

Agenda Item Summary

To: Policy Board; Transportation Committee

From: Rob Aloise, Director of Transportation Planning

CC: Matt Hart, Executive Director

Meeting Date: 10/23/2024 (Transportation Committee: 10/21/2024)

Subject: TIP Amendments

Background: Each Metropolitan Planning Organization (MPO) is required to maintain a four-year Transportation Improvement Program (TIP), detailing all federal surface transportation funding. As part of maintaining this document, the MPO approves amendments as needed.

Benefit to Member Towns/CRCOG: The following projects are included:

1. Various—Non-Coastal CT Resilience Improvement Plan
2. Various—Install EV Chargers at Various Locations
3. Newington—Compass AI Technology Evaluation
4. Various—I-84/CT8—Replace/Upgrade Cameras and Communications Equipment

Financial/Operational Impact: See attached table and backup material for individual project funding details.

Project Schedule: See attached table and backup material for individual project schedule details.

Recommendation: CRCOG Staff recommends approval. The Transportation Committee will provide a recommendation at their meeting on 10/21/2024.

Attachments:

- TIP Amendment Summary Sheet
- Project Backup Materials as provided by CTDOT

TIP Amendments (FFY 2025-2028 TIP)

Approved by the CRCOG Transportation Committee on 09/16/2024
 Approved by the CRCOG Policy Board on 09/18/2024

ID #	Funding Program	Proj. No.	Route or System	Town or Area	Description	Phase	Year	Total \$ (000s)	Fed \$ (000s)	State \$ (000s)	Local \$ (000s)	Comments
1	PROTECT (FHWA)	0170-PROTECT22-23	VARIOUS	VARIOUS	NON-COASTAL CT RESILIENCE IMPROVEMENT PLAN	ALL	2025	1,200	1,200	0	0	NEW PROJECT
2	CFI (FHWA)	0170-CFI22-23		VARIOUS	INSTALL EV CHARGERS AT VARIOUS LOCATIONS	ALL	2025	18,316	14,653	0	3,663	NEW PROJECT
3	STIC	0093-0254		NEWINGTON	COMPASS AI TECHNOLOGY EVALUATION	OTH	2025	106	85	21	0	NEW PROJECT
4a	CMAQ	0170-3740	I-84/CT 8	VARIOUS	REPLACE/UPGRADE CAMERAS AND COMMUNICATIONS EQUIPMENT	PD	2025	1,500	1,200	300	0	
4b	CMAQ	0170-3740	I-84/CT 8	VARIOUS	REPLACE/UPGRADE CAMERAS AND COMMUNICATIONS EQUIPMENT	FD	2025	1,000	800	200	0	
4c	CMAQ	0170-3740	I-84/CT 8	VARIOUS	REPLACE/UPGRADE CAMERAS AND COMMUNICATIONS EQUIPMENT - AC ENTRY	CON	2026	0	0	0	0	
4d	CMAQ	0170-3740	I-84/CT 8	VARIOUS	REPLACE/UPGRADE CAMERAS AND COMMUNICATIONS EQUIPMENT - AC CONVERSION	CON	2026	1,250	1,000	250	0	
4e	CMAQ	0170-3740	I-84/CT 8	VARIOUS	REPLACE/UPGRADE CAMERAS AND COMMUNICATIONS EQUIPMENT - AC CONVERSION	CON	2027	12,500	10,000	2,500	0	
4f	CMAQ	0170-3740	I-84/CT 8	VARIOUS	REPLACE/UPGRADE CAMERAS AND COMMUNICATIONS EQUIPMENT - AC CONVERSION	CON	2028	9,250	7,400	1,850	0	

Promoting Resilient Operations for Transformative, Efficient, and Cost-saving Transportation (PROTECT) Program: CFDA Number 20.205
PROTECT CT – Resilience Improvement Plan and Vulnerability Assessment for Non-Coastal Connecticut

Additional Budget Information

Per the Notice of Funding Opportunity, this document will further explain the items contained within the non-construction activities budget form (SF-424A).

To conduct the PROTECT CT – Resilience Improvement Plan and Vulnerability Assessment for Non-coastal Connecticut, the NVCOG is requesting a total of \$1,200,000 in funding. The NOFO for resilience planning grants provides 100% federal funding. The Naugatuck Valley Council of Governments (NVCOG) will partner with the Capitol Region Council of Governments (CRCOG), the Northeastern Connecticut Council of Governments (NECCOG) and the Northwest Hills Council of Governments (NHCOG).

