



# Greensboro Urban Area MPO

**Technical Coordinating Committee  
February 7, 2022**



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### Feature Planning Meeting



Host: Catherine Siu

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#### Access code

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#### Attendee ID

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Meeting controls are easy to find at a glance.

# Attendee Verification

# Action Items

**February 9, 2022**



# Technical Coordinating Committee

## Meeting Minutes of December 14, 2021

2:00 PM, Greensboro, NC  
WebEx Online Virtual Meeting

### Attendance

Tyler Meyer	<i>TCC Chair</i>	Mark Kirstner	<i>PART</i>
Lydia McIntyre	<i>MPO Staff</i>	Michael Abuya	<i>NCDOT TPB</i>
Gray Johnston	<i>MPO Staff</i>	Jesse Day	<i>PTCG</i>
Yuan Zhou	<i>MPO Staff</i>	Jeff Sovich	<i>GSO Planning</i>
Tram Truong	<i>MPO Staff</i>	Stephen Robinson	<i>NCDOT Div. 7</i>
Chandler Hagen	<i>MPO Staff</i>	Tamara Njegovan	<i>NCDOT Div. 7</i>
Chris Spencer	<i>GDOT/Engineering</i>	Suzette Morales	<i>FHWA</i>
Deniece Conway	<i>GDOT/Engineering</i>	Elizabeth Jernigan	<i>GSO Parks &amp; Rec</i>
George Linney	<i>GTA</i>	Suzanne Akkoush	<i>PTLAA</i>
		David Hursey	<i>Kimley Horn</i>
		Tyler Spring	<i>Kimley Horn</i>

# 2022 Safety Performance Measure Targets

## ENDORSEMENT OF TARGETS FOR SAFETY PERFORMANCE MEASURES ESTABLISHED BY NCDOT

A motion was made by TAC Member \_\_\_\_\_ and seconded by TAC Member \_\_\_\_\_ for adoption of the following resolution, which upon being put to a vote was duly adopted.

**WHEREAS**, the Greensboro MPO has been designated by the Governor of the State of North Carolina as the Metropolitan Planning Organization (MPO) responsible, together with the State, for the comprehensive, continuing, and cooperative transportation planning process for the MPO's metropolitan planning area; and;

**WHEREAS** the Highway Safety Improvement Program (HSIP) final rule (23 CFR Part 490) requires States to set targets for five safety performance measures annually, by August 31, and;

**WHEREAS**, the North Carolina Department of Transportation (NCDOT) has established targets for five performance measures based on five year rolling averages for: (1) Number of Fatalities, (2) Rate of Fatalities per 100 million Vehicle Miles Traveled (VMT), (3) Number of Serious Injuries, (4) Rate of Serious Injuries per 100 million VMT, and (5) Number of Non-Motorized (bicycle and pedestrian) Fatalities and Non-motorized Serious Injuries, and;

# FY 2022 Safety Performance Measure Targets

NCDOT Safety Performance Measure Data and Targets					
Performance Measures	5-year Rolling Averages				
	Baseline (Actual)			Targets	
	2014-2018	2015-2019	2016-2020	CY 2021	CY 2022
Number of Fatalities	1,396.4	1,410.0	1,428.8	1,309.9	1,254.9
Rate of Fatalities per 100 Million Vehicle Miles Traveled	1.211	1.192	1.226	1.105	1.057
Number of Serious Injuries	3,362.6	4,078.4	4,410.2	3,656.1	3,537.6
Rate of Serious Injuries per 100 Million Vehicle Miles Traveled	2.886	3.422	3.782	3.065	2.962
Number of Combined Non- Motorized Fatalities and Non- Motorized Serious Injuries	494.6	515.6	592.2	504.4	486

Greensboro MPO Safety Performance Measure Data and Targets					
Performance Measures	5-year Rolling Averages				
	Baseline (Actual)			Targets	
	2014-2018	2015-2019	2016-2020	CY 2021	CY 2022
Number of Fatalities	46.0	48.4	50.4	44.3	42.4
Rate of Fatalities per 100 Million Vehicle Miles Traveled	0.945	0.963	1.019	0.877	0.836
Number of Serious Injuries	73.6	77.2	80.2	72.7	68.6
Rate of Serious Injuries per 100 Million Vehicle Miles Traveled	1.505	1.532	1.617	1.434	1.348
Number of Combined Non- Motorized Fatalities and Non- Motorized Serious Injuries	23.8	23.2	21.2	20.9	20

