

2050 Metropolitan Transportation Plan Preferred Option

Andy Henry, andrew.henry@durhamnc.gov, October 13, 2021

Board Directives (from 9-1-21 Board meeting)



- Create two Preferred Options
 - Vision Plan: follow first four years of TIP, then vision that supports MPO Goals
 - Traditional Plan: follow first decade of TIP first, then vision that supports MPO Goals
- VMT and climate change are important, but so are safety, air and water quality, racial equity, and human health and well-being
- Need better performance measures to show project impact
- Be specific about land use expectations

Preferred Option Document

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- This presentation is an outline of the Preferred Option components and is designed for discussion
- Preferred Option will be released in a document format

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www.bit.ly	/DCHC-MTI				
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0	range 64,212	-	43,579	68%	
	Total 266,428	468,419	201,991	76%	

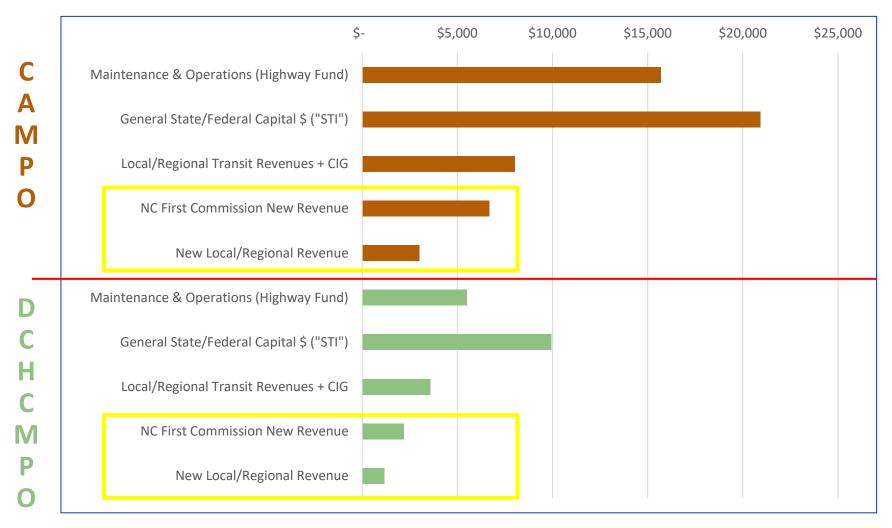


2050 Metropolitan Transportation Plan Use *All Together* Investment Revenue

- 1. "Traditional" Revenues (2021-50)
 - State & federal funds based on current STIP, NC Moves report and STI framework
 - Continuation of county-level transit sales taxes
 - Past pattern for other sources (local bonds, developer projects)
- 2. NC First Commission Additional State Revenues (2031-50)
 - MPO "fair shares" of recommended amount
- 3. Additional Local/Regional Revenues (2031-50)
 - Based on "sales tax equivalent"



Connect2050 Preliminary Financials



1st decade from "TIP" and existing sources; new sources applied in 2nd & 3rd decades





Selection of Highway Projects



Vision	Traditional	PLANNING TOMORROW'S TRANSPORTATION
Projects with funding in first <u>four</u> years of FY 20-29 STIP	Projects with funding in FY 20-29 STIP	
 Modernization Projects Improve operation but do not significantly increase capacity of roadways 	Same as Vision	
Provide an advantage for buses, e.g. managed lanes	Same as Vision]
"Grid" projects that improve traffic on collector streets	Same as Vision	
 Improve bicycle, pedestrian and transit access Many of these projects will be built by developers 		
 May improve safety Reduce VMT by providing more efficient routes and reduce idling 		
Local or Regional Interest projects • Projects that do not meet the above criteria	Same as Vision	
but have local and/or regional support (e.g. local elected officials or MPO Board) – Note: These projects are not selected, yet, in this presentation	***See attached highway and table for definitions and full li	



 TIP -- Match first 4 years of Transportation Improvement Program (TIP) (i.e., 2020 through 2023) ... so include highway projects in Vision that have ROW or const

... so include highway projects in Vision that have ROW or construction from 2020 through 2023 in STIP