These funds will be broken into two major categories. The majority of funds, approximately \$1,000,000, will be spent engaging a qualified Consulting Engineer (CE) Firm to perform the following tasks.

- Comprehensive data collection to identify critical transportation assets and systems, assess resilience vulnerabilities and risks, and determine strategies and actions to mitigate and address risks.
- Conduct a comprehensive and data-based vulnerability and risk assessment of the municipal transportation assets and determine the risks from natural hazards of inland, northern Connecticut.
- Identify and analyze adaptation and resilience options will be identified and analyzed. Possible options include natural, structural, or policy-based and will range from site specific actions to regional applications.
- Develop a web-based vulnerability mapping application to facilitate the use and dissemination of the project’s findings and ensure the results, findings and conclusion of the vulnerability and risk assessment are readily available to decision-makers and practitioners.

The remaining project funds (\$200,000) will be allocated to the NVCOG, CRCOG, NECCOG and NHCOG to cover staff costs associated with the project. These funds will cover four categories of staff time along with expenses for travel and supplies.

- Field work – COG staff will participate field inspection and review of identified vulnerable transportation assets, as necessary.

- Planning – COG staff will provide guidance and technical oversight to the project’s overall planning efforts. Work will include the tasks listed below, along with any others required to provide a high-quality final product that complies with program requirements and generates positive outcomes within the study area communities.
 - Aid with regional priorities and goals, including context for the respective Metropolitan Transportation Plans (MTPs) and Transportation Improvement Programs (TIPs) within the project area, and any other relevant planning material.
 - Assist in development of adaptation concepts and strategies.
 - Review, accept or reject CE presented preferred alternatives
- Stakeholder and municipal coordination and communication – COG staff will serve as the points of contact between the project consultant and municipal staff and community stakeholders. COG staff will also be responsible for coordination with the CTDOT and CT DEEP. Specific activities include:
 - Hold bi-weekly study team meetings to provide oversight of CE work, ensure timely completion of tasks, and compliance with program policies.
 - Hold Technical Advisory Committee meetings, including CE, Municipal Staff, and CTDOT staff, to ensure comments are incorporated early and regularly throughout the study process.
 - Present regular updates to the various Transportation Technical Advisory Committees and Policy Boards within the project area.
- Public engagement – COG staff will oversee outreach and communication with the public, including:
 - Develop and maintain a project webpage.
 - Develop and implement a social media strategy.
 - Hold a series of public meetings and design charettes at critical points throughout the project.
 - Hold listening sessions to gather input from residents. Staff will complete additional tasks as required to ensure that the public is able to participate and direct the development of preferred alternatives.
- Project administration – the NVCOG will be responsible for the administration of related contracts and grant requirements as well as management of all financial matters. The following staff will complete work on this category: Financial Director, Financial Manager, and Staff Accountant. Additional staff as necessary may also bill against this category.

The allocation of funds by task is shown in the table below.

Task Allocation Budget		
1. Project Initiation	\$24,000	2.0%
2. Community Engagement	\$238,650	19.9%
3. Data Collection	\$216,000	18.0%
4. Vulnerability & Risk Assessment	\$360,450	30.0%
5. Technical Capacity Building	\$180,000	15.0%
6. Short-list of Preferred Alternatives	\$24,000	2.0%
7. Develop Implementation Guide	\$36,300	3.0%
8. Final Report	\$60,000	5.0%
9. Administration	\$60,600	5.1%
Total:	\$1,200,000	

The allocation of project funds for each COG are shown in the following table.

