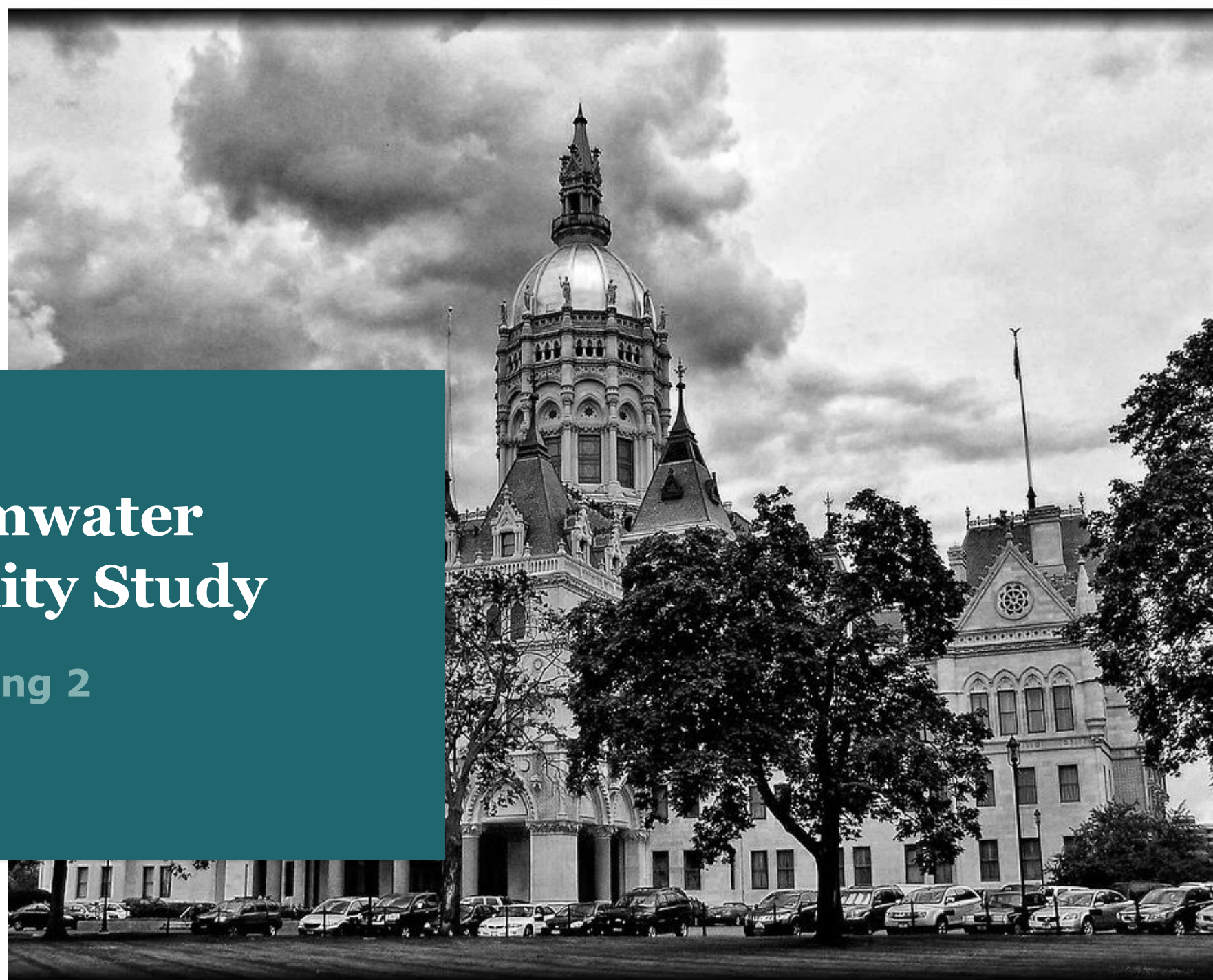




# Regional Stormwater Utility Feasibility Study

Advisory Group Meeting 2

May 8, 2025



# Agenda

Program Interview Results

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Regionalization Workshop

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Engagement Plan Update

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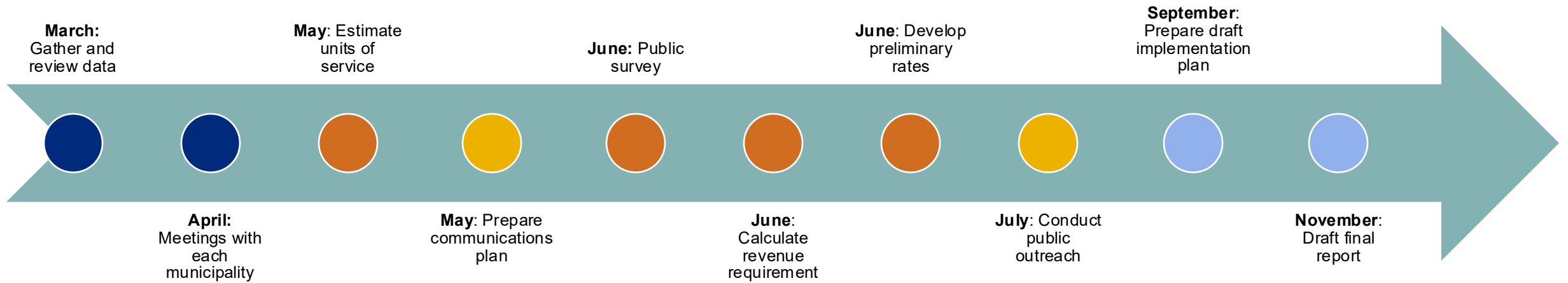
Financial Model Update

