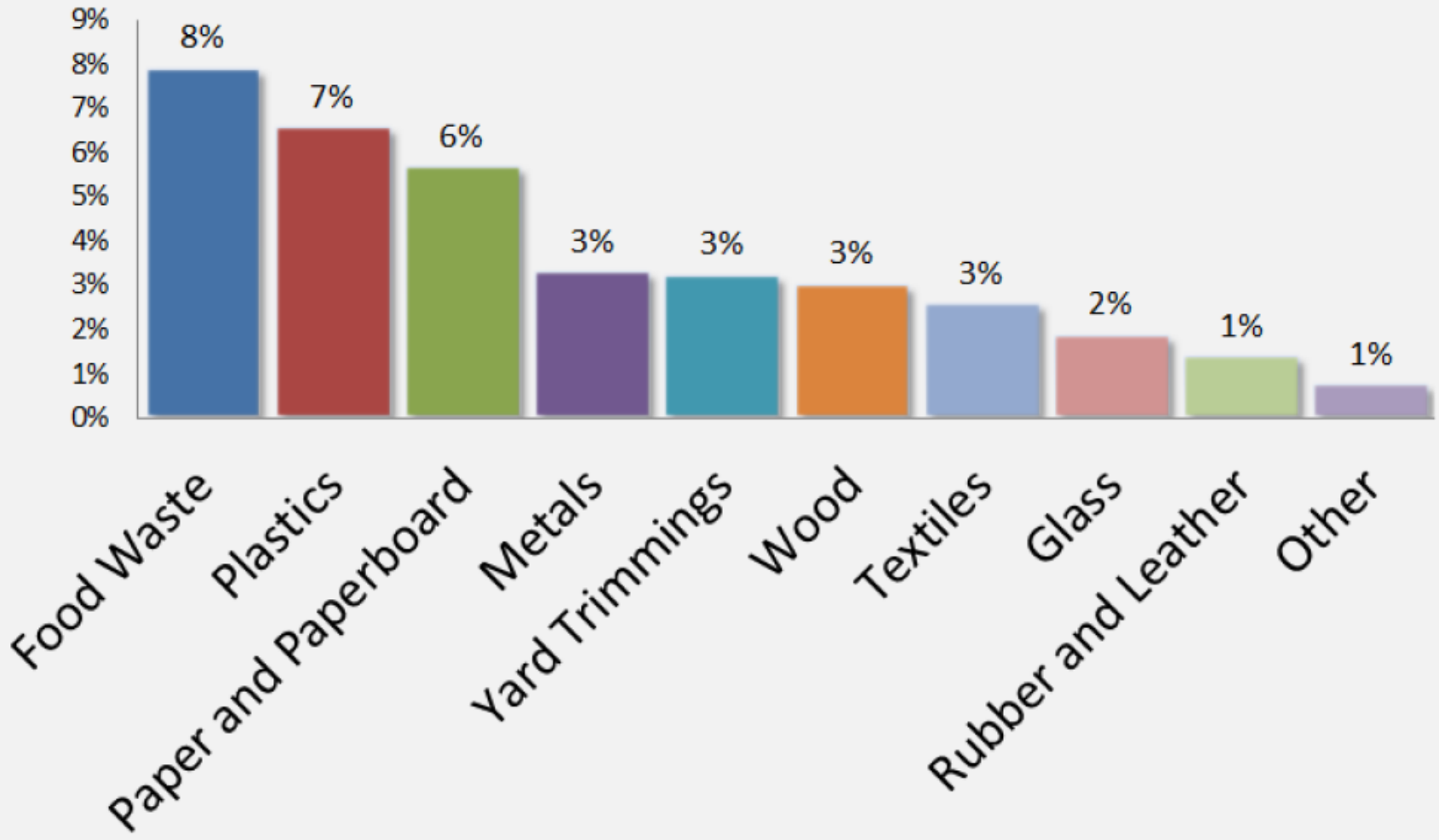
Southold, NY
Natick, MA
Westchester Cty, NY
Hastings, NY
New Castle, NY
Orange County, NC
Capannori, Italy
New York, NY
Rye Brook, NY
Mamaroneck, NY
Mount Pleasant, NY
Yorktown, NY
Cambridge, MA
Montclair, NJ
Takoma Park, MD
Gardiner, NY

Case Studies



Can doing better save **money** and lower **taxes**?