Allocation of PROTECT Funds	
Naugatuck Valley Council of Governments	\$125,000
Capitol Region Council of Governments	\$35,000
Northeastern Connecticut Council of Governments	\$20,000
Northwest Hill Council of Governments	\$20,000
Subtotal:	\$200,000
Consultant Services	\$1,000,000
Total:	\$1,200,000

Project No	Region	Route	Town	Description	Project Manager
0093-0254	10		NEWINGTON	COMPASS AI TECHNOLOGY EVALUATION	Bourgoin, Bruce

Phase	Year	FA CODE	TOTAL	FEDERAL	STATE	LOCAL	Fiscal Impact:	2025	2026	2027	2028
OTH	2025	STIC	106,250	85,000	21,250	0		85,000	0	0	0

Revision Code	05-New project amendment	Add new project.
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0093-0254	OTH	Phase Total:	106,250	Federal Share:	85,000	State Share:	21,250	Local Share:	0
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- 01-Move project to another year
 - a - Funding limitations
 - b - Outstanding ROW issue
 - c - Outstanding Permit
 - d - Other (Specify)
 Comments:

- 02-Fiscal constraint
 - a - Funding fully programmed
 - b - State match not available
 - c - Local match not available
 - d - Other
 Comments:

- 03-Design schedule change
 - a - Permit issue
 - b - CTDOT staffing issue
 - c - Local staffing issue
 - d - ROW issue
 - e - Other
 Comments:

- 04-Revised cost estimate
 - a - Increase due to inflation
 - b - Increase due to (specify)
 - c - Decrease due to (specify)
 - d - Other
 Comments:

- 05-New project
 - a - Project requested by (specify)
 - b - Copy of RPM attached
 Comments:

- 06-New phase
 - a - PE phase required
 - b - ROW phase required
 - c - CON phase required
 Comments:

- 07-Administrative requirement
 - a - Add AC entry
 - b - Other
 Comments:

- 08-Delete phase
 - a - Phase not required
 - b - Phase changed to State funds
 - c - Phase changed to Local funds
 - d - Other
 Comments:

- 09-Delete project
 - a - Not supported by State
 - b - Not supported by Region
 - c - Not supported by Town
 - d - Change to State funded
 - e - Change to Local funded
 - d - Other
 Comments:

- 10-Correction
 -
 Comments:

- 11-Financing/Funding revision
 - a - Due to project schedule
 - b - Due to funding availability
 - c - Other
 Comments:

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**



**PROJECT MEMORANDUM FOR
ENGINEERING - NO PPI**

DATE: 10/2/2024

To: **Darren E. Meyers**
Director of Capital Services
Bureau of Finance & Administration

MOD # RPM

From: Jen Adams for Bruce Bourgoin
RE Project ID: **DOT00930254RE**
FD Project ID:
RW Project ID:
CN Project ID:

Please Review Project Information and Estimate for Approval:

Project Description (short): 27 (30 Characters)	Compass AI Technology Eval.
Project Description (long): 192 (254 Characters)	This project provides funds to evaluate and propose solutions to use AI (Artificial Intelligence) technology in existing Compass applications. PODI term project through 4/30/25; PAED 10/31/28.

Justification: 649 (1333 Characters)	CTDOT received FFY 2024 STIC (State Transportation Innovation Council) Incentive program funding to support the research to determine potential uses of AI technology within CTDOT's project management system, COMPASS. CTDOT and their consultant will produce a report detailing potential AI solutions. Funding includes the cost of ChatGPT Copilot Studio software that may be required. It is anticipated that a future project would be created to implement AI technology inside existing and future COMPASS applications. Funds were allocated in FFY 2024 (Allocation Memorandum dated 8/13/24) under Program Code Y37H and CFDA 20.200. Federal Share is 80%.
Project Manager: Bruce Bourgoin	Finance Section: Project designated as a PODI and requires a STIP entry per 8/14/24 email from Kelly Cain that includes information from Sara Perez at FHWA. Funds must be obligated within 6 months of notification of allocation into FMIS, 2/13/25. Project is planned to be opened and active in Core-CT by 1/1/25.
Project Engineer: John Dudzinski	

Scope Code: #N/A (Scope Code is only for a project w/CN phase)

Requested Schedule (Project Manager):	
<input type="checkbox"/> State ADV	11/1/24 or ASAP * RE Start * Per Finance, anticipate 1/1/25 start date
<input type="checkbox"/> Town ADV	Design Approval/FD/RW
	FDP
	DCD
	ADV

Estimates Summary:		Project Type CN	
Project Type	EST Amount Requested	Activity	EST Amount Requested
RE	106,250.00	CT	\$0
FD	\$0	CG	\$0
		IN	\$0
Total	106,250.00	NI	\$0
		NF	\$0
		UT	\$0
		RF	\$0
		SF	\$0
		TF	\$0
		CM	\$0
Total	\$0	Total	\$0