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Open Discussion



# Timeline



## Key

- Program Evaluation
- Financial Analysis
- Communications
- Plans and Reports

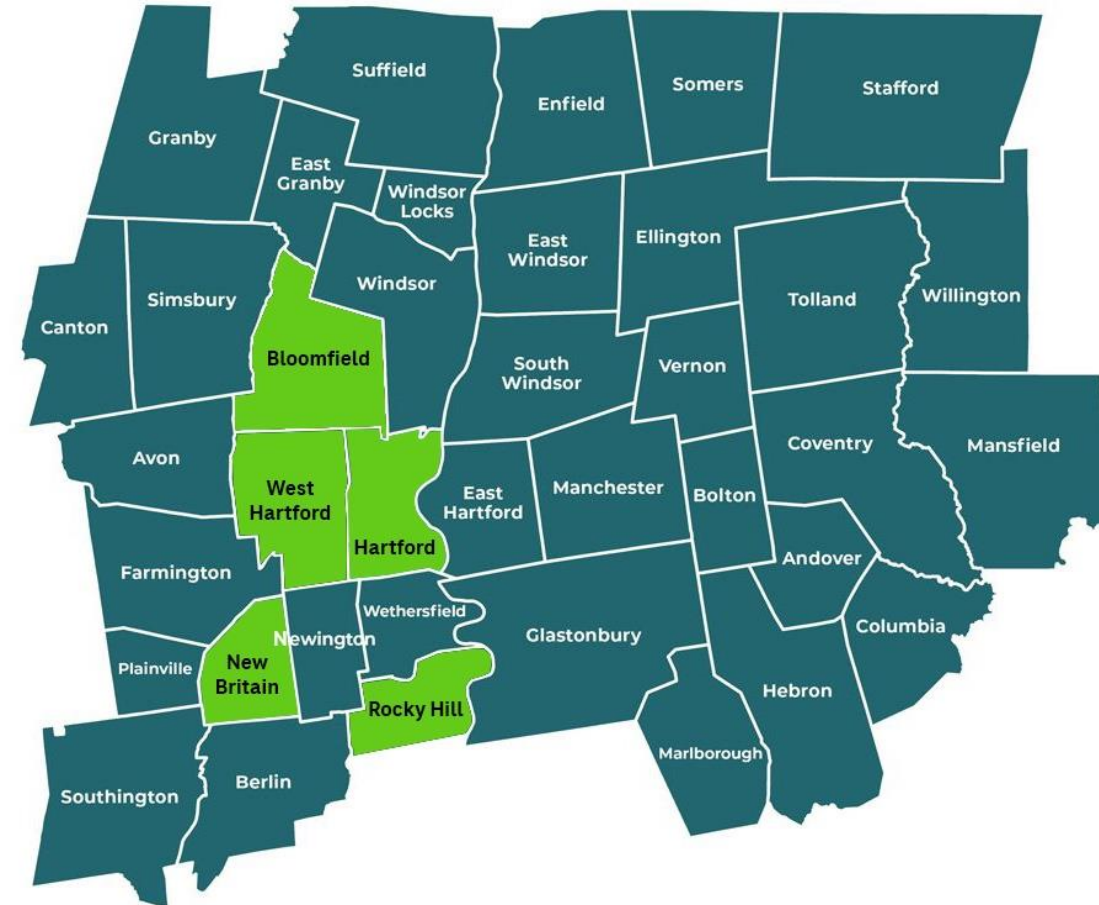
# Program Interview Results



# Project Approach – Existing Conditions

## Five municipalities studied individually

- Document Review:
  - MS4 Stormwater Management Plan
  - MS4 Annual Report
  - GIS data
  - CT DEEP stormwater audits
  - Stormwater Capital Improvement Projects (CIP) Plan
  - Flooding studies
- Development of a Stormwater Checklist
- Interviews with municipalities
- Development of existing budgets
- Existing Conditions Analysis Technical Memorandum



# Existing Conditions – Evaluation

<b>PROGRAM MANAGEMENT</b>	<b>REGULATORY COMPLIANCE</b>
<ul style="list-style-type: none"><li>• Master planning</li><li>• Complaint response</li><li>• Development review</li></ul>	<ul style="list-style-type: none"><li>• MS4 Permit requirements (6 minimum control measures)</li><li>• TMDL compliance</li></ul>
<b>OPERATIONS AND MAINTENANCE</b>	<b>CAPITAL IMPROVEMENT PROJECTS</b>
<ul style="list-style-type: none"><li>• Street sweeping</li><li>• Catchbasin and pipe cleaning</li></ul>	<ul style="list-style-type: none"><li>• System upgrades &amp; replacement</li><li>• Stormwater flooding studies</li></ul>

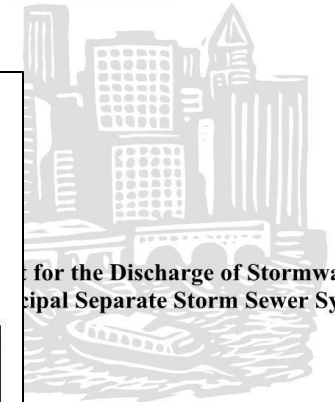
# Existing Conditions

- Regulatory Compliance
- Stormwater Operation and Maintenance
- Stormwater CIP Plan
- Program Management

