

Metropolitan Intelligent Transportation Systems (ITS) Infrastructure 2006 Freeway Management Survey

Albany, Schenectady, Troy

SURVEILLANCE:

	Previous Response	Total in 2006
1. Total number of freeway centerline miles with real-time traffic data collection technologies (DOES NOT INCLUDE CCTV):	<input type="text"/>	<input type="text"/>
2. Total number of freeway centerline miles with real-time traffic data collection technologies (INCLUDES CCTV) used to monitor key transportation facilities for security purposes operated by your agency:		<input type="text"/>
3. Total number of freeway traffic surveillance detector stations deployed by your agency:		<input type="text"/>
4. Total number of vehicle probe readers deployed by your agency:		<input type="text"/>

RAMP CONTROL:

	Previous Response	Total in 2006
5. Total number of ramps with ramp metering capability operated by your agency	<input type="text"/>	<input type="text"/>
6. Total number of metered ramps with priority access capability for transit vehicles operated by your agency	<input type="text"/>	<input type="text"/>
7. Total number of metered ramps with preemption access capability for emergency vehicles	<input type="text"/>	<input type="text"/>
8. Total number of ramps with automated ramp closure capability operated by your agency:		<input type="text"/>
9. Does your agency deploy automated enforcement technologies to assist with the enforcement of ramp metering compliance?		
<input type="checkbox"/> Yes		
<input type="checkbox"/> No		

LANE MANAGEMENT:

	Previous Response	Total in 2006
10. Total number of freeway centerline miles under lane control	<input type="text"/>	<input type="text"/>
11. Total number of freeway High Occupancy Vehicle (HOV) centerline miles equipped with automated lane management technologies (e.g., sensors detecting the traffic conditions support the use of dynamic message signs and moveable barriers (e.g., gates) to control the operation of HOV facilities) operated by your agency:	<input type="text"/>	<input type="text"/>
12. Total number of freeway reversible lane centerline miles equipped with automated lane management technologies (e.g., traffic sensors and lane control signs used to implement reversible flow lanes) operated by your agency:	<input type="text"/>	<input type="text"/>
13. Total number of freeway centerline miles under congestion pricing and equipped with traffic sensors, electronic payment, or automated enforcement technologies to support the implementation of congestion pricing strategies operated by your agency:	<input type="text"/>	<input type="text"/>
14. Total number of freeway centerline miles equipped with lane control signs, supported by surveillance and detection technologies, to allow the temporary closure of lanes by your agency:	<input type="text"/>	<input type="text"/>
15. Total number of freeway centerline miles equipped with variable speed limit technologies operated by your agency:	<input type="text"/>	<input type="text"/>
16. Total number of freeway centerline miles equipped with lane management measures such as reversible flow lanes and lane control to support emergency evacuations operated by your agency:		<input type="text"/>
17. Does your agency deploy automated enforcement technologies to enforce High Occupancy Vehicle (HOV) restrictions on freeways?		
<input type="checkbox"/> Yes		
<input type="checkbox"/> No		
18. Does your agency deploy speed enforcement technologies on freeways?		
<input type="checkbox"/> Yes		
<input type="checkbox"/> No		

INFORMATION DISSEMINATION:

19. Please check all the methods that your agency uses to distribute information to the public

	Previous response	In 2006
Dedicated cable TV:	<input type="checkbox"/>	<input type="checkbox"/>
Automated telephone system:	<input type="checkbox"/>	<input type="checkbox"/>
Internet Web sites	<input type="checkbox"/>	<input type="checkbox"/>
Pagers or personal data assistants:	<input type="checkbox"/>	<input type="checkbox"/>
Interactive TV:	<input type="checkbox"/>	<input type="checkbox"/>
Kiosks:	<input type="checkbox"/>	<input type="checkbox"/>
E-mail or other direct PC communication:	<input type="checkbox"/>	<input type="checkbox"/>
In-vehicle navigation systems:	<input type="checkbox"/>	<input type="checkbox"/>
Cell phone/automated voice:	<input type="checkbox"/>	<input type="checkbox"/>
Facsimile:	<input type="checkbox"/>	<input type="checkbox"/>
Video feed to the media:	<input type="checkbox"/>	<input type="checkbox"/>
Do not distribute information:	<input type="checkbox"/>	<input type="checkbox"/>

20. Please check all the types of information that your agency distributes to the public

	Previous response	In 2006
Freeway travel times:	<input type="checkbox"/>	<input type="checkbox"/>
Freeway travel speeds:	<input type="checkbox"/>	<input type="checkbox"/>
Incident information:	<input type="checkbox"/>	<input type="checkbox"/>