			Existing	Proposed			Traditi	Modernia	z Bus			
Project	From	То	Lanes	Lanes	Improvement	Vision	onal	ation	Advantage	Grid	Comments	Estimated Cost
East End Connector (EEC)	NC 147	north of NC 98 in Durham	0	4	New Location	Υ	Y	N	N	N	Funded before 2020	\$ -
Fayetteville Rd	Barbee Rd	Cornwallis Rd	2	4	Widening	Υ	Υ	N	N	N	Under construction	\$ -
Lynn Rd/Pleasant Dr Connector	Lynn Rd	Pleasant Dr	0	2	New Location	Υ	Y	N	N	Y	Part of East End Connector	\$ 5,111,400
NC 55 (Alston Ave)	Main St	NC 98	2	2	Modernization	Υ	Υ	Y	N	N	Funded before 2021	\$ -
NC 55 (Alston Ave)	NC 147	Main St	2	4	Widening	Y	Υ	N	N	N	Funded before 2020	\$ -
I-40	Durham County line	NC 86	4	6	Widening	Υ	Y	N	N	N	First four years of STIP	\$ 68,851,000
I-40	NC 86	I-85	4	6	Widening	Υ	Υ	N	N	N	First four years of STIP	\$ 107,290,000
Woodcroft Pkwy Ext	Garrett Rd	Hope Valley Rd	0	2	New Location	Y	Y	N	N	Y		\$ 3,793,000

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 METROPOLITAN PLANNING ORGANIZATION —

 PLANNING TOMORROW'S TRANSPORTATION
- Modernizations These projects don't add capacity, but they improve safety and/or bike, ped and bus infrastructure
 - Durham has brought several highway widening projects back into the Vision scenario as modernizations (e.g., Fayetteville, NC 54, US 70, US 15-501)
 - Some of these Durham projects in the Vision scenario are conversions to boulevards (e.g., US 15-501 and US 70)
 - Durham added modernization to one section of Northern Durham Parkway that will initially be constructed by developers.

<u>Modernizations</u> do not add vehicle travel lanes: <u>Urban</u> – add bicycle, pedestrian and transit facilities, add turn lanes at intersections; sometimes widen a narrow road, improve curves and sight lines. <u>Rural</u> -- widen a narrow road and shoulder, add turn lanes at intersections; improve curve and sight lines.



- Bus Advantage —Managed lane projects add roadway capacity, but they also provide travel advantages to transit buses
- These managed lanes are in the Traditional scenario, but not the Vision scenario

_	_			
Highway	From	To	▼ Improvement	TIP
I-40 Managed Lane	NC 54	US 15-501	Widening	I-5702A
I-40 Managed Lanes	Wake County Line	NC 147	Widening	I-5702B
I-40 Managed Lanes	NC 147	NC 54	Widening	I-5702A
NC 147 (possible managed lanes	Future I-885	I-40	Widening	U-5934

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Grid Streets

These projects provide a grid to support bike, ped and transit trips and access, and reduce VMT. They are mostly developer built.

... so include these highway projects in Vision and Traditional

V13101	•	:	F	D				
Droinet	Erom	То	Lanes	Proposed		Vision	Traditi onal	Comments
Project	From	Northern Durham		Lanes	Improvement	VISION	onai	To be built by developer; in
Angior Au Fut	US 70	1 7 7 7	0	2	New Location	Υ	Υ	dev't review in 2021
Angier Av Ext	05 70	Pkwy	U	. Z	New Location	, <u>r</u>	, T	dev t review in 2021
Angier/Glover Connector	Ellis Rd	Glover Rd	0	2	New Location	N	Υ	Durham deleted from Vision
		T.W. Alexander						
Crown Pkwy/Roche Dr	Page Rd	Dr	0	2	New Location	Y	Υ	
Danziger Dr Extension	Mt Moriah Rd	E Lakewood Dr	0	2	New Location	Υ	Υ	
Eno Mountain Rd								
realignment	Mayo St	Eno Mountain Rd	2	2	New Location	Υ	Υ	
Freeland Memorial Extension	S Churton St	New Collector Rd	0	2	New Location	Υ	Υ	
Glover Rd	Angier	US 70	0	2	New Location	Υ	Υ	
		Roxboro Rd (501						
Hebron Rd Extension	Hebron Rd	N)	0	2	New Location	Υ	Υ	
		S Miami Blvd (NC						
Hopson Rd	Davis Dr	54)	2	4	Widening	Y	Υ	Built by developer in 2021
Lake Hogan Farms Rd	Eubanks Rd	Legends Way	0	2	New Location	Υ	Υ	
Legion Rd Ext	Legion Rd	Fordham Blvd	0	2	New Location	Υ	Υ	
Lynn Rd Extension	US 70	Existing Lynn Rd	0	2	New Location	Y	Υ	
Lynn Rd/Pleasant Dr								
Connector	Lynn Rd	Pleasant Dr	0	2	New Location	Υ	Υ	Part of East End Connector
		Barbree Chapel						
Marriott Way	Friday Center Dr	Rd	0	2	New Location	Y	Υ	
	Orange Grove Rd							
New Collector Rd	Ext	Becketts Ridge Rd	0	2	New Location	Y	Υ	
New Hope Commons Dr		New Hope						
Extension	Eastowne Dr	Commons Dr	0	2	New Location	Υ	Υ	
Orange Grove Connector	Orange Grove Rd	NC 86	0	2	New Location	Υ	Υ	
Patriot Dr Extension	S Miami Blvd	Page Rd	0	2	New Location	Υ	Υ	
Purefoy Rd Ext	Sandberg Ln	Weaver Dairy Rd	0	2	New Location	Υ	Υ	
								Durham deleted from
								Vision; environmental
Roxboro St	Cornwallis Rd	MLK Pkwy	0	4	New Location	N	Υ	concerns
		Ephesus Church						
S Elliot Rd Ext	Fordham Blvd	Rd	0	2	New Location	Y	Υ	
	US 15-501							
Southwest Durham Dr	Business	Mt Moriah Rd	0	4	New Location	Y	Υ	
Woodcroft Pkwy Ext	Garrett Rd	Hope Valley Rd	0	2	New Location	Y	Υ	
Yates Store Rd Extension	Yates Store Rd	Wake Rd	0	2	New Location	Y	Υ	