**Stormwater Checklist summarized the results**



Connecticut Department of Energy & Environmental Protection  
Bureau of Materials Management & Compliance Assurance  
Water Permitting & Enforcement Division



for the Discharge of Stormwater from Municipal Separate Storm Sewer Systems

Issued: January 20, 2016

Effective: July 1, 2017

Expires: June 30, 2022

**CRCOG Stormwater Authority Feasibility Study  
Stormwater System Program Self-Assessment Checklist**

Municipality: Bloomfield, CT Date: April 10, 2025

Staff Interviewed: Darin Lemire and Robert Trotter

**I. General Information – Stormwater System Description**

I	Question	Response
1	Identify the number of people currently served by your stormwater system.	Town population estimated 21,535, circa 2020 census.
2	Provide information on stormwater assets, status of condition assessments and extent of mapping of assets: <ul style="list-style-type: none"> <li>• Manholes</li> <li>• CB's</li> <li>• Outfalls</li> <li>• Interconnections</li> <li>• Culverts</li> <li>• Detention ponds</li> <li>• Channels</li> <li>• Storage facilities</li> <li>• Municipal BMP's</li> <li>• Ponds</li> <li>• Private facilities</li> <li>• Storm drains (length)</li> <li>• Pump stations</li> </ul>	<ul style="list-style-type: none"> <li>• CB's: 3,075-3,175* (90 catch basins discharge to impaired waters)</li> <li>• Outfalls: 357</li> <li>• Interconnections: 9</li> <li>• Detention ponds: 22</li> <li>• Storage facilities: Sediment tanks: 51</li> </ul>
3a	Outfall/Interconnection Inventory Assessment <ul style="list-style-type: none"> <li>• Size and Location</li> <li>• Where is inventory maintained (GIS)</li> <li>• Outfall Screening status</li> </ul>	
3b	What is the age of your stormwater system and your sewer system (e.g., percentage over 100, 75, 50, 30, etc. years old)?	

## Six Minimum Control Measures (MCM):

- Public education and outreach
  - Public involvement/participation
  - Illicit discharge detection & elimination
  - Construction site stormwater runoff control
  - Post-construction stormwater management
  - Pollution prevention/good housekeeping
- Wet Weather Monitoring

# Compliance Ranking

## Proactive

- Performing all MCM requirements and within the schedule identified in the SMP

## Average

- Performing the majority of the MCM requirements (typically miss 1-2 requirements) close to the schedule identified in the SMP

## Below Average

- Performing some of the MCM requirements (typically miss 3-4 requirements) and missing the SMP schedule

## Poor

- Minimal effort or not performing any BMPs in the respective MCM

# Existing Conditions - Costs

Define each municipalities' costs

- Stormwater budgets
- Actual expenditures
- Stormwater capital improvement projects
- Annual operation and maintenance
- Employee salaries and percentage of work on stormwater activities
- Perceived gap

**Attachment 1**  
**Capitol Region COG Stormwater Authority Study**  
**City of New Britain Cost Summary**

Salaries	Budgeted Value (FY2026 Proposed)	Percent Stormwater	Stormwater Budget Value
Streets and Highway	\$1,222,667	33%	\$403,480
Engineering	\$895,874	33%	\$295,638
Fleet	\$2,252,703	33%	\$743,392
Public Works Admin	\$178,124	33%	\$58,781
<b>Total</b>			<b>\$1,501,291</b>

Materials/O&M	Budgeted Value (FY26 Budget)	Percent Stormwater	Stormwater Budget Value
Equipment and Vehicle Maintenance	\$88,200	33%	\$29,106
Materials	\$200,000	33%	\$66,000
Stormwater Infrastructure Maintenance	\$67,535	100%	\$67,535
Clean Water Fund Projects Management	\$799,535	100%	\$799,535
CB Cleaning Contractor	\$750,000	100%	\$750,000
Trench Repairs	\$225,000	33%	\$74,250
<b>Total</b>			<b>\$1,786,426</b>

Gap	Value	Percent Stormwater	Stormwater Value
2 Public Works Employees	\$26,262	33%	\$8,666
City Engineer	\$109,227	33%	\$36,045
1 Clerical Employee	\$122,965	33%	\$40,578
<b>Total</b>			<b>\$85,290</b>

Purpose	Current Stormwater Budget Value	Future Stormwater Budget Value
Salaries	\$1,501,291	\$1,501,291
Materials/O&M	\$1,786,426	\$1,786,426
Gap	\$0	\$85,290
<b>Total</b>	<b>\$3,287,717</b>	<b>\$3,373,007</b>

# Bloomfield

- Evaluated MS4 program based on Annual Report
- Overall Rating - Average

## MS4 Permit Compliance

Control Measure	Compliance
1 - Public Education and Outreach	Proactive
2 - Public Participation and Involvement	Proactive
3 - Illicit Discharge Detection and Elimination	Average
4 - Construction Site Stormwater Runoff Control	Average
5 - Post Construction Stormwater Management	Average
6 - Pollution Prevention/Good Housekeeping	Below Average
Outfall Monitoring	Below Average
Summary/Total	Average

Existing Conditions Analysis – CRCOG  
 April 27, 2025  
 Page 4

### MCM 5 – Post Construction Stormwater Management

To satisfy the Post Construction Stormwater Management requirements in MCM 5, the Town of Bloomfield agreed to perform the following BMPs

- Establish or update legal authority and guidelines regarding LID and runoff reduction in site development planning
- Implement long-term maintenance plan for stormwater basins and treatment structures
- Directly Connected Impervious Area (DCIA) mapping
- Address post-construction issues in areas with pollutants of concern

The municipality implements the LID components of this MCM, however, the DCIA mapping components are in progress and behind schedule.

