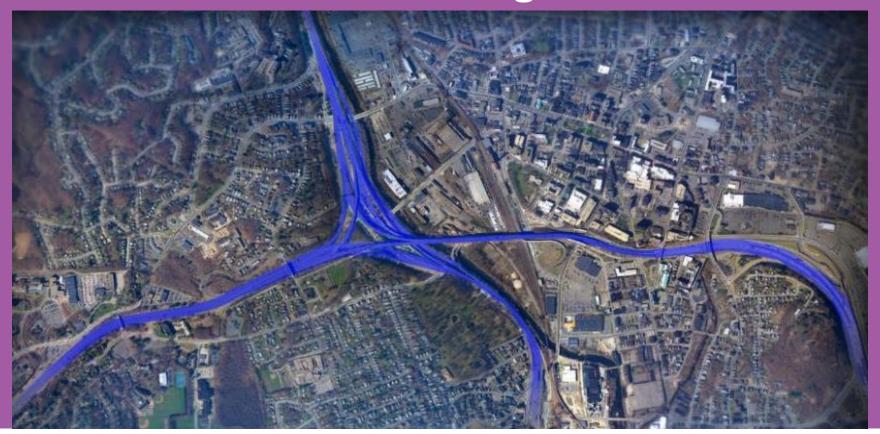
The New Mix: Long-term Plan for the I-84 - Route 8 "Mixmaster" Interchange





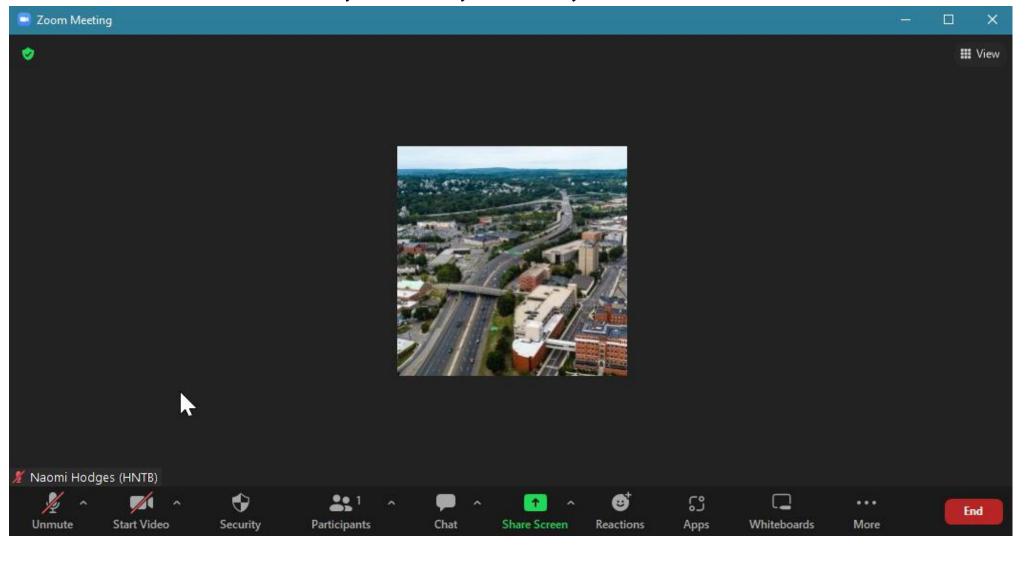


Welcome!





How To Zoom: Camera, Mute, Chat, & Raise Hand



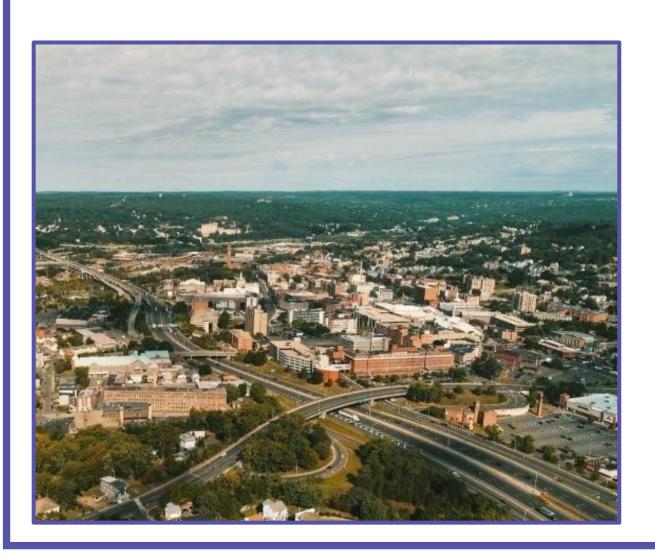
How To Zoom: Select Real-Time Translation Real Time Translation:

Zoom Meeting Protocols

To ensure meetings are productive, friendly, and efficient, we request that attendees adhere to the following:

- Use respectful language & standard, professional meeting decorum.
- Remain muted when not speaking.
- Hold questions until after the presentation.
- Please note that if a backlog of pending questions and/or comments occurs we will ask that attendees limit initial comments to 2 minutes so that everyone has a chance to speak. Once everyone has had the opportunity to speak, we will then allow attendees who have additional comments more time.

