



Metropolitan Transportation Plan

Chatham County
Board of County Commissioners

September 18, 2017

www.dchcmpo.org

Today's Objective

- ▶ Understand role of Durham–Chapel Hill–Carrboro Metropolitan Plan Organization (DCHC MPO).
- ▶ Understand role of Metropolitan Transportation Plan (MTP) and how to review it.
- ▶ Provide feedback to DCHC MPO and City staff.

What is the DCHC MPO?

Durham–Chapel Hill Carrboro Metropolitan Planning Organization

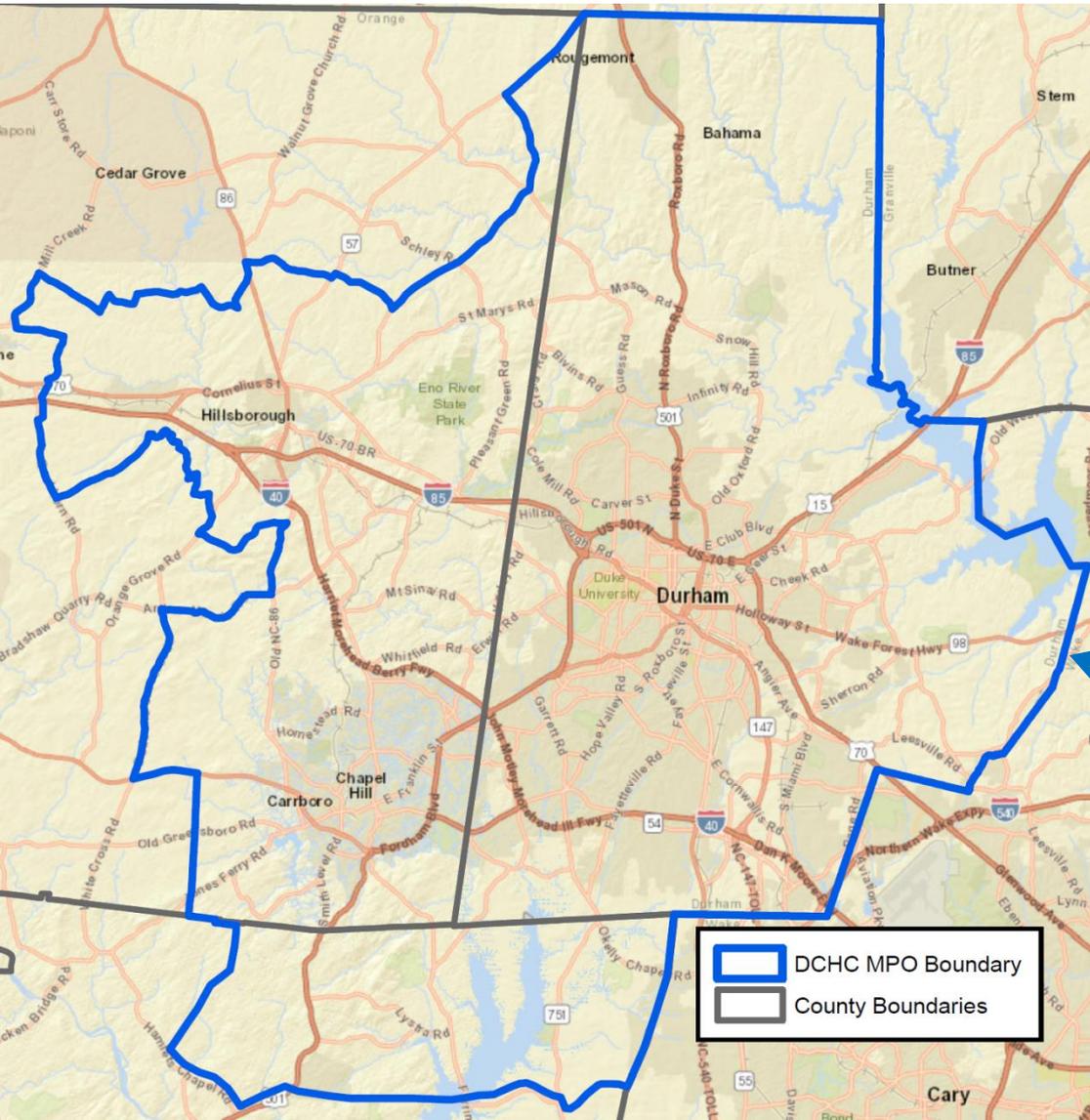
- ▶ Responsible for long range transportation planning in
 - Durham City and County, and
 - Parts of Orange County and Chatham County.

