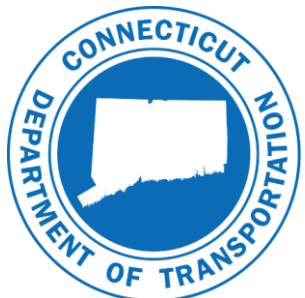


Infrastructure Investment and Jobs Act Implementation: Contractor Overview

November 2021

Housekeeping Notes:

- This meeting will be recorded.
- Attendee microphones will be disabled during the presentation and will be reactivated for the Q&A portion.
- During the Q&A, please raise your hand. When called on, you will need to unmute your microphone to speak.
- When asking a question, please state your name and the name of your company. Once you have asked your question, please mute your microphone and lower your hand.
- Questions can also be submitted through the meeting chat and will be read by the moderator.
- For anyone calling in on the audio only phone line, you can raise and lower your hand by pressing *5 and you can mute and unmute your line by pressing *6.



Today's Agenda

- Opening Remarks – Commissioner Giulietti
- Overview of Anticipated Federal Funding
- What Must be Delivered
- Major Projects in the Base Capital Program
- CTDOT's Plan for Expanded Infrastructure Program
- Time for CT
- Implementation Considerations
- Questions & Answers

Overview of Anticipated Federal Formula Funding

FHWA	Yearly Total	Program Size Relative to 2021 Program	Increase over 2021 Program
2021	\$ 549,841,415		
2022	\$ 788,243,862	143%	\$ 238,402,447
2023	\$ 801,552,715	146%	\$ 251,711,300
2024	\$ 815,127,746	148%	\$ 265,286,331
2025	\$ 828,974,277	151%	\$ 279,132,862
2026	\$ 843,097,737	153%	\$ 293,256,322


FTA	Yearly Total	Program Size Relative to 2021 Program	Increase over 2021 Program
2021	\$ 200,684,201		
2022	\$ 249,586,741	124%	\$ 48,902,540
2023	\$ 254,675,083	127%	\$ 53,990,882
2024	\$ 261,505,210	130%	\$ 60,821,009
2025	\$ 267,029,567	133%	\$ 66,345,366
2026	\$ 273,990,153	137%	\$ 73,305,952








FHWA + FTA Formula Funding	Grand Total by Year	Program Size Relative to 2021 Program	Increase over 2021 Program
2021	\$ 750,525,616		
2022	\$ 1,037,830,603	138%	\$ 287,304,987
2023	\$ 1,056,227,798	141%	\$ 305,702,182
2024	\$ 1,076,632,956	143%	\$ 326,107,340
2025	\$ 1,096,003,844	146%	\$ 345,478,228
2026	\$ 1,117,087,890	149%	\$ 366,562,274

Note: These values do not include matching State funds.



Overview of Anticipated Federal Grant Funding

NEC COMPETITIVE GRANTS		
	\$30 B	<ul style="list-style-type: none"> • Make <u>Time for CT</u> and <u>Northeast Corridor's C35</u> a reality • Northeast Corridor grants to procure & address deferred maintenance backlog on Amtrak's Northeast Corridor (\$6 B) • Intercity Passenger Rail Fed-State Partnership grants to repair/replace/ rehabilitate qualified railroad assets to improve state of good & performance (\$24 B)

