

CMP Toolbox

The CMP Toolbox includes Strategies/Projects, Congestion and Mobility Benefits, and Costs and Impacts. The toolbox is divided into the eight categories, as listed below.

- 🔑 Highway Strategies
- 🔑 Transit Strategies
- 🔑 Bicycle and Pedestrian Strategies
- 🔑 Travel Demand Management Strategies
- 🔑 Intelligent Transportation Systems and Transportation Supply Management Strategies
- 🔑 Access Management Strategies
- 🔑 Land Use Strategies
- 🔑 Parking Strategies
- 🔑 Regulatory Strategies

CMP Toolbox – Highway Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>1a. Increasing Number of Lanes without Highway Widening</p> <p>Takes advantage of excess width in the highway cross section used for break-down lanes or median</p>	<ul style="list-style-type: none"> • Increase capacity 	<ul style="list-style-type: none"> • Construction and engineering • Maintenance
<p>1b. Geometric Design Improvements</p> <p>Includes widening to provide shoulders, additional turn lanes at intersections, improved sign lines, and auxiliary lanes to improve merging and diverging</p>	<ul style="list-style-type: none"> • Increase mobility • Decrease congestion by improving bottlenecks • Increase traffic flow and improve safety 	<ul style="list-style-type: none"> • Costs vary by type of design
<p>1c. High Occupancy Vehicle (HOV) Lanes</p> <p>Increases corridor capacity while at the same time provides an incentive for single-occupied drivers to shift to rideshares</p> <p>Most effective as part of a comprehensive effort to encourage HOVs, including publicity, outreach, park-and-ride lots, and rideshare matching services</p>	<ul style="list-style-type: none"> • Decrease congestion by reducing VMT • Increase vehicle occupancy • Decrease regional trips • Improve travel times • Increase transit use and improve bus travel times 	<ul style="list-style-type: none"> • HOV, separate ROW costs • HOV, barrier separated costs • HOV, contra flow costs • Annual operations and enforcement • Can create environmental and community impacts
<p>1d. Super Street Arterials</p> <p>Involves converting existing major arterials with existing major arterials with signalized intersections into "super streets" that feature grade-separated intersections</p>	<ul style="list-style-type: none"> • Increase capacity • Improve mobility 	<ul style="list-style-type: none"> • Construction and engineering substantial for grade separation • Maintenance varies based on area
<p>1e. Highway Widening by Adding Lanes</p> <p>Adds new highway lanes; traditional way to deal with congestion</p>	<ul style="list-style-type: none"> • Increase capacity • Improve mobility 	<ul style="list-style-type: none"> • Costs vary by type of highway constructed • Can create environmental and community impacts

CMP Toolbox – Transit Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>2a. Reducing Transit Fares Encourages additional transit use</p>	<ul style="list-style-type: none"> • Decrease daily VMT • Decrease congestion • Increase ridership 	<ul style="list-style-type: none"> • Loss in revenue per rider • Capital costs per passenger trip • Operating costs per passenger trip • Operating subsidies needed to replace lost fare revenue • Alternative financial arrangements need to be negotiated with donor agencies
<p>2b. Increasing Employer Incentive Programs Encourages additional transit use</p>	<ul style="list-style-type: none"> • Increase transit ridership • Decrease travel time • Decrease daily VMT 	<ul style="list-style-type: none"> • Cost of incentives to employers to offer employee benefits for transit use.
<p>2c. Increasing Bus Route Coverage or frequencies Provides better transit accessibility to a greater share of the population Increased frequency makes transit more attractive to use</p>	<ul style="list-style-type: none"> • Increase transit ridership • Decrease travel time • Decrease daily VMT 	<ul style="list-style-type: none"> • Capital costs per passenger trip • Operating costs per trip • New bus purchases likely
<p>2d. Implementing Park-and-Ride Lots Encourages HOV use for longer distance commute trips</p>	<ul style="list-style-type: none"> • Decrease congestion by increasing vehicle occupancy rate • Increase mobility and transit efficiency 	<ul style="list-style-type: none"> • Structure costs for transit stations
<p>2e. Implementing Rail Transit Serves dense urban centers where travelers can walk to their destinations Can be enhanced from suburban areas by providing park-and-ride lots</p>	<ul style="list-style-type: none"> • Decrease daily VMT 	<ul style="list-style-type: none"> • Capital costs per passenger • New systems require large up-front capital outlays and ongoing sources of operating subsidies, in addition to funds that may be obtained from federal sources, under increasingly tight competition
<p>2f. Vehicle Replacement/Upgrade Furthers the benefits of increased transit use</p>	<ul style="list-style-type: none"> • Decrease daily VMT • Decrease congestion • Increase ridership 	<ul style="list-style-type: none"> • Capital costs • Addition of clean fuel bus fleets may be incorporated as part of regular vehicle replacement programs