Rating: Average

### MCM 6 – Pollution Prevention/Good Housekeeping

To satisfy the Pollution Prevention and Good Housekeeping requirements in MCM 6, the Town of Bloomfield agreed to perform the following BMPs.

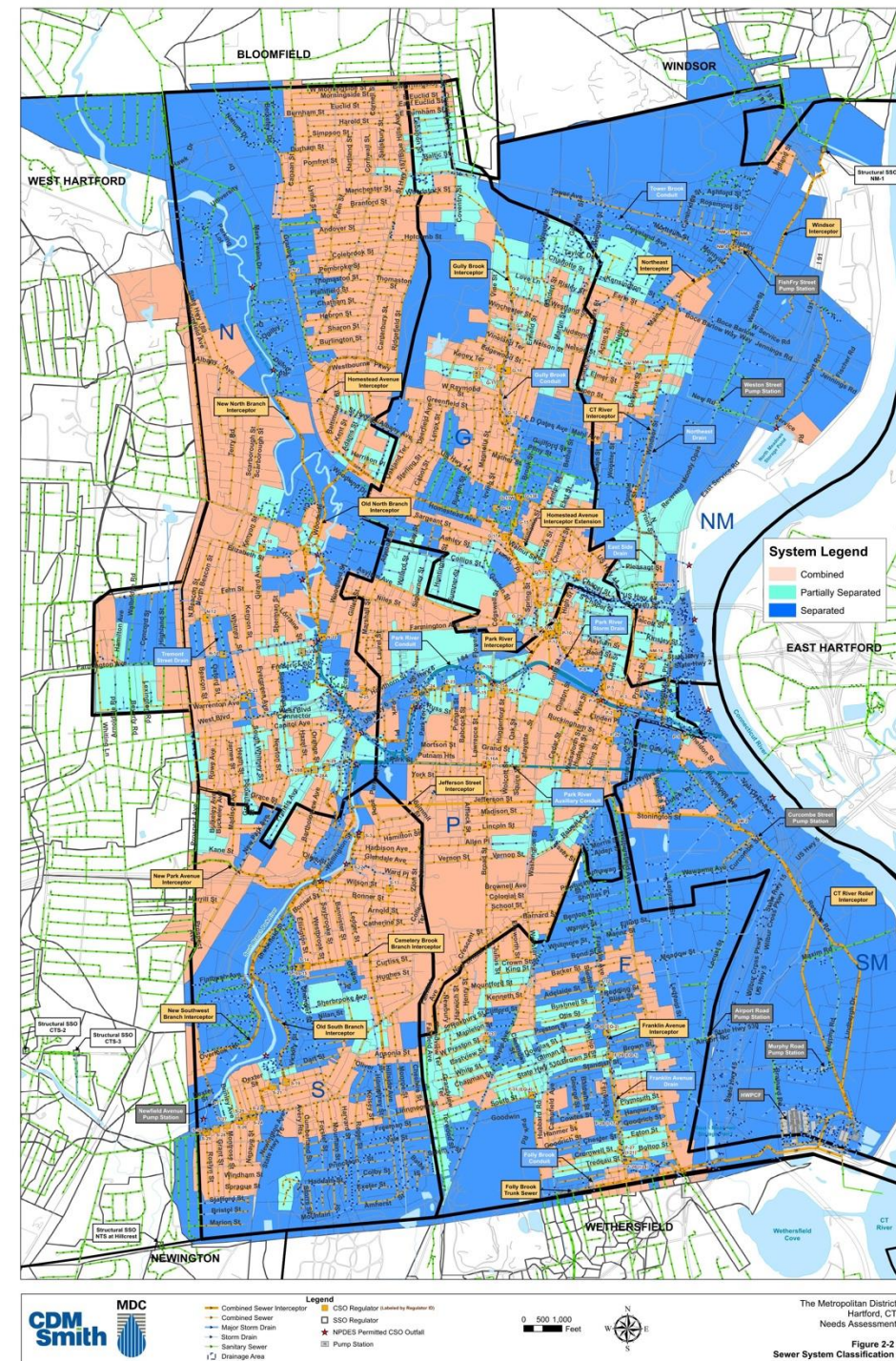
- Develop/implement formal employee training program
- Implement MS4 property and operations maintenance
- Implement coordination with interconnected MS4s
- Develop and implement a program to control other sources of pollutants to the MS4
- Evaluate additional measures for discharges to impaired waters
- Track projects that disconnect DICA
- Develop and implement infrastructure repair, rehabilitation and retrofit program
- Develop and implement plan to identify and prioritize retrofit projects
- Develop/Implement street sweeping program
- Develop/Implement catch basin cleaning program
- Develop/Implement snow management practices

The municipality implements this MCM and performs some BMPs. A formal employee training program is planned to be implemented in 2025. Coordination between connected MS4s is in progress. The Town has contracted with a consultant to support its MS4 compliance, including developing a Retrofit Plan to help meet the DCIA reduction target.