The *New Mix* Leadership Team



Connecticut Department of Transportation

- Nilesh Patel, PE, Principal Engineer
- Scott Roberts, PE, Project Manager
- Jonathan Dean, PE, Project Manager
- Joe Belrose, EIT, Project Engineer

HNTB Corporation

- Jacob Argiro, PE, Project Manager
- David Schweitzer, PE, Deputy Project Manager
- Chris Fagan, PE, Project Engineer
- Naomi Hodges, Environmental Lead
- Anna Mariotti, Public Information & Involvement



Agenda



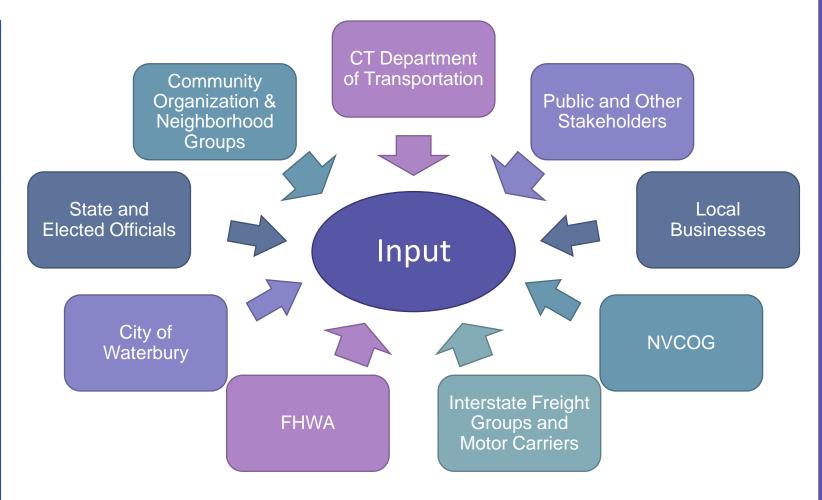
- Introduction
- Public Involvement Overview
- Historical and Community Context
- New Mix Project Overview
- Planning and Environmental Linkages (PEL) & PEL Study Progress
- Next Steps
- Questions & Comments

Public Involvement & Information

The New Mix PEL Study Participation

Public & Stakeholder Outreach Includes

- Mayor of Waterbury
- Waterbury Board of Alders
- NVCOG
- City Department Heads
- Neighborhood organizations
- Chamber of Commerce & Economic Development
- Large Employers
- Environmental Groups
- Community Organizations
- Title VI & Environmental Justice populations



Recordings of all PAC Meetings can be found at: www.newmixwaterbury.com/public-involvement/project-advisory-committee/

The New Mix PEL Study: Outreach Methods



Communication methods will be multi-faceted and include:

- Newsletters & updates via email (including sharing such information through community organizations)
- Social Media
- Project website with question & comment forms
- Public meetings
- Project Advisory Committee

Title VI - Civil Rights

Demographic Survey appreciated:

https://bit.ly/CTDOT-Feedback





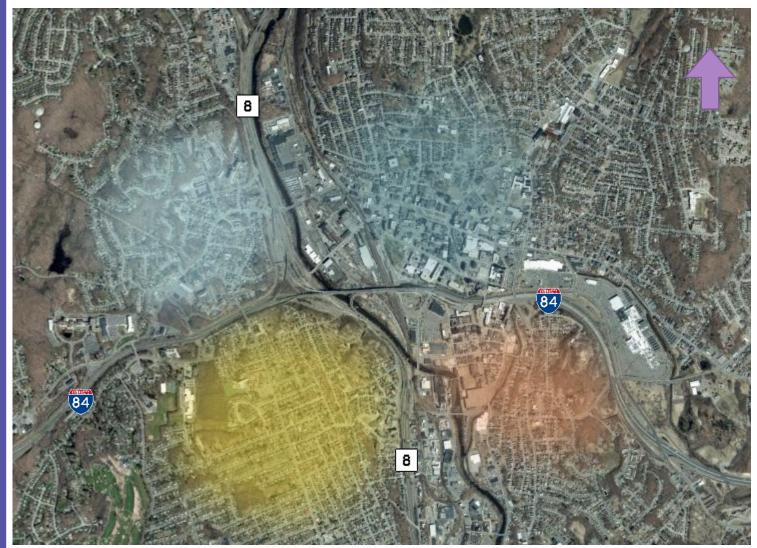
 No Person shall, on the basis of race, color or national origin, be excluded from participation or subject to discrimination in the development of this project.



Transportation & Development in Waterbury: Historical & Community Context



Community Context Historic Development Patterns: 1960 – Today



The Interchange Today

I-84 and Route 8 divide Waterbury into quadrants

Highway development = "progress"

- I-84 and Route 8 construction created permanent and continuous barriers
- Loss of connectivity
- Reliance on personal automobiles
- Recurring congestion

Mixmaster History (Original Construction)

Series of 10-12 projects had to be done in order to complete the initial structure of the Mixmaster, at an approximate cost of \$48M, with construction projects spanning from 1962-1981.