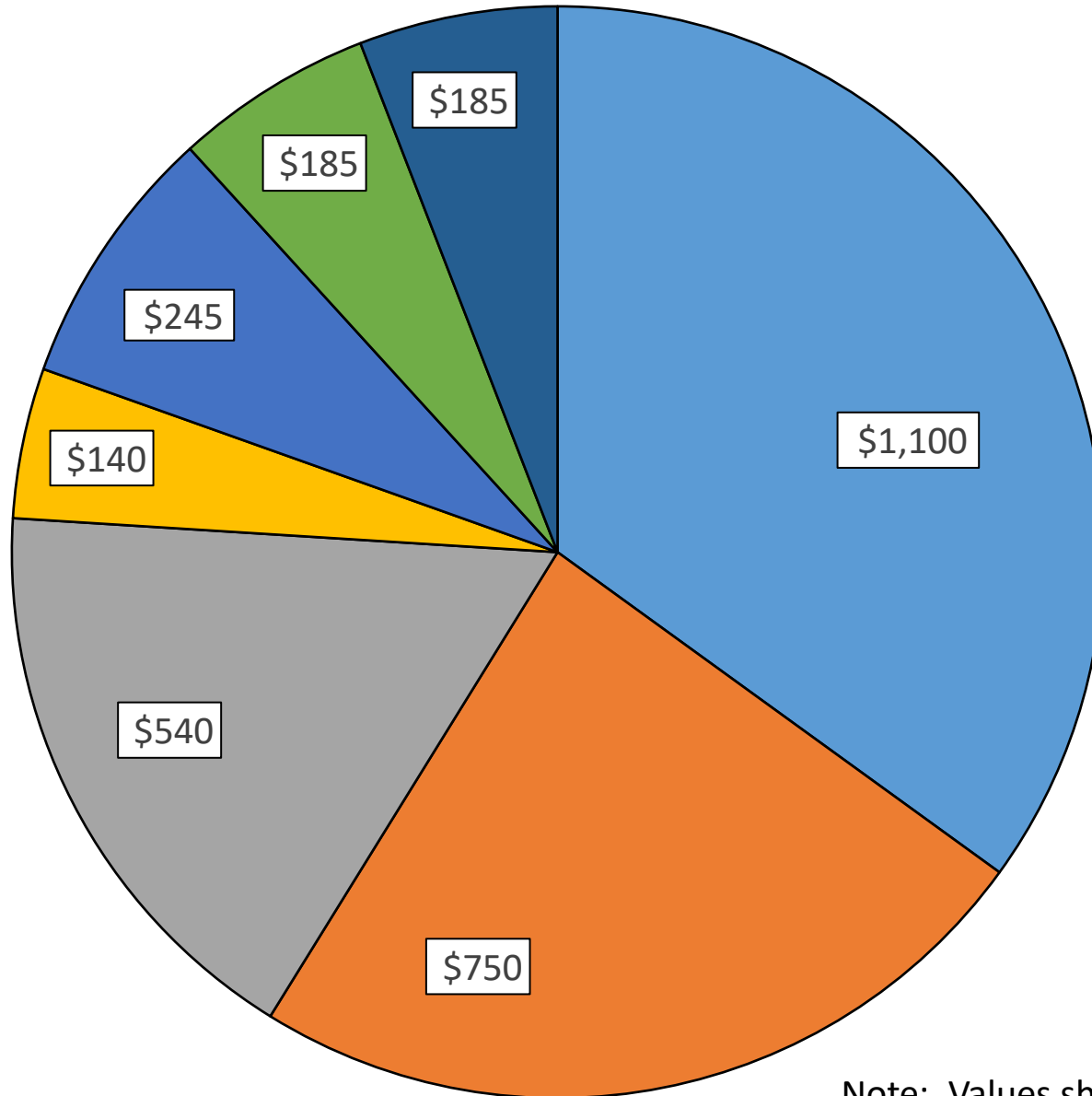
NATIONAL COMPETITIVE GRANTS		
	\$6 B	<ul style="list-style-type: none"> • *NEW* Safe Streets for All grants for local governments to reduce crashes and fatalities in communities, especially for cyclists and pedestrians (\$5 B) • *NEW* SMART grants for innovative transportation technologies (like drones) or use of data to improve transportation efficiency & safety (\$500 M) • *NEW* Reconnecting Communities grants for planning, design, demolition, and reconstruction of street grids/parks divided by transportation infrastructure (\$500 M)
	\$9.24 B	<ul style="list-style-type: none"> • *NEW* Bridge grants to repair, replace and rehab bridges <i>(grants to supplement CT's \$561 M in formula funding)</i>
	\$15.7 B	<ul style="list-style-type: none"> • RAISE grants for projects of local or regional significance (\$7.5 B) • *NEW* Megaproject grants for multi-modal, multi-jurisdictional projects of national or regional significance (\$5 B) • INFRA grants for highway/rail projects of regional & national economic significance (\$3.2 B)
	\$8 B	<ul style="list-style-type: none"> • Capital Investment grants for new and expanded high-capacity rail and bus service
	\$9.75 B	<ul style="list-style-type: none"> • CRISI Grants to improve safety, efficiency, and reliability of intercity passenger rail (\$5 B) <i>(ex: New Haven Line/Time for CT likely a good candidate for this program)</i> • Railroad Crossing Elimination grants to eliminate railway-highway crossing hazards (\$3 B) • ADA Upgrades to Rail Transit grants to eliminate access barriers (\$1.75 B)
	\$5.25 B	<ul style="list-style-type: none"> • Low-No Emissions Bus grants for low and no emissions buses and the facilities that support them <i>(grants to supplement formula funding for the conversion of CT bus transit fleet)</i>
	\$1 B	<ul style="list-style-type: none"> • *NEW* Culvert grants to remove/replace/restore culverts & address the flow of water through roads, bridges, railroads, tracks and trails <i>(related to flooding, many of CT's culverts are +50 years old & at the end of their service life)</i>
\$100 B		Competitive transportation grants over the next 5 years for CTDOT to pursue <i>(above outlines a targeted list of competitive grants not all grant programs in bill)</i>

