

2050 Metropolitan Transportation Plan Preferred Option

www.dchcmpo.org

Andy Henry, and rew.henry@durhamnc.gov, December 8, 2021

Schedule

MPO Board 12/8/2021 Item 8 DURHAM · CHAPEL HILL · CARBORO DCHAPEL HILL · CARBORO METROPOLITAN PLANNING ORGANIZATION

MPO Board <u>12/8</u>

- Approve 2050 MTP (i.e., projects and financial plan)
- Release Air Quality Conformity Determination Report (AQ CDR) for public comment
- MPO Board <u>1/12/21</u>
 - Release 2050 MTP report for public comment, includes Goals/Objectives, SE Data, and TRM
- MPO Board 2/9
 - Adopt 2050 MTP by resolution, includes Goals/Objectives, SE Data, and TRM
 - Adopt AQ CDR

MPO Board (November meeting)



- Add additional ½ cent sales tax equivalent to match CAMPO's full 1 cent. Use on transit, bike/ped and other non-roadway investments
- Keep US 70 definition flexible
- Update MPO Board on US 70

Highway Projects

DURHAM · CHAPEL HILL · CARRBORO DCHAPEL HILL · CARRBORO METROPOLITAN PLANNING ORGANIZATION PLANNING TOMORROW'S TRANSPORTATION

• US 70 shown as modernization (no change)

			Existing	Proposed		Pref.	Moderni	Bus				Length
Project	From	То	Lanes	Lanes	Improvement	Opt.	zation	Advantage	Grid	Comments	Estimated Cost	-
										Durham changed to		
US 70	S Miami Blvd	MPO Boundary	4	4	Modernization	Y	Y	N	Ν	Modernization	\$ 58,247,133	2.5
										Durham changed to		
US 70	Lynn Rd	S Miami Blvd	4	4	Modernization	Y	Y	N	Ν	Modernization	\$ 37,278,165	1.6

Add four additional roadway modernizations to accommodate transit

Highway Project	From	То	Existing Lanes	Proposed Lanes	Improvement Type	Estimated Cost	Length (miles)
NC 147 (modernization)	Future I-885	I-40	4	4	Modernization	\$ 58,473,199	3.9
US 15-501 Business (modernization)	US 15-501 Bypass	Chapel Hill Rd	4	4	Modernization	\$ 11,994,502	1.6
US 15-501 Business (modernization)	Chapel Hill Rd	University Dr	2	2	Modernization	\$ 5,997,251	0.8
US 15-501 Bypass (modernization)	MLK Parkway	Cameron Blvd	4	6	Modernization	\$ 40,481,445	2.7

NNING TOMORROW'S TRANSPORTATIC

Bicycle and Pedestrian

The level of bicycle and pedestrian facility investment is based on a review of the MPO's local government plans.

- 175 miles of sidewalk per decade
- 70 miles of shared use paths per decade
- 80 miles of protected bike lanes per decade
- 20 miles of bicycle boulevards per decade

<u>Note</u>:

- Bicycle and pedestrian projects are usually <u>not</u> listed or mapped in the MTP
- Report appendix will list regional routes. (because SPOT awards regional points)
- \$292m in costs in 2045 MTP

	2			Total Cost		
	(mi)	(ft)		(\$mi	llions)	
Sidewalk	525	\$	250	\$	693	
Shared Use		, ,		 - - - - -		
Path/Sidepath	210	\$	500	\$	554	
Protected bike lane		 - - - -				
(both sides)	240	\$	1,200	\$	1,521	
Bicycle Boulevard	60	\$	10	\$	3	
Total				\$ (2,771	

Roadways & Alternative Transportation	 2030	2040	2050	Total
Bicycle and Pedestrian	\$ <u>140</u>	1,291	1,340	\$ 2,771
Roadways and Alt. Transportation Balance	\$ 101	\$ 0	\$ 1	\$ 102
			_	

Balance for the non-transit section of the financial plan < will essentially be zero for 2040 and 2050 decade.