Rehabilitation of Mixmaster

• 5 rehabilitation projects 1988-2020

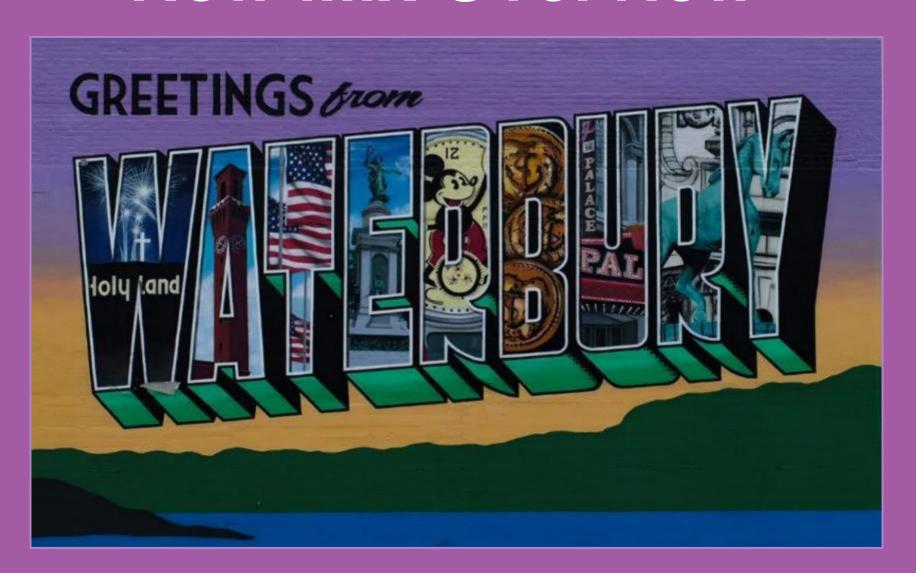
Ongoing Rehabilitation of Mixmaster Project

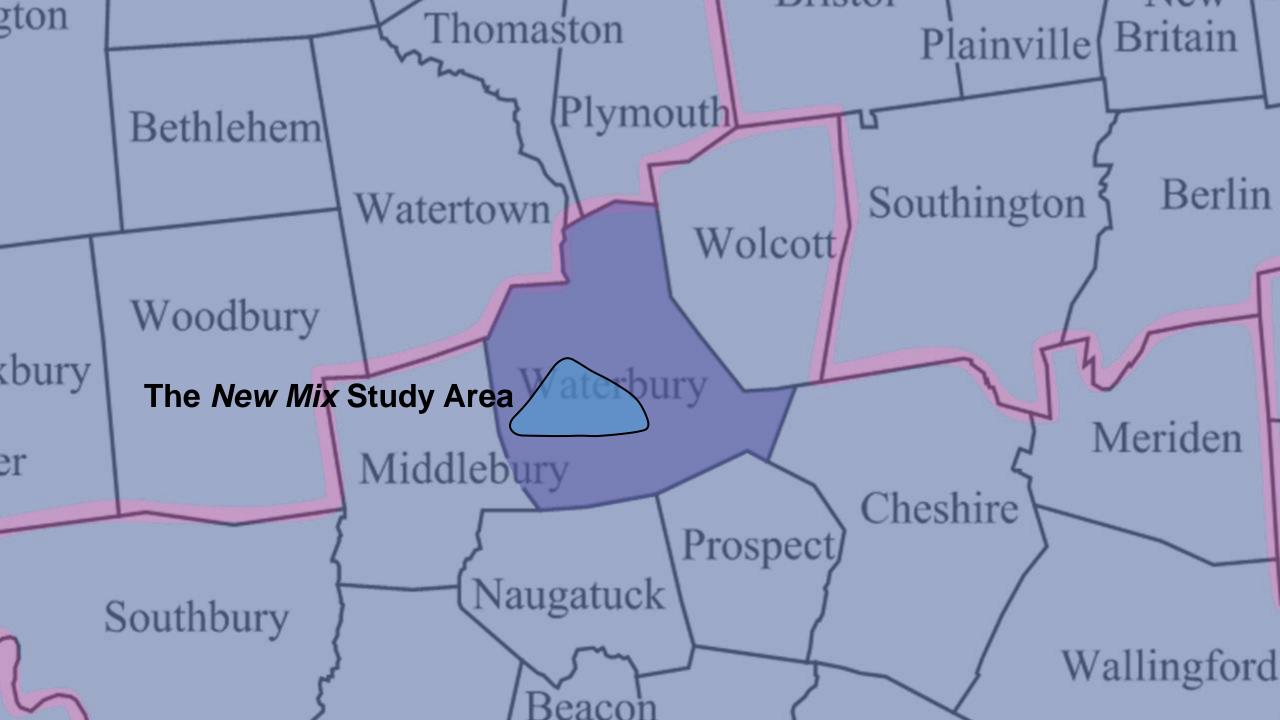
- Deck Replacements/Repairs
- Steel Strengthening/Repairs
- Concrete Repairs
- Pavement Improvement
- Guiderail Replacement
- Barrier Wall Modifications
- Temporary Bypass



