



# Monroe County Countywide Active Transportation Plan

Project Advisory Committee Meeting #4

February 28, 2023 | 11:00 AM-12:00 PM



**Adam J. Bello**  
COUNTY EXECUTIVE

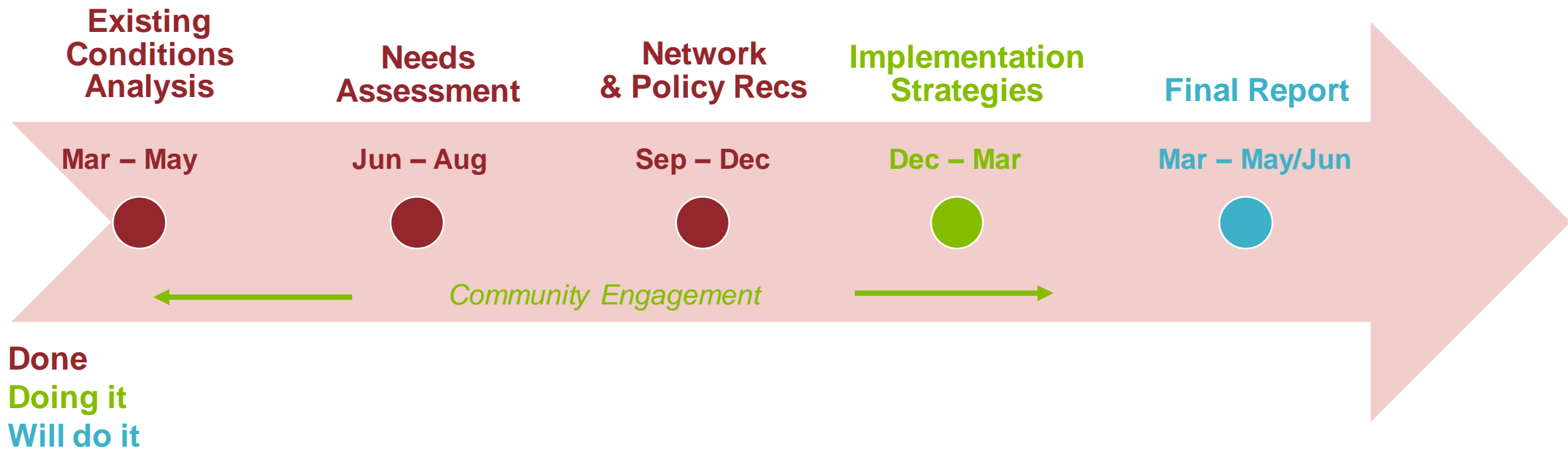




# Agenda

TIME	AGENDA ITEMS
11:00-11:10	Welcome and Schedule Update
11:10-11:15	Engagement Updates
11:15-11:45	Implementation Strategies
11:45-12:00	Q&A, Next Steps

# Schedule Update





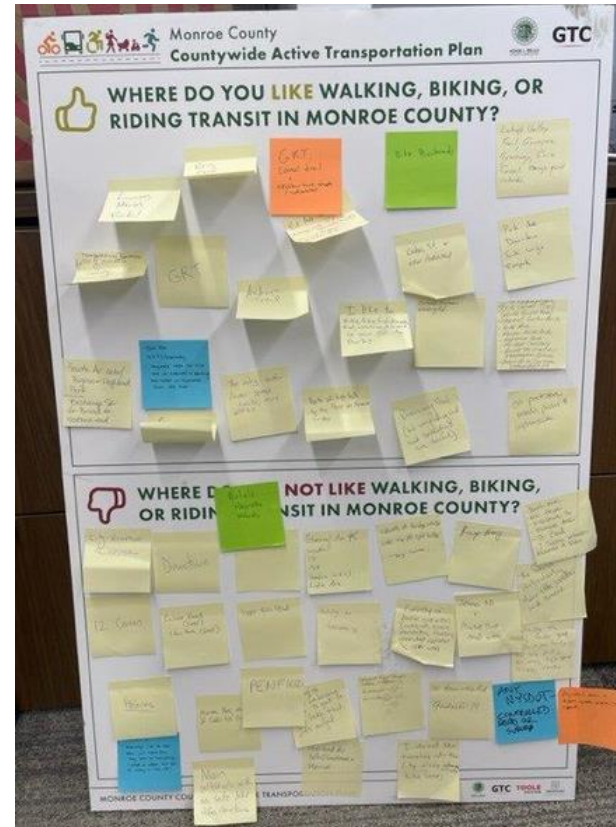
# Engagement Updates

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# Public Workshop #2

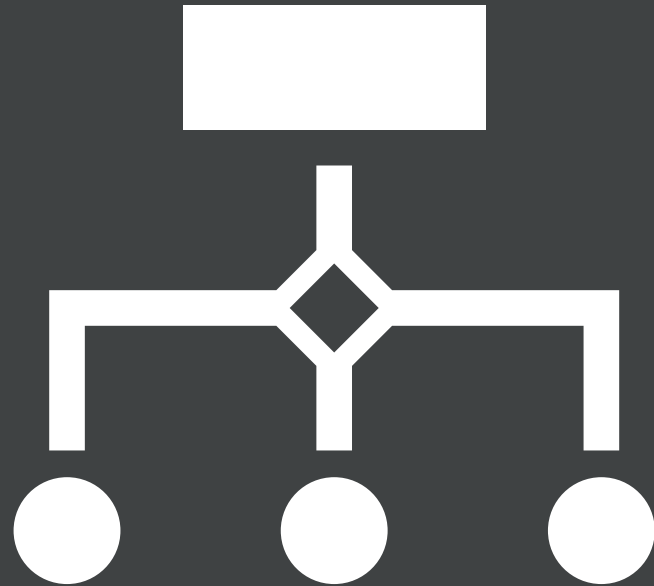
- March 22 ,Wed. 4 - 6 pm
- RTS Board Room  
1372 East Main Street  
Rochester, NY 14609







# Implementation Strategies





# Implementation Tasks

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- 1. Roles and Responsibilities:** For the planning, design, funding, construction, maintenance, and operations of AT facilities.
- 2. Funding Sources:** For the implementation of recommended projects and programs.
- 3. Network Scenario Cost Estimates:** Cost of the network scenarios.
- 4. Performance Measures:** To assess the performance of the active transportation network on an ongoing basis.