Action Business Other

**Recommendation: Approval**

# FY 2022 Transit Safety Performance Targets

## Overview

- ❖ FTA Public Transportation Agency Safety Plan final rule
- ❖ FHWA and FTA joint final rule on planning
- ❖ Targets on reducing fatalities, injuries, safety events & improving system reliability
- ❖ Targets developed in concert with GTA and PART
- ❖ Requires annual updates



# FY 2022 Transit Safety Performance Targets

## PART Transit Safety Performance Targets (July 2021 – June 2022)

Mode of Transit Service	Fatalities (Total)	Fatalities (per million VRM)	Serious Injuries (total)	Serious Injuries (per million VRM)	Safety Events (total)	Safety Events (per million VRM)	System Reliability (VRM/failures)
Bus	0	0	0	0	54	38.4	43,300
Vanpool	0	0	0	0	0	0	140,477

PART's PTASP was adopted on April 9 2020, and the targets were approved on July 30, 2021.

## GTA Transit Safety Performance 2022 Targets

Mode of Service	Fatalities (total)	Fatalities (per 100k VRM)	Injuries (total)	Injuries (per 100k VRM)	Safety Events (total)	Safety Events (per 100k VRM)	System Reliability (failures/VRM)
Bust Transit	0	0.00	14	0.71	7	0.36	32,246
ADA/Paratransit	0	0.00	6	0.43	3	0.22	107,328

GTA's PTASP was adopted on November 17, 2020; the targets were updated in December 2021.

**Recommendation: Approval**

# MTIP Modification: Statewide Projects

Project	Description	Phase	Change
RC-2000	NCDOT Rail Division administrative work for the traffic separation and closures study program	Planning	Add New Project
RX-2000	NCDOT Rail Division administrative work for the highway-rail grade crossing safety improvements program	Planning	Add New Project
R-5753	Road and bridge improvements on federally owned roads on federal lands	Construction	Add \$11.2M in FY 23, \$9.5M in FY 24, and \$1M in FY 25