Rating: Below Average

# Hartford

- 45% Separated (Blue) and 55% combined (Orange & Teal)
- Stormwater split between Hartford and the MDC with not well-defined responsibilities for each organization
- Hartford Flood Control (HFC) facilities are the responsibility of Hartford (levees and 9 pump stations)
- Provided a summary of stormwater program costs for a comparable City



# New Britain

- Evaluated as if there was not an existing stormwater utility

- Compliance Summary:

Average Regulatory Compliance

Average O&M

Average CIP Program

Proactive Program Management

Average Overall Rating

**Attachment 1  
Capitol Region COG Stormwater Authority Study  
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Purpose	Current Stormwater Budget Value	Future Stormwater Budget Value
Salaries	\$1,501,291	\$1,501,291
Materials/O&M	\$1,786,426	\$1,786,426
Gap	\$0	\$85,290
<b>Total</b>	<b>\$3,287,717</b>	<b>\$3,373,007</b>

# Rocky Hill

- Compliance Summary:

Average	Regulatory Compliance
Average	O&M
Below	CIP Program
Average	Program Management
<b>Average</b>	<b>Overall Rating</b>

- Cost Summary:

\$1.18 M current cost = \$56 per capita cost

\$1.47 M cost with perceived gap = \$70 per capita cost

With the Perceived Gap - move from Average to Proactive cost per capita

## MS4 Permit Compliance

Control Measure	Compliance
1 - Public Education and Outreach	Average
2 - Public Participation and Involvement	Proactive
3 - Illicit Discharge Detection and Elimination	Below
4 - Construction Site Stormwater Runoff Control	Average
5 - Post Construction Stormwater Management	Average
6 - Pollution Prevention/Good Housekeeping	Average
Outfall Monitoring	Below
Summary/Total	Average

# West Hartford

- **Compliance Summary:**

Average Regulatory Compliance  
 Proactive O&M  
 Proactive CIP Program  
 Proactive Program Management  
**Proactive Overall Rating**

- **Cost Summary:**

\$10.5 M current cost  
 \$164 per capita cost

\$10.7 M cost with perceived gap  
 \$168 per capita cost

**Attachment 1**  
**Capitol Region COG Stormwater Authority Study**  
**Existing Stormwater Program Costs - Wet Hartford**

Salaries	Budgeted Value (Budget 24-25)	Percent Stormwater	Stormwater Budget Value
PW Employees	\$5,192,937	25%	\$1,298,234
Clerical Salaries	\$291,237	10%	\$29,124
Engineering Staff	\$299,341	100%	\$299,341
Planning Staff	\$113,687	100%	\$113,687
		<b>Total</b>	<b>\$1,740,386</b>

Materials/O&M	Budgeted Value (Budget 24-25)	Percent Stormwater	Stormwater Budget Value
Snow Removal Supplies	\$307,100	25%	\$76,775
Material Disposal	\$67,000	100%	\$67,000
CIP Stormwater	\$733,000	100%	\$733,000
Vacuum Truck Replacement	\$700,000	75%	\$525,000
CCTV	\$150,000	50%	\$75,000
Contractual Services(CDM Smith)	\$175,000	100%	\$175,000
CIP Flood Mitigation	\$7,000,000	100%	\$7,000,000
CIP DPW Equipment	\$264,000	50%	\$132,000
		<b>Total</b>	<b>\$8,783,775</b>

Perceived Gap	Value	Percent Stormwater	Stormwater Value
Stormwater Maintenance	\$154,750	50%	\$77,375
Equipment Replacement	\$300,000	50%	\$150,000
		<b>Total</b>	<b>\$227,375</b>

Purpose	Current Stormwater Budget Value	Future Stormwater Budget Value
Salaries	\$1,740,386	\$1,740,386
Materials/O&M	\$8,783,775	\$8,783,775
Perceived Gap	\$0	\$227,375
<b>Total</b>	<b>\$10,524,161</b>	<b>\$10,751,536</b>

# Existing Conditions Summary

	Bloomfield	Hartford	New Britain	Rocky Hill	West Hartford	Combined
Town Data						
Population (2020 Census)	21,535	121,057	74,135	20,845	64,083	301,655
Existing Evaluation - Level of Compliance						
Regulatory - MS4	Average	Below	Average	Average	Average	Average
O&M	Average	Below	Average	Average	Proactive	Average
Stormwater CIP	Proactive	Average	Average	Below	Proactive	Average
Program Management	Average	Below	Proactive	Average	Proactive	Average
<b>Overall</b>	<b>Average</b>	<b>Below</b>	<b>Average</b>	<b>Average</b>	<b>Proactive</b>	<b>Average</b>
Stormwater Program Costs						
Existing Costs	\$795,659	\$2,603,708	\$3,287,717	\$1,176,538	\$10,524,161	\$18,361,534
Per Capita Cost	\$37	\$22	\$44	\$56	\$164	\$61
Future Cost with Perceived Gap	\$858,159	\$2,603,708	\$3,373,007	\$1,467,538	\$10,751,536	\$19,027,698
Future Per Capita with Perceived Gap	\$40	\$22	\$45	\$70	\$168	\$63

# Regionalization Workshop



# Survey Conversation

- Anything surprising in these findings?  
What stands out to you?
- For municipalities not evaluated, where do you think you fall on the ***Compliance Ranking?***
- As you look at these results, what opportunities come to mind for potential collaboration or for enhancing levels of service?