# Roles and Responsibilities

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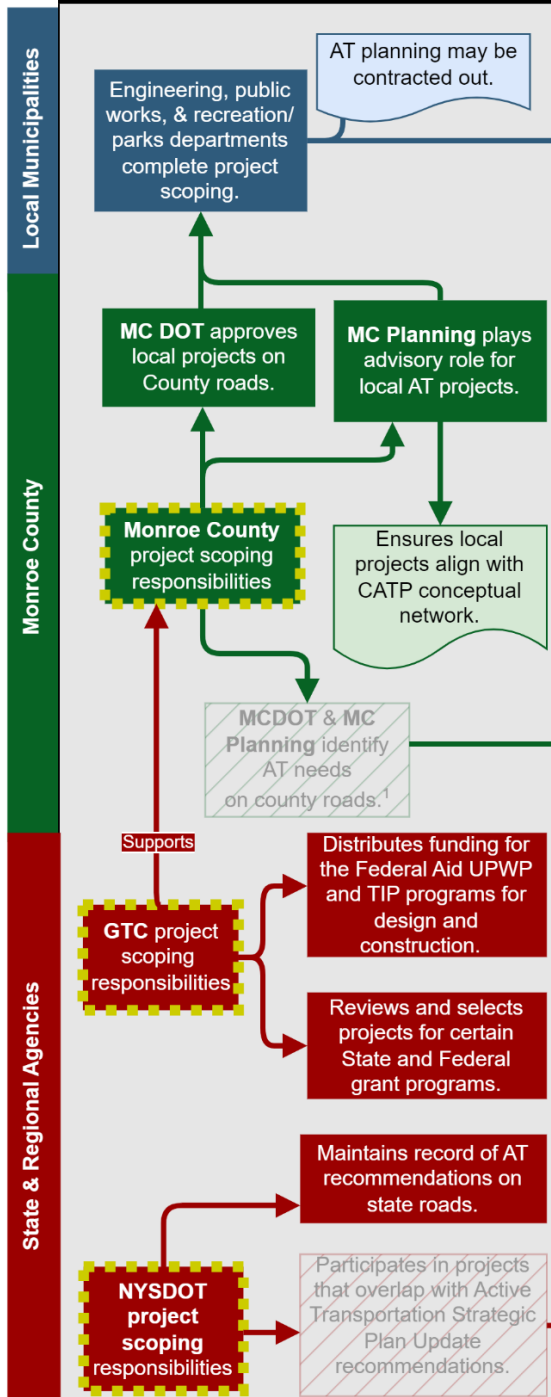
- Flow chart includes three stakeholders:
  1. Local Municipalities
  2. Monroe County
  3. State and Regional Agencies
- Reference for County staff and local agency partners to help facilitate coordination while implementing active transportation projects.
- Does not preempt or supersede any existing project development processes that Monroe County's partners currently follow.




**Project Scoping (2-4 Months)**


**LEGEND**


- Current municipal practice
- Current County practice
- Current GTC/NYS DOT practice
- Recommended future practice
- Category starting point