- ▶ Federal mandate – MPO must plan and approve use of federal transportation funding

- ▶ Policy Board -- Composed mostly of local elected officials from member jurisdictions and counties.
 - Steve Schewel – Chair
 - Don Moffitt – Member
 - Mayor Bell -- Alternate

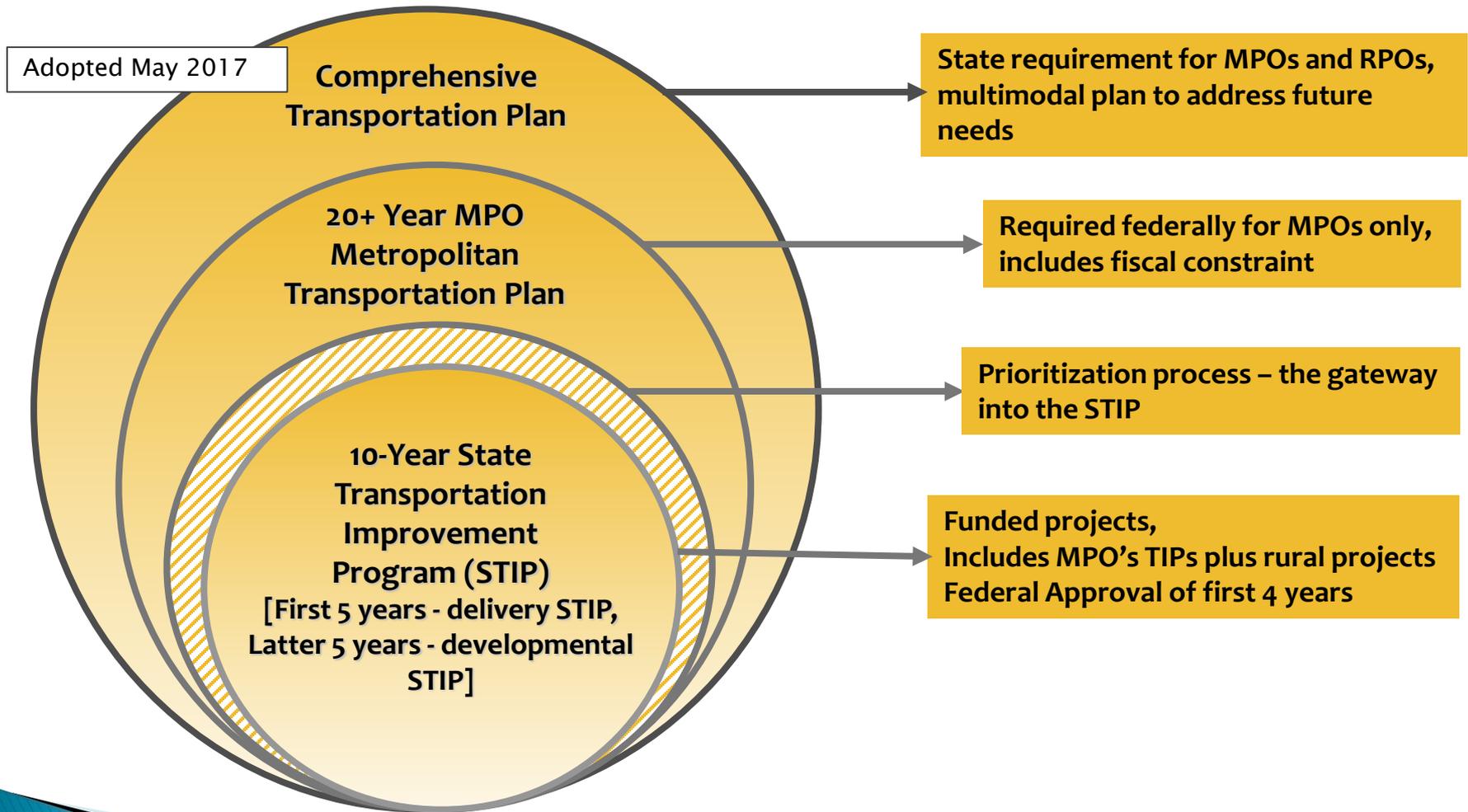
What is the DCHC MPO?

(continued)



- ▶ Most funding designated in cooperation with NCDOT, but MPO also has discretionary highway, bicycle, pedestrian and transit funding.
- ▶ All urbanized area must be in the MPO planning boundary.

