# 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



CONGESTION MANAGEMENT PROCESS — EIGHT STEPS
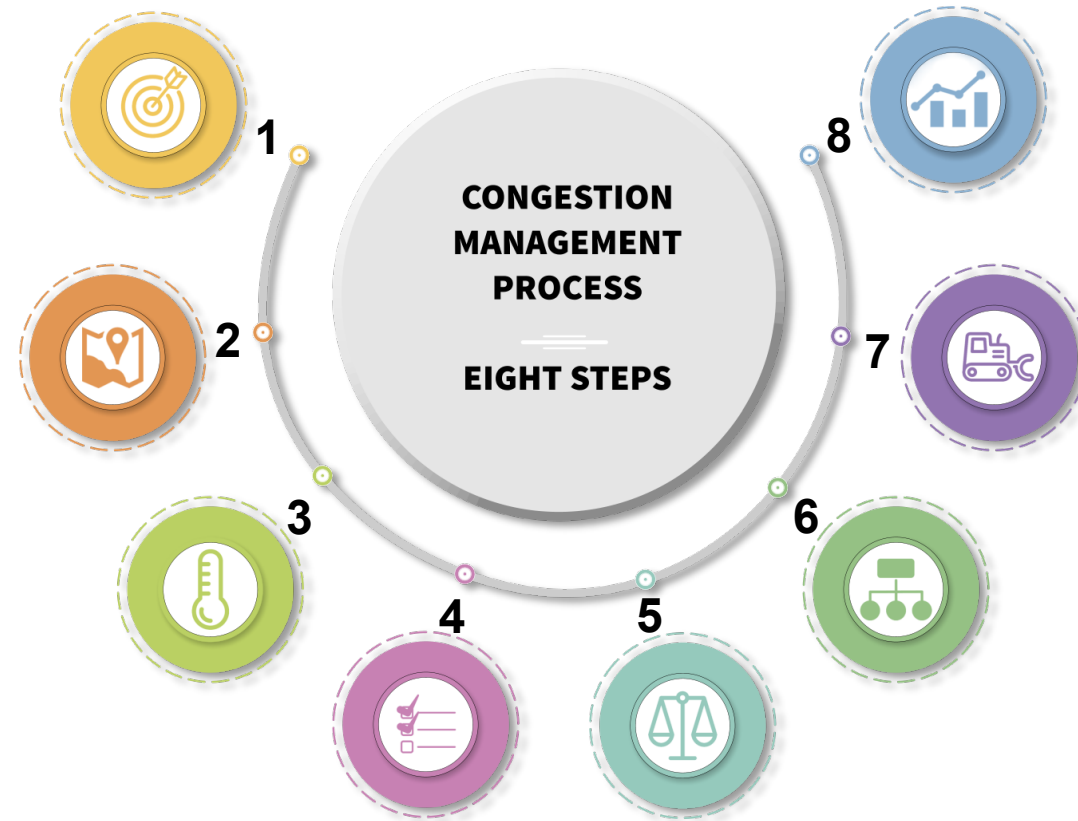
# Mitigation Strategy Selection and Toolbox

- 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 cooridor/system through strategies such as Transportaiton 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



**1. ITS/Integrated Corridor Management**

**2. Ramp Metering**

**3. Bus Rapid Transit/ Bus On Shoulder**

**4. Park & Ride**

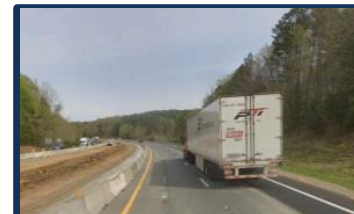**5. Hard Shoulder Running**

## Lower Priority Strategies



**6. Improve Ramp Storage**

**7. Lengthen Accel/Decel**

**8. Auxiliary Lanes**

**9. Add General Purpose Lanes**
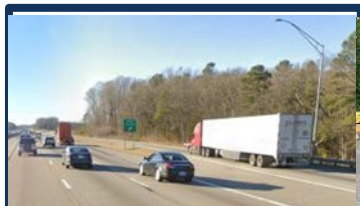
**10. Add Managed Lanes**

**11. Modify Interchange**

# Toolbox: 4+ Lane Divided Arterials

## Higher Priority Strategies



1. Adjust Signal Timing/Phasing



2. ITS/Integrated Corridor Management
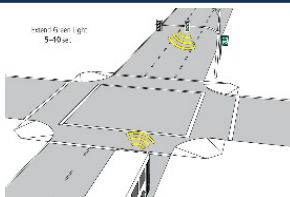


3. Transit Improvements



4. Shared Use Paths



5. Park & Ride



6. Mobility Hubs

## Lower Priority Strategies



7. Add/Lengthen Turn Lanes



8. RCIs/Median Improvements



9. Add General Purpose Lanes



10. Add Interchange

*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



1. Adjust Signal Timing/Phasing

2. ITS/Incident Response

3. Transit Improvements

4. Improve Connectivity

5. Ped/Bike Improvements

6. Mobility Hubs

## Lower Priority Strategies

7. Add/Lengthen Turn Lanes

8. Roundabouts/ Alt. Intersections

9. Add General Purpose Lanes

10. Access Management

*Transit Improvements may include, but not limited to, BRT, service frequency increase, and transit priority corridor
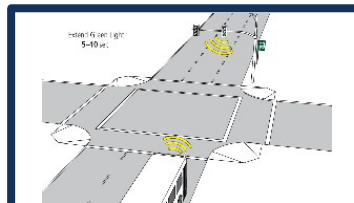
# Toolbox: Other High-Crash/Delay Arterial Locations

## General



**1. Adjust Signal Timing/Phasing**



**2. ITS/Incident Response**



**3. Spot Safety Improvements**



**4. Add/Lengthen Turn Lanes**



**5. Roundabouts/ Alt. Intersections**

## At-Grade Rail Crossings



**6. Add Signage/ Warnings**



**7. Improve Bike/Ped crossing**



**8. Add Grade Separation**



**9. Relocate Rail**

# Survey

**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 Strategy" 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 | |
| | | |
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| | | |

## 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 Purpos

# Thank You