**LEGEND**

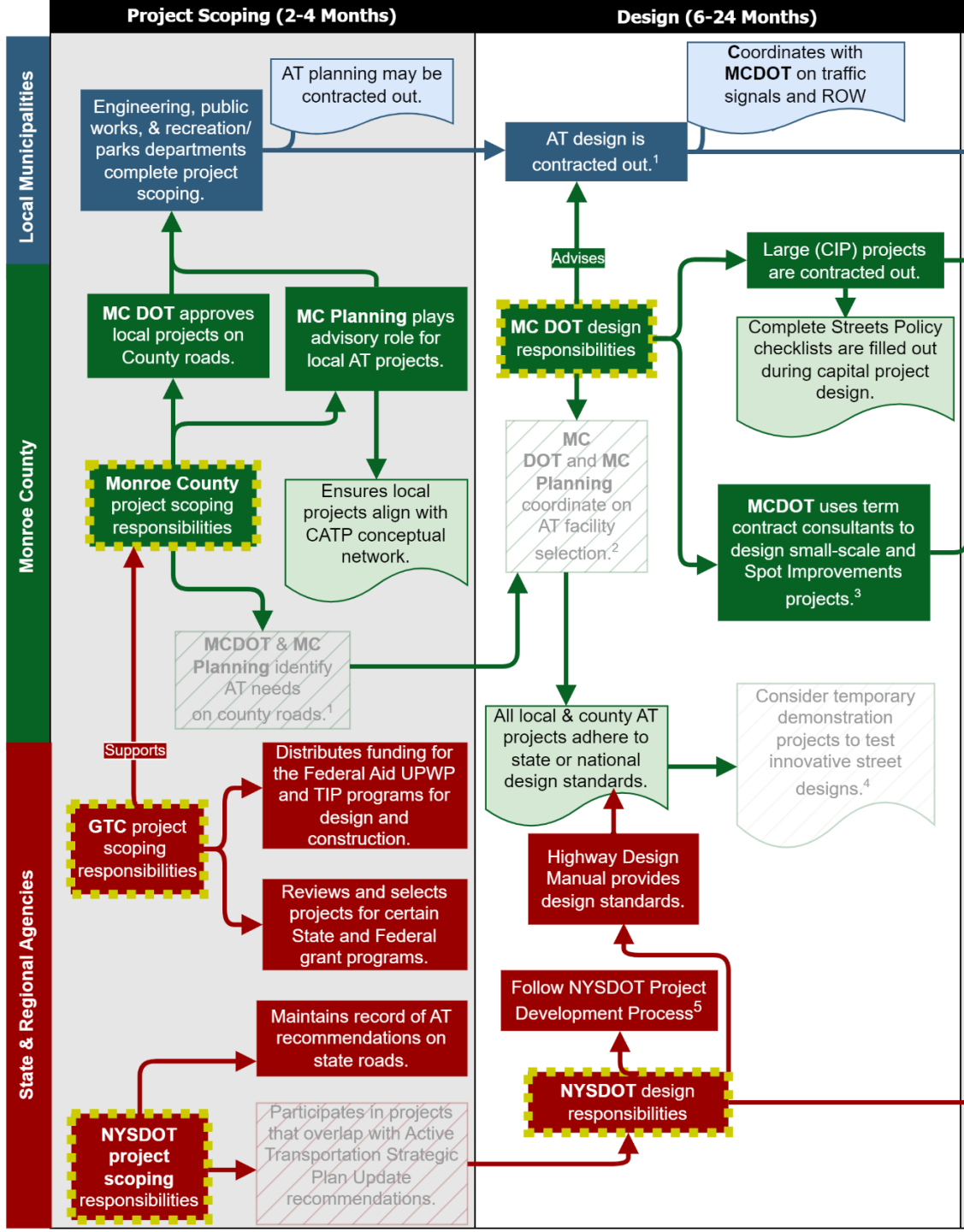
 Current municipal practice

 Current County practice

 Current GTC/NYS DOT practice

 Recommended future practice

 Category starting point



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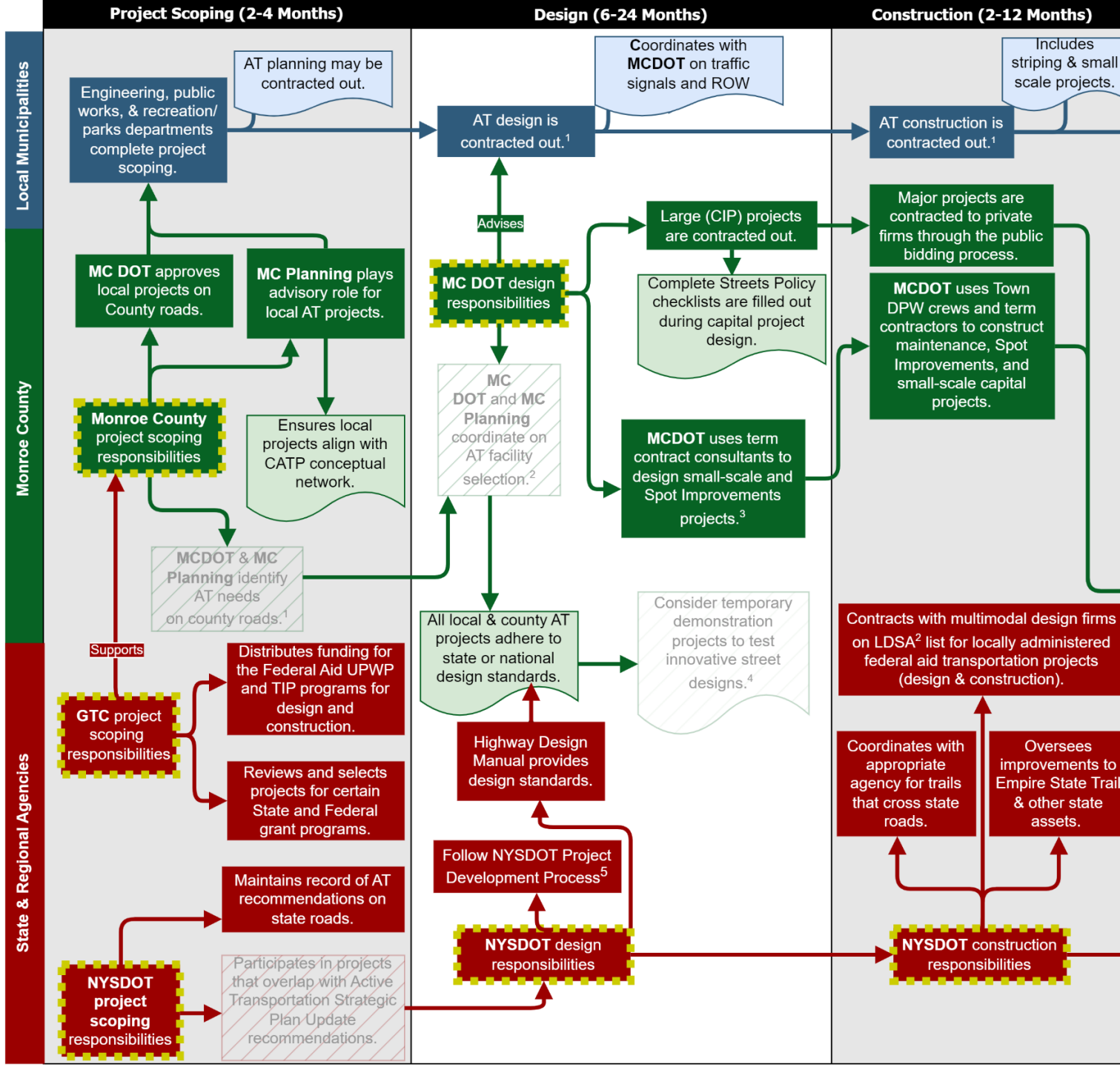