Transit – Preferred Option

Transit Projects (revenue equivalent to 1/2 cent sales tax)

- All Durham Transit Plan Projects (funded + unfunded)
- CRT extension to Hillsborough and service increase (12-8-12-8)
- Add 15-minute Service to 6 additional GoDurham routes
- 4 BRTs (North-South, US 15-501, NC 147, NC 54)
- Top unfunded priorities in Capel Hill Transit and Orange County Public Transportation short range plans by 2040

Transit – 2050 MTP



Transit Projects (new revenue equivalent to full 1 cent)

• All Durham Transit Plan Projects (funded + unfunded)

<u>Changes</u>:

- CRT extension to Hillsborough and service increase (12-8-12-8) [5 years earlier]
- Add 15-minute Service to <u>all</u> GoDurham routes [10 additional routes]
- 4 BRTs (North-South, US 15-501, NC 147, NC 54) [\$30M / mile instead of \$20M / mile]
- <u>All</u> unfunded projects in Chapel Hill Transit and Orange County Public Transportation short range plans
- \$15M/year for transit priority and access projects [2-3 miles / year]
- \$15M/year for additional routes, vehicles and demand-responsive service [Services identified in Preferred Option, starts in 2031 instead of 2050] [increases to \$50M / year in 2041]

Budget (Financial Plan)

Transit

<u>2050 MTP</u>

2050 MTP				
	2030	2040	2050	Total
Existing Transit (Prior to FY2013)				
Costs (millions \$)				
Operations and Capital	\$ 562	\$ 562	\$ 562	\$ 1,686
Revenue (millions \$)				
Existing Revenues (non-transit plan)	\$ 562	\$ 562	\$ 562	\$ 1,686
New Transit (after FY2013)				
Costs (millions \$)				
Operations	\$ 223	\$ 791	\$ 846	\$ 1,860
Capital	\$ 449	\$ 1,538	\$ 773	\$ 2,760
Total	\$ 672	\$ 2,329	\$ 1,619	\$ 4,620
Revenue (millions \$)				
Current and Proposed Tax	\$ 550	\$ 1,569	\$ 1,890	\$ 4,009
Federal (CIG)	\$ 166	\$ 775	\$ 172	\$ 1,113
Total	\$ 716	\$ 2,344	\$ 2,062	\$ 5,122
Balance	\$ 44	\$ 15	\$ 443	\$ 502



Budget Summary

Total MTP	(\$ in	
Investment	billions)	% of Total
Bike/Ped/TDM	2.8	17%
Roadway		
Improvement	2.1	12%
Roadway Mtce. &		
Op.	5.6	33%
Transit	6.3	38%
Total	16.8	100%

2050 MTP – Action Today

 Approve the draft 2050 MTP for use in the Air Quality Conformity Determination Report (AQ CDR)

Air Quality



- The Air Quality Conformity Determination Report (AQ CDR) basically demonstrates that the expected pollutants from the transportation sector will not exceed established thresholds.
- Our area is in attainment for all pollutants, e.g., CO and ozone, however, a 2018 EPA court case extended the horizon year for ozone conformity requirements.
- The resulting EPA guidance allows areas to demonstrate conformity without an updated regional emission analysis, using a "short form."

Air Quality (continued)

- The AQ CDR report presents the:
 - regulations and guidelines that require the report
 - responsibilities of the different agencies
 - 2050 MTP process, socioeconomic data and travel demand modeling
 - planning assumptions, e.g., fiscally-constrained MTP
 - interagency consultation requirements
 - project lists from draft 2050 MTP
- The AQ CDR that is attached to today's agenda is complete except for CAMPO and BG-MPO project lists, which will be included by the time of the board meeting time.

AQ CDR– Action Today

 Release the draft Air Quality Conformity Determination Report for a minimum 21-day public comment period

> Public comment period: December 8 through December 28

Coming Attractions



- Board will <u>release</u> these three documents/data at January 2022 meeting with the full 2050 MTP report
- Board will <u>adopt</u> them with the 2050 MTP by resolution at February 2022 meeting

Socioeconomic Data

 SE Data was included in Preferred Option document

Triangle Regional Model (TRM)

 TRM has been used in Deficiency, Alternatives and draft 2050 MTP

Goals/Objectives/Performance Measures

 MPO Board approved Goals, Objectives and Performance Measures for use in the 2050 MTP process at September 2020 meeting