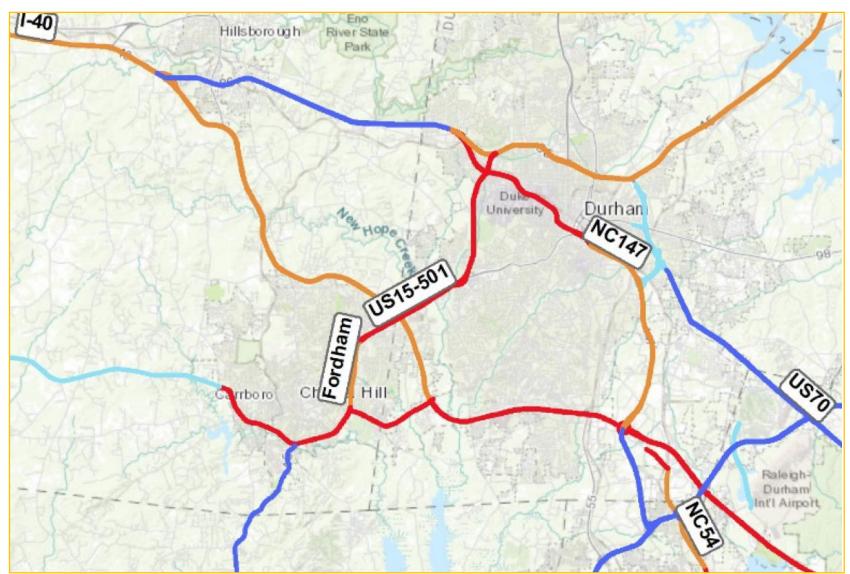


- These projects are <u>not</u> included:
- Orange County has added the following back into the Vision and/or Traditional
 - I-85 (in Orange County)
 - NC 54 (I-40 to Barbee Ch Rd)
 - Old NC 86 (I-40 to Eno River)
 - NC 86 (Old NC 10/US 70 Bus)
 - NC 86 (US 70 Bypass to NC 57)

