

2010 ITS Deployment Tracking National Survey

Survey Summary Report

Transportation Management Centers

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About This Report

For more than a decade, the Intelligent Transportation Systems Joint Program Office (ITS JPO) of the Research and Innovative Technology Administration (RITA) has tracked the deployment of ITS technology through a series of national surveys of metropolitan transportation agencies. This data collection effort targets agencies involved with freeway, arterial, and transit management, public safety (law enforcement and fire/rescue/emergency medical), and toll collection, as well as transportation management systems. The most recent survey, conducted in 2010, involved distribution of 1600 surveys covering 108 metropolitan areas with a response rate of 85%.

This report covers the Transportation Management Center survey, and represents the results from a total of 229 responding agencies. This is one of a series of survey summaries for each of the survey types that provide an initial look at the data from the 2010 national survey. These summaries are limited to reporting the number of agencies responding to specific questions in the survey. Additional reports will be produced that cover counts and coverage of deployment of individual technologies, including deployment trends, covering national totals as well as individual cities and agencies. In addition, the 2010 survey results will be posted on line at: <http://www.itsdeployment.its.dot.gov/> where results from earlier surveys are also available.

General Information

Number of agencies that responded: **229**

Number of TMCs that have a website: **95**

Number of agencies that include the following modes within the TMC:

Arterials	186
Freeways	133
Public Safety	64
Transit	26
Other	26

Number of agencies that have identified corridors for the purpose of integrating operations across freeways, major arterials, and/or public transit services: **115**

TMC Functions

Number of Transportation Management Center performing the following functions or services on FREEWAYS:

Incident management detection, verification, and monitoring	127
Traveler information dissemination to the public	120
Network or roadway surveillance and data collection	119
Special event traffic management	119
Planned special events	110
Incident response dispatch	99
Manage work zones (coordinate lane closures, monitor WZ traffic conditions)	90
Evacuation management and traffic coordination	88
Emergency services traffic control coordination	84
Maintenance dispatch	80
Network performance monitoring, evaluation and reporting	65
Snow and ice removal	57
Environmental monitoring (e.g., air quality, noise and weather)	46
Ramp management and control	45
Lane management and control (e.g., HOV, reversible lanes)	41
Integrated Corridor Management	28

Number of Transportation Management Center performing the following functions or services on ARTERIALS:

Traffic signal coordination or control	151
Special event traffic management	147
Network or roadway surveillance and data collection	139
Traveler information dissemination to the public	116
Incident management detection, verification, and monitoring	112
Planned special events	108
Evacuation management and traffic coordination	90
Maintenance dispatch	89
Network performance monitoring, evaluation and reporting	83
Emergency services traffic control coordination	80
Manage work zones (coordinate lane closures, monitor WZ traffic conditions)	77
Incident response dispatch	69
Snow and ice removal	49
Integrated Corridor Management	45
Environmental monitoring (e.g., air quality, noise and weather)	26
Lane management and control (e.g., HOV, reversible lanes)	25

Number of Transportation Management Center performing transit scheduling and dispatch on PUBLIC TRANSIT: **4**

Operations

Number of agencies that employ any Center-to-Center communications standards: **57**

IEEE 1512	26
TMDD v2.01	17
TMDD v3.0	11
SAE J2354	8

Number of agencies that have established Center-to-Center connections to other TMCs: **119**

Number of agencies that have established Center-to-Center connections to private sector information disseminators: **51**

Number of agencies that have an Operation Manual: **137**

Number of agencies where the Operations Manual contain detailed (measureable) requirements: **56**

Number of agencies that have deploy a decision support system to assist in operating the following: **84**

Incident management	68
Emergency management	52
Maintenance	49
Road weather management	47
Evacuation	40
Corridors	36
Other	6

Number of agencies where there is any shared control of field devices with other agencies: **119**

Emergency Operations

Number of agencies that participate in any of the following regional or statewide disaster planning program:

Program type	Number of agencies
Statewide	85
Regional - intrastate	69
Regional - multi-state	28

Number of agencies that activate a designated multi-agency emergency operations center (EOC) in case of natural or man-made disasters: **188**

Number of agencies where the EOC is integrated with the TMC:

Workstations are placed in the related Emergency Operations Center (EOC)	85
We have a formal interagency agreement with emergency management agencies covering goals, policies, and organizational roles	49
The TMC facility houses the EOC	28
We have a private data network with availability limited to cooperating regional agencies	27
We have a restricted-access website for cooperating agencies	24

Physical location of the TMC staff at the EOC during emergency operations:

Some, not all	95
None	92
All	7

Number of agencies that use the following approaches during emergency operations to make the TMC system more reliable:

Approach	Number of agencies
Backup power in center	194
Multiple data communications paths	124
Backup power for some or all field devices	102
Redundant data systems	90

Integration with Public Safety

Number of agencies that have responsibility (shared or otherwise) for emergency vehicle dispatch: **50**

Number of agencies where 911 facilities are located within, or adjacent, to the TMC location: **47**

Number of agencies where public safety Computer Aided Dispatch (CAD) information is integrated within the TMC through an interagency agreement: **58**

Included in the agreement	Number of agencies
Definition of what CAD information will be passed	37
Use of common incident location identifiers	27
Use of common format or an exchange format	24
The TMC can push data to the public safety CAD	10

Number of agencies that have methods other than CAD of receiving incident notifications from public safety agencies: **130**

Traffic Incident Management

Number of agencies that have a formally recognized multi-agency Traffic Incident Management committee: **101**

Applies to the committee	Number of agencies
The scope of the committee is Regional	76
The committee has regularly scheduled meetings	73
It operates with an agreement signed by multiple agencies	37
The scope of the committee is Statewide	28

Number of agencies that have a full time Traffic Incident Management Engineer: **58**

Number of agencies where 24/7 response by on-duty Department of Transportation (DOT) personnel is available: **133**

Number of agencies where other response time by on-duty Department of Transportation (DOT) personnel is available: **81**

Number of agencies where the Traffic Incident Management program include safety service patrols: **95**

Number of agencies where the safety service patrol personnel trained to serve as incident responders: **72**

Number of agencies where the DOT maintenance/operations staff are trained to serve as incident responders: **92**

Number of agencies where the Incident Command System is widely used and common practice at all incident scenes: **112**

Number of agencies that track any of the following performance measures:

Other	98
Incident clearance times	89
Roadway clearance times	76
Agency response times	56
Secondary incident times	27

Number of agencies that use Federal Highway Administration (FHWA) definitions for the above measures: **66**

Number of agencies that have establish performance goals for incident clearance: **76**

Categories of incidents for which performance goals apply	Number of agencies
Major incidents	71
Moderate incidents	53
Minor incidents	49

Number of agencies where the traffic incident management program is integrated with the TMC: **84**

Number of agencies where there is an established interagency on-scene communications procedure detailed in a memorandum of understanding (MOU): **30**

Number of agencies where a HAZMAT agency is integrated into the TMC's traffic incident management program and on-scene response: **46**

Number of agencies where the HAZMAT requirements, cleanup procedures, and defined process for quick cleanup are widely understood by responding contractors: **48**

ITS Funding

Number of agencies that have any plans to invest in new ITS technology or to expand current ITS coverage in 2010 through 2013: **193**

Expand current ITS coverage	179
Invest in new ITS	132

Number of agencies that have a separate budget for ITS: **135**

Number of agencies that track the budget separately for each of the following categories

ITS Operations and Maintenance	99
ITS Deployments	89
Traffic Management or Operations Center	89