ANALYSIS DISCARDED WASTE REDUCTION OPPORTUNITIES

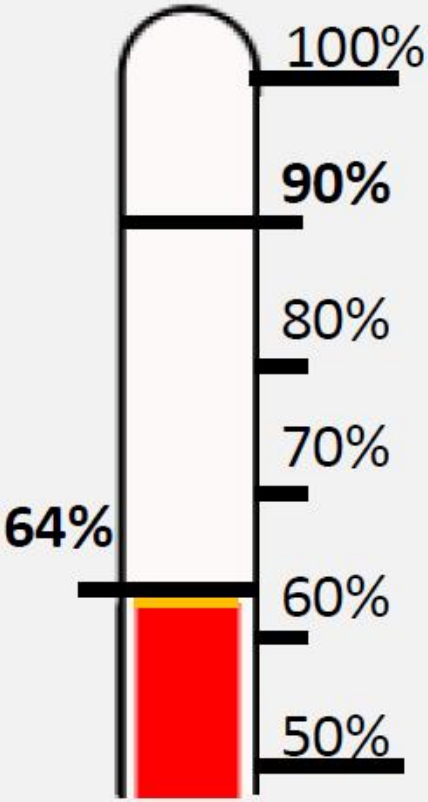


RECOMMENDATION 1 - TEXTILE RECYCLING

- Textile collection bins
- Carpet collection

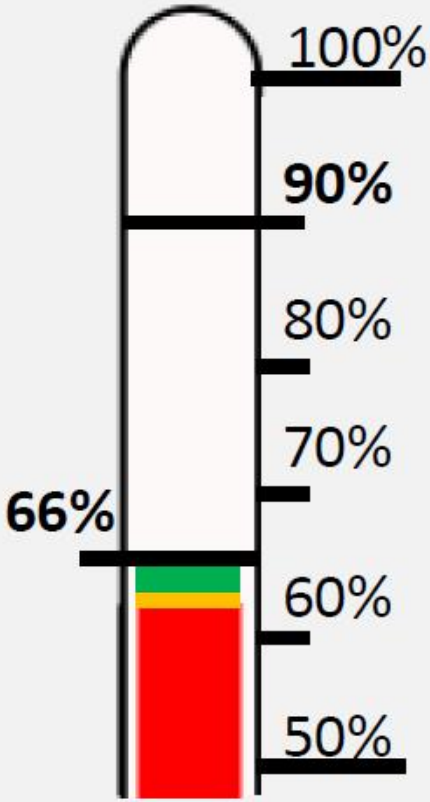
= Disposed Waste Reduction: 1%

= $143,000 revenue over 5 years



RECOMMENDATION 2 - **FOOD WASTE**

- **Backyard composting**
- **Residential drop-off**
- **School Food Waste program**

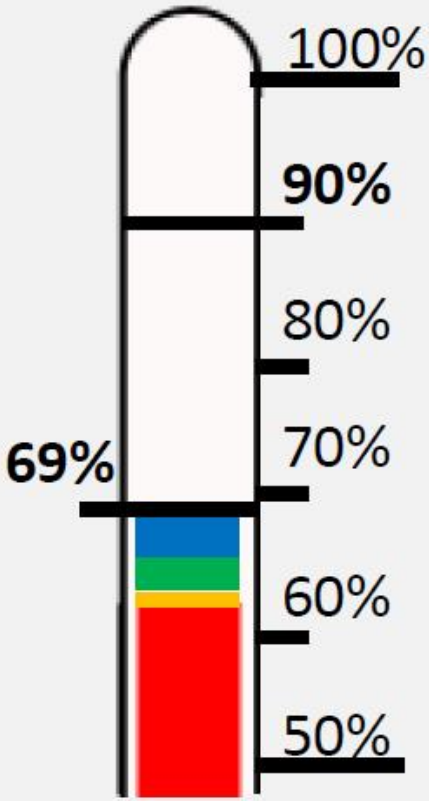


= **Disposed Waste Reduction: 2%**

= **- $310,000 revenue over 5 years**

RECOMMENDATION 3 - IMPROVE EXISTING PROGRAMS

- Recycling in multi-family
- "Oops" stickers



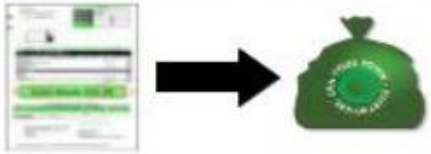
= Disposed Waste Reduction: 3%

= $41,000 revenue over 5 years

RECOMMENDATION 4 - **PAY-AS-YOU-THROW**

Resident Perspective

1. Solid waste funding shifts from flat fee to variable rate (payment per bag)



Fair

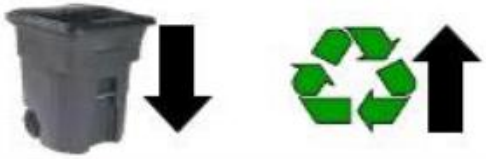
2. Pay-as-you-throw bags purchased at local retail stores

Convenient

3. Pay-as-you-throw bags used for disposal (in city's existing collection system—automated carts, barrels, or bags at curb)