What We Must Deliver

Anticipated Funding beyond our current program

- An additional \$400,000,000 **PER YEAR** for projects
Federal Formula Funds and matching State Funds Starting in FFY 2022
- Potentially another \$1,000,000,000 **OVER 5 YEARS**
 - Federal Competitive Grants for transportation projects
 - Northeast Corridor Competitive Grants for rail projects and programs

Categories and Potential New Funding



- Bridge Projects and Programs
- Highway Projects and Programs
- Major Highway Program Development
- Facilities/Clean Energy Projects & Programs
- Traffic Control/Safety Projects & Programs
- Transit Projects and Programs
- Rail Projects and Programs

Note: Values shown in Millions

Major Projects in the Base Capital Program

Annual Programs

- Capital Resurfacing Program, Statewide
- General Asset SOGR Programmatic Improvements, Statewide
- LOTCIP & Local Programs are maintained

FFY 2021

- Route 8 Resurfacing & Safety Improvements, Derby
- Route 2 Resurfacing & Safety Improvements, East Hartford
- I-95 Resurfacing & Safety Improvements, Norwalk

FFY 2022

- I-95 Goldstar Bridge, New London
- Swing Bridge Reconstruction, Haddam/East Haddam
- I-91/I-691/Route 15 Interchange, Meriden
- Route 15 Resurfacing, New Canaan/Norwalk
- I-84 Interchange 17 Improvements, Middlebury
- I-95 at Route 161 Interchange Improvements, East Lyme

FFY 2023

- I-95 Resurfacing & Safety Improvements, Greenwich
- Route 9 Traffic Signal Removal, Middletown
- I-95 Bridge Widening & Operational Improvements, West Haven

Note: Schedules as shown in Capital Plan, subject to revision over the course of project development



Major Projects in the Base Capital Program

Service Improvements

- *CTtransit* Move New Haven Infrastructure Improvements Phase 1
- New Haven Line Speed Improvements, Phase 1
- Traffic Signal Technology Improvements, Statewide

Equipment Purchases

- New coaches for rail fleet
- Bus Replacements (diesel & electric)
- Final M8 Deliveries

Station & Facility Improvements

- Stamford Parking Garage
- Hartford Line – Windsor Locks Station
- New Haven Line – Darien Station Improvements
- Bus Shelters, Statewide
- New Haven Line Signal Improvements
- New Haven Union Station Campus Improvements

Projects Accelerated into FFY 2022 Advertising

PROJECT NO.	ROUTE	TOWN	DESCRIPTION	APPROXIMATE COST
0156-0181	I-95	WEST HAVEN	NHS - Replace Br 00162 over MNRR & Widen to Extend Deceleration Lane	\$85 M
0063-0726	I-91 SB	HARTFORD	NHS - Rehab Br 01469B o/ CSRR, SR 598 & TR803	\$59 M
0082-0316	RT 17/RT 9	MIDDLETOWN	Reconfigure Rt 17 On-ramp to Rt 9 NB	\$42.5 M
0135-0346	I-95	STAMFORD	RBC Improvements between Exits 6-7 & Auxiliary Lane SB	\$38 M
0170-3551	Various	STATEWIDE	NHS NBI Bridge Pin & Hanger Assemblies	\$9 M
0170-3557	Various	STATEWIDE	Non-NHS NBI Br Pin & Hanger Assemblies	\$8.5 M
0172-0501	Various	DISTRICT 2	Install Traffic Control Signals in Various Locations	\$7 M
0171-0459	Various	DISTRICT 1	Replace Traffic Control Signals at Various Locations	\$6.5 M
			Total:	\$255.5 M



