

Event Management Strategies

			ICM High-Level Benefits								
10	M Functional Area / Tactic	ICM Category	Safety / Response	Mobility / Accessibility	Demand Reduction / Shift	Travel choice / Decision Making	Return on / Use of Existing Investment	Efficiency / Productivity	Institutional Cooperation	Environmental Impact	Customer Experience / DOT Perception
Event Management		F	1	1	1						
	Traffic Incident Management	Fundamental	٠	٠	•	•	•	٠	٠	•	•
Planned Special Event Management		Fundamental	•	•	•	•	•	٠	٠	•	•
	Work Zone Management	Fundamental	•	•	•	•	•	٠	٠	•	•
	Weather Responsive Traffic Management	Fundamental	•	•	•	•	•	•	٠	•	•
Freight Operations and Management		Fundamental	•	•	•	•	•	•	٠	•	•

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Traffic Incident Management

	Traffic Incident Management (TIM)		
Description	Planned and coordinated multi-disciplinary process to detect, respond to, and clear traffic incidents so that traffic flow may be restored as safely and quickly as possible. This coordinated process involves several public and private sector partners, including law enforcement, fire and rescue, emergency medical services, transportation, public safety communications, emergency management, towing and recovery, hazardous materials contractors, and traffic information media. Benefits of traffic incident management include congestion reduction, economic savings, fuel savings, increased incident clearance times, secondary crash reduction, increased responder safety, and reduced morbidity rates. This strategy builds upon strategies already employed by the Iowa DOT and their partner agencies, where appropriate, such as:		
	 Corridor/regional specific TIM plans Reoccurring, multi-agency TIM training Regularly scheduled TIM coordination meetings After action reviews Highway Helper Freeway Service Patrol 		
	 Additional strategies that could potentially be investigated dependent on needs include: Towing and recovery call lists – These lists are prepared, distributed and readily available to use when traffic incidents occur. Their use help to improve emergency response times, reducing overall incident duration and impact on traffic flow. Towing incentives - Towing incentives are effectively bonuses that towing and wreckers can obtain by quickly removing incidents from travel lanes. The incentive amount varies based on how quickly the agency responds to and/or removes vehicles from the roadway. These incentives help improve incident clearance times. Pre-staged ITS and TIM equipment – This strategy consists of deploying equipment at locations near trouble spots or where incidents may occur (e.g., work zones) so that emergency responders can use or deploy them more quickly than if they were stored at a centralized location. Mile reference markers - This strategy consists of deploying mile post markers at frequent intervals (one tenth or two tenths mile) along the freeway so that drivers and/or motorists can quickly and accurately report the location of incidents. This reduces response time in that emergency responders can travel directly to the location rather than traveling more slowing or requesting assistance to find it. 		
ICM Category	Fundamental strategy		
Anticipated	 Improved safety and emergency response 		
Benefits	 Improved accessibility and mobility 		



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	Reduced or shifted demand		
	Enhanced traveler choice and decision making		
	Increased return on and use of existing investment		
	Improved transportation efficiency and productivity		
	Improved institutional cooperation		
	Reduced environmental impact		
	 Improved customer experience and perception 		
Provided	TMC incident detection		
Functionality	 TMC incident dispatch coordination 		
	 Emergency response management 		
Prerequisite	Network surveillance		
Functionality	Traffic information dissemination		
Required			
Complementary	 Connected and automated vehicles 		
and/or Supported	Smart cities		
Strategies	Work zone management		
	Predictive traveler information		
Examples	 Iowa Traffic Incident Management Service Layer Plan 		
	 Kansas Traffic Incident Management Program 		
	 Wisconsin Traffic Incident Management Enhancement Program 		
	Metro Atlanta TIME Task Force		



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	Planned Special Event Management		
Description	Planned special events (PSEs) include sporting events, concerts, festivals, and		
	conventions occurring at permanent multi-use venues. They also include less		
	frequent public events such as parades, fireworks displays, bicycle races,		
	sporting games, motorcycle rallies, seasonal festivals, and milestone		
	celebrations at temporary venues. Managing travel for planned special events		
	involves advanced operations planning, stakeholder coordination and		
	partnerships, developing a multi-agency transportation management plan,		
	raising awareness of public and event patrons of potential travel impacts, and		
	coordinating agency services and resource sharing. Operational phases of		
	planned special event management include Program Planning, Event		
	Operations Planning, Implementation Activities, Day of Event Activities, and		
ICM Category	Post-Event Activities.		
Anticipated	 Improved safety and emergency response 		
Benefits	 Improved safety and emergency response Improved accessibility and mobility 		
Denento	Reduced or shifted demand		
	 Enhanced traveler choice and decision making 		
	 Increased return on and use of existing investment 		
	 Improved transportation efficiency and productivity 		
	 Improved institutional cooperation 		
	Reduced environmental impact		
	 Improved customer experience and perception 		
Provided	Event coordination and management		
Functionality			
Prerequisite	Network surveillance		
Functionality	 Traffic Information Dissemination (pre-trip and en-route) 		
Required			
Complementary	Ramp closure		
and/or Supported	Ramp metering		
Strategies	Adaptive ramp metering		
	Network surveillance		
	Traffic information dissemination		
	Traffic incident management		
	Traffic signal improvements		
	Park and ride lots		
	Carpooling / vanpooling		
	Transportation management associations		
	Transit lanes		
	Transit incentives		
_	Connected and automated vehicles		
Examples	G-20 Summit (Pittsburgh, PA)		
	 2008 Democratic National Convention (Denver, CO) 		