Project Grand Total (Sum of Project Types) = \$106,250

Submitted by: (sign & date)	Approved by: (sign & date)
Principal Engineer - William Pratt	Assistant Chief Engineer - James A. Fallon
Division Chief - Rabih Barakat	Director of Capital Services - Darren E. Meyers

TIP/STIP~Action and Amendment Details

Project No	Region	Route	Town	Description	Project Manager
0170-3740	05, 10	I-84/CT 8	VARIOUS	REPLACE/UPGRADE CAMERAS AND COMMUNICATIONS EQUIPMENT	Colangelo, Anthony

Phase Year	FA CODE	TOTAL	FEDERAL	STATE	LOCAL	Fiscal Impact:	2025	2026	2027	2028
FD	2025 CMAQ	1,000,000	800,000	200,000	0		800,000	0	0	0

Revision Code 05-New project

amendment Add new project.

0170-3740 FD Phase Total: 1,000,000 Federal Share: 800,000 State Share: 200,000 Local Share: 0

Phase Year	FA CODE	TOTAL	FEDERAL	STATE	LOCAL	Fiscal Impact:	2025	2026	2027	2028
PD	2025 CMAQ	1,500,000	1,200,000	300,000	0		1,200,000	0	0	0

Revision Code 05-New project

amendment Add new project.

0170-3740 PD Phase Total: 1,500,000 Federal Share: 1,200,000 State Share: 300,000 Local Share: 0

Phase Year	FA CODE	TOTAL	FEDERAL	STATE	LOCAL	Fiscal Impact:	2025	2026	2027	2028
CN	2026 CMAQ	0	0	0	0		0	0	0	0

Revision Code 07-Administrative requirement

amendment Add new project.

0170-3740 CN Phase Total: 0 Federal Share: 0 State Share: 0 Local Share: 0

Phase Year	FA CODE	TOTAL	FEDERAL	STATE	LOCAL	Fiscal Impact:	2025	2026	2027	2028
CN	2026 CMAQ	1,250,000	1,000,000	250,000	0		0	1,000,000	0	0

Revision Code 05-New project

amendment Add new project.

0170-3740 CN Phase Total: 1,250,000 Federal Share: 1,000,000 State Share: 250,000 Local Share: 0

Phase Year	FA CODE	TOTAL	FEDERAL	STATE	LOCAL	Fiscal Impact:	2025	2026	2027	2028
CN	2027 CMAQ	12,500,000	10,000,000	2,500,000	0		0	0	10,000,000	0

Revision Code 05-New project

amendment Add new project.

0170-3740 CN Phase Total: 12,500,000 Federal Share: 10,000,000 State Share: 2,500,000 Local Share: 0

Phase Year	FA CODE	TOTAL	FEDERAL	STATE	LOCAL	Fiscal Impact:	2025	2026	2027	2028
CN	2028 CMAQ	9,250,000	7,400,000	1,850,000	0		0	0	0	7,400,000

Revision Code 05-New project

amendment Add new project.

0170-3740 CN Phase Total: 9,250,000 Federal Share: 7,400,000 State Share: 1,850,000 Local Share: 0