CMP Toolbox – Transit Strategies (cont'd)

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>2g. Intelligent Bus Stops</p> <p>Ranges from kiosks, which show the static bus schedule to real-time information, indicating the location of buses, and the arrival time of the next bus</p>	<ul style="list-style-type: none"> • Decrease daily VMT • Decrease congestion • Increase ridership 	<ul style="list-style-type: none"> • Capital costs per passenger
<p>2h. Personalized Rapid Transit</p> <p>Includes fully automated vehicles capable of operation without human drivers over a reserved guideway</p> <p>Vehicles are available on-demand, direct origin to destination service for an individual or a small group - typically 1 to 6 passengers</p>	<ul style="list-style-type: none"> • Decrease daily VMT • Decrease congestion 	<ul style="list-style-type: none"> • Capital costs • New systems require large up-front capital outlays and ongoing sources of operating subsidies, in addition to funds that may be obtained from federal sources, under increasingly tight competition

CMP Toolbox – Pedestrian and Bicycle Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>3a. New Sidewalks and Designated Bicycle Lanes on Local Streets</p> <p>Enhances the visibility of bicycle and pedestrian facilities increases the perception of safety</p>	<ul style="list-style-type: none"> • Increase mobility and access • Increase non-motorized mode shares • Separate slow-moving bicycles from motorized vehicles • Decrease incidents 	<ul style="list-style-type: none"> • Design and construction costs for paving, striping, signals, and signing • ROW costs if widening needed • Bicycle lanes may require improvements to roadway shoulders to ensure acceptable pavement quality
<p>3b. Improved Bicycle Facilities at Transit Stations and Other Trip Destinations</p> <p>Increases safety with the addition of bicycle racks and bike lockers at transit stations and other trip destinations Additional amenities such as locker rooms with showers at workplaces provide further incentives for using bicycles</p>	<ul style="list-style-type: none"> • Increase bicycle mode share • Decrease motorized vehicle congestion on access routes 	<ul style="list-style-type: none"> • Capital and maintenance costs for bicycle racks and lockers, locker rooms
<p>3c. Design Guidelines for Pedestrian-Oriented Development</p> <p>Encourages pedestrian activity through the use of design guidelines (i.e. maximum block lengths, building setback restrictions, and streetscape enhancements</p>	<ul style="list-style-type: none"> • Increase pedestrian mode share • Discourage motor vehicle use for short trips • Decrease VMT • Decrease emissions 	<ul style="list-style-type: none"> • Capital costs largely borne by private sector; developer incentives may be needed • Public sector may be responsible for some capital and/or maintenance costs associated with right-of-way improvements • Ordinance development and enforcement costs
<p>3d. Improved Safety of Existing Bicycle and Pedestrian Facilities</p> <p>Increases safety by maintaining lighting, signage, striping, traffic control devices, pavement quality; installing curb cuts and extensions, median refuges, and raised crosswalks</p>	<ul style="list-style-type: none"> • Increase non-motorized mode share • Decrease incidents • Increase monitoring and maintenance costs 	<ul style="list-style-type: none"> • Capital costs of sidewalk improvements and additional traffic control devices
<p>3e. Exclusive Non-Motorized Rights-of-Way</p> <p>Use abandoned rail rights-of-way and existing parkland for medium- to long-distance bike trails, improving safety and reducing travel times</p>	<ul style="list-style-type: none"> • Increase mobility • Increase non-motorized modes • Decrease congestion on nearby roads • Separate slow-moving bicycles from motorized vehicles • Decrease incidents 	<ul style="list-style-type: none"> • Right of way costs • Construction and engineering costs • Maintenance costs