Easy

4. Waste decreases and recycling increases



Effective

PAY-AS-YOU-THROW NATIONAL PRACTICE

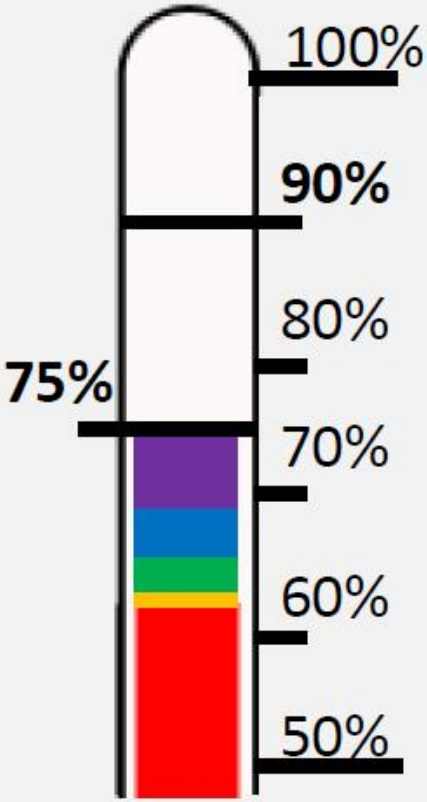
- 100 PAYT programs starting in the 1980's
- 7,095 PAYT Communities Nationally (26.3%)
- 445 PAYT Communities in NYS (42.4%)
- Vermont – state-wide PAYT in 2018

PAY-AS-YOU-THROW CASE STUDIES

Southold, NY	Natick, MA	Gloucester, MA
• 1993 • 29% decrease in disposed solid waste	• 2003 • 40% decrease in disposed solid waste	• 1990/2009 • 28% decrease in disposed solid waste

PAY-AS-YOU-THROW IMPACTS

- Volume-based bag system
- Paid for through bag sale revenue



= Disposed Waste Reduction: 6%

= $4,300,000

Case Study – ***Green Infrastructure***

2014 Charrette

- "repair and replace our aging infrastructure"
- "improve the resilience of our infrastructure"
- "make our infrastructure better able to handle extreme weather"

Plan Chapter

- **Resilience**

Buried, Forgotten, but SO Important

Sewer Laterals, flooding and fixing (paying for) the problem

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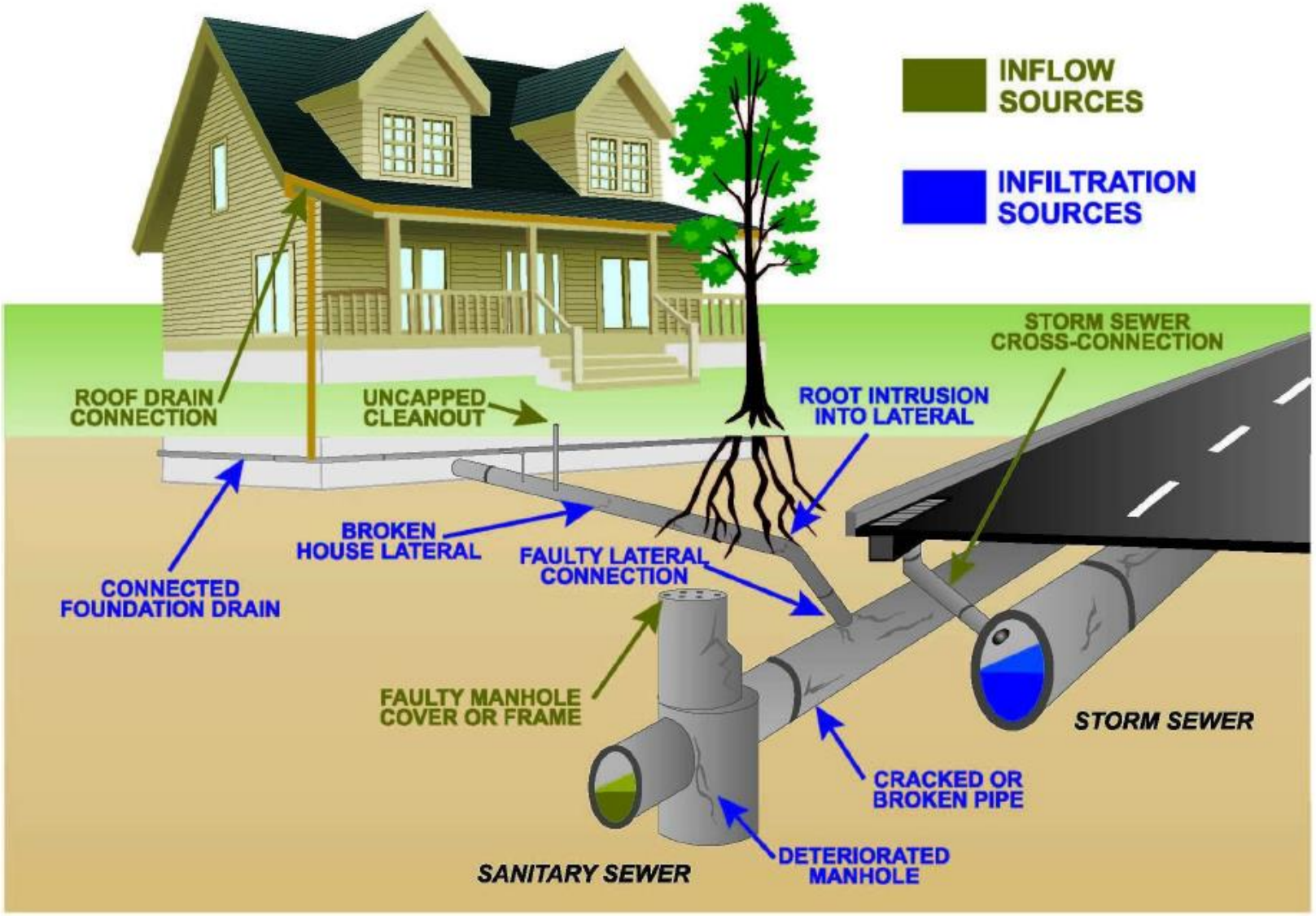
Khris Dodson, Associate Director
Environmental Finance Center