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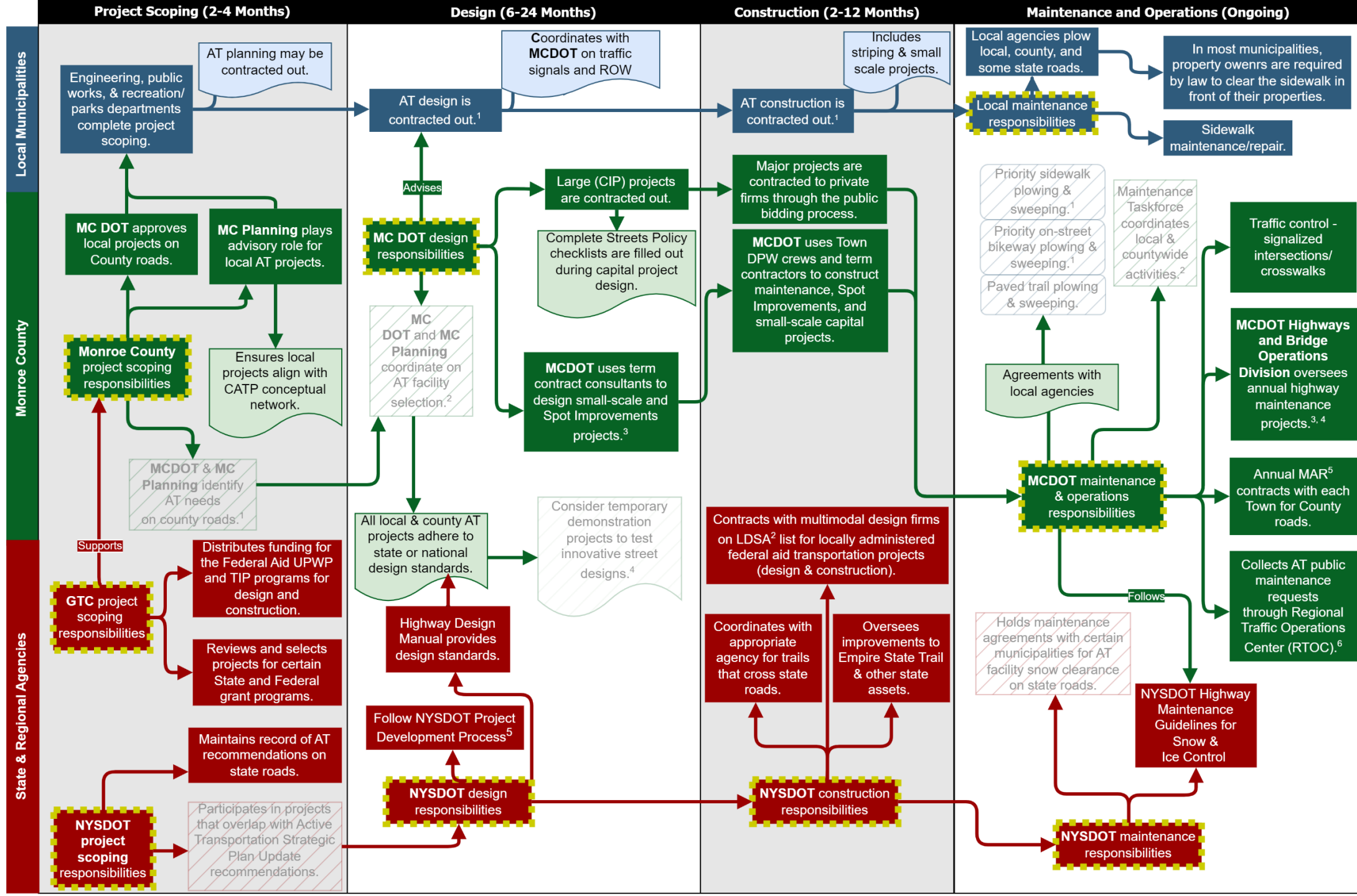
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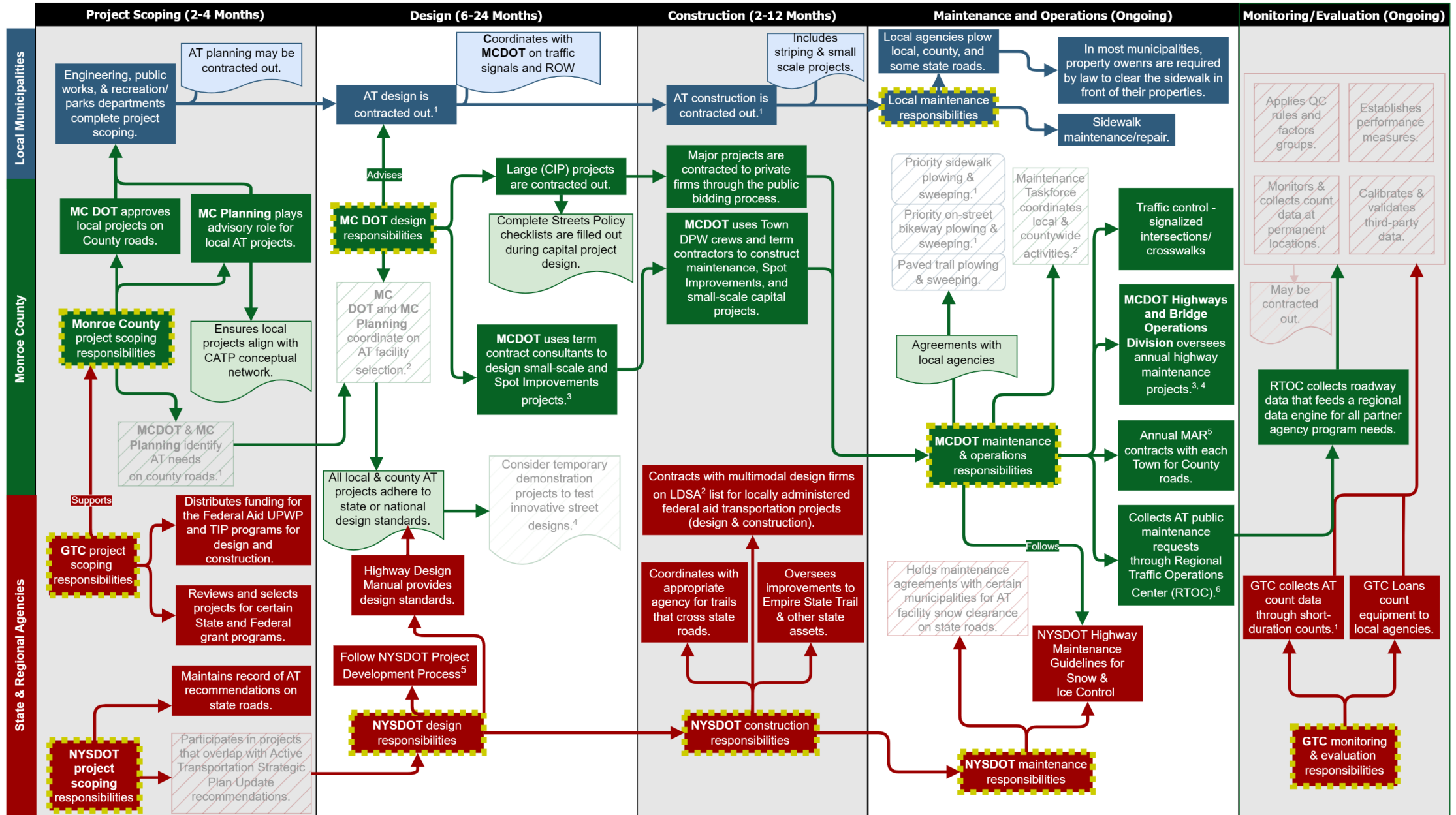
Current municipal practice