CMP Toolbox – Transportation Demand Management Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>4a. Alternative Work Hours</p> <p>Allows workers to arrive and leave work outside of the traditional commute period. It can be on a scheduled basis or a true flex-time arrangement</p>	<ul style="list-style-type: none"> • Decrease peak-period VMT • Improve travel time among participants 	<ul style="list-style-type: none"> • No capital costs • Agency costs for outreach and publicity • Employer costs associated with accommodating alternative work schedules
<p>4b. Telecommuting</p> <p>Allows employees to work at home or in a regional telecommute center instead of going into the office. They might do this all the time, or only one or more days per week</p>	<ul style="list-style-type: none"> • Decrease VMT • Decrease SOV trips 	<ul style="list-style-type: none"> • First-year implementation costs for private-sector (per employee for equipment) • Second-year costs tend to decline
<p>4c. Pricing</p> <p>Involves pricing facilities to encourage off-peak or HOV travel, and includes time-variable road, and cordon (area) tolls, high occupancy/ toll (HOT) lanes and vehicle-use fees</p>	<ul style="list-style-type: none"> • Decrease peak period VMT • Decrease SOV trips 	<ul style="list-style-type: none"> • First-year implementation costs for public -sector
<p>4d. Ridesharing</p> <p>Typically arranged/encouraged through employers or transportation management agencies (TMA), which provide ride-matching services</p>	<ul style="list-style-type: none"> • Decrease work VMT • Decrease SOV trips 	<ul style="list-style-type: none"> • Savings per carpool and vanpool riders • Costs per year per free parking space provided • Administrative costs
<p>4e. Emergency Ride Home Programs</p> <p>Provides a guaranteed ride home at no cost to the employee in the event an employee or a member of their immediate family becomes ill or injured, requiring the employee to leave work</p>	<ul style="list-style-type: none"> • Decrease work VMT • Decrease SOV trips 	<ul style="list-style-type: none"> • Requires administrative support from employers • Potential to be costly

CMP Toolbox – Transportation Demand Management Strategies (cont'd)

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>4f. Vanpool Sponsorship Program</p> <p>Enhancing the appeal of vanpooling, the Vanpool Sponsorship Program offers financial incentives for vanpooling in areas where public transportation is not readily available or feasible.</p>	<ul style="list-style-type: none"> • Decrease work VMT • Decrease SOV trips 	<ul style="list-style-type: none"> • No capital costs • Agency costs for outreach and publicity
<p>4g. Employer Trip Reduction (ETR) Plans</p> <p>ETR plans may demonstrate how employers would decrease their employee contribution to single-occupancy vehicle use during peak-commuting periods</p> <p>Programs may include employee ridesharing, transit subsidies of mass transit fares, and telecommuting</p>	<ul style="list-style-type: none"> • Decrease work VMT • Decrease SOV trips 	<ul style="list-style-type: none"> • Although not mandated by the CAAA, employers with over 100 employees at any single worksite, in areas of severe or extreme non-attainment with the CAAA, file plans for each site with state agencies • Agency costs for preparation of ETR
<p>5k. Collaborative Technologies</p> <p>Includes communication, conferencing, and collaborative management tools</p> <p>Communication – e-mail, instant messaging, and VoIP. Conferencing – webinars, web conferencing, and HD video conferencing</p> <p>Collaborative – shared electronic calendars, project management, knowledge management systems, prediction markets, and desktop sharing services such as concurrent versions system (CVS)</p> <p>Encourages telecommuting</p> <p>Provides novel methods for social interaction and entertainment opportunities that can significantly alter activity-travel behaviors</p>	<ul style="list-style-type: none"> • Decrease work VMT • Decrease SOV trips 	<ul style="list-style-type: none"> • Requires administrative support from employers • Potential to be costly