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Project	~	From	То	*	Lane		-}	t ▼	Visio -T	oni▼	Commen	its		~			
Angier/Glover Connector	r	Ellis Rd	Glover	Rd	0	2	Ne	w Location	N	Y	Durham (deleted	from Vi	sion			
I-40 (westbound auxilian	У																
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Fayetteville Rd] -/	10 Managed Lanes		NC 147		NC 54		6	10	۱۸/	idening	N	Υ	Durh	am delete	ed from '	Vision
I-85	<u> </u>	+O IVIAITABE A LATTE		Wake Co	untv	INC 34		÷			iuciiiig		····	Duilli	iiii deiet		V 131011
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US 15-501 (expressway	1!4	10/ NC 34 railip		Farringto		1-40		·	1	ivew	LOCALIOII	IN	IN				
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NC 54	Le	esville Rd Ext		EXT				0	2	inew	Location	N	ΥΥ		as part of		
NC 54]	C 754		NC F4		Southpoint		2	4	14/	:	N.			sections	•	te, but
NC 54		C 751		NC 54		Auto Park B		2	4	mp	idening	N	N	most	ly still tw	o-lane	
NC 54	NC.	orthern Durham P	'kwy	I 85 Nortl		Old Oxford	HWY	0	4	New	Location	N	N				
	ch	erron Rd		S Minera Springs R		Stallings Rd		2	4	۱۸/	idening	N	N				
NC 751		outhwest Durham	Dr.	NC 54	<u></u>	I-40		0	2		Location	<u>'\</u>	N				~~~~
Falconbridge Rd Connect	130	outiwest Duillain		INC 34		Old Chapel	 Ц:П	- 	_	ivev	LUCALIUII	IN	\				~~~~~
Falconbridge Rd Extension	ر ا	outhwest Durham	Dr	Sawyer D	r	Rd		2	4	۱۸/	idening	N	N				
Garrett Rd	~~~	~~~~~		<i>-</i>	~~~~~	I-85		4	6				 				
Garrett Rd	103	3 15-501 Bypass		MLK Park	way			+ 4	О	VV	idening	N	N		***********		
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Hope Valley Rd (NC 751)	VV	ake Forest Hwy (I	NC 98)	Nichols F	arm Dr			2	4	VV	idening	N	N				
<u> </u>	 	ıbanks Rd		Millhous	a Dd	Rex Rd/Kou trail	isa	2	4	۱۸/	idening	N	N				
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Bus On Shoulder System (BOSS)





- Include in highway section
- Add to Vision and Traditional scenario

Bus On Shoulder System (BOSS)

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PLANNING TOMORROW'S TRANSPORTATION

Which BOSS can be part of MTP project, and which would need to be added?

BOSS Suitability:

- * Red font "most suitable"
- * Orange font "2nd most suitable"
- * Blue font less suitable

- Cost is \$100,000 per miles, based on recent BOSS study, and assumes that BOSS is part of pavement maintenance project.
- Total cost is \$6,050,000

Day's at	\	01
Project	Vision	Cost
I-40 – I-85/US 15-501	part of widening	\$0
I-40 Managed Lane – US 15-501/NC 54	interim to widening	\$290,000
I-40 Managed Lane – NC 54/Wake Co.	interim to widening	\$980,000
NC 147 – I-85/W Chapel Hill St	no roadway improvements	\$410,000
NC 147 – W Chapel Hill St/I-885	interim to modernization	\$350,000
NC 147 – I-885/I-40	interim to widening	\$490,000
I-85 – NC 147/I-40 (Orange County)	interim to widening	\$800,000
I-85 – US 70/NC 147	no roadway improvements	\$580,000
NC 54 – Old Fayetteville Rd/NC 86	no roadway improvements	\$310,000
US 15-501 – NC 86/NC 54	part of modernization	\$0
US 15-501 – NC 54/E Franklin St	part of modernization	\$0
US 15-501 – E Franklin St/I-40	part of modernization	\$0
US 15-501 – I-40/US 15-501 Bypass	no roadway improvements	\$200,000
US 15-501 –US 15-501/I-85	no roadway improvements	\$480,000
NC 54 – US 15-501/Barbee Chapel	part of modernization	\$160,000
NC 54 – Barbee Chapel/I-40	interim to widening	\$160,000
NC 54 – Davis Dr/Miami Blvd	no roadway improvements	\$90,000
NC 54 – Slater Rd/Wake Co	no roadway improvements	\$120,000
US 70 I-885/Wake County	interim to widening	\$630,000