One or more of these are likely occurring while we speak...and while you flush

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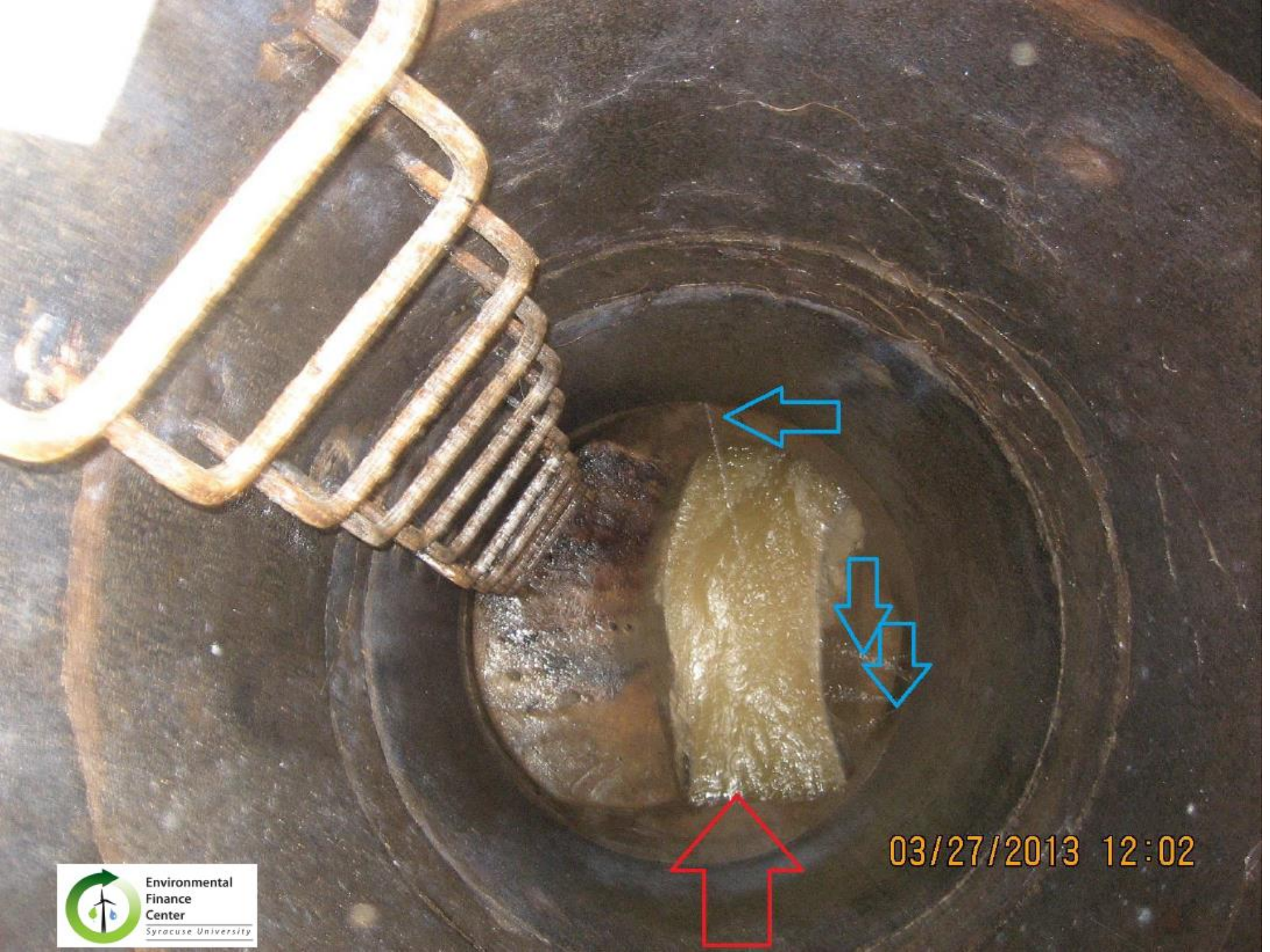
This is not a ride at your local water park!



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And you wonder why the grass in the front yard is so much greener!

