



DURHAM • CHAPEL HILL • CARRBORO

DCHC

METROPOLITAN PLANNING ORGANIZATION

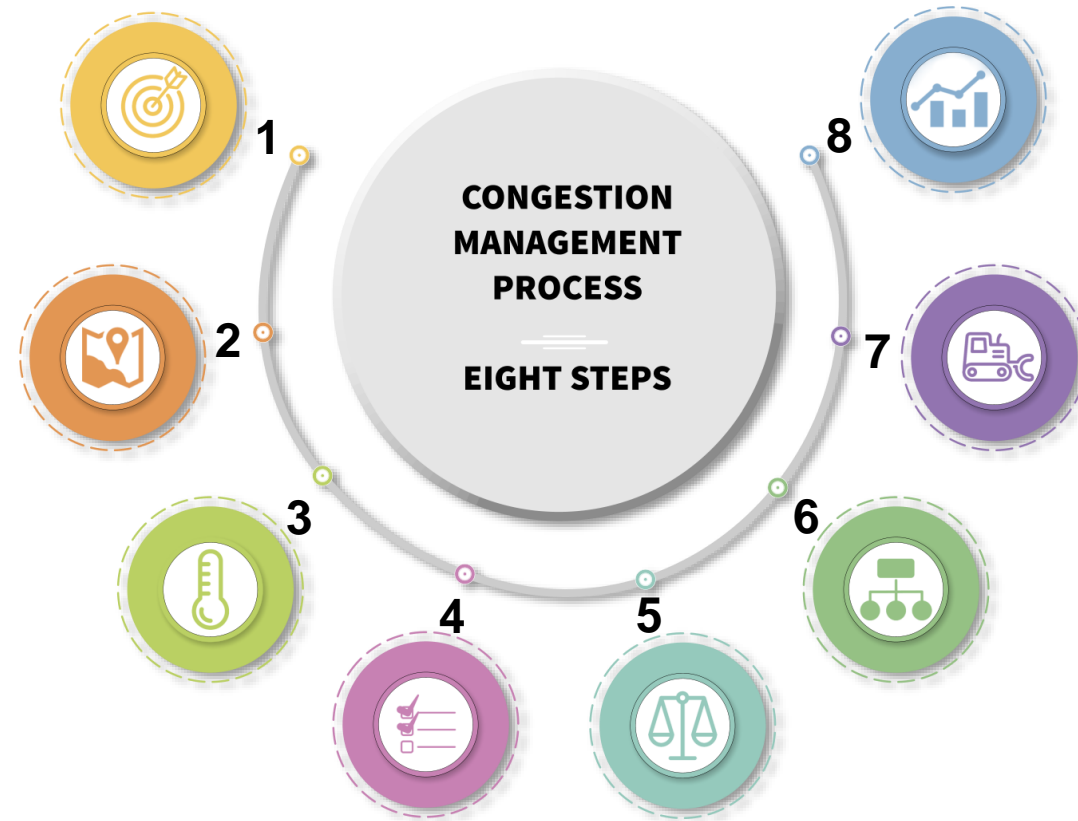
PLANNING TOMORROW'S TRANSPORTATION

CMP Update – Performance Measures

August 8th , 2023

Congestion Management Process Steps and Progress

1. Develop Objectives (Completed)
2. **Define Study Areas** (Proposed)
3. Performance Measures (Draft)
4. Collect, Monitor & Analyze Data
(95% Completion of Data Collection & Process)
5. Evaluation of Problems (On-going)
6. Selection of Strategies
7. Program Implementation
8. Evaluate Strategies



Goal 1: Reliability and Efficiency

CMP Objectives	Performance Measures	Data Source
1) Maintain reasonable person-trip and freight mobility , and corridor/system reliability for all transportation modes	% of Reliable person-miles, i.e. LOTTR by Interstate & National Hwy System Truck travel time reliability index Bus Average On-time Performance Level of Service (LOS)	National Performance Management Research Data (NPMRD)/Regional Integrated Transportation Information System (RITIS) Transit Agencies AADT & TMC Count of NCDOT/MPO, TRM & Synchro
2) Increase efficiency of existing transportation corridor/system through strategies such as Transportation Demand Management (TDM), Intelligent Transportation Systems (ITS)	Hours of Delay by Peak & Day (Per Capita/Trip) VMT or Number of Trips	NPMRD/RITIS Streetlight Data/TRM/VisionEval
3) Improve Incident Management by reducing incident clearance times on the transit, arterial and Protecting the Human and throughway networks through improved traffic incident detection and response	% Incidents cleared in 30 minutes or less	NCDOT

AADT: Annual Average Daily Traffic; TMC: Turning movement Count; TRM: Triangle Region Model; VisionEval: Policy Assessment Tool

Goal 2: Safety

CMP Objectives	Performance Measures	Data Source
Achieve zero deaths and serious injuries on our transportation system	Number of Bike&Ped fatalities and serious injuries	NCDOT
	Number of motorized fatalities and Rate (Per 100m VMT)	
	Number of motorized serious injuries and Rate (Per 100m VMT)	

VTM: Vehicle Mile Traveled

Goal 3: VMT Reduction & Transportation Choices

CMP Objectives	Performance Measures	Data Source
1) Maintain reasonable person-trip and freight mobility , and corridor/system reliability for all transportation modes	(CMP Route) Transit Ridership and Passenger Mileage	APC Count data, TRM and VisionEval
2) Provide all residents with active transportation choices	Number of Bike and Ped Trips	Bike&Ped Count, Streetlight Data & TRM
	Bike & Ped Facility density by community or TAZ	Data from MPO partner and State
	Bicycle level of traffic stress	https://transweb.sjsu.edu/sites/default/files/1005-low-stress-bicycling-network-connectivity.pdf
3) Enhance transit services, amenities and facilities	Transit Service Miles/Hours (Per Capita)	FTA database and TRM
4) Improve bicycle and pedestrian facilities	Sidewalk Coverage & Bike-Facility Coverage or Density	Data from MPO partner and State
5) Increase utilization of affordable Non-Single Occupancy Vehicle (Non-SOV) modes	% of Non-SOV mode Travel	Census ACS/CTPP & TRM

APC: APC: Automatic Passenger Counter;
 TAZ: Transportation Analysis Zone;
 ACS: American Community Survey;
 CTPP: Census Transportation Planning Products.

Goal 4: Connectivity

CMP Objectives	Performance Measures	Data Source
1) Increase mobility options for all communities -- particularly communities of concern 2) Achieve zero disparity of access to jobs, education, and other important destinations by race, income, or other marginalized groups 3) Enhance connectivity of the transportation system, across and between modes for people and freight	1.1) Transit Job Accessibility by Community/TAZ; 1.2) Percentage of Transit non-work Trips	Geo database and TRM data
	2.1) Auto job accessibility by community/TAZ; 2.2) Walk Accessibility to Schools	TRM data, school Locations from NC education department & other location info from Geo Database
	Coverage of Transportation Mode First&last-mile service P&R Lot Location and Bike&Ped facility to Transit Stops	TRM, Bike&Ped Data, Population and employment data Transit Agency Geo database & Transit Agency

Thank You

Send Questions & Comments to Yanping.Zhang@DCHCMPO.org