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# Funding Sources

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- List of federal, regional, and state funding opportunities for active transportation projects.
- Includes key information:
  - Administrating agencies
  - Total available funds or amount granted per project
  - Purpose of program or source
  - Eligible project types
  - Eligible recipient types
  - Matching requirements
  - Other requirements as applicable
  - Application cycle / timeline
  - Link to more information







# Network Scenario Cost Estimates

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## 1. High Coverage Network

- Connects large and mid-sized communities to each other and to important regional destinations.
- Links every corner of the county to provide a network that reaches the most people possible.

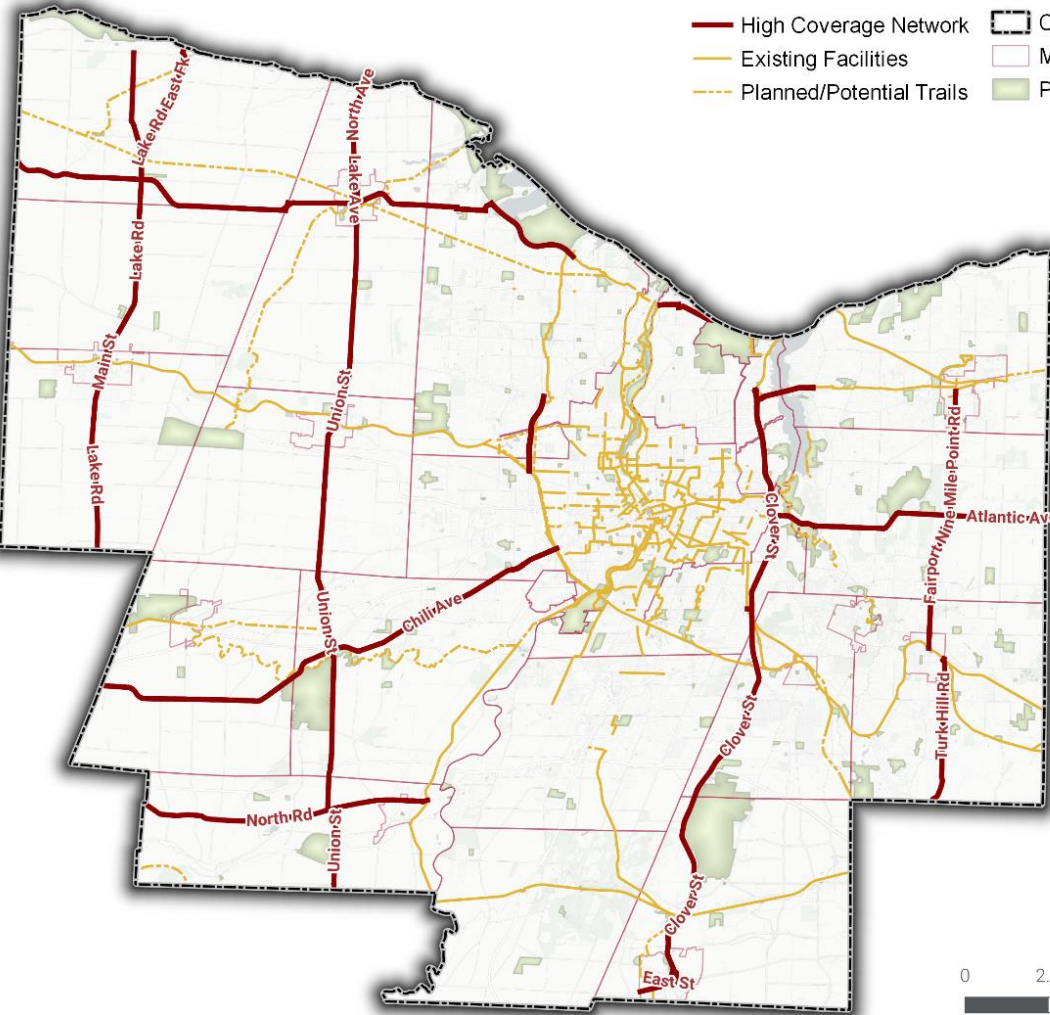
## 2. High Need Segments

- Highlights segments with high trip potential and low connectivity scores.
- Prioritizes underserved populations based on race, poverty, and vehicle access.