CMP Toolbox – Intelligent Transportation Systems and Transportation System Management Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>5a. Traffic Signal Coordination</p> <p>Improves traffic flow and reduces emissions by minimizing stops on arterial streets.</p>	<ul style="list-style-type: none"> • Improve travel time • Decrease the number of stops • Decrease VMT, VHD and PHT by vehicle miles per day, depending on program 	<ul style="list-style-type: none"> • O&M costs per signal • Signalized intersections per mile costs variable
<p>5b. Targeted and Sustained Enforcement of Traffic Regulations</p> <p>Improves traffic flow by reducing violations that cause delays.</p>	<ul style="list-style-type: none"> • Improve travel time • Decrease the number of stops 	<ul style="list-style-type: none"> • Increased labor costs per officer
<p>5c. Reversible Traffic Lanes</p> <p>Appropriate where traffic flow is highly directional</p>	<ul style="list-style-type: none"> • Increase peak direction capacity • Decrease peak travel times • Improve mobility 	<ul style="list-style-type: none"> • Barrier separated costs per mile • Operation costs per mile • Maintenance costs variable
<p>5d. Freeway Incident Detection and Management Systems</p> <p>Alleviates non-recurring congestion Typically include video monitoring and dispatch systems</p>	<ul style="list-style-type: none"> • Decrease accident delay • Decrease travel time • Decrease VHT and PHT 	<ul style="list-style-type: none"> • Capital costs variable and substantial • Annual operating and maintenance costs
<p>5e. Ramp Metering</p> <p>Allows freeways to operate at their optimal flow rates, thereby speeding travel and reducing collisions</p>	<ul style="list-style-type: none"> • Decrease travel time • Decrease accidents • Improve traffic flow on major facilities 	<ul style="list-style-type: none"> • O&M costs • High costs associated with enhancements to centralized control system • Capital costs
<p>5f. Highway Information Systems</p> <p>Provides travelers with real-time information that can be used to make trip and route choice decisions</p>	<ul style="list-style-type: none"> • Decrease travel times and delay • Some peak-period travel shift 	<ul style="list-style-type: none"> • Design and implementation costs variable • Operating and maintenance costs variable
<p>5g. Advanced Traveler Information Systems</p> <p>Provides an extensive amount of data to travelers, such as real time speed estimates on the web or over wireless devices</p>	<ul style="list-style-type: none"> • Decrease travel times and delay • Some peak-period travel and mode shift 	<ul style="list-style-type: none"> • Design and implementation costs variable • Operating and maintenance costs variable

CMP Toolbox – Intelligent Transportation Systems and Transportation System Management Strategies (cont'd)

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>5h. Traffic Surveillance and Control Systems</p> <p>Monitors volume and flow of traffic by a system of sensors, and further analyzes traffic conditions to flag developing problems, and implement adjustments to traffic signal timing sequences, in order to optimize traffic flow estimating traffic parameters in real-time</p> <p>Currently, the dominant technology traffic surveillance is that of magnetic loop detectors, which are buried underneath roadways and count automobiles passing over them</p> <p>Video monitoring systems for traffic surveillance may provide vehicle classifications, travel times, lane changes, rapid accelerations or decelerations, and length queues at urban intersections, in addition to vehicle counts and speeds</p>	<ul style="list-style-type: none"> • Decrease travel times and delay • Some peak-period travel and mode shift 	<ul style="list-style-type: none"> • Design and implementation costs variable • Installation of video surveillance cameras may be less expensive than magnetic loop detectors, which require disruption and digging of the road surface
<p>5i. Elimination of Bottlenecks</p> <p>Involves widening of selected highway segments to alleviate bottlenecks, which frequently occur at intersections, bridge crossings with narrow lanes, and entrance ramps with high traffic volumes</p>	<ul style="list-style-type: none"> • Decrease travel time • Decrease accidents • Improve traffic flow on major facilities 	<ul style="list-style-type: none"> • Design and implementation costs variable • Operating and maintenance costs variable
<p>5j. Geographic Positioning Systems and Personal Travel Assistants</p> <p>Provides accurate location coordinates, and is expected to include miniaturization; increased accuracy; and supplementary location technologies to cover GPS-denied areas (inside buildings, or downtown streets) in the future</p>	<ul style="list-style-type: none"> • Decrease travel time • Decrease accidents • Improve traffic flow on major facilities 	<ul style="list-style-type: none"> • Considerably high, but expected to decrease
<p>5k. Smart Cards and RFID</p> <p>Provides contact-less technology for entering transit system</p>	<ul style="list-style-type: none"> • Decrease travel time • Decrease accidents • Improve traffic flow on major facilities 	<ul style="list-style-type: none"> • Considerably high, but expected to decrease