<input type="checkbox"/> 01-Move project to another year	<input type="radio"/> a - Funding limitations <input type="radio"/> b - Outstanding ROW issue <input type="radio"/> c - Outstanding Permit <input type="radio"/> d - Other (Specify)	Comments:
<input type="checkbox"/> 02-Fiscal constraint	<input type="radio"/> a - Funding fully programmed <input type="radio"/> b - State match not available <input type="radio"/> c - Local match not available <input type="radio"/> d - Other	Comments:
<input type="checkbox"/> 03-Design schedule change	<input type="radio"/> a - Permit issue <input type="radio"/> b - CTDOT staffing issue <input type="radio"/> c - Local staffing issue <input type="radio"/> d - ROW issue <input type="radio"/> e - Other	Comments:
<input type="checkbox"/> 04-Revised cost estimate	<input type="radio"/> a - Increase due to inflation <input type="radio"/> b - Increase due to (specify) <input type="radio"/> c - Decrease due to (specify) <input type="radio"/> d - Other	Comments:
<input type="checkbox"/> 05-New project	<input type="radio"/> a - Project requested by (specify) <input type="radio"/> b - Copy of RPM attached	Comments:
<input type="checkbox"/> 06-New phase	<input type="radio"/> a - PE phase required <input type="radio"/> b - ROW phase required <input type="radio"/> c - CON phase required	Comments:
<input type="checkbox"/> 07-Administrative requirement	<input type="radio"/> a - Add AC entry <input type="radio"/> b - Other	Comments:
<input type="checkbox"/> 08-Delete phase	<input type="radio"/> a - Phase not required <input type="radio"/> b - Phase changed to State funds <input type="radio"/> c - Phase changed to Local funds <input type="radio"/> d - Other	Comments:
<input type="checkbox"/> 09-Delete project	<input type="radio"/> a - Not supported by State <input type="radio"/> b - Not supported by Region <input type="radio"/> c - Not supported by Town <input type="radio"/> d - Change to State funded <input type="radio"/> e - Change to Local funded <input type="radio"/> d - Other	Comments:
<input type="checkbox"/> 10-Correction		Comments:
<input type="checkbox"/> 11-Financing/Funding revision	<input type="radio"/> a - Due to project schedule <input type="radio"/> b - Due to funding availability <input type="radio"/> c - Other	Comments:



DATE: 10/8/2024

To: **Darren E. Meyers**
Director of Capital Services
Bureau of Finance & Administration

MOD # RPM

From: L. Zhang for Anthony Colangelo
PE or PL Project ID: **DOT01703740PE**
FD Project ID: **DOT01703740FD**
RW Project ID:
CN Project ID: **DOT01703740CN**

Please Review Project Information and Estimate for Approval:

Project Description (short): 30 (30 Characters)	I84/CT8CCTV Hartford/Waterbury
Project Description (long): 246 (254 Characters)	Replacement/upgrade of cameras and communications equipment, along the I-84 corridor from Waterbury to Hartford and along the Route 8 corridor from Naugatuck to Waterbury, with modern equipment on taller camera poles with camera lowering devices.

Justification: 928 (1333 Characters)	Cameras in the Hartford area were installed in the early-2000s. The ATMS equipment is nearing the end of its useful life and some components are no longer manufactured or available. FHWA has determined that this project is eligible for CMAQ funding in the category of reducing emissions related to traffic congestion. This project will replace 69 existing closed-circuit television (CCTV) cameras along I-84 and Route 8. The replacements will provide additional emissions benefits over the existing system by adding digital camera analytics for faster queue and incident detection and providing the CT DOT with better highway coverage and the ability to detect more incidents between camera locations. The upgraded CCTV cameras on I-84 and Route 8 will improve motorist information, monitor construction and maintenance work, perform highway information activities, and improve public safety. The PE phase includes a PD/FD split.
Project Manager: Anthony Colangelo	
Project Engineer:	PPI # PP025-0013. CMAQ eligibility determination made by Erik Shortell of FHWA 4/18/24. CN anticipated to take two seasons (CY27/28). CN Federal funds to be phased \$1M FY26, \$10M FY27, \$7.4M FY28. Project area includes CRCOG and NVCOG.

Scope Code: **RP 4** RP 4 - Miscellaneous Roadway Projects (Scope Code is only for a project w/CN phase)

Requested Schedule (Project Manager):	
<input type="checkbox"/> State ADV	12/4/2024 PE(PD) or PL Start
<input type="checkbox"/> Town ADV	8/13/2025 Design Approval/FD/RW
	5/20/2026 FDP
	7/1/2026 DCD
	7/29/2026 ADV

Estimates Summary:		Project Type CN	
Project Type	EST Amount Requested	Activity	EST Amount Requested
PE or PL	\$1,500,000	CT	\$23,000,000
FD	\$1,000,000	CG	\$0
Total	\$2,500,000	IN	\$0
Project Type	EST Amount Requested	NI	\$0
RW	\$0	NF	\$0
Total	\$0	UT	\$0
		RF	\$0
		SF	\$0
		TF	\$0
		CM	\$0
		Total	\$23,000,000

Project Grand Total (Sum of Project Types) = \$25,500,000

Submitted by: (sign & date)	Approved by: (sign & date)
Project Manager - Anthony Colangelo	Bureau Chief - Paul T. Rizzo
Principal Engineer - Harold Decker	Director of Capital Services - Darren E. Meyers