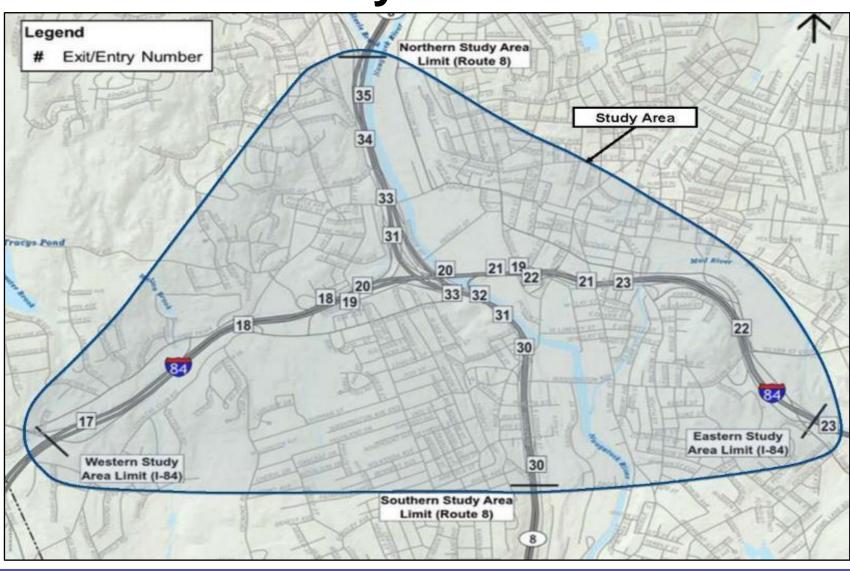
Current Major Rehabilitation, in Construction Spring 2018-Summer 2023

New Mix Overview



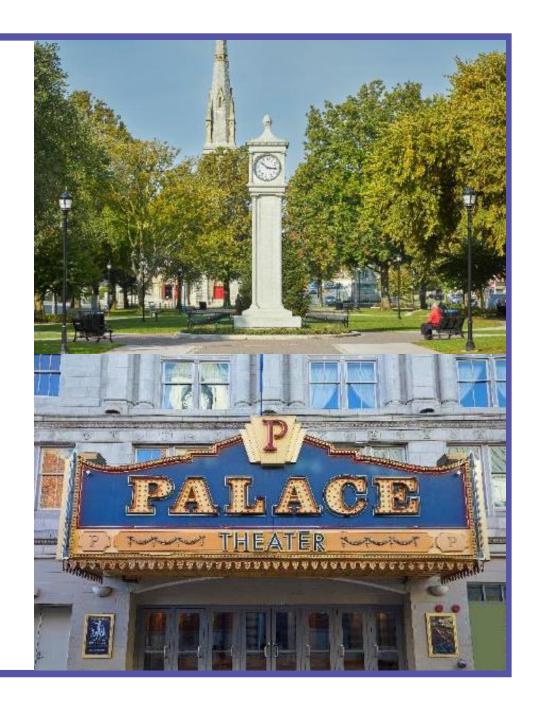


The New Mix Study Area



The New Mix

- Long-term plan for the future of the Mixmaster post-2045.
- Overarching vision is to:
 - Modernize the Mixmaster
 - Improve safety & functionality
 - Reduce congestion
 - Complement the economic development and community goals of the City of Waterbury
 - Serve Connecticut's transportation needs for decades to come
- Projects may occur over time



General Nature of Anticipated Projects





Early Action Projects

Improvements to local roads and intersections



Improvements to highway approaching Mixmaster compatible with Long-Term Projects







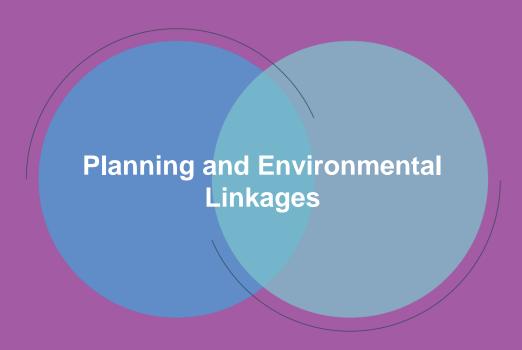


Long-Term Projects

Reconstruction of core interchange structures



Planning and Environmental Linkages (PEL) Study Overview

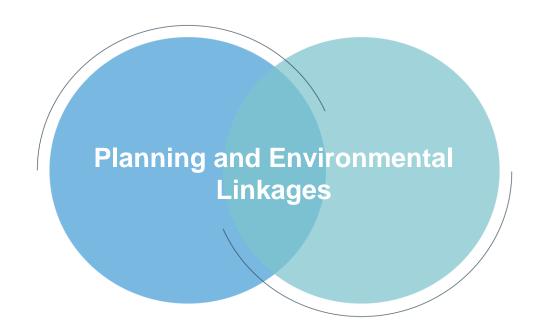


Planning and Environment Linkages (PEL)

What is a PEL Study?