Action Business Other

**Recommendation:** Modify MTIP

# MTIP Amendment: MPO Area Roadway Projects



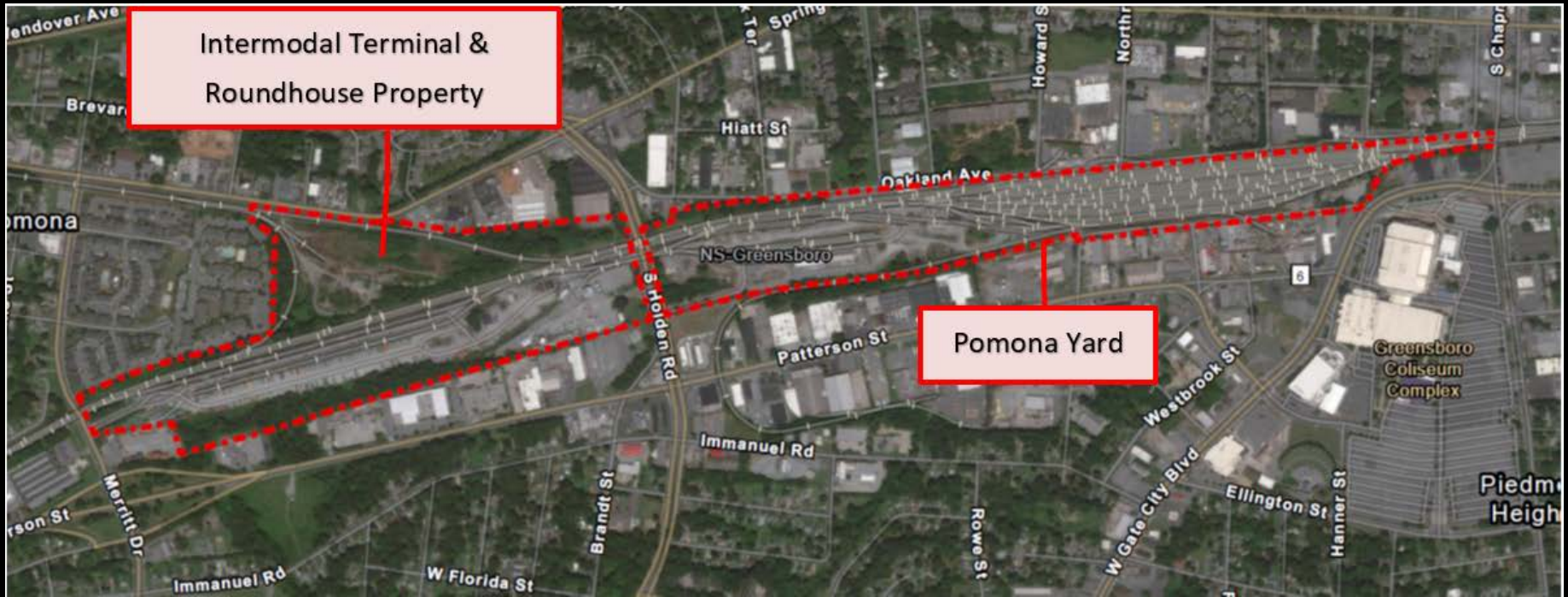
U-5812  
Improvement Area

	Current	Proposed
Right-of-way	2022	2023
Construction	2023	2024
Cost impact:	No change	

Action Business Other

**Recommendation:** Amend MTIP

# MTIP Amendments & Modification: MPO Rail Projects



Project	Description	Phase	Change
P-5700	Norfolk Southern Intermodal Facility Container Storage Expansion	Construction	FY 22 -> FY 23
P-5714	NCRR Norfolk Southern, Pomona Yard Improvements	Construction	FY 23 -> FY 24
RX-2007C*	Hillcroft Road @ Norfolk Southern RR: install active warning devices	Construction	New \$800,000 project

Action Business Other

**Recommendation:** Amend & Modify MTIP



# MTIP Amendment: FY 2023 CMAQ Transit Projects

- NCDOT made available \$1,763,123 CMAQ funds to MPO in FY 2023; requires \$440,781 local match
- Eligibility is limited & funds must be obligated in FY 2023
- Candidate projects were reviewed for eligibility & timeframe
- GTA replacement buses recommended: highly needed/ able to meet timeframe
- Available funding sufficient to replace 4 out of date GTA buses
- Recommend amending MTIP to add funds to TA-4771 in FY 2023

Project	Description	FY	Funding	
TA-4771*	Clean Diesel Replacement Buses	2023	CMAQ	\$1,763,123
			Local	\$440,781



# FY 22 UPWP Amendment: Household Travel Survey

- UPWP provides for the PTRM HHTS project
- LPA to oversee work in collaboration with PART & NCDOT
- Budget increase needed to cover study costs
- NCDOT has agreed to increase funding to maintain 90% federal and 10% state share
- Local funding matching commitment is also in place.

Funding Source	Federal SPR Funding	State Funds	Local Match	Total
Current budget	\$678,976	\$84,872	\$84,872	\$848,720
Funding increase	\$112,064	\$14,008	\$14,008	\$140,080
New Revised budget total	\$791,040	\$98,880	\$98,880	\$988,800

**Recommendation:** Approval

# Business Items

**February 7, 2022**

*Action Business Other*

# Draft FY 22-23 Unified Planning Work Program

- Annual budget and work plan for MPO planning
- Programs anticipated FY 2023 federal grants and local matching funds

## FY 2023 UPWP Funding Totals

Funding Source	Federal Funding	Local Match	State Match	Total
<b>FY 23 Funds</b>				
FHWA PL	\$455,900	\$113,975	N/A	\$569,875
FHWA BGDA	\$200,000	\$50,000	N/A	\$250,000
FTA 5303	\$399,081	\$49,885	\$49,885	\$498,851
<b>FY 23 Totals</b>	<b>\$1,054,981</b>	<b>\$213,860</b>	<b>\$49,885</b>	<b>\$1,318,726</b>
<b>FY 22 Carryover Funds</b>				
FHWA BGDA: Downtown Parking Study	\$200,000	\$50,000	N/A	\$250,000
FHWA SPR: Triad Household Travel Survey	\$659,200	\$82,400	\$82,400	\$824,000
<b>Carryover Totals</b>	<b>\$859,200</b>	<b>\$132,400</b>	<b>\$82,400</b>	<b>\$1,074,000</b>
<b>Grand Total</b>	<b>\$1,914,181</b>	<b>\$346,260</b>	<b>\$132,285</b>	<b>\$2,392,726</b>

# Draft FY 2022-2023 UPWP Highlights

- Household Travel Survey
- Mobility Greensboro 2045
- Downtown Parking Plan
- Bus Stop Consolidation & Improvement Plan
- MPO Safety / Vision Zero
- 2024-2033 TIP development activities
- Project planning, outreach, and NCDOT coordination
- Analysis tools & data services
- Data collection and performance management
- Forecasting future travel demand & transit ridership