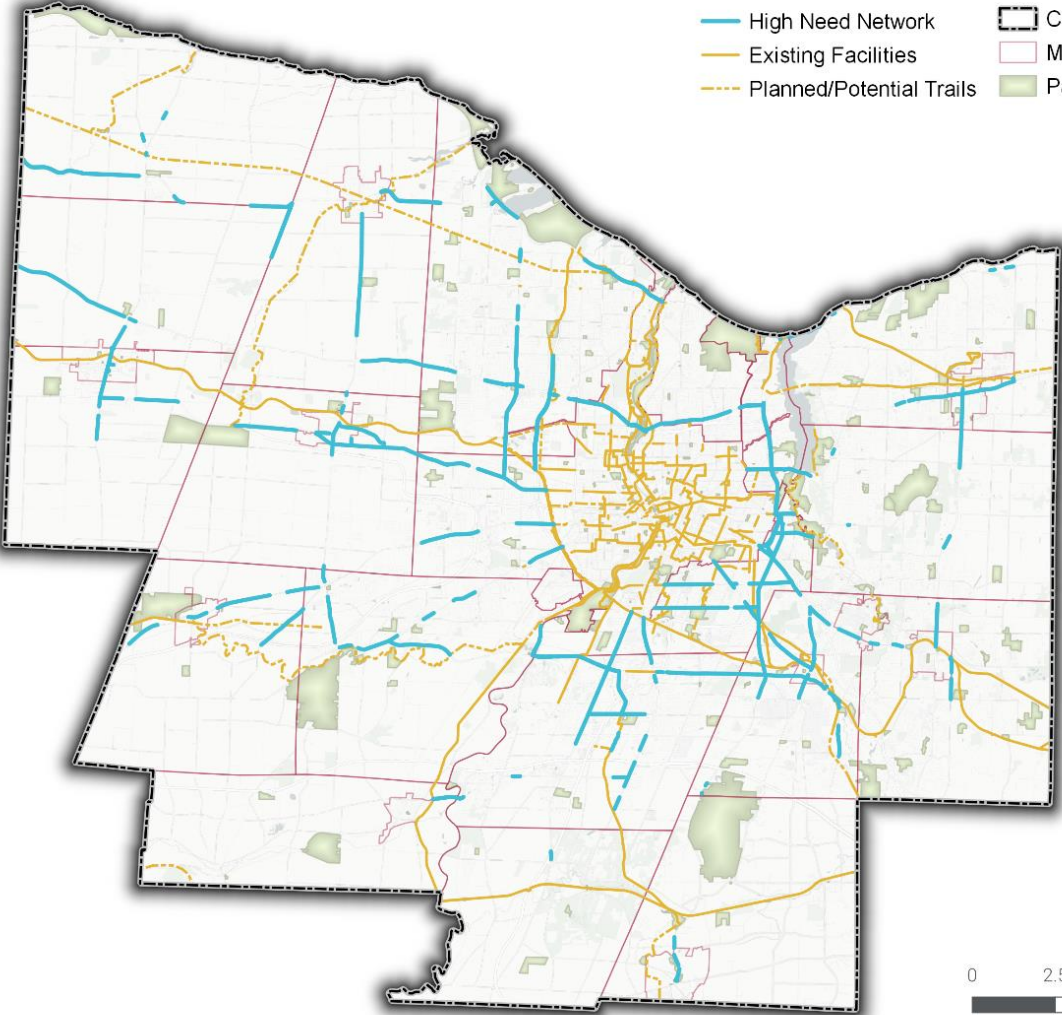
### High Coverage Network

- High Coverage Network
- Existing Facilities
- Planned/Potential Trails
- County Boundary
- Municipal Boundary
- Park



### High Need Segments

- High Need Network
- Existing Facilities
- Planned/Potential Trails
- County Boundary
- Municipal Boundary
- Park