Planning and Environmental Linkages (PEL) Study

- Federal Highway Administration (FHWA) recognized process
- Early start on technical studies, outreach, and public involvement
- Connect transportation planning and environmental/community concerns
- Identify key issues and risks associated with transportation projects
- Informs the National Environmental Policy Act (NEPA) Process



PEL Study= Pre-NEPA Process

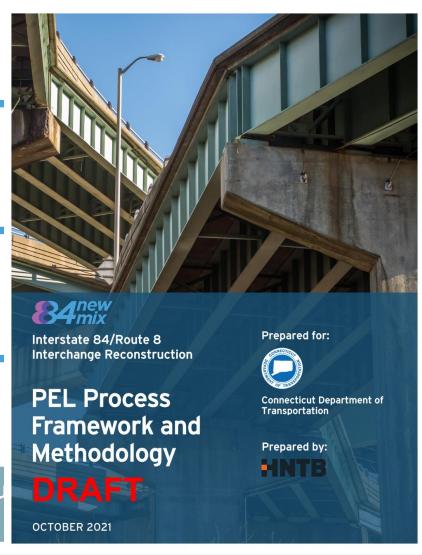


PEL Process Framework and Methodology

Identify
Transportation Needs
and Deficiencies

Develop Evaluation
Criteria and
Conceptual
Alternatives

Public Involvement and Outhroughout the PEL Study



Develop Purpose & Need and Goals & Objectives

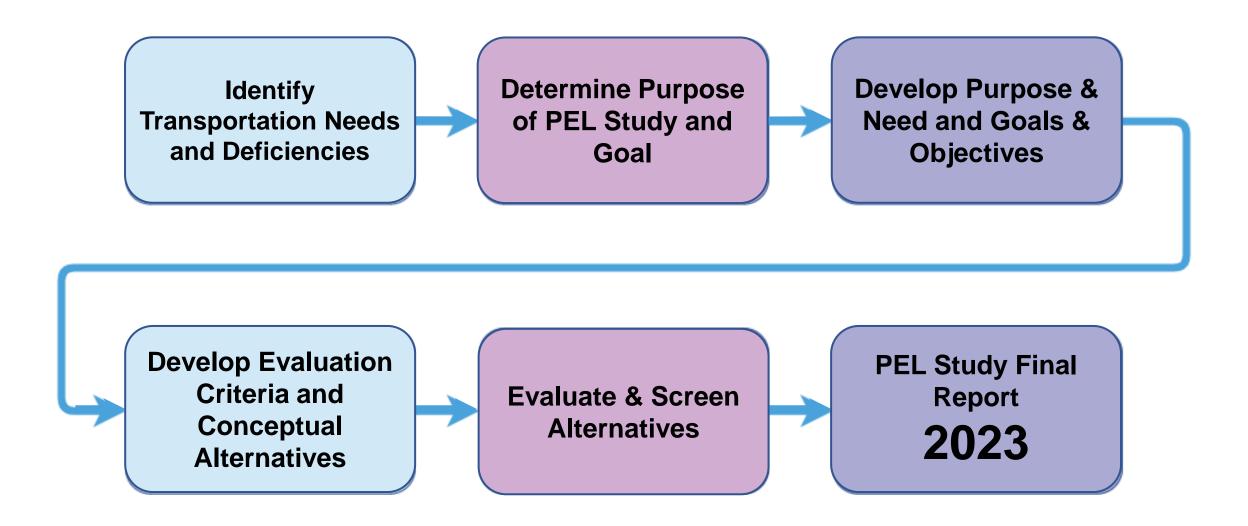
PEL Study Final Report 2023



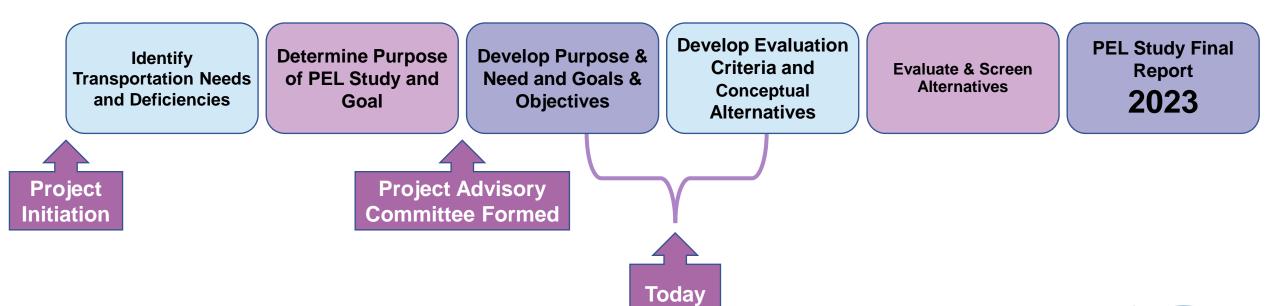


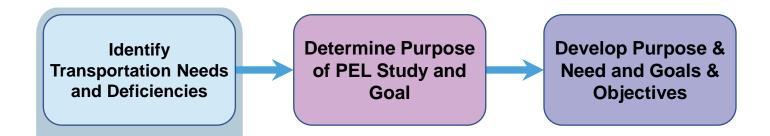
PEL Study Progress

The New Mix PEL Study Progress



The New Mix PEL Study Progress





Defining the problem that we're trying to solve:

- Transportation issues, a.k.a. needs and deficiencies
- Investigations, data collection, analyzing existing and future traffic
- Multimodal, community and environmental context features
- Documenting in a detailed report



- Transportation issues, a.k.a. needs and deficiencies
 - Structural
 - Geometric
 - Operational

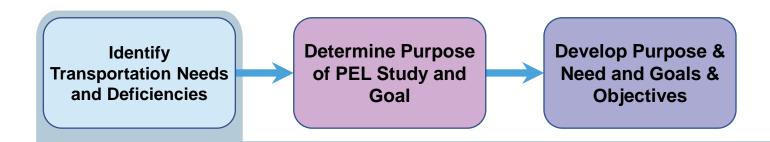
60% of bridges in poor condition (pre-rehab)

Current rehab extends bridge life through 2045

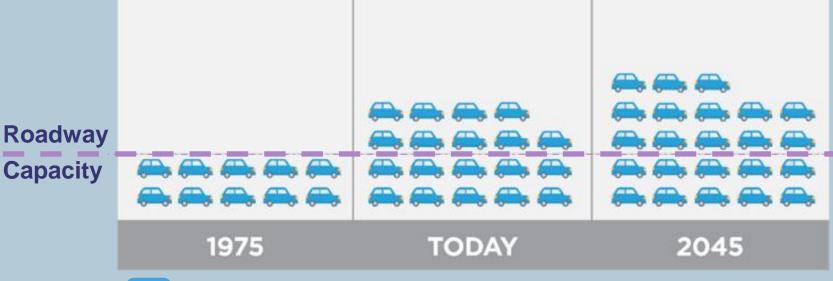
I-84 bridge deck needs

- Transportation issues, a.k.a. needs and deficiencies
 - Structural
 - Geometric





- Transportation issues, a.k.a. needs and deficiencies
 - Structural
 - Geometric
 - Operational

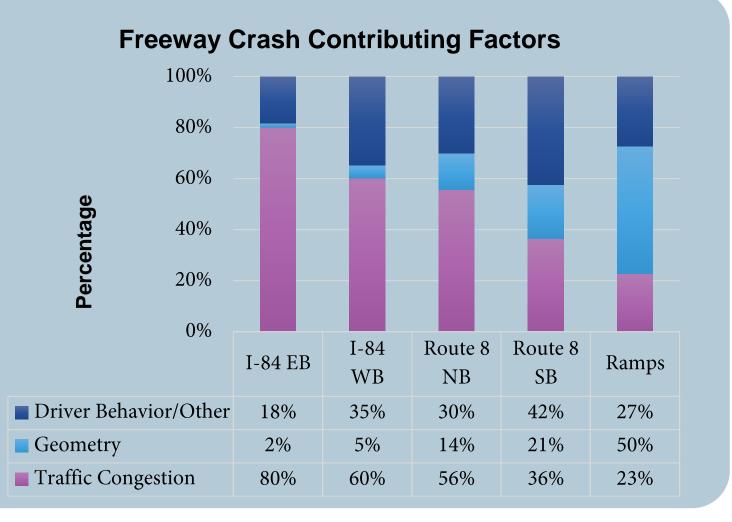




- Transportation issues, a.k.a. needs and deficiencies
 - Structural
 - Geometric
 - Operational



- Transportation issues, a.k.a. needs and deficiencies
 - Structural
 - Geometric
 - Operational



Develop Purpose & Determine Purpose Identify of PEL Study and Need and Goals & **Transportation Needs** and Deficiencies **Objectives** Goal

- Transportation issues, a.k.a. needs and deficiencies
 - Structural
 - Geometric
- Multimodal, community and environmental context features
 - The built environment
 - The natural environment







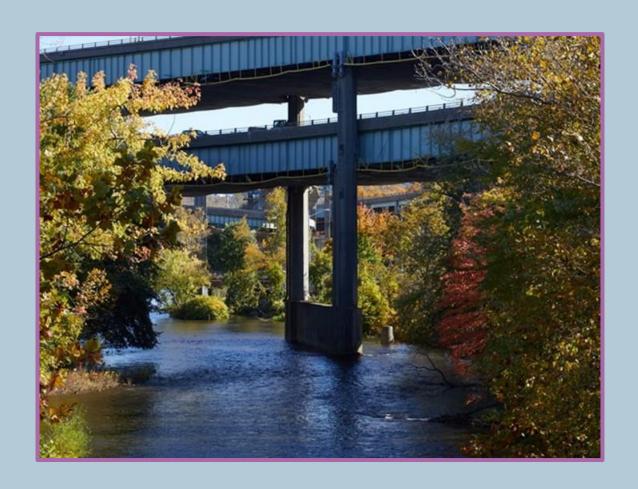








- Transportation issues, a.k.a. needs and deficiencies
 - Structural
 - Geometric
 - Operational
- Multimodal, community and environmental context features
 - The built environment
 - The natural environment