*UPWP adoption due March 2022*

# Clean Cities Coalition

*Action Business Other*



# Clean Transportation Program

Electric Vehicles and Charging Infrastructure

NGVs, Propane Vehicles and Fueling Infrastructure

Ethanol, Biodiesel and Other Biofuels

Other Emissions Mitigation Technologies and Programs

# Clean Transportation Program

- We work to propel the development, awareness and use of alternative fuels and advanced transportation technologies through:
  - technical assistance, including trainings and fleet assessments
  - education and outreach initiatives, including workshops, meetings, conferences and marketing campaigns highlighting the benefits of using clean transportation technologies
  - administering clean transportation technology grants

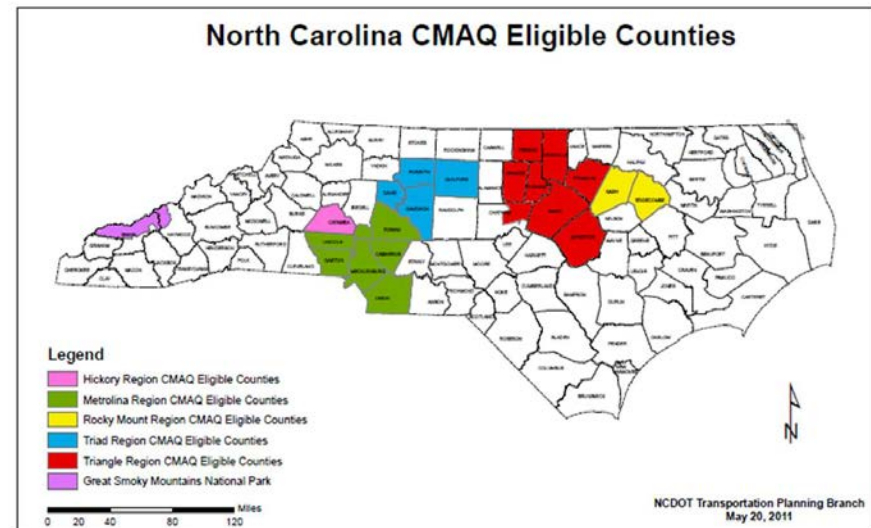


# Clean Transportation Overview

Opportunities	Services Provided	Targeted Sectors	Benefits
Alternative Fuels (propane, natural gas, biofuels, electric vehicles)	Assessments Public education Technical training	Public and private fleets Transit agencies General public	Fuel savings; emissions reductions; shifting to domestic fuels
Vehicle utilization, idle reduction technologies, and telematics	Assessments Fleet manager workshops	Public and private fleets	Fuel savings, maintenance savings, increased safety for drivers, emissions reductions
Research	Policy studies Overviews of different transportation technologies	State or federal agencies, transit agencies	Research studies can be applied to support various transportation applications that can support policy or technology development or implementation

# Clean Fuels and Advanced Technology (CFAT) Project

- The CFAT project deploys federal Congestion Mitigation Air Quality (CMAQ) funding received from the N.C. Department of Transportation (DOT)
- Those funds provide direct financial assistance to numerous clean transportation projects each year for a variety of public and private entities, all focused on reducing transportation-related air pollution emissions
- The funds focus on 24 CMAQ-eligible counties currently in “maintenance” status under federal air quality rules, though electric charging infrastructure can be funded statewide
- We are awaiting our contract for these funds and hope to put out an RFP in the late Winter/ early Spring.



# CFAT Project Overview Cont'd

- Over past 15 years, we have provided \$11.9M in federal funds to help private and public fleets in NC purchase clean transportation technologies to improve NC air quality

Some projects funded to date:

- 110 Infrastructure projects
- 327 Alternative fuel vehicles
- 39 Hybrid vehicles
- 74 Diesel retrofits
- 128 Propane retrofits
- 310 Telematics units



# Clean Transportation: Fleet Education

- The Sustainable Fleet Technology webinars series provides virtual trainings on topics related to electric vehicles, fuel efficiency, and other ways of improving your fleet's sustainability
- Sustainable Fleet Technology Conference
  - In-person conference August 30-September 1, 2022 at Durham Convention Center
  - [www.SustainableFleetExpo.com](http://www.SustainableFleetExpo.com)



# Clean Transportation: Public Education

- In Person Public Outreach/Ride and Drive Events
  - We organize electric vehicle displays outside sporting events and other events, such as Earth Day Festivals
- Student Art Contest
  - In March through April, North Carolina K-12 students can submit artwork that is voted on through Facebook. Winners have their artwork displayed on billboards across the state.

