

DURHAM • CHAPEL HILL • CARRBORO

DCHC

METROPOLITAN PLANNING ORGANIZATION

PLANNING TOMORROW'S TRANSPORTATION

CMP Update – Mitigation Strategy & Survey

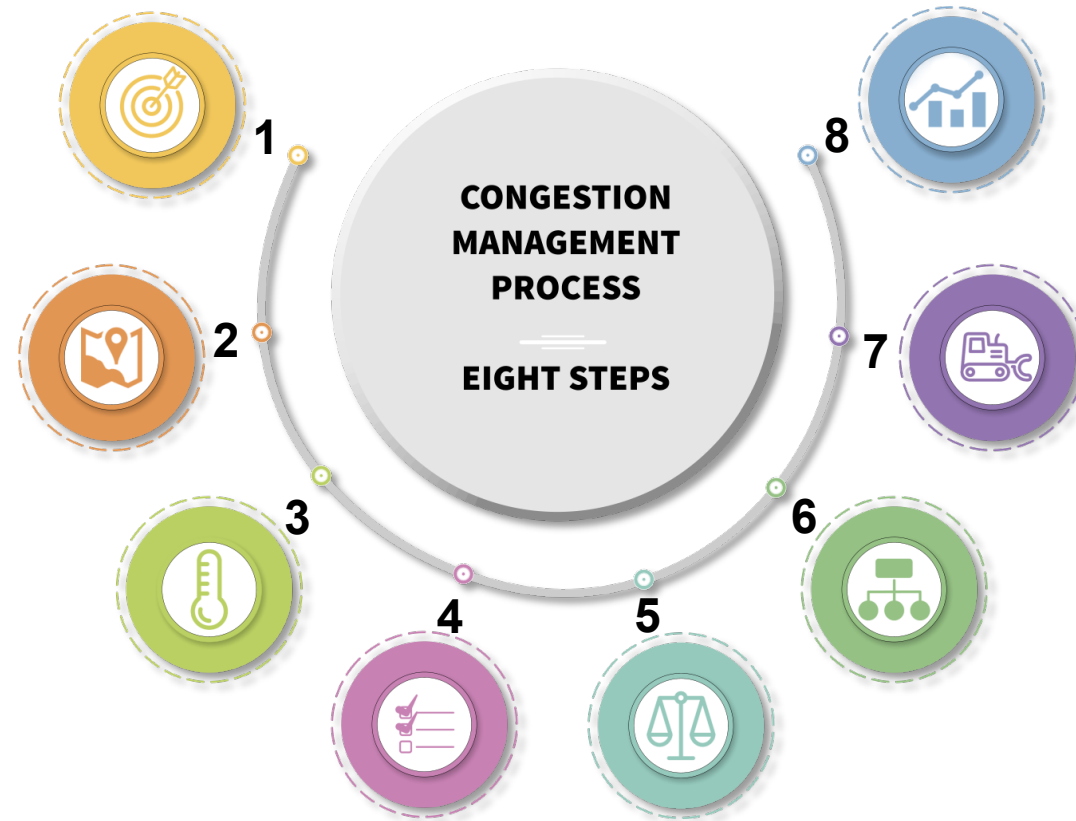
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Congestion Management Process Steps and Progress

1. Develop Objectives (Completed)
2. **Define Study Areas** (Proposed)
3. Performance Measures (Completed)
4. Collect, Monitor & Analyze Data
(Data Collection completed & Process ongoing)
5. Evaluation of Problems (Ongoing)
6. Selection of Strategies (Ongoing)
7. Program Implementation
8. Evaluate Strategies



Mitigation Strategy Selection and Toolbox

- Based on approved Goals/Objectives, a draft List of Mitigation Strategies was developed by Roadway Type and Priority
- A survey will be conducted to refine the list

Approved Goals and Objectives

CMP Goals	CMP Objectives
Reliability and Efficiency	1) Maintain reasonable person-trip and freight mobility , and corridor/system reliability for all transportation modes 2) Increase efficiency of existing transportation corridor/system through strategies such as Transportation Demand Management (TDM), Intelligent Transportation Systems (ITS) 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
Safety	Achieve zero deaths and serious injuries on our transportation system
VMT Reduction & Transportation Choices	1) Reduce VMT by Direct Strategies , such as Encouraging telecommuting policies, parking/price management, transit subsidies and so on 2) Provide all residents with active transportation choices 3) Enhance transit services, amenities and facilities 4) Improve bicycle and pedestrian facilities 5) Increase utilization of affordable Non-Single Occupancy Vehicle (Non-SOV) modes
Connectivity	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