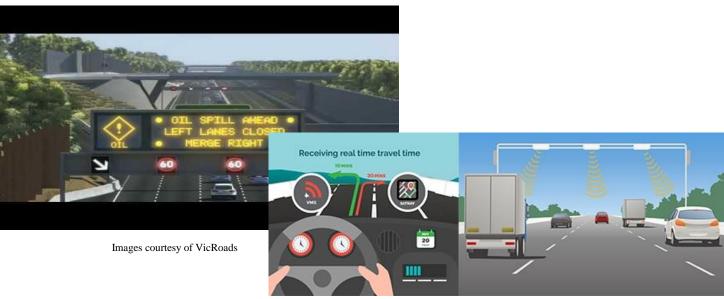
Managed Roadways

Included in Vision scenario as type of modernization

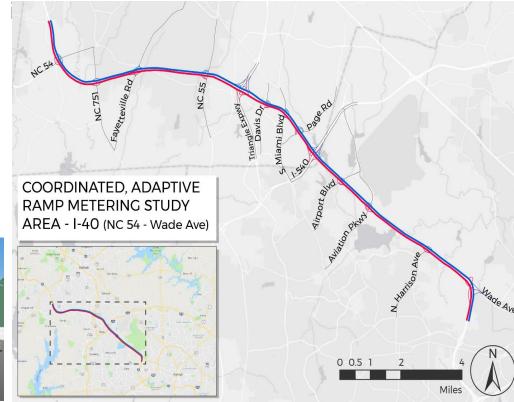


What is a Managed Roadway?

- Synchronizes flow of vehicles entering a freeway to available capacity on the freeway
- Provides real time demand management to manage traffic
- Interchanges coordinate with one another to prevent excessive wait times and queuing for all interchanges, metering rates differ for each ramp
- Future infrastructure to vehicle communications
- Better coordination with transit priority



 I-6006, I-40 from NC 54 in Durham to Wade Ave in Raleigh. ~\$54 million. ROW and construction in 2028 and 2029, respectively,



Other Investments



Electric Vehicle Charging Stations

- Identified often in public comments and supports MPO Goals
- Staff working to identify cost. Great variability in equipment costs and quantity estimates
- Could be policy statement

Travel Demand Management (TDM)

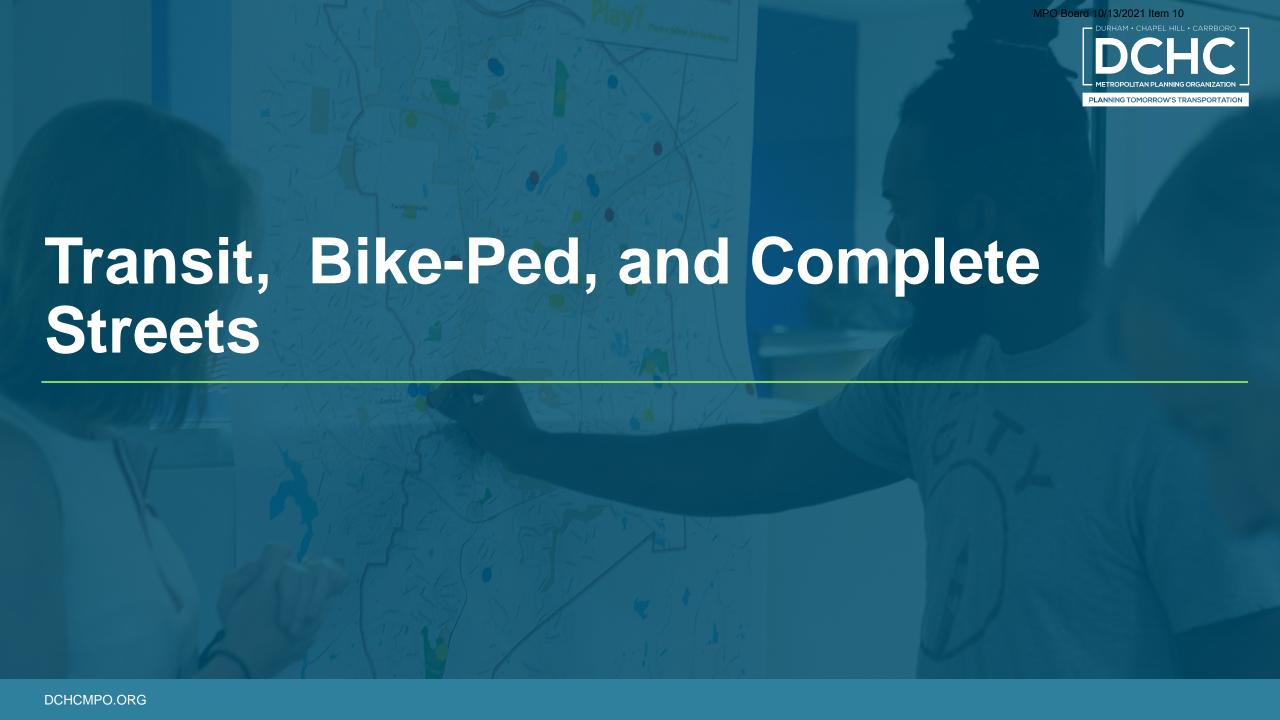
- Marketing, outreach, program to support carpool, vanpool, telecommuting, transit, bicycling and walking
- Staff need to calculate the funding amount