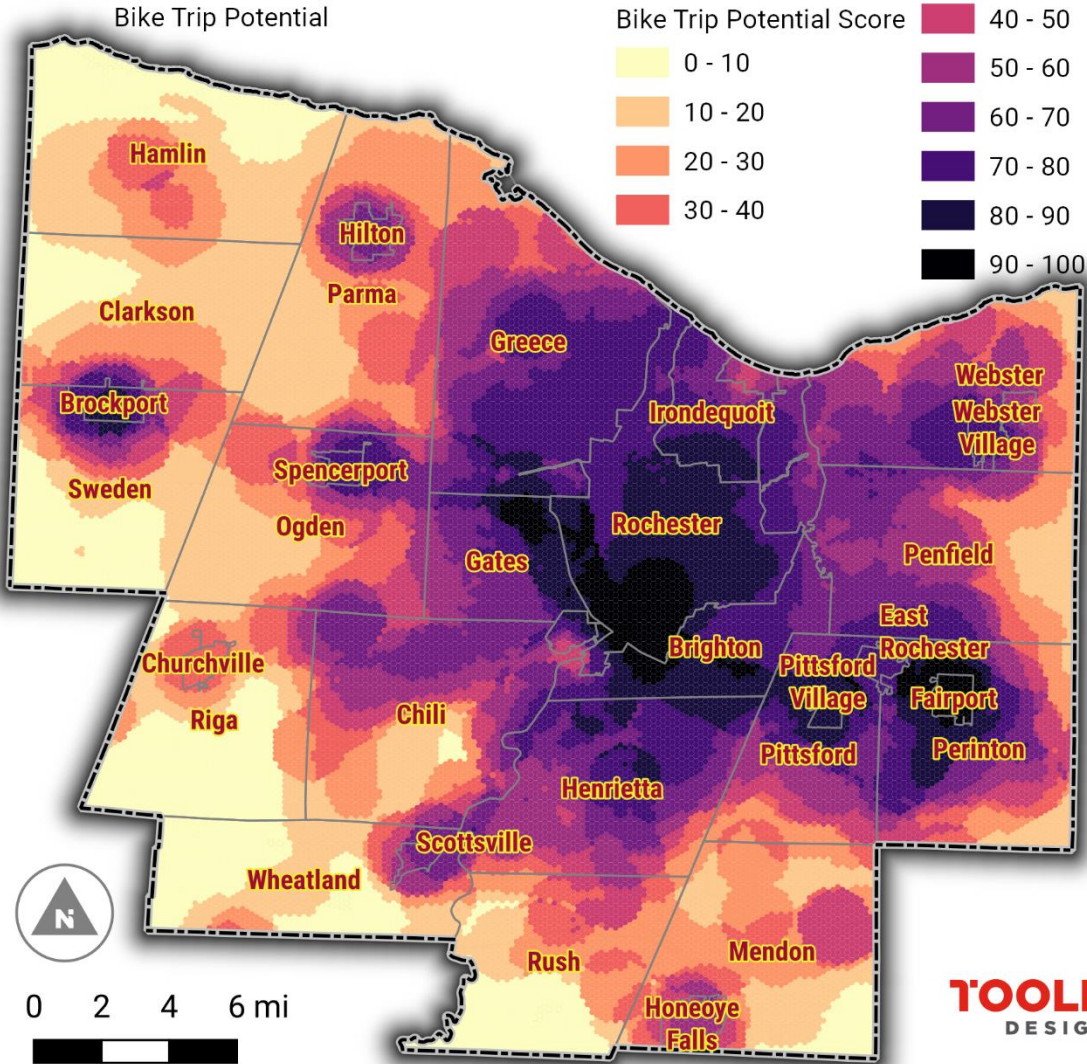
# Network Scenario Cost Estimates

## Cost estimate step 1 – Estimate network mileage by facility type

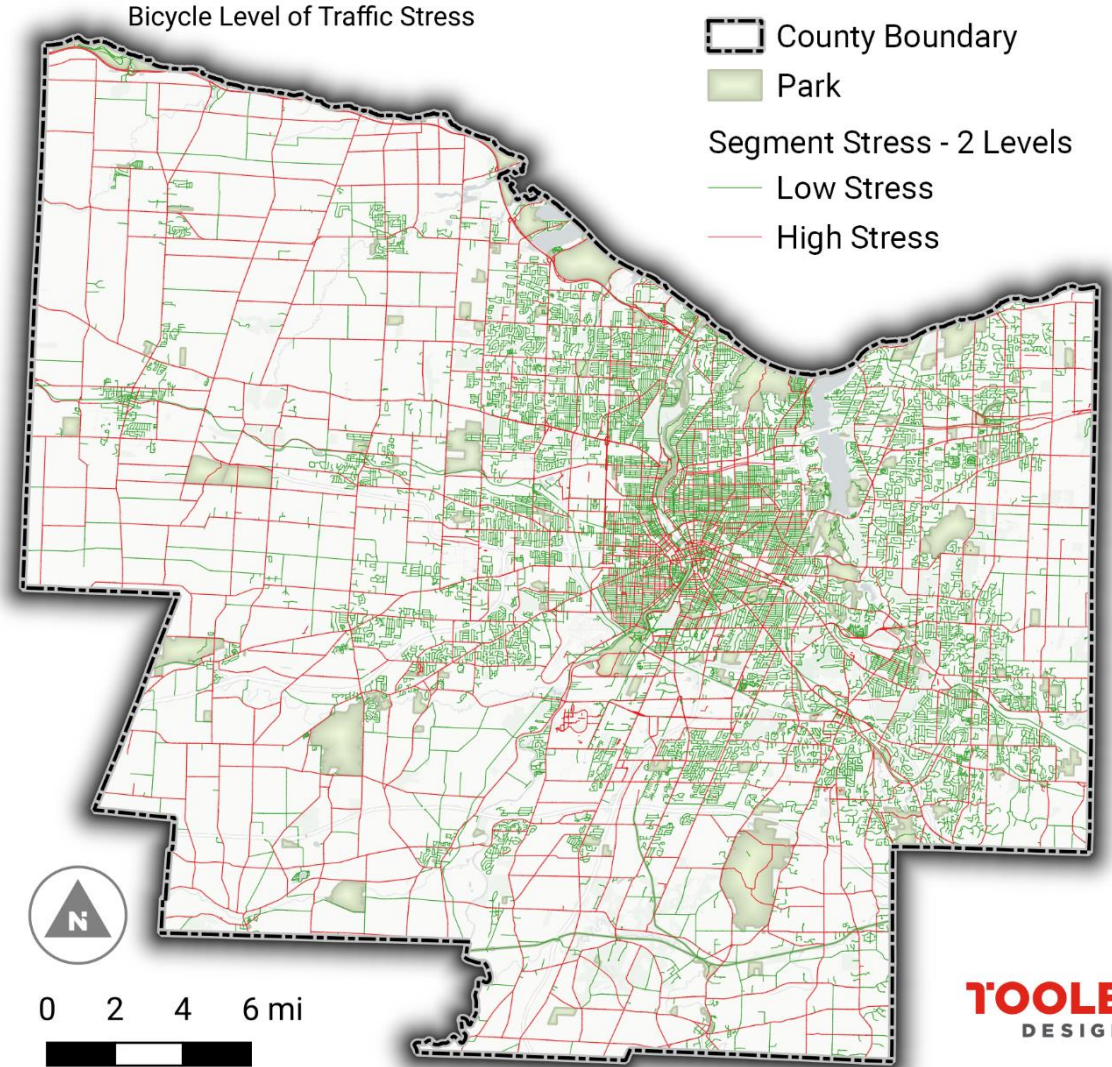
	LTS 1 or 2	LTS 3	LTS 4
<b>Rural</b> <i>(trip potential below 50)</i>	Add signage only	4' paved shoulder each side (4 feet minus existing paved shoulder width)	Speed above 45 and/or ADT above 7,000: sidepath Else: 6' paved shoulder (6 feet minus existing paved shoulder width)*
<b>Suburban</b> <i>(trip potential 50 to 70)</i>	Add signage only	Bike lanes (5 feet minus existing paved shoulder width)	Speed above 35 and/or ADT above 6k: sidepath Else: bike lanes (5 feet minus existing paved shoulder width)
<b>Urban</b> <i>(trip potential above 70)</i>	Add signage only	Bike lanes (5 feet minus existing paved shoulder width)	Speed above 35 and/or ADT above 6,000: separated bike lane Else: bike lanes (5 feet minus existing paved shoulder width)



## Trip Potential



## Level of Traffic Stress





# Network Scenario Cost Estimates

## Cost estimate step 2 – Apply unit costs to facility types

Facility Type	Unit Costs (per mile)
Bike lane	\$60,000
Separated bike lane	\$100,000
Shoulder widening	\$105,000
Sidepath, rural	\$1,000,000
Sidepath, suburban	\$1,300,000
Signage	\$7,000