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Sewer Laterals and Ground Water

- 85%* of sanitary overflows are due to broken pipes!
- On average, nationally 50% if I/I is in 'public' pipes—50% is in private laterals
- Infiltration & Inflow (I/I) can be anywhere from 10% -75% of system capacity*—depending on weather!

*2013 Water Environment Foundation national data: wef.org/

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Impacts - Sewage Systems & Treatment Plants

- Increased capital costs and Operation & Maintenance costs (O&M)
- Decreased treatment capability, possibly requiring additional capital expenditures.
- Increased pumping costs
- Backups and overflows
- Reduced capacity available for new development

Costs to Taxpayers & Quality of Life

Unanticipated costs:

- Overtime
- Damaged infrastructure
- Etc.

Quality of life costs:

- Flooding
- Traffic
- Stress
- Time
- Property values
- "Ick" factor

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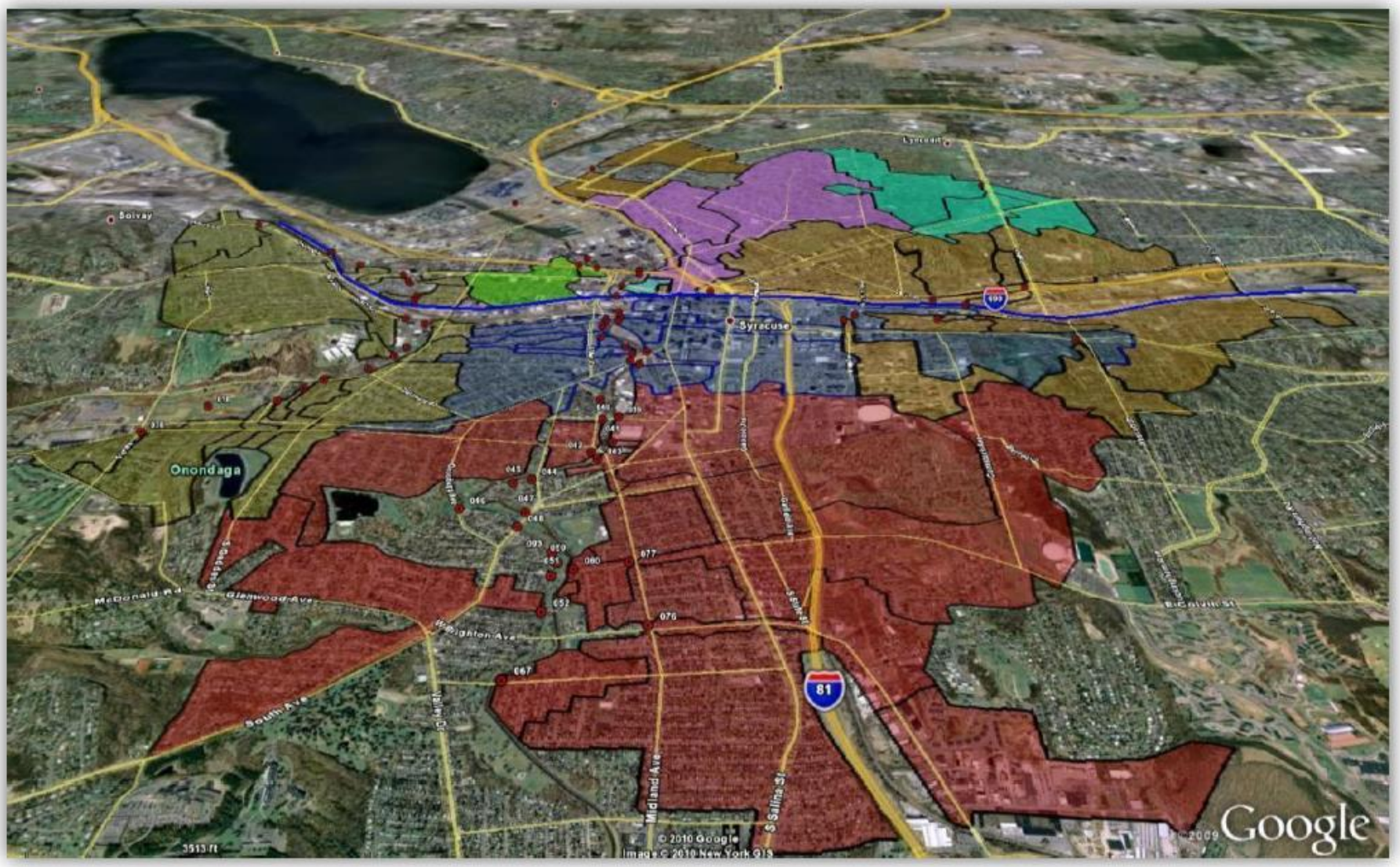
The Syracuse Story



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Traditional Solutions…Costs & Disruption

Conveyance project causing significant disruption in neighborhood

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Systems overwhelmed

Flooding…Disruption, lost Productivity

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30 Minutes, 2” of Rain, $50 Million in damage…

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"There has to be a better way to clean the lake!"