Additional Planned Categories of Projects to Deliver

Bridge Projects & Programs:

- Major Bridge Program – 6 Projects in 2025 & 6 Projects in 2026 @ \$90-\$100M ea. Year
- Expanded Bridge Preservation Program - \$65-\$155M/Yr.
- Aesthetic Bridge Lighting Program – One Bridge ea. Year at \$4m/Yr.
- Retaining Wall Replacement Program – \$2-\$8M/Yr.

Highway Projects & Programs:

- Interchange Improv. I-95 West of New Haven - \$60-\$65M/Yr. for 2023 & 25
- Statewide Drainage Improvement Program - \$14M/Yr. 2023, 24, 25, 26
- Noise Wall Replacements - \$4-\$9M/Yr.
- Truck Parking Areas Program - \$10M/Yr. for 2024, 25, 26
- Roundabout Program - \$18M/Yr. in 2024, 25, 26
- Sidewalk & Trail Gap Closure Programs - \$6 -\$12M/Yr.

Additional Planned Categories of Projects to Deliver

Facilities and Clean Energy Projects & Programs:

- Light Fleet Charging Stations - \$10M/Yr.
- Advance Public DC Fast Charging Program - \$3M/Yr.
- Solar Panel Program - \$10M/Yr.

Rail and Transit Projects & Programs:

- High Level Platform Replacement Program - \$31-\$46M/Yr.
- Fleet Electrification Program - \$31-\$38M in 2022, 2023, 2024
- New Bus Rapid Transit Program - \$41-\$46M in 2025 & 2026

Traffic Control and Safety Projects & Programs:

- Upgrade of Existing Computerized Traffic Signal System - \$12-\$25M/Yr.
- Installation of Advanced Traffic Controllers and Communications - \$5M/Yr.
- Pedestrian Signal Upgrades - \$3M/Yr.
- Upgrade Overhead Signs & Sign Supports - \$15M/Yr.
- Upgrade Signs on Secondary State Roads - \$4M/Yr.

Additional Planned Categories of Projects to Deliver

Major Highway Breakout Projects from Long Term Program Studies:























- I-84 Improvements, Exits 1-8
- Greater Hartford Mobility Study
- I-84 and Route 8 Mixmaster
- I-95 Improvements, New Haven to Rhode Island
- I-95 Improvements, Exits 7-9 & Bridge 32
- I-95 Improvements, Exits 19-27A

Time for CT

Estimated total \$10 billion over the next 12 - 14 years

New Haven Line

Other Rail Lines

	Funded	Unfunded	
New Haven Line	<ul style="list-style-type: none">  Stamford Track 7  Waterbury Line Sidings  New Haven Line Track to 90-100 mph (design) 	<ul style="list-style-type: none">  Penn Station Access & Gateway Program  New Haven Line Track 90-100 mph  New Haven Line 4th Track @ Milford  Track curve speed improvements  Fix drainage problems 	
	<ul style="list-style-type: none">  Waterbury Line Signals 		<ul style="list-style-type: none">  New Haven Line (Greenwich to New Haven)
	<ul style="list-style-type: none">  Walk Bridge 		<ul style="list-style-type: none">  Replace open deck bridges  Cos Cob Bridge  Saugatuck River Bridge (fixed span)  Devon Bridge
	<ul style="list-style-type: none">  New Haven Yard & Shop Expansion (design) 		<ul style="list-style-type: none">  New Haven Yard & Shop Expansion
Other Rail Lines	<ul style="list-style-type: none">  Shore Line East Catenary Upgrades 	<ul style="list-style-type: none">  Amtrak Connecticut River Bridge  Hartford Line 2nd Track  Hartford RR Viaduct 	
	<ul style="list-style-type: none">  Shore Line East Stamford service with M8s 		
	\$2 billion	\$7-8 billion (estimated)	

Implementation Considerations

Phased approach to implementation

- Existing Formula Funds Programs
- New Formula Funds Programs
- Grant Programs

Questions & Answers