Strategy Toolbox: Freeways

Higher Priority Strategies



A. ITS/Integrated Corridor Management



B. Ramp Metering



C. Bus Rapid Transit/ Bus On Shoulder



D. Park & Ride



E. Hard Shoulder Running

Lower Priority Strategies



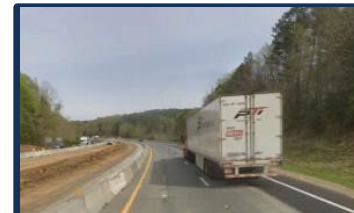
F. Improve Ramp Storage



G. Lengthen Accel/Decel



H. Auxiliary Lanes



I. Add General Purpose Lanes



J. Add Managed Lanes



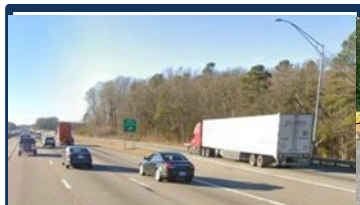
K. Modify Interchange

Toolbox: 4+ Lane Divided Arterials

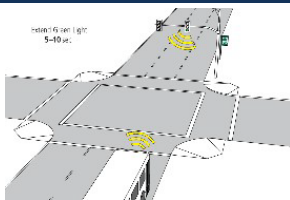
Higher Priority Strategies



A. Adjust Signal Timing/Phasing
*



B. ITS/Integrated Corridor Management



C. Transit Improvements
**



D. Shared Use Paths



E. Park & Ride



F. Mobility Hubs

Lower Priority Strategies



G. Add/Lengthen Turn Lanes



H. RCIs/Median Improvements



I. Add General Purpose Lanes



J. Add Interchange

* Adjust Signal for multi-modal trips

**Transit Improvements may include, but not limited to, BRT, service frequency increase, and transit priority corridor

Toolbox: 2-4 Lane Undivided Arterials

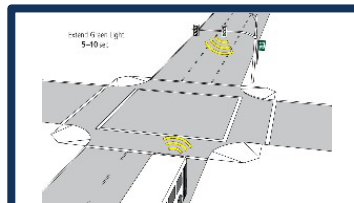
Higher Priority Strategies



A. Adjust Signal Timing/Phasing



B. ITS/Incident Response



C. Transit Improvements



D. Improve Connectivity



E. Ped/Bike Improvements



F. Mobility Hubs

Lower Priority Strategies



G. Add/Lengthen Turn Lanes



H. Roundabouts/Alt. Intersections



I. Add General Purpose Lanes



J. Access Management

*Transit Improvements may include, but not limited to, BRT, service frequency increase, and transit priority corridor

Toolbox: Other High-Crash/Delay Arterial Locations

General



A. Adjust Signal Timing/Phasing



B. ITS/Incident Response



C. Spot Safety Improvements



D. Add/Lengthen Turn Lanes



E. Roundabouts/Alt. Intersections

At-Grade Rail Crossings



F. Add Signage/Warnings



G. Improve Bike/Ped crossing



H. Add Grade Separation



I. Relocate Rail

Survey for Mitigation Strategies

1. Delete a strategy by removing its Strategy ID in the table below
2. Add a new strategy under "Suggesting New Strategies" with ID & short description, and add its ID to High or low priority
3. Change a strategy priority by moving its ID from High to Low priority or the other way around

Freeway

High Priority Strategy ID	Low Priority Strategy ID	Suggesting new Strategies
1	6	
2	7	
3	8	
4	9	
5	10	
	11	

Higher Priority Strategies



1. ITS/Integrated Corridor Management



2. Ramp Metering



3. Bus Rapid Transit/ Bus On Shoulder

Lower Priority Strategies



6. Improve Ramp Storage



7. Lengthen Accel/Decel



8. Auxiliary Lanes



9. Add Purposes

Thank You