CMP Toolbox – Access Management Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>6a. Left Turn Restrictions; Curb Cut and Driveway Restrictions</p> <p>Limits turning vehicles, which can impede traffic flow and are more likely to be involved in crashes</p>	<ul style="list-style-type: none"> • Increase capacity, efficiency on arterials • Improve mobility on facility • Improve travel times and decrease delay for through traffic • Decrease incidents 	<ul style="list-style-type: none"> • Implementation and maintenance costs vary; range from new signage and striping to more costly permanent median barriers and curbs
<p>6b. Turn Lanes and New or Relocated Driveways and Exit Ramps</p> <p>In some situations, increasing or modifying access to a property can be more beneficial than reducing access</p>	<ul style="list-style-type: none"> • Increase capacity, efficiency • Improve mobility and safety on facility • Improve travel times and decreased delay for all traffic 	<ul style="list-style-type: none"> • Additional right-of way costs • Design, construction, and maintenance costs
<p>6c. Interchange Modifications</p> <p>Decreases weaving sections on a freeway</p>	<ul style="list-style-type: none"> • Increase capacity, efficiency • Improve mobility on facility • Improve travel times and decreased delay for through traffic • Decrease incidents due to fewer conflict points 	<ul style="list-style-type: none"> • Design and construction costs
<p>6d. Minimum Intersection/Interchange Spacing</p> <p>Decreases number of conflict points and merging areas, which in turn decreases incidents and delays</p>	<ul style="list-style-type: none"> • Increase capacity, efficiency • Improve mobility on facility • Improve travel times and decrease delay for through traffic • Decrease incidents 	<ul style="list-style-type: none"> • Part of design costs for new facilities and reconstruction projects

CMP Toolbox – Access Management Strategies (cont'd)

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>6e. Frontage Roads and Collector-Distributor Roads</p> <p>Directs local traffic to major intersections on both super arterials and freeways (frontage roads) Separate exiting, merging, and weaving traffic from through traffic at closely-spaced interchanges (collector-distributor)</p>	<ul style="list-style-type: none"> • Increase capacity, efficiency • Improve mobility on facility • Improve travel times and decreased delay for through traffic • Decrease incidents due to fewer conflict points 	<ul style="list-style-type: none"> • Additional right-of way costs • Design, construction, and maintenance costs
<p>6f. Roadway Restrictions</p> <p>Closes access during rush hours (AM and PM peak hours) and aids in the increase of safety levels through the prevention of accidents at problem intersections</p> <p>This measure may be effective along mainline segments of a highway, which operate at poor service levels</p>	<ul style="list-style-type: none"> • Increase capacity, efficiency on arterials • Improve mobility on facility • Improve travel times and decrease delay for through traffic • Decrease incidents 	<ul style="list-style-type: none"> • Implementation and maintenance costs vary
<p>6g. Access Control to Available Development Sites</p> <p>Coordination of access points to available development sites allows for less interference in traffic flow during construction and/or operation of new developments</p>	<ul style="list-style-type: none"> • Increase capacity, efficiency on arterials • Improve mobility on facility • Improve travel times and decrease delay for through traffic • Decrease incidents 	<ul style="list-style-type: none"> • Implementation and maintenance costs vary

CMP Toolbox – Land Use Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>7a. Mixed-Use Development</p> <p>Allows many trips to be made without automobiles People can walk to restaurants and services rather than use their vehicles</p>	<ul style="list-style-type: none"> • Increase walk trips • Decrease SOV trips • Decrease in VMT • Decrease vehicle hours of travel 	<ul style="list-style-type: none"> • Public costs to set up and monitor appropriate ordinances • Economic incentives used to encourage developer buy-in
<p>7b. Infill and Densification</p> <p>Takes advantage of infrastructure that already exists, rather than building new infrastructure on the fringes of the urban area</p>	<ul style="list-style-type: none"> • Decrease SOV • Increase transit, walk, and bicycle • Doubling density decreases VMT per household • Medium/high vehicle trip reductions 	<ul style="list-style-type: none"> • Public costs to set up and monitor appropriate ordinances • Economic incentives used to encourage developer buy-in
<p>7c. Transit-Oriented Development</p> <p>Clusters housing units and/or businesses near transit stations in walkable communities</p>	<ul style="list-style-type: none"> • Decrease SOV share • Shift carpool to transit • Increase transit trips • Decrease VMT • Decrease in vehicle trips 	<ul style="list-style-type: none"> • Public costs to set up and monitor appropriate ordinances • Economic incentives used to encourage developer buy-in