<u>Transportation System Management</u> (TSM)

- Relative low-cost projects to improve efficiency and safety of current roadways
- Staff need to calculate the funding amount

Intelligent Transportation System (ITS)

- Programs and projects from Triangle Regional ITS Strategic Deployment Plan Update (June 2020) that use sensing devices and data to improve roadway operations management
- Staff need to calculate the funding amount



Transit



Transit projects are mostly the same for both the Vision and Traditional options except as noted.

Green font = Vision
Blue font = Traditional
Black font = both

When the transit network is completed, staff will create an interactive map and identify the funding.

Transit Element	2030	2040	2050
CRT –Triangle Commuter Rail		W. Durham to Clayton; 8-2-8-2	Hillsborough to Selma; 12-8-12-8
BRT - Chapel Hill North-South	BRT: Eubanks to Southern Village	no change	no change
BRT - Durham/Chapel Hill (via US 15-501): UNC Healthcare to downtown Durham to NCCU		BRT with bus-only lane	no change
BRT - Durham/RTP (via NC 147)		BRT using managed lane	BRT using managed lane
BRT - Chapel Hill/RTP (via NC 54)			BRT with bus-only lane
Bus – frequency, coverage and connection improvements, especially major corridors	Yes	Yes	Yes
Bus - amenity and access improvements	Yes	Yes	Yes
BOSS – bus on shoulder improvements to highways	See highway plan	See highway plan	See highway plan
Express Bus - Durham/Butner (via I-85)			Enhanced bus service
Express Bus - White Cross/UNC		Enhanced bus service	Enhanced bus service
Express Bus - Chapel Hill/ Hillsborough		Enhanced bus service	Enhanced bus service
Express Bus - Chapel Hill/ Pittsboro		Enhanced bus service	Enhanced bus service

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

- 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

Bike/Ped Costs for 2						
		Un (ft)		ļ	Total Cost (\$millions)	
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	

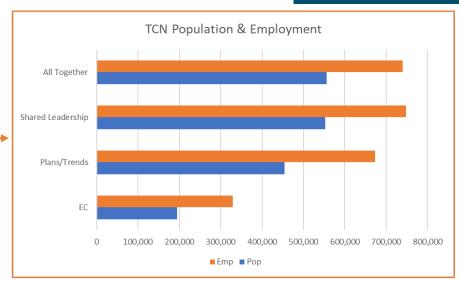


Performance Measures



Staff identified <u>additional PMs</u> for Preferred Option:

- Population and jobs near frequent transit (Travel Choice neighborhoods)
- Jobs within 20 and 40 minutes by auto and transit



TRM output moves in right direction, but moves very little, e.g., VMT, VHT, travel time, mode share



Are there other models that support DCHC MPO policy changes?

Rapid Policy Assessment Tool (RPAT)

- Used to assess what types of smart growth development are most suitable for given areas
- Input different smart growth scenarios and estimate the effect on regional travel, sprawl, energy-reduction, and carbon footprints.
- Based on model results that have been experienced in U.S. cities as a result of policy changes.
- DCHP MPO help FHWA develop RPAT in 2016

Now called **VisionEval** (www.visioneval.org)



RPAT was <u>validated</u> against results from the Triangle Region Model (TRM) using four RPAT scenarios in 2016

2040 MTP (Base)	Vehicle Miles Traveled	Vehicle Hours Traveled	Total Transit Trips	Total Vehicle Trips
RPAT	66,367,265	1,623,893	223,402	8,894,594
TRM	63,920,021	1,707,586	227,878	8,919,982
Difference (%)	3.83%	-4.90%	-1.96%	-0.28%



RPAT Tested 7 Scenarios in Triangle:

- 1. 2040 MTP Baseline
- 2. E+C: 18% Reduction of Roadway Construction
- 3. Hwy: 9.8% Increase of Roadway Construction
- Transit 4. TRN: 276% Rail Mile Increase, 12% Bus mile Reduction and 9.4% Reduction of roadway construction
 - 5. ITS20: 20% Road lane mile with ITS treatment.
- Land Use 6. MTPx20DA: Shift 20% Growth to Dense Areas
 - 7. **MTPx20DAwITS**: Shift 20% Growth to Dense Areas with 20% lane mile ITS treatment