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OK, OK. Got it. So what can we do?

- Divert stormwater: green infrastructure
  (Syracuse; NYC; Philadelphia)
- Disconnect sump pumps & downspouts
  (Town of Mamaroneck; Hartford, CT; Billerica, MA)
  - Nefarious: perforated laterals to drain yards
    (Onondaga County, NY)
- Inspect private laterals
  (Town of Mamaroneck, everywhere!)
- Offer financing (or directly pay for) repair/replacement
  (Hartford, CT; Marin County)

Types of Green Infrastructure

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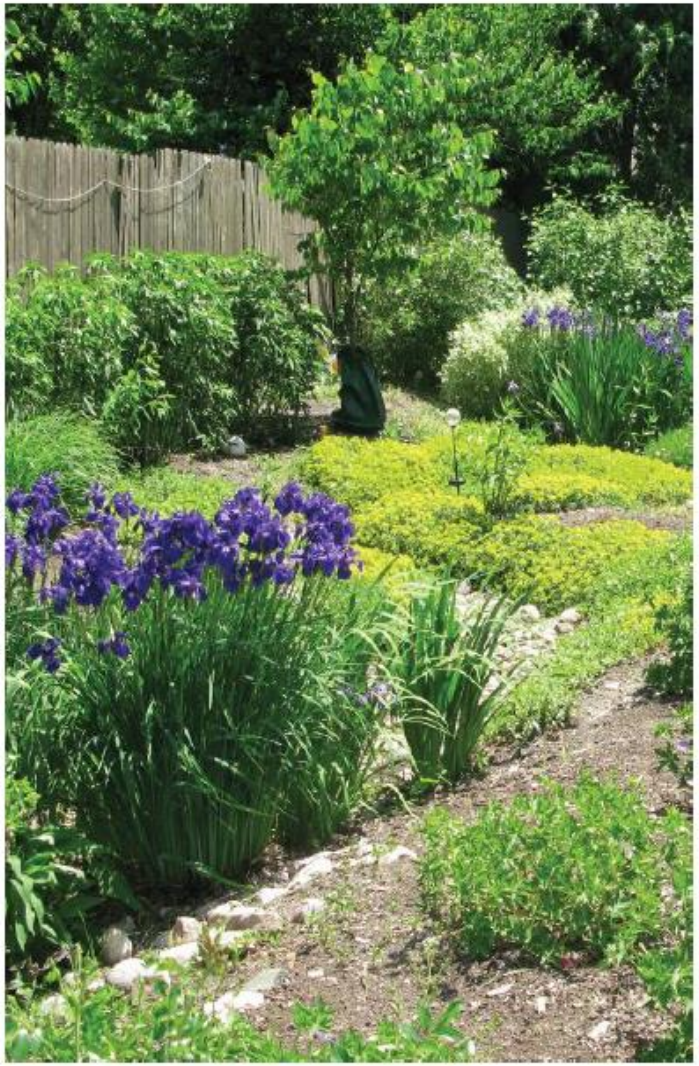
Green Infrastructure Case Study – *Hartford, CT*

- 70% of roofs connected to sanitary sewer
- Roofs account for 43% of impervious area contributing run-off to sewer.
- All private clean water sources disconnected from sanitary sewer.
- Water directed to rain gardens, etc.



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We need to solve the problem…How to Pay?

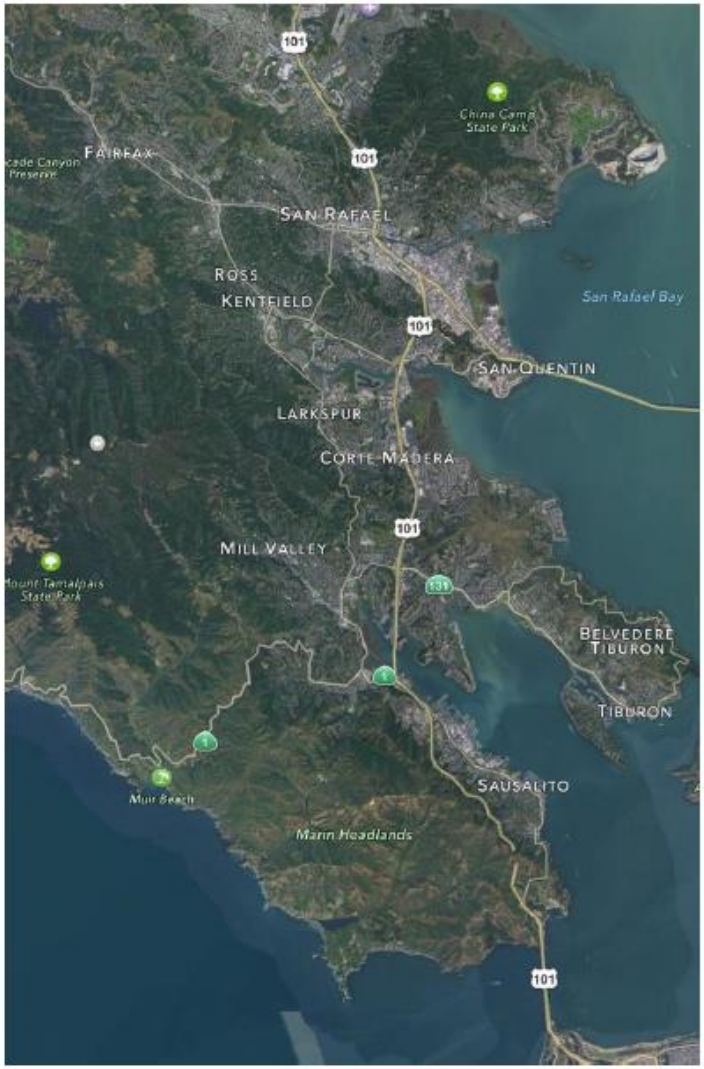
- Grants for Green Infrastructure
  (Town of Mamaroneck $150K NYS Grant, NYS, Syracuse)
- Grants of Low/no-interest loans from municipality for private repair/replacement
  (Marin County, CA)
- Utility repairs/replacements and adds to taxes
  (think sidewalks)
- Public utility replace private laterals as they repair/replace mains

