

**Congestion and Asset Management**

**Congestion Management Process Update**

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Public Input  
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# What is the CMP?

One of five federally-mandated planning documents  
(MTP, TIP, UPWP, Public Participation Plan, CMP)

**Required for urbanized areas with populations exceeding 200,000  
(also known as Transportation Management Areas)**

“A **regionally-accepted** approach for **managing** congestion that provides **up-to-date** information on **multimodal** transportation performance and **assesses** alternative strategies that meet state and local needs.”

*FHWA CMP Guidebook*

# What is Required in the CMP?

Regulations are not prescriptive towards the methods, approaches, and strategies in the CMP.

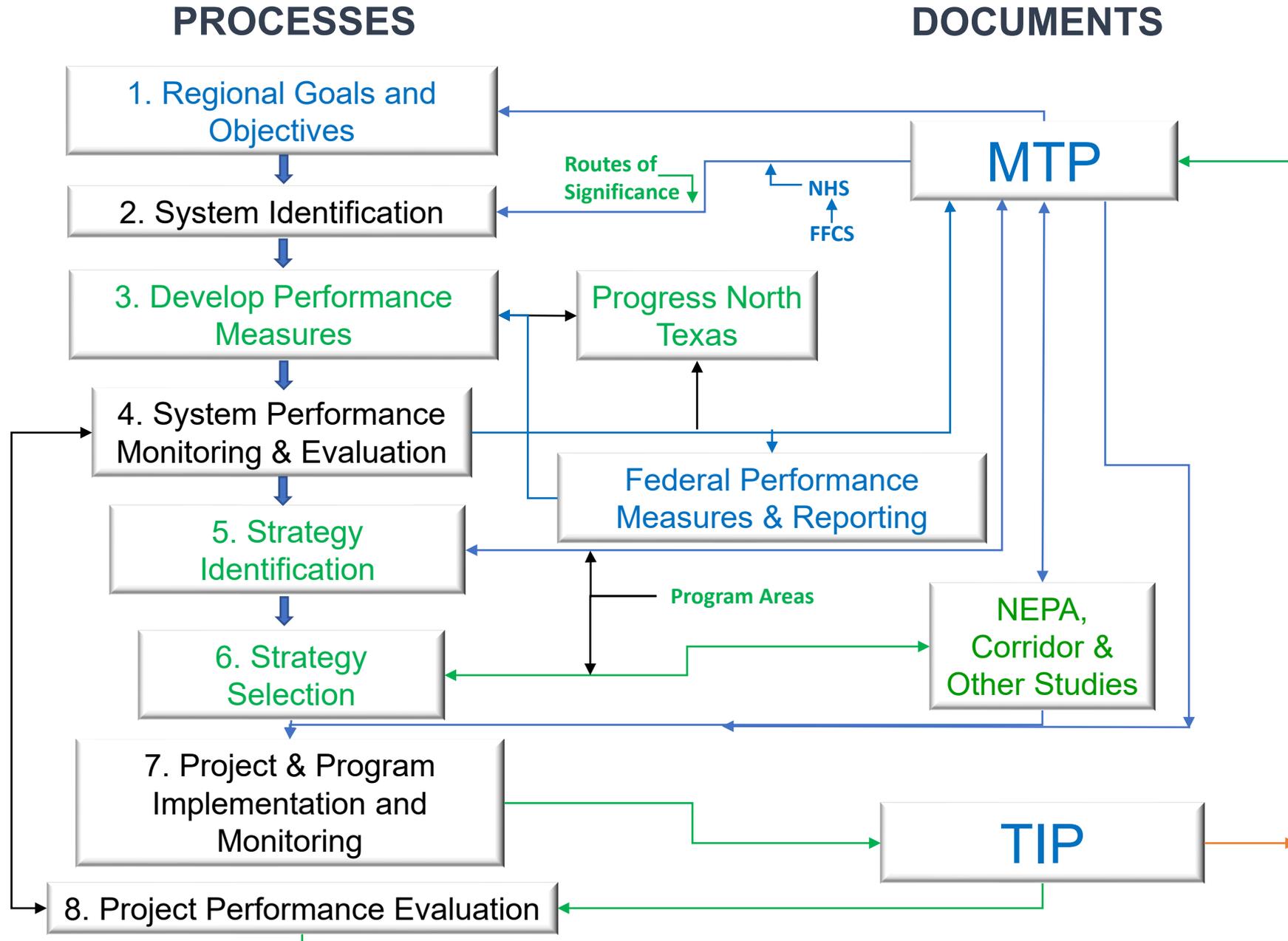
Congestion Management Strategies *should* include:

- Demand management strategies
- Traffic operational improvements
- Public transportation improvements;
- ITS technologies; and
- "Where necessary, additional system capacity"

**For nonattainment areas**, projects adding Single Occupant Vehicle (SOV) capacity *must* be evaluated and comply with the CMP by integrating congestion management strategies.

The CMP *shall* be developed, established, and implemented as part of the Metropolitan Transportation Planning Process.

# CMP Processes and Related Documents



# Regional Goals and Objectives

## Mobility

Increase available options, reduce congestion, increase efficiency, provide access

## Quality of Life

Preserve environment, improve air quality, promote active lifestyles, livable communities

## System Sustainability

Encourage and enhance maintenance, increase **safety** and reliability, invest long-term in existing system

## Implementation

Timely project planning; cost-effective solutions for construction, operations, and maintenance; leverage existing assets

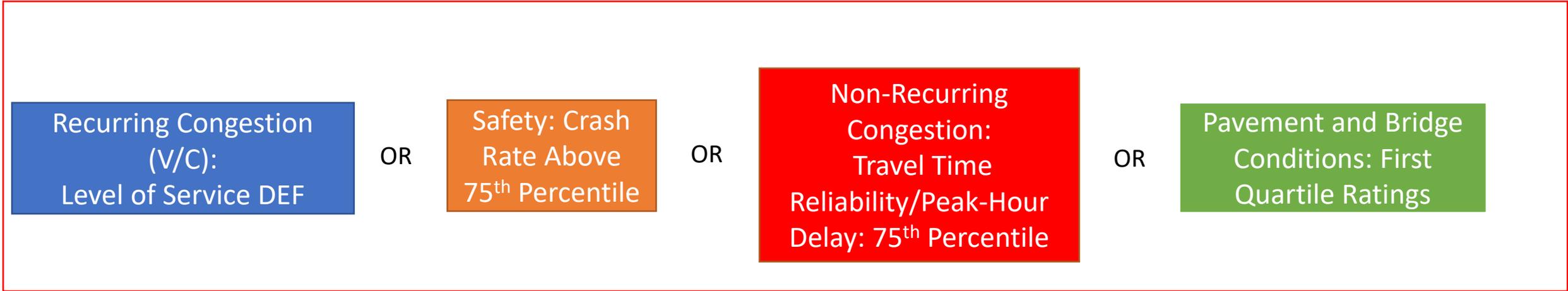


# Corridor Performance Criteria

Construction  
Programmed in TIP?



If so, hold for  
evaluation after  
completion.



*Corridor Asset  
Inventory*

# Corridor Asset Inventory

## Critical Corridors

*Meets Initial Criteria*



Fact Sheet/  
Database Entry



Determine  
CMP Strategies



Asset Availability Data		
Infrastructure	Alternative Modes	Operational Assets
Parallel Arterials	Sidewalks	NHS
Managed Lane ROW	<b>Veloweb/ Multi-Use Paths</b>	Managed/HOV/ Express Lanes
Frontage Roads	Light Rail	ITS
Parallel Freeways	Dedicated Bus Lanes	Routes of Significance
Shoulders	Commuter Rail	<b>Hazmat Routes</b>
At-Grade Intersections	Bus Routes	Truck Lane Restrictions
At-Grade R/R Crossings	<b>Safe Routes to School</b>	Signalized Intersections
<b>Grade Separations (Arterials)</b>	Demand Response Coverage (GP)	Regional Freight Routes
Park-and-Ride Facilities		<b>TIM Attendance &amp; Coverage</b>