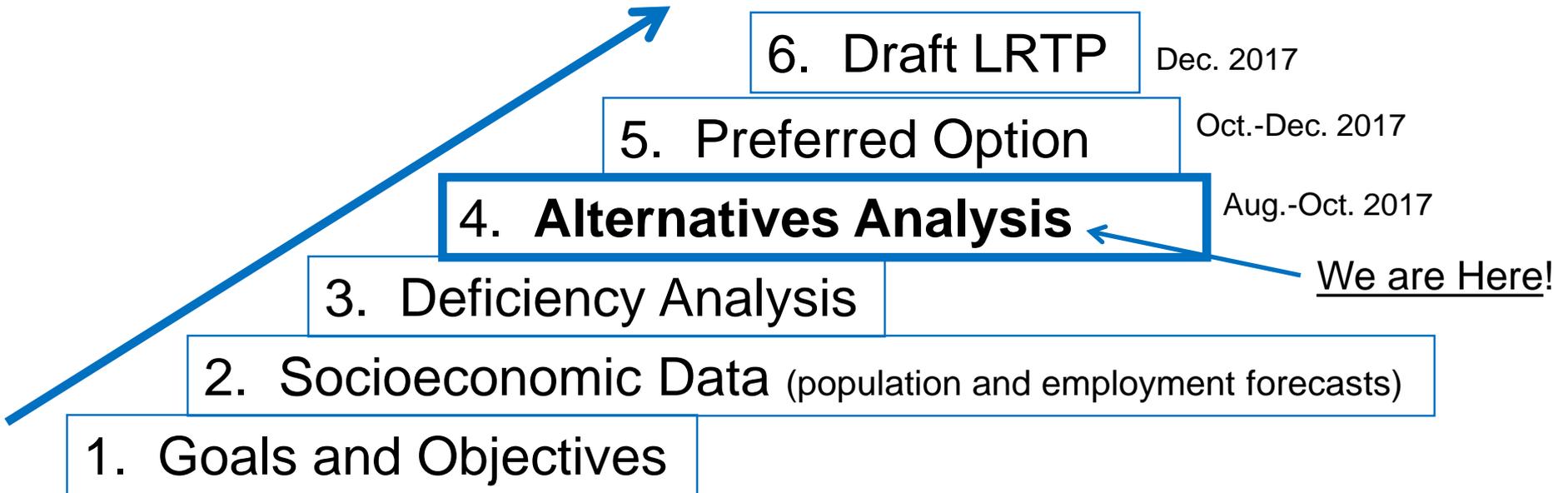
Transportation Planning Framework



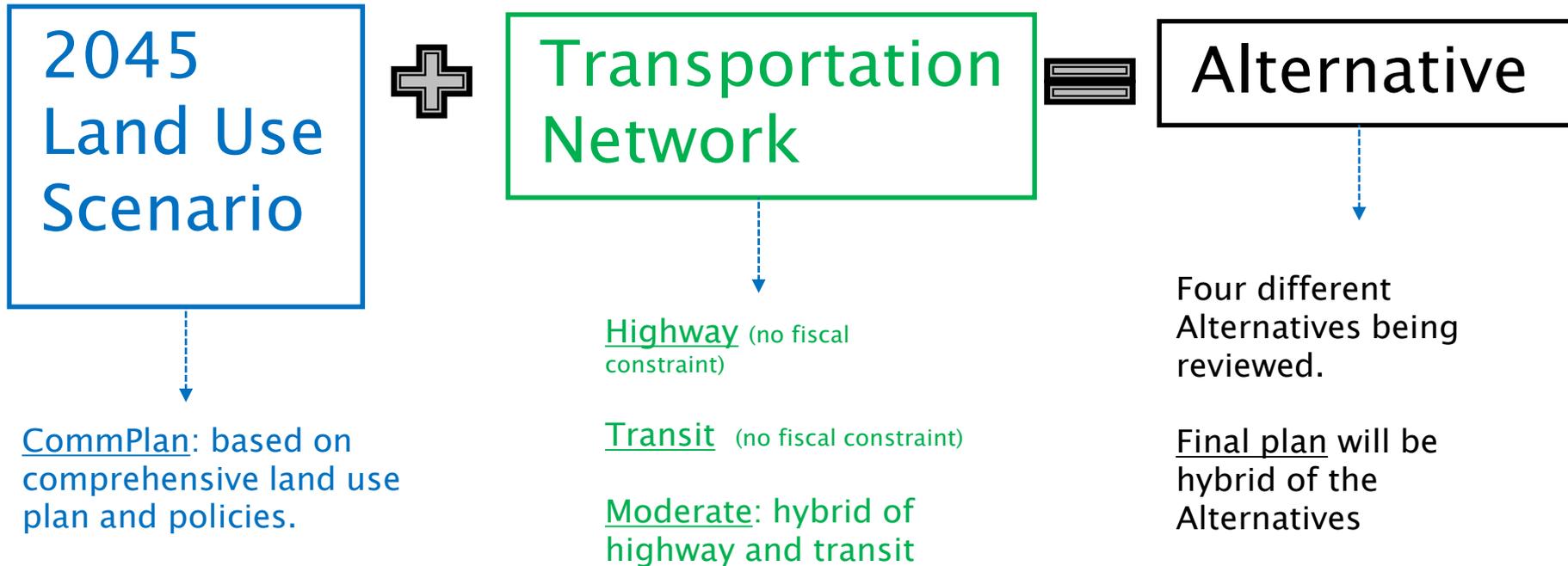
What is the 2045 Metropolitan Transportation Plan (MTP)?