Laterals – When to require inspections?

- Point of Sale
  (everywhere!)
- Pre-condition for an application of building permit
  (Buffalo, Boston, Marin County)
- Application for a certificate of occupancy for a new building
  (many places)
- Change in property use from residential to commercial or vice versa
  (a few communities, particularly in California)

Laterals Case Study 1 – *Marin County, CA*

- Marin County modified code in 2003 to allow for full lateral rehabilitation during mainline rehabilitation projects.
- The code also allows for requirement for testing and replacement of all private laterals
- All laterals and sewers will be lined or replaced within 40 years.



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Laterals Case Study 2 – *Tamalpais District*

- Tamalpais Community Services District Private Sewer Line Lateral Improvement program since 2004
- Provides low interest loans for sewer rehabilitation in targeted areas
- The first area has achieved about an 80% repair rate and is now moving to another key area by starting with $25,700 in lateral inspections.

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Laterals Case Study 3 – *Southern Marin*

- $600,000 program to provide grants & loans for lateral repair & replacement.
- Sausalito implementing a lateral repair grant program; property owners reimbursed lateral inspection cost and receive a grant of up to $1,000 to offset lateral repair cost .
- Soon offering lateral repair, low-interest loans (think sidewalk replacements)

Sewer Lateral Ordinance

Looking to protect the long-term integrity and safety of the sewer system in the City of Mill Valley, the Mill Valley City Council adopted an ordinance at its March 2, 2015 meeting amending Section 17.04.270 of the Mill Valley Municipal Code and requiring inspection of private sewer laterals, in four instances.

Click here for more information on the Ordinance

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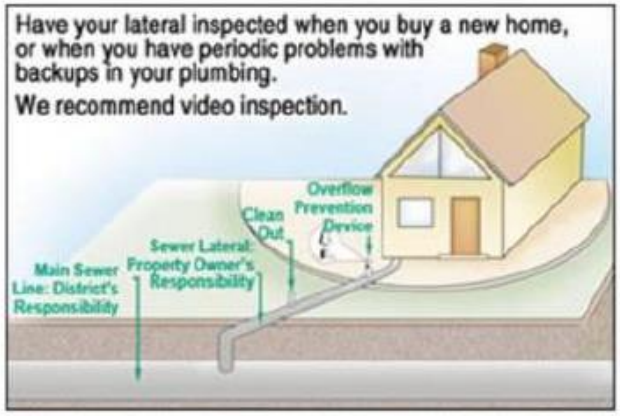
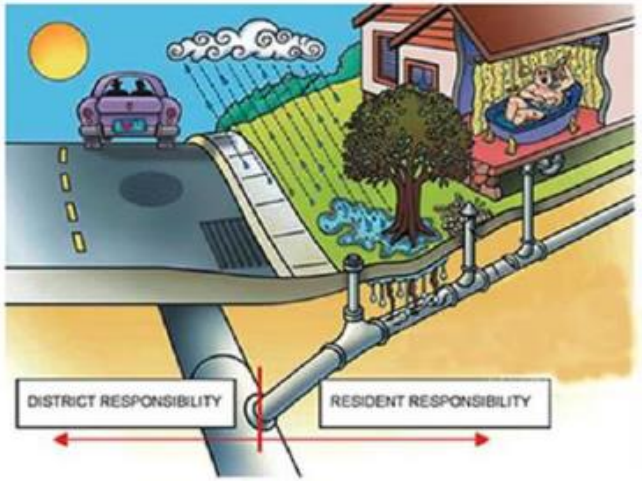
Laterals Case Study 4 – *Ross Valley*

- Ross Valley Sanitary District replaces lower laterals with mainlines and is implementing Lateral Replacement Grant Program (LGRP).
- The program grants qualifying applicants either half of the replacement costs or up to $4,000, whichever is the lesser.
- Requires video inspection, needs-based and first-come/first-serve basis.