## Performing Corridors

*Does Not Meet Criteria/  
Construction programmed*



Fact Sheet/  
Database Entry



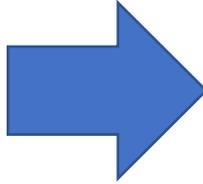
*Continue to Monitor  
Performance*

# Strategy Identification

<i>Critical Factors</i>	Recurring Congestion	Non-Recurring Congestion/Reliability	Safety	Pavement and Bridge Conditions
<b>One Factor</b>	Alternative Modes; Demand Management	Operational Improvements	Safety-Related Projects	Rehabilitation/ Asset Management Planning
<b>Two Factors</b>	Asset Optimization (maximize available capacity + no added Right-of-Way) or M&O			
		Operational Strategies	Safety Strategies	Pavement Rehabilitation
<b>Three Factors</b>	Possible Reconstruction (4R)			
	<i>Added Capacity and ROW as Necessary w/ Complimentary Alternative Modes</i>	Major Operations Studies and Commitments	Major Safety Studies and Commitments	<i>Complete Pavement/Bridge Replacement</i>
<b>Four Factors</b>	Possible Major Corridor Reinvestment (5R)			
	<i>Major Capital Investments in Transit, Active, and Highway Infrastructure in Corridor</i>	<i>Multimodal Operational Studies and Investments</i>	<i>Comprehensive Corridor Safety Action Plan</i>	<i>Long Life Pavement and Bridge Design</i>

# Strategy Selection

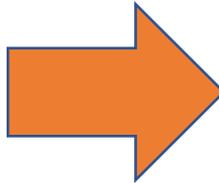
Corridor Need Improvements in Recurring Congestion



## Examples Strategies

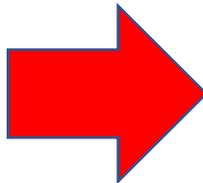
Promote and encourage usage of parallel roadways
Promote and encourage usage of available transit services
Promote and encourage usage of trip reduction programs

Corridor Need Improvements in Safety



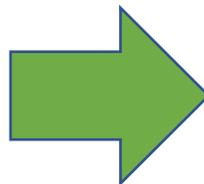
Bottleneck removal
Emergency vehicle routing
Mobility assistance patrols
Reduction in merging and weaving
Work zone management

Corridor Need Improvements in System Reliability



Increase deployment of Intelligent Transportation Systems	
Dynamic route guidance	Speed monitoring
Network surveillance (CCTV)	511
Promote Freeway Incident Management Training	
Improve incident response and clearance times	
Shoulder Utilization Program	

Corridors Need Improvements in Pavement and Bridge Conditions



Pavement and Bridge Rehabilitation
Replacement of Pavement and Bridges

# Example Project Performance Measures

- Before/After Speeds
- Before/After Volumes
- **Before/After Crash Rate**
- Transit Ridership/Mode Split
- Changes in Asset Inventory
- Changes in Asset Condition
- Changes in Criteria Performance Measures, Peak Hour LOS, Crash Rate, Travel Time Reliability

# Schedule

April 2020	30-Day Public Comment Period and Public Meeting
April 24, 2020	STTC Info
May 14, 2020	RTC Info
September 25, 2020	STTC Workshop – Scoring, Ranking, Strategies and Implementation
September 2020	30-Day Public Comment Period and Public Meeting
October 23, 2020	STTC Info
November 12, 2020	RTC Info
December 4, 2020	STTC Action
December 10, 2020	RTC Action

# Questions?

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