- ▶ Lists highway, transit and other transportation projects to address future transportation deficiencies through year 2045.
- ▶ Assumptions – based on future land use, population and employment.
- ▶ Fiscal Constraint – Anticipated revenues must cover anticipated project costs.
- ▶ Funding – Projects must be in MTP to receive state and federal funding (via Transportation Improvement Program – TIP)
- ▶ Used for Planning
 - e.g., In development review, use LRTP to reserve right-of-way for future highway and fixed guideway projects

What is the 2045 (MTP) Process?



What are the Alternatives?



CommPlan: based on comprehensive land use plan and policies.

AIM High: More density and mixed use at future rail station areas.

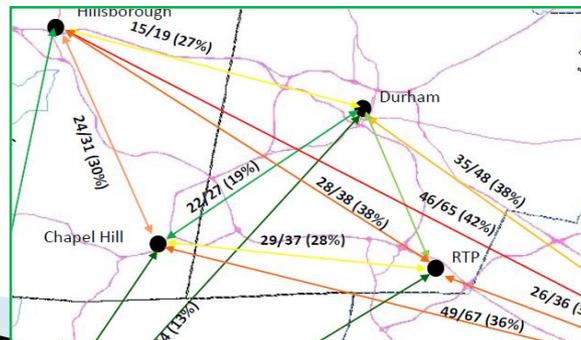
What Information is Available?

- Triangle Regional Model Output Performance Measures
- Travel Isochrones
- Travel Time
- Congestion Maps (V/C)

		SE Data	2010	2040	2040
		Transportation Network	2010	E+C	2035
1	Performance Measures				
1.1.1	Total Vehicle Miles Traveled (VMT-daily)		13,217,550	20,368,697	20,581,822
1.1.1a	Total Vehicle Miles Traveled (VMT-per capita)		33	32	33
1.2.1	Total Vehicle Hours Traveled (VHT-daily)		312,669	581,776	536,746
1.2.1a	Total Vehicle Hours Traveled (VHT-per capita)		0.77	0.92	0.85
1.3	Average Speed by Facility (miles/hour)				
1.3.1	- Freeway		63	57	61
1.3.2	- Arterial		42	38	39
1.3.3	- All Facility		51	47	50



Route	2015 Base Year	2045 E+C	Mod-MTP	Mod-Hwy	Asp-Transit	Asp-MTP
I-40						
I-40 EB (NC147 to NC 540)	1.3	2.0	1.8	1.7	1.6	1.6
I-40WB (NC 540 to NC147)	1.2	1.5	1.3	1.3	1.4	1.4



What Projects are Being Considered?