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From a community member…

- *"I think this is a great idea and hope that you will pursue mandating the inspection. It is a health and safety issue and even though it has been an expense to me in the past, I think it is the right thing to do."*

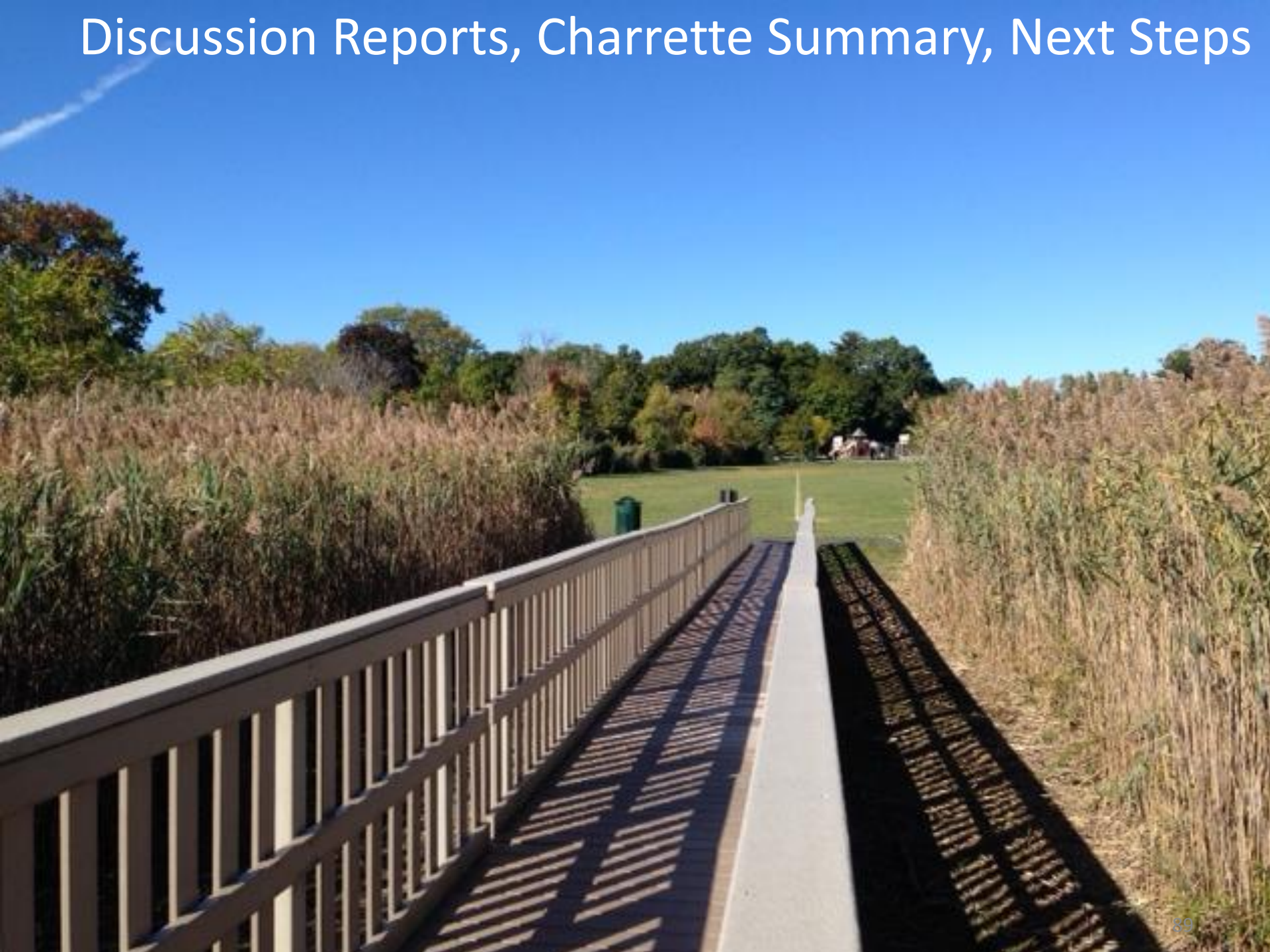
Participant Discussion & Feedback

- ***Renewable Energy / Resilient Infrastructure***
- ***Walk-able, Bike-able Community***
- ***Air & Noise Pollution***
- ***Reducing Emissions***

- ***User Fees vs. Taxes***

- ***Sewer Usage Fee***
- ***Pay-as-You-Throw***
- ***Green Infrastructure / Sewer Laterals***

Discussion Reports, Charrette Summary, Next Steps




Closing & Thank You!


Resilience, Sustainability & Quality of Life:
2015 Community Charrette
Town of Mamaroneck