Two scenarios depict DCHC MPO policy changes: fewer roads, more transit, more centralized development



RPAT Test Scenario Results:

Transit

LandUse

%Diff to Baseline	Scenario	E+C	Hwy	TRN	xITS	yG20toDA	zG20toDA&ITS
	Vehicle Trips	0.14%	0.19%	-1.07%	0.00%	-0.80%	-0.80%
	Transit Trips	-35.97%	-40.09%	16.45%	0.00%	11.55%	11.55%
	Walking Trips	-71.93%	-57.85%	113.53%	0.00%	163.12%	163.12%
	VMT	0.93%	1.55%	-1.79%	0.00%	-3.29%	-3.29%
Output	vнт	2.64%	1.84%	-3.10%	0.7%	-3.53%	-4.10%
•	Greenhouse Gas Emission	0.52%	1.24%	-0.55%	-1.44%	-0.13%	-1.56%
	Accident Number	0.93%	1.55%	-1.79%	0.00%	-3.29%	-3.29%
	Hwy Construction Cost	-18.36%	9.44%	-0.77%	0.00%	0.00%	0.00%

Proposed Policy Assessments



TRIANGLE REGIONAL MODEL (TRM)

Parking – Increase parking price 50% and reduce 2050 parking capacity 30%

Land Use – 50% of rural and suburban growth moved to

urban area

Transit – Free transit fare

- (bus, BRT, CRT, etc.)

MPO will use the Preferred Option – Vision scenario – for the TRM policy assessments.

Note: For sake of expediency, MPO will use Opportunity Places from All Together scenario for policy assessments. Updated Opportunity Places will be used for Preferred Option.

RPAT

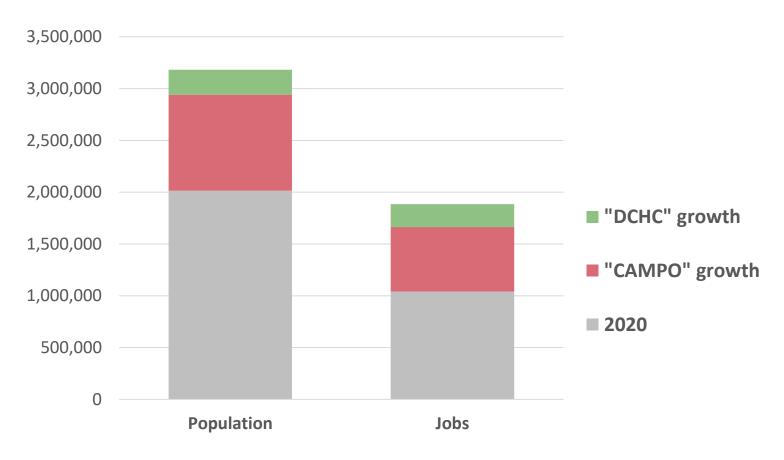
Commute – Employees work from home 2 days per week.



2020-2050 Growth Guide Totals



(modeled area; larger than MPO boundaries)



Within "modeled area:"

□ 2020-50 added population: 1,160,000

2020-50 added jobs: 840,000

Opportunity Places Land Use

- 4 changes from Community Plans land use:
 - 20% more net growth <u>asserted</u> on Anchor Institution campuses adding 5,000 jobs combined over and above existing plans
 - Multi-family affordable housing <u>asserted</u> at publicly controlled sites that meet physical criteria: 10,000 units over 30 years
 - □ Increased <u>capacity</u> for growth at 22 activity hubs
 - □ Increased <u>capacity</u> for transit-oriented mixed-use development along frequent transit lines





Schedule



- Release Preferred Option -- by October 27
- Conduct public hearing on Preferred Option -- November 10
- Approve Preferred Option for 2045 MTP;
 Release full 2050 MTP report, including SE Data and Triangle Regional Model -TRM;
 Release Air Quality Conformity Determination report --December 8
- Adopt by resolution the 2050 MTP (adoption includes SE Data and TRM), and Air Quality Conformity Determination --January 12 or February 9, 2022

The DCHC MPO Public Involvement Plan:

- minimum 42-day public comment period for major MTP decision points such as the Preferred Option;
- minimum 21-day public comment period for Air Quality Conformity Determination.