# Network Scenario Cost Estimates

## Cost estimate step 3 – Develop network-level cost estimates

Facility type	High Needs Segments		High Coverage Network	
	Mileage	Estimated cost	Mileage	Estimated cost
Bike lane	10	\$600,000	5	\$300,000
Separated bike lane	80	\$8,000,000	20	\$2,000,000
Shoulder widening	30	\$3,150,000	90	\$9,450,000
Sidepath rural	15	\$15,000,000	10	\$10,000,000
Sidepath suburban	30	\$39,000,000	45	\$58,500,000
Signage	5	\$35,000	5	\$35,000
Unknown	20	\$390,000	15	\$460,000
Average cost/mile	--	\$390,000	--	\$460,000
<b>Extrapolated cost</b>		<b>\$74,100,000</b>	--	<b>\$87,400,000</b>
<b>Unknown treatment mileage %</b>		10.53%	--	7.89%



# Network Scenario Cost Estimates

High Coverage Network  
**\$87 million**

High Need Segments  
**\$74 million**





# Performance Measures

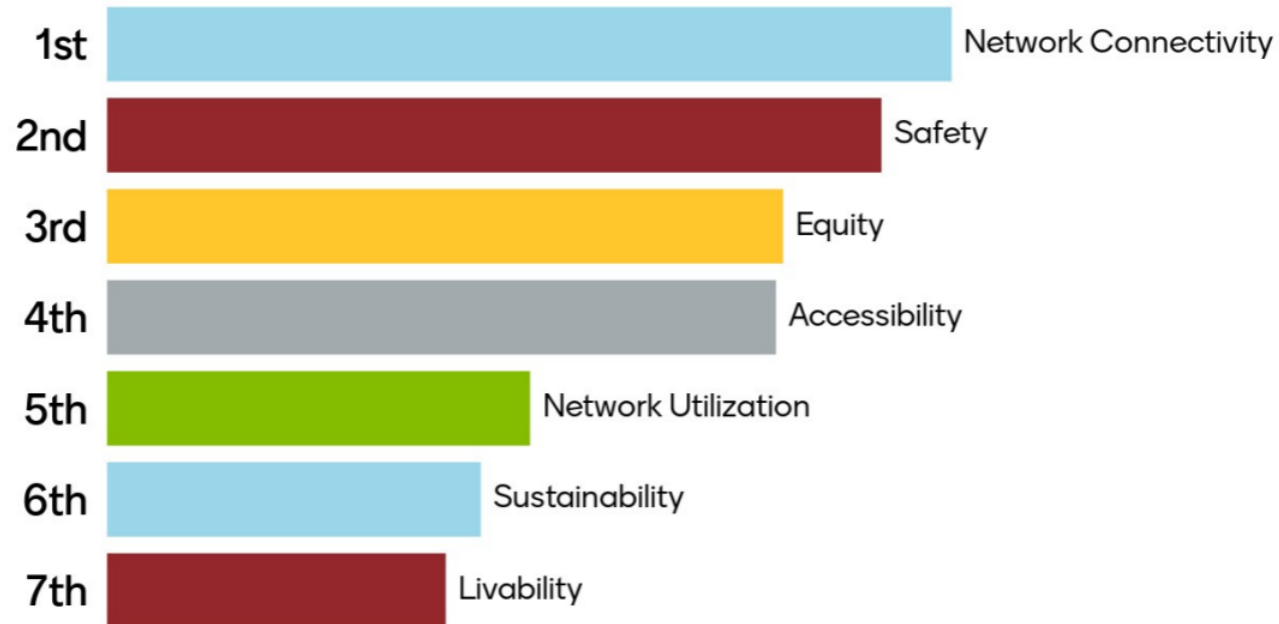
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- Performance measures = business case for continued improvement of and investment in multimodal infrastructure.
- Inventory measures vs. outcome measures.
- Memo provides a starting point.



# First PAC Meeting Survey Result

What are the most important elements that the plan should address?





# Performance Measures

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- **PAC identified plan goal** – The table sorts recommended performance measures based on the most important plan goals identified by the Project Advisory Committee (listed in order of importance).
- **Performance Measure** – The metric to be recorded for tracking changes.
- **Unit of measurement** – The quantifiable value of each performance measure.
- **Example Target** – Where available, example targets from other communities are included for reference.
- **Example Application** – Where available, the table lists other communities that have successfully enacted the performance measure, with resources linked below.
- **Data source/ collection method**

PAC identified plan goal	Performance Measure	Unit of measurement	Example Target	Example Application	Data source
Network Connectivity	Increase miles of bicycle network built annually	X% increase per year.	5% annual growth of miles of county roadways with shoulder widths greater than 4 feet.	N/A	<ul style="list-style-type: none"> <li>Inventory data</li> </ul>
	Increase miles of pedestrian network built annually	X% increase per year.	N/A	N/A	
	Route directness	Calculate the ratio of the shortest path route distance to straight-line distance for two selected points. The lowest number achievable would be 1.0, although unlikely, and lower results indicate strong, connected networks with little out-of-direction travel.	N/A	Bellingham, WA Skagit Island Regional Transportation Planning Organization	<ul style="list-style-type: none"> <li>Maps of travel networks by mode</li> <li>Location of origin and destination</li> <li>GIS transportation networks for each mode</li> <li>GIS information on land use (origins and destinations)</li> </ul>
Safety	Pedestrian and bicyclist injury rate	# of crashes per X miles traveled on network segment.	10% reduction over two years	<u>New York, NY</u> Richmond, VA St. Louis, MO	Crash reports/police data, surveys
		Ratio of reported crashes to pedestrian and bicycle trips.			Calculated by dividing # of police-reported on-street bicycle collisions by recorded bike/ped counts
	Vehicular speeds	80 <sup>th</sup> percentile speed.	Depends on existing conditions	<u>Calgary, AB</u>	Automatic Traffic Recorders



# Questions?

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# Next Steps

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- PAC: provide feedback on Implementation Strategies Memo by **FRIDAY, MARCH 10**
- Revise Implementation Strategies Memo
- Develop Final Plan

# Thank You!

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- Yixuan Lin – [YixuanLin@monroecounty.gov](mailto:YixuanLin@monroecounty.gov)
- Michael Blau – [mblau@tooledesign.com](mailto:mblau@tooledesign.com)

**Next Meeting: TBD**