# Stormwater Utility

- Fee for service – a funding mechanism at its core
- Raise funds to support existing program; additional funds to potentially enhance service delivery
- Lowest hanging fruit for regional collaboration is utility administration and billing
- Scope could be expanded to other levels of collaboration and shared services if desired

# Regional Utility/Service Delivery Models

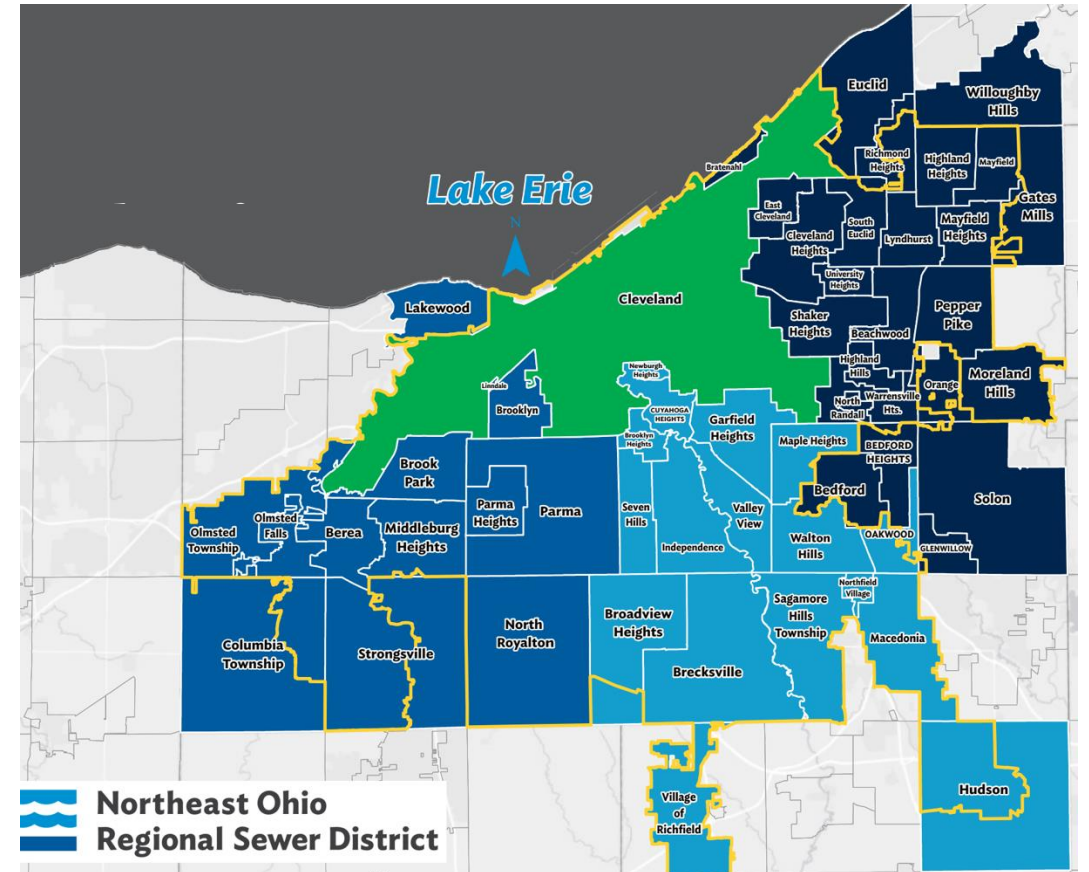


## Regional Authority

- Centralized legal entity
- Oversees stormwater management across multiple municipalities
- Stormwater fees go directly to regional utility
- Implement stormwater management program, MS4 compliance, infrastructure and asset management on a regional level

# Example of Centralized Utility: Northeast Ohio Regional Sewer District, OH

- 57 member communities, including City of Cleveland
- District provides sewer and stormwater services
- Also provides support to local projects via Community Cost Share
- Fee billed on District bill; same rate for all communities
- Stormwater fee generates ~\$53M/year, with 25% (\$13.25M) going to Community Cost Share



# Regional Utility/Service Delivery Models

## Inter-Local Agreements

- Decentralized governance via agreements between municipalities
- Opportunities for collaboration include administration and billing, service delivery, development standards, public education and outreach, and infrastructure
- Municipalities retain control over local stormwater management policies
- Relies on local governments for enforcements

# Examples of Decentralized Governance: Granville-Person Cooperative Stormwater Services, NC

- Five jurisdictions: 2 rural counties, 2 towns and 1 city in one of the counties, all located in Upper Falls Lake watershed
- Cost driver is watershed-specific regulations
- Interlocal agreements
- Jurisdiction stormwater rates set specifically to their own revenue requirements
- Stormwater fees billed on county tax bills
- Shared billing/collections/administration and advisory services
- Otherwise separate service provision