Work Zone Management

	Work Zone Management		
Description	This strategy involves minimizing traffic delays, maintaining motorist and		
	worker safety, completing roadwork in a timely manner, and maintaining access		
	for businesses and residents. Different methods of work zone management		
	include coordinating road projects, incident management, lane closure politics,		
	traffic control, use of ITS, and work zone speed management.		
ICM Category	Fundamental strategy		
Anticipated	 Improved safety and emergency response 		
Benefits	 Improved accessibility and mobility 		
	Reduced or shifted demand		
	 Enhanced traveler choice and decision making 		
	 Increased return on and use of existing investment 		
	 Improved transportation efficiency and productivity 		
	 Improved institutional cooperation 		
	Reduced environmental impact		
	 Improved customer experience and perception 		
Provided	Work zone management		
Functionality	Work zone traffic control		
Prerequisite Depending on the specific application, could include:			
Functionality	 Network Surveillance (portable and fixed location) 		
Required	 Traffic information dissemination (Portable and fixed location) 		
	Variable speed limits		
	Dynamic routing		
	Dynamic truck restrictions		
	Queue warning		
	Flexible work hours		
	Carpooling/vanpooling		
Complementary	Traffic incident management		
and/or Supported	Active traffic management		
Strategies	Ramp closure		
	Ramp metering		
Examples	Widely implemented, including:		
	 I-75 Ambassador Bridge Gateway Project (Michigan DOT) 		
	I-85 widening (North Carolina DOT)		
	 I-279 Fort Pitt Bridge and Tunnel (Pennsylvania DOT) 		
	 I-94/894 (Zoo Interchange) Reconstruction (Wisconsin DOT) 		



Weather Responsive Traffic Management

	Weather Responsive Traffic Management		
Description	Includes strategies that utilize road weather data (using field devices and		
	vehicles) for traveler information, traffic control, and winter maintenance		
	activities. There are three types of road weather management strategies may		
	be employed in response to environmental threats: advisory, control, and		
	treatment strategies. Advisory strategies provide information on prevailing and		
	predicted conditions to both transportation managers and motorists. Control		
	strategies alter the state of roadway devices to permit or restrict traffic flow		
	and regulate roadway capacity. Treatment strategies supply resources to		
	roadways to minimize or eliminate weather impacts. Many treatment strategies		
	involve coordination of traffic, maintenance, and emergency management		
	agencies. These mitigation strategies are employed in response to various		
	weather threats including fog, high winds, snow, rain, ice, flooding, tornadoes,		
	hurricanes, and avalanches.		
ICIVI Category	Fundamental strategy		
Anticipated	 Improved safety and emergency response 		
Benefits	Improved accessibility and mobility		
	Reduced or shifted demand		
	Enhanced traveler choice and decision making		
	 Increased return on and use of existing investment 		
	 Improved transportation efficiency and productivity 		
	 Improved institutional cooperation 		
	Reduced environmental impact		
	 Improved customer experience and perception 		
Provided	Winter weather maintenance management		
Functionality	Maintenance decision support		
-	Roadway environmental monitoring		
Prerequisite	Network surveillance		
Functionality	Traffic information dissemination		
Required	Roadway environmental monitoring		
Complementary	Predictive traveler information		
and/or Supported	Dynamic routing		
Strategies	Flexible work hours		
	Telecommuting		
	Dynamic speed advisories		
	Queue warning		
	Connected and automated vehicles		
	Incident management		
Examples	 Road Condition Reporting Application (Wyoming DOT) 		
	 Integrating Mobile Applications (Michigan, Nevada, Minnesota DOTs) 		



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	Freight Operations and Management		
Description	The use of technologies deployed to improve freight system efficiency and		
	productivity, increase global connectivity, and enhance freight system security		
	against common threats and terrorism. Freight operational strategies include		
	gateway facilitation, driver identification and validation, compliance		
	facilitation, weigh-in-motion, freight status information, and network status		
	information. Successful implementation of one or more of these strategies		
	could result in increased efficiency and productivity, improved reliability of		
	service, and improved shipment and service integrity.		
ICM Category	Fundamental strategy		
Anticipated	 Improved safety and emergency response 		
Benefits	 Improved accessibility and mobility 		
	Reduced or shifted demand		
	 Enhanced traveler choice and decision making 		
	 Increased return on and use of existing investment 		
	 Improved transportation efficiency and productivity 		
	 Improved institutional cooperation 		
	Reduced environmental impact		
	 Improved customer experience and perception 		
Provided	Freight mobility		
Functionality	Commercial vehicle administration		
Prerequisite	Network surveillance		
Functionality	Traffic information dissemination		
Required	 Commercial vehicle administrative and management systems 		
Complementary	Dynamic routing		
and/or Supported	Dynamic truck restrictions		
Strategies	Queue warning		
	 Connected and automated vehicles 		
	Access control		
	Freight rail improvements		
	Intersection improvements		
	Traffic incident management		
	Work zone management		
	Weather responsive traffic management		
	Adaptive traffic signal systems		
Examples	Seattle, WA (At grade rail crossings near industrial area)		