Highway

US 15-501:
superstreets and
intersection upgrades

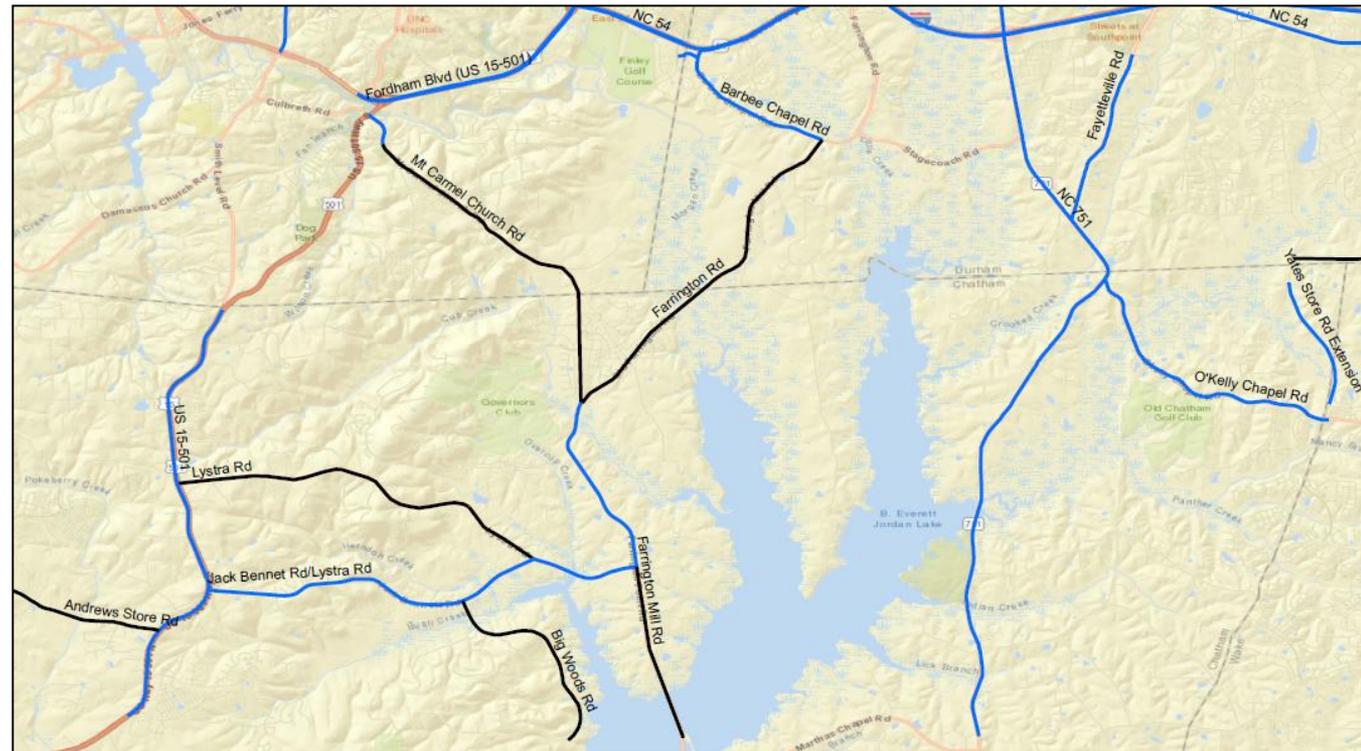
NC 751: widening

Jack Bennet Rd:
modernization

Farrington Rd:
Modernization

O'Kelly Chapel Rd:
modernization

Yates Store Rd Ext.:
new 2-lane divided
road



Blue line = chance of being in 2045 MTP

Black line = not good chance of being in 2045 MTP

What Projects are Being Considered?

Highway

(These are a funded category in the MTP, not specific projects)

TSM (Transportation System Management)

Low cost solutions to increase capacity and safety of roadways, examples:

- Intersection improvements
- Turning lanes
- Traffic signal coordination
- Traffic calming devices

ITS (Intelligent Transportation Systems)

Technology to make existing transportation infrastructure more efficient and safer, examples:

- Smart traffic signals
- Message signs
- Incident management patrols
- Surveillance traffic cameras
- Ramp meter

TDM (Travel Demand Management)

Programs to reduce or manage transportation demand, examples:

- Carpooling and vanpooling
- Telecommuting
- Flextime
- Congestion pricing

What Projects are Being Considered?

Transit and Other Modes

Transit: more frequent service between Pittsboro and Chapel Hill

Bicycle: on-road and off-road bicycle facilities
(ex. NC 751, Farrington Rd, Jack Bennett Rd, Lystra Rd, O'Kelly Ch Rd, Big Woods, Poythress Rd, Andrews Store Rd and Yates Store Rd Ext)

Multiuse Path: modernization
(US 15-501 and adjacent to American Tobacco Trail)

Closing

Thank you for your input

Contact:

- Andy Henry, DCHC MPO, 919-560-4366 ext. 36419, andrew.henry@durhamnc.gov
- Cara Coppola, Chatham County Planning Dept., 919-545-8365, cara.coppola@chathamnc.org

www.bit.ly/DCHC-MTP