# The Spectrum of Shared Services

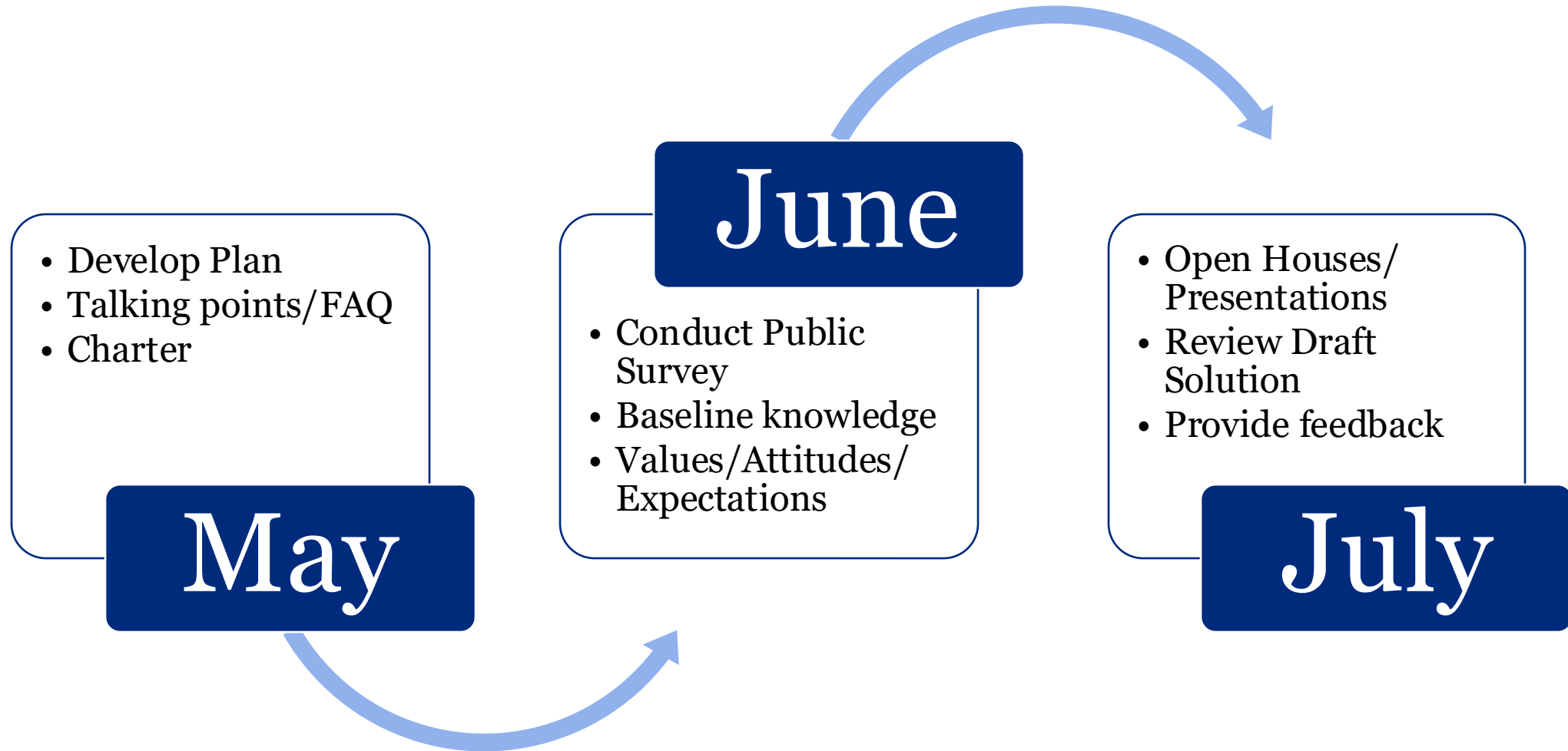
- What would be the goal of regionalization? (Ex., highest level of service for all? Lowest costs for jurisdictions?)
- Where on this continuum do we think this group falls?
- What opportunities/barriers for potential collaboration currently exist?
- What could be the potential role of existing organizations like CRCOG with a regional presence?