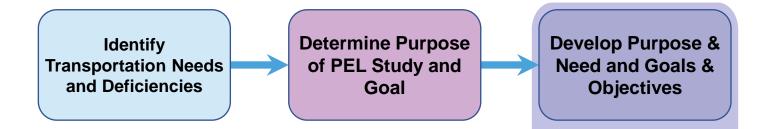
Identify
Transportation Needs
and Deficiencies

Determine Purpose
of PEL Study and
Goal

Develop Purpose &
Need and Goals &
Objectives

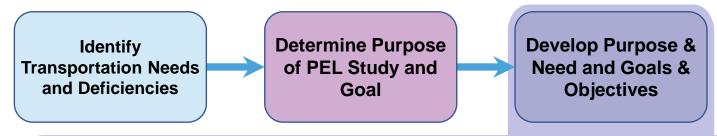
CTDOT desires to establish a vision, or master plan, for the interchange that is articulated as a prioritized plan for the phased implementation of improvements.

The overarching goal of the PEL Study is to develop a clear and supported plan of action for addressing deficiencies at the I-84/Route 8 Interchange and study area



- Purpose and Need Statement
 - What transportation issues and problems need to be addressed.
 - Why the project is being proposed, identifying transportation solutions.
 - Describes the intended/desired outcome(s) of the project.
- Establishes a basis for a range of reasonable alternatives to be evaluated in the environmental document and to move forward into NEPA.





NEEDS (problems)	PURPOSE (solutions)			
Structural Deficiencies	To improve I-84/Route 8 bridge conditions.			
Geometric Deficiencies	To improve I-84/Route 8 roadway conditions.			
Operational (Traffic) Deficiencies (including congestion)	To improve the level of service of I-84/Route 8 and associated local road network.			
GOALS & OBJECTIVES (Intended Outcomes)				
Improve system performance;	Enhance mobility equity and safety for bicyclists and pedestrians;			

- Reduce congestion;
- Reduce crash rates;
- Maintain critical system linkages in Connecticut and the Northeast:
- Facilitate connectivity with Waterbury through the local road network including multimodal travel;
- Provide connections to the Naugatuck River and Greenway:
- Improve the local roadway network;
- Reduce interchange complexity;

- Integrate the Project with ongoing City projects;
- Improve access to Downtown and key destinations;
- Strengthen surrounding neighborhoods as gateways to the City's Central Business District (CBD);
- Support City revitalizing goals of the CBD;
- Support opportunities to improve equitable access to multimodal facilities;
- Avoid, minimize or mitigate potential Project consequences to the environment;

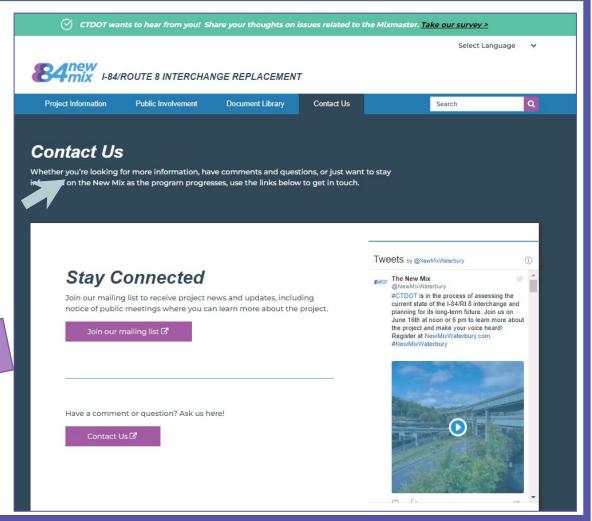
May be further refined to incorporate issues and data identified during stakeholder and public involvement processes including coordination with project partners and the public.