CMP Toolbox – Parking Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>8a. On-Street Parking and Standing Restrictions</p> <p>Enforcement of existing regulations can substantially improve traffic flow in urban areas Peak-period parking prohibitions can free up extra general purpose travel lanes or special bus or HOV "diamond" lanes</p>	<ul style="list-style-type: none"> • Increase peak-period capacity • Decrease travel time and congestion on arterials • Increase HOV and bus mode shares 	<ul style="list-style-type: none"> • Design, construction, and maintenance costs for signage and striping • Rigid enforcement of parking restrictions
<p>8b. Employer/Landlord Parking Agreements</p> <p>Employers can negotiate leases so that they pay only for the number of spaces used by employees</p>	<ul style="list-style-type: none"> • Decrease work VMT • Increase non-auto mode shares 	<ul style="list-style-type: none"> • Economic incentives used to encourage employer and landlord buy-in
<p>8c. Preferential or Free Parking for HOVs</p> <p>Provides an incentive for workers to carpool</p>	<ul style="list-style-type: none"> • Decrease work VMT • Increase vehicle occupancy 	<ul style="list-style-type: none"> • Relatively low costs, primarily for the private sector, include signing, striping, and administrative costs
<p>8d. Location-Specific Parking Ordinances</p> <p>Encourages transit oriented and mixed-use development Parking requirements can be adjusted for factors such as availability of transit, a mix of land uses, or pedestrian-oriented development that may reduce the need for on-site parking</p>	<ul style="list-style-type: none"> • Decrease VMT • Increase transit and nonmotorized mode shares 	<ul style="list-style-type: none"> • Economic incentives used to encourage developer buy-in
<p>8e. Park and Ride Lots</p> <p>Park-and-Ride lots provide parking in areas that are convenient to other modes of transportation, and are commonly located adjacent to train stations, bus lines, or HOV lane facilities</p>	<ul style="list-style-type: none"> • Increase transit use and ridesharing • Decrease VMT 	<ul style="list-style-type: none"> • Land acquisition, construction and maintenance are necessary for park-and-ride lots.

CMP Toolbox – Regulatory Strategies

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>8a. Trip Reduction Ordinance</p> <p>Draws commuters to use other ways to travel to work besides driving alone</p>	<ul style="list-style-type: none"> • Improve air quality • Decrease traffic congestion • Minimize energy consumption 	<ul style="list-style-type: none"> • Requires employers to promote commute alternatives
<p>9b. Congestion Pricing</p> <p>Controls peak-period use of transportation facilities by charging more for peak-period use than for off-peak</p>	<ul style="list-style-type: none"> • Decrease VMT • Increase transit and nonmotorized mode shares 	<ul style="list-style-type: none"> • Implementation and maintenance costs vary
<p>9c. Auto Restriction Zones (Pedestrian Malls)</p> <p>Allows for a more equitable community, where all residents have an equal access to services within the area</p> <p>Provides commercial access for pedestrians and non-car users</p> <p>The most common form of an auto-restriction zone (pedestrian zones) in large cities is the pedestrian mall. Pedestrian malls generally consist of a storefront-lined street that is closed off to most automobile traffic. Emergency vehicles would have access at all times, while delivery vehicles may be restricted to limited delivery hours or entrances on adjacent back streets.</p>	<ul style="list-style-type: none"> • Increase capacity • Decrease travel times • Increase safety • Improve bicycle and pedestrian-friendly roadways 	<ul style="list-style-type: none"> • Design, construction, and maintenance costs
<p>9d. Truck Restrictions</p> <p>Aims to separate trucks from passenger vehicles and pedestrians</p> <p>Prohibits trucks from traveling on certain roadways, and may call for weight restrictions on certain bridges</p>	<ul style="list-style-type: none"> • Increase capacity • Decrease travel times • Increase safety • Improve bicycle and pedestrian-friendly roadways 	<ul style="list-style-type: none"> • Implementation and maintenance costs vary

CMP Toolbox – Regulatory Strategies (cont'd)

Strategies/Projects	Congestion and Mobility Benefits	Costs and Impacts
<p>9e. Arterial Access Management</p> <p>Involves the application of local and state planning, and regulatory tools in efforts to preserve and/or enhance the transportation functions of roadways</p> <p>Includes land use ordinances and techniques, corridor preservation, transportation improvements, and techniques in finance</p>	<ul style="list-style-type: none"> • Increase capacity • Decrease travel times • Increase safety • Improve bicycle and pedestrian-friendly roadways 	<ul style="list-style-type: none"> • Requires government legislation • Implementation and maintenance costs vary