# Engagement Plan Update



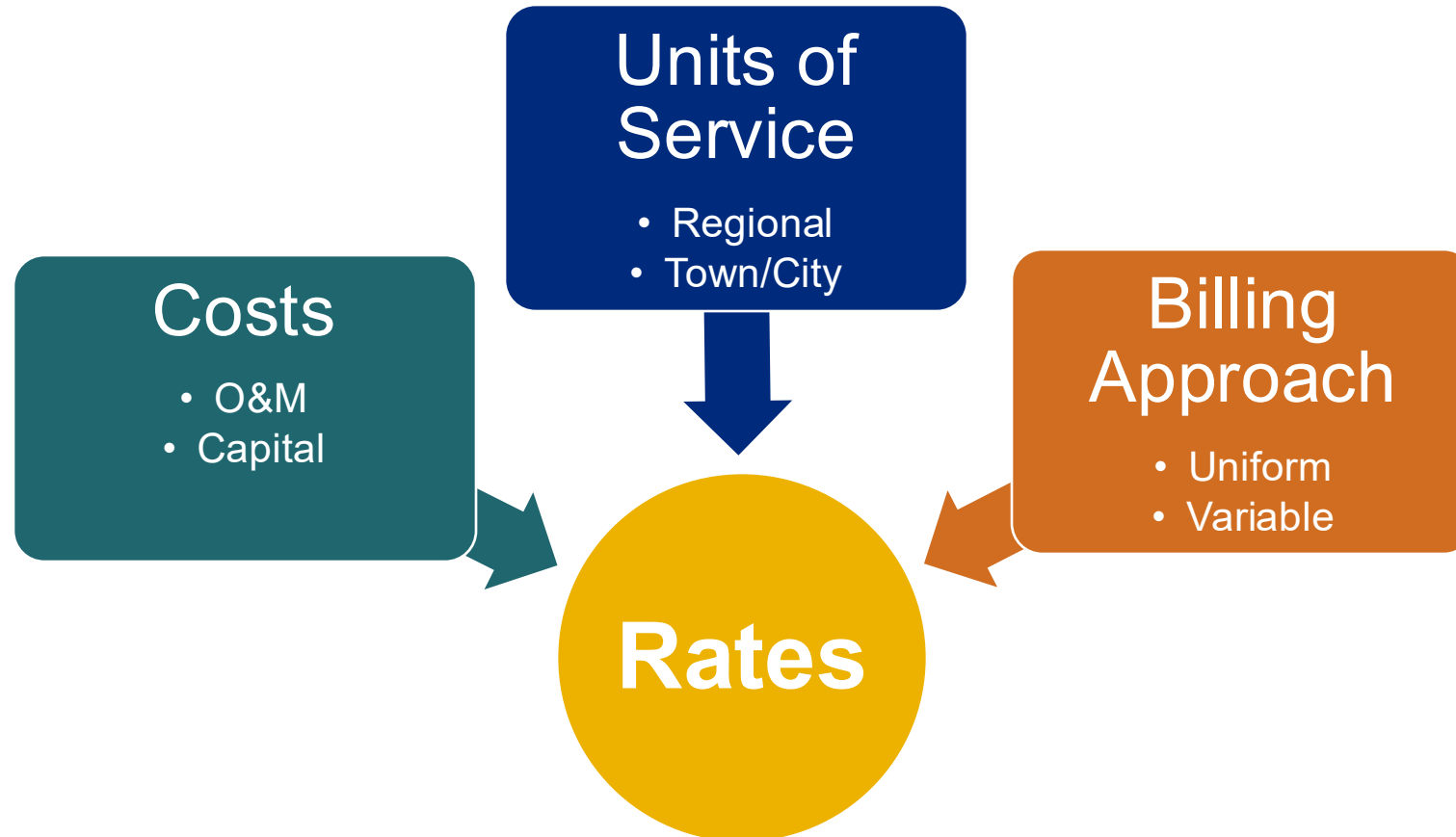
# Communications and Engagement Timing



# Financial Model Update



# Financial Model Overview



- Outputs from the financial model will be estimated rates/impacts per household based on the current program and proposed enhancements

# Financial Model

## Costs

- Individual inputs for current and expected O&M and capital costs for each community
- Option to combine shared costs and allocate them appropriately

## Units of Service

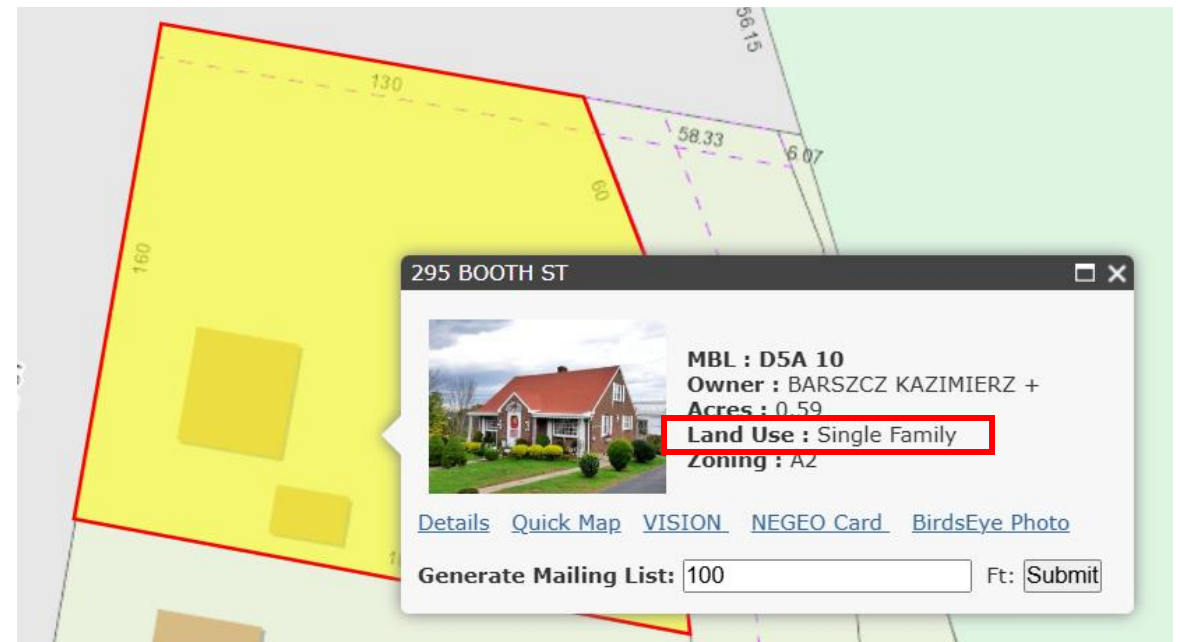
- Parcel and impervious area-based fee
- Group like customers into similar classes
  - Single Family Residential (SFR) Customer Class
  - Non-Single Family Residential (NSFR) Customer Class

## Billing Approach

- Evaluate different billing approaches
  - Variable rates based on individual costs and units of service
  - Uniform rates based on consolidated regional costs and units of service

# GIS Request

- *Request for Bloomfield, New Britain, Rocky Hill & W. Hartford*
- Land Use Code Description for Parcels
  - › GIS Shapefile (preferred)
  - › Excel file with Parcel ID
- Additional Data (if available)
  - › Parcel ID, Owner Name, Location Address
  - › Measured impervious area
- Requested by 5/23/25



LUC Description	Parcel Class
APARTMENT BUILDING OR COMPLEX	NSFR
APARTMENT DEVELOPABLE VACANT LAND	Vacant
APARTMENT FOUR FAMILY	NSFR
CONVENIENCE STORE	NSFR
GENERAL OFFICE BLDG	NSFR
GENERAL RETAIL	NSFR
RESIDENTIAL CONDOMINIUM	NSFR
RESIDENTIAL ONE FAMILY	SFR
RESIDENTIAL THREE FAMILY	SFR
RESIDENTIAL TWO FAMILY	SFR
RESTAURANT	NSFR



# Next Steps



**Units of Service  
Estimation**



**Financial Analysis**



**Communications  
Plan**



**Public Survey**