# NC DEQ VW Settlement Partner

- Table 3 of the Historically Under-Resourced Counties Outreach Program in Phase 2 of the VW Mitigation Plan describes Caswell, Randolph, and Rockingham Counties eligible to receive maximum funds for the VW Settlement.
- NCCETC can provide guidance on the application process for Eastern and Central North Carolina Clean Cities stakeholders.
- The VW RFP for Transit and Shuttle bus Replacements under Phase 2 is currently open.

# Eastern and Central North Carolina Clean Fuels Coalition

- Created by US Department of Energy to reduce reliance on petroleum products and improve air quality.
- Convene public/private stakeholder partnerships to share alternative fuel and advanced technologies resources and information that reduce fuel use and related air pollution.
- Seeking partners in Central, Eastern and Northeastern NC
- Free of charge
- Benefits include educational opportunities, networking opportunities, and guidance on funding opportunities. We will work with stakeholders on developing workshops and trainings in your regions.

# Contact Information

For all follow-up inquiries, please contact:

**Alrik Lunsford**

Clean Transportation Extension Specialist  
North Carolina Clean Energy Technology Center  
North Carolina State University

Office: 919-515-0352

Cell: 919-949-4094

Email: [aklunsfo@ncsu.edu](mailto:aklunsfo@ncsu.edu)

[www.cleantransportation.org](http://www.cleantransportation.org)

[www.fuelwhatmatters.org](http://www.fuelwhatmatters.org)





# Division Engineer Updates

Action Business Other



# Locally Administered Project Updates

# Current Bid Opening Schedule

<b>Project</b>	<b>Scheduled Advertisement</b>
Green Street Streetscape	2/17/2020
Murrow Blvd Bridge Repair	2/17/2020
No scheduled advertisements in March	

# Strategic Reports

*Action Business Other*

# Boom Supersonic Selects Greensboro, North Carolina for First Supersonic Airliner Manufacturing Facility

Overture Superfactory in Piedmont Triad Area to Break Ground in 2022 and Begin Production in 2024, Adding More Than 2,400 Local Jobs by 2032



2022 NCAMPO Conference in Wilmington

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# 2024-2033 STIP Development / P6 Schedule

ID	Task Name	Start	Finish	2021												2022												2023								
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	P6 APPROVAL: BOT approves P6 criteria and weights	7/1/2019	7/31/2019	[completed in 2019]																																
2	FINAL STIP: BOT adopts 2020-2029 STIP (informs P6 submittal)	9/2/2019	9/30/2019	[completed in 2019]																																
3	SUBMITTAL WINDOW: MPOs, RPOs, and Divisions test, enter, and submit projects in SPOT Online	10/1/2019	8/31/2020	[completed in 2019-2020]																																
4	SCORING WINDOW: SPOT reviews and calculates quantitative scores for all projects	9/1/2020	11/30/2021	[NCDOT]																																
5	P6 WORKGROUP: meet monthly to discuss balancing of STIP	8/2/2021	12/31/2021	[MPO, RPO, and Division]																																
6	COORDINATION: MPOs/RPOs/Divisions (includes potential public involvement)	1/3/2022	8/31/2022	[MPO, RPO, and Division]												[MPO, RPO, and Division]																				
7	SPOT OFFICE: Additional time for scoring of projects if needed	1/3/2022	8/31/2022	[MPO, RPO, and Division]												[NCDOT]																				
8	PROGRAMMING: STIP unit programs projects for Draft 2024-2033 STIP	9/1/2022	11/30/2022	[MPO, RPO, and Division]												[NCDOT]																				
9	DRAFT STIP: NCDOT releases Draft 2024-2033 STIP for review and public comment	12/1/2022	12/30/2022	[MPO, RPO, and Division]												[NCDOT]												[Board of Transportation]								
10	MPO ACTION: MPOs approve MTIPs and air quality conformity (if required)	12/1/2022	8/31/2023	[MPO, RPO, and Division]												[MPO, RPO, and Division]												[MPO, RPO, and Division]								
11	FINAL STIP: Board of Transportation adopts Final 2024-2033 STIP	6/1/2023	6/30/2023	[MPO, RPO, and Division]												[MPO, RPO, and Division]												[Board of Transportation]								
12	FINAL STIP: FHWA approves Final 2024-2033 STIP	9/1/2023	9/29/2023	[MPO, RPO, and Division]												[MPO, RPO, and Division]												[MPO, RPO, and Division]								





# Other Items

1. Members Updates
2. Wrap up

*Next TCC meeting March 15, 2022 at 2:00 PM*

# Greensboro Urban Area MPO

NC's 'Future of Flight': Supersonic jet startup Boom lands in Greensboro



**Technical Coordinating Committee  
February 7, 2022**