Next Steps

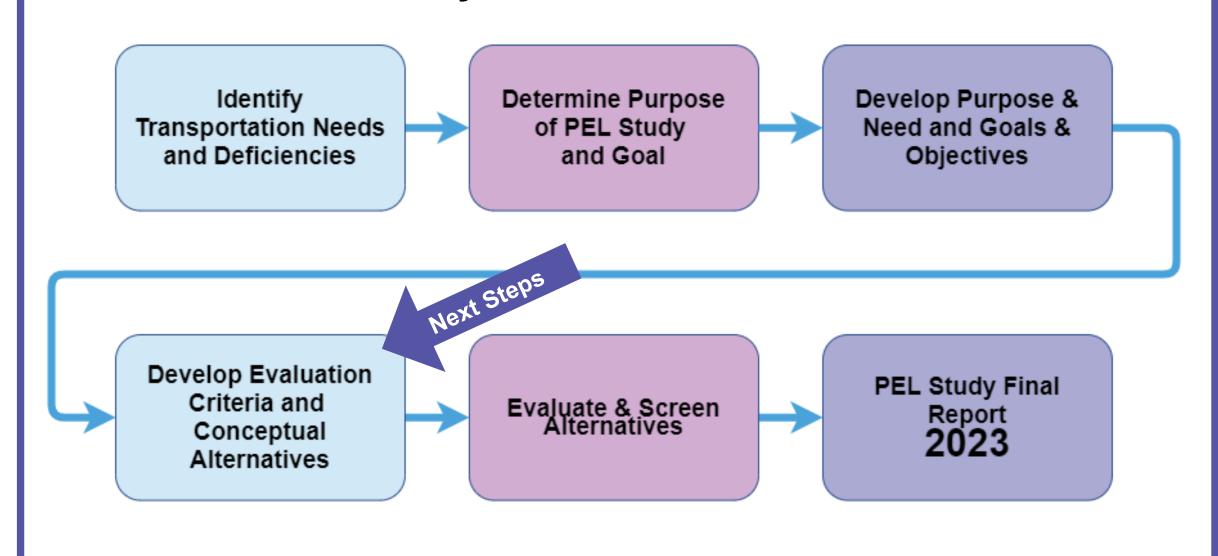
Public Feedback Due

Comments / Input Due: June 30, 2022 Send in your comments through the website

June							
S	М	Т	W	TH	F	S	
29	30	31	1	2	3	4	
5	6	7	8	9	10	11	
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26	27	28	29	PUE		1	
3	4	5	6	7	8	9	



New Mix PEL Study: Overview of Schedule



New Mix PEL Study Screening Process Analysis, Needs & Deficiencies Study **Universe of Alternatives Transportation-Transportation Related Goals Needs and Purpose** X Not Advancing Input from Level 1: Least detail Agencies, PAC, Level 2: Medium detail Public, & Stakeholders Level 3: Most detail Advancing PEL RECOMMENDATIONS

Upcoming Public Meetings

Public Mtg #2 Late Summer 2022

Where:

Anticipated Virtual via Zoom

Topics:

Finalize Preliminary Purpose & Need Statement Present Conceptual Alternatives and Level 1 Evaluation Criteria, and Obtain Input from public

Public Mtg #3 Fall 2022

Where:

Anticipated Hybrid: Virtual via Zoom/Inperson

Location TBD

Topics:

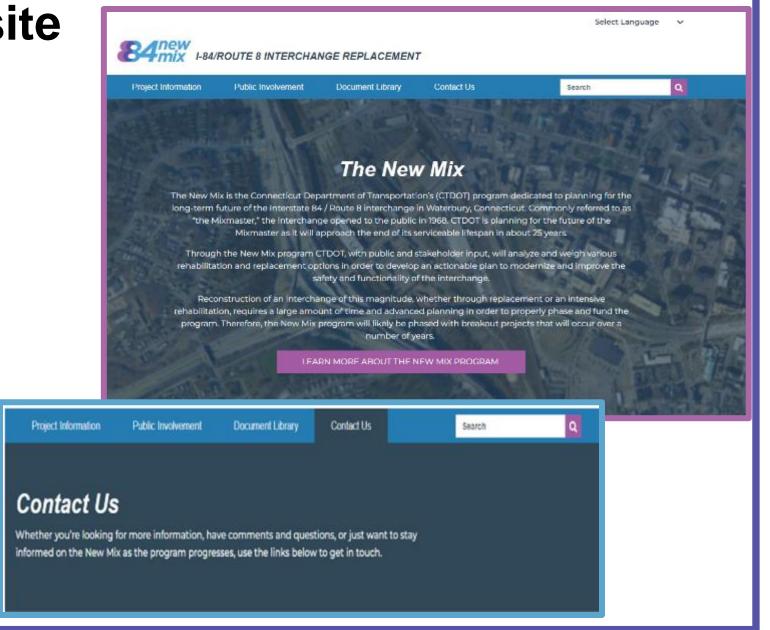
Present Level 1 Screening Results, Level 2 Evaluation Criteria, and Obtain Input from public

The New Mix Website

Please check out The New Mix website!

NEWMIXWATERBURY.COM

- Access Project History, FAQ, and more
- Subscribe to New Mix news and updates
- Ask us any questions or provide comments you may still have!



Send Us Your Thoughts...

NEEDS (problems)	PURPOSE (solutions)		
Structural Deficiencies	To improve I-84/Route 8 bridge conditions.		
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May be further refined to incorporate issues and data identified during stakeholder and public involvement processes including coordination with project partners and the public.

Questions & Comments



The New Mix Project: Question & Answer Session

State Project # 151-331
Provide feedback through the following...



Project Email: thenewmixwaterbury@gmail.com



Chat: using the Zoom chat function during the live event.



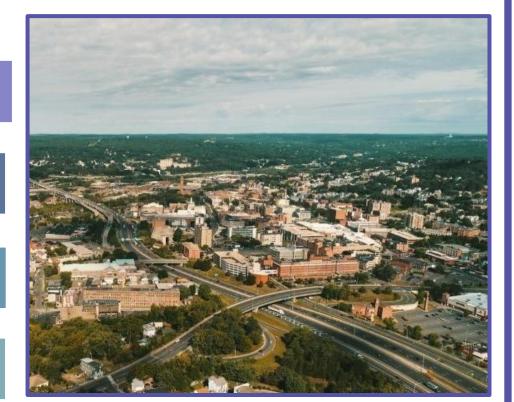
Webpage: newmixwaterbury.com



Survey: https://bit.ly/NewMixSurvey1



Call us at 203-805-8018









A recording of this presentation will be made available on the project website.

Thank you.