21. Which of the following technologies does your agency use to distribute pre-trip traveler information for freeways? (Check all that apply)

- Internet or wireless systems
- 511
- Other (non-511) telephone systems
- TV / Radio
- Kiosks

22. Which of the following technologies does your agency use to distribute en-route traveler information for freeways? (Check all that apply)

- Wireless systems
- 511
- Other (non-511) telephone systems
- Radio
- In-vehicle systems

23. Number of centerline miles covered by Highway Advisory Radio (HAR)

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Previous Response	Total in 2006
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24. Is your Highway Advisory Radio (HAR) used to broadcast freeway incident information?

- Yes
- No

Previous Response	Total in 2006
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25. Total number of Permanent DMS deployed on freeways:

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26. Total number of Portable DMS deployed on freeways:

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27. What type of information is displayed on your DMS? (check all that apply)

- Travel time
- Average speed
- Congestion
- Diversions
- Incident information
- Maintenance and construction work site information
- Advisory speed limits
- Weather alerts
- HOV regulatory information
- Information from other states
- Transit operations
- Roadway status
- Special events impacting travel
- Local special events announcements
- Amber alerts
- Public Service Announcements
- Driver safety campaigns
- Parking availability
- Other (please specify):

TOURISM AND EVENTS:

28. Does your agency deploy tourism information traveler systems that focus on the needs (i.e., electronic yellow pages, incorporating lodging reservations systems and directions to points of interest) of travelers in areas unfamiliar to them?

- Yes:
- No:

29. Does your agency deploy parking management systems that provide availability status and directional guidance posted on dynamic message signs at major tourism destinations?

- Yes:
- No:

30. Does your agency deploy electronic payment systems (i.e., magnetic stripe cards, smart cards, or similar technologies) to facilitate traveler's payment for travel and other services at tourist destinations?

- Yes:
- No:

31. Please indicate whether your agency deploys portable transportation management systems to control the impact of congestion at the following locations hosting special events:

Locations hosting FREQUENT special events (These systems may have some permanently installed components [e.g. DMS, sensors])

- Yes:
- No:

Locations hosting OCCASIONAL special events

- Yes:
- No:

Locations hosting ONE-TIME or UNUSUAL events

- Yes:
- No:

INTEGRATION:

32. Does your agency receive, in real-time, freeway travel times derived from vehicle probes from any toll collection agency?

Previous Response

- Yes:
- No:
- No toll collection:

33. Does your agency receive, in real-time, incident information (e.g., clearance activities, type, severity, etc.) from any Public Safety agency?

	Previous Response	Yes	No
Incident clearance:	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incident severity and type:	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

34. Does your agency provide, in real-time, incident information (e.g., type, severity, etc.) and/or freeway information (e.g., travel times, speed, and conditions) to the following types of agencies?

	incident information (e.g. type, severity, etc.)			freeway information (e.g. travel times, speed, and conditions)		
	Previous Response	Yes	No	Previous Response	Yes	No
Freeway Management Agencies:	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arterial Management Agencies:	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Transit Agencies:	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Safety Agencies:	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

35. Which of the following field devices do you turn over or share control of to/with another agency? (Check all that apply)

- CCTV cameras
- Ramp meters
- Dynamic message signs
- Highway Advisory Radio
- Lane Control Signals

36. If your agency turns over or shares control of any field devices, how is integration achieved? (Check all that apply)

- Regional guidelines
- Non-binding or informal MOU
- Agency policy
- Formal legal interagency agreement
- Other (please specify):

INCIDENT MANAGEMENT:

Please provide the miles covered by the following incident detection/verification methods.

	Previous Response	Total in 2006
37. Free cellular phone call to a dedicated phone number other than 911	<input type="text"/>	<input type="text"/>
38. Computer algorithms	<input type="text"/>	<input type="text"/>
39. Call boxes	<input type="text"/>	<input type="text"/>
40. CCTV	<input type="text"/>	<input type="text"/>
41. Total number of CCTV cameras deployed on freeways		<input type="text"/>

42. Are the images from your CCTV cameras available to the public?

Previous Response

- Yes
 No
 No CCTV

43. Please indicate which of the following methods your agency uses to detect freeway incidents. (Check all that apply)

- Inductive loop or acoustic roadway detectors
 Wireless enhanced 911 systems
 Mayday or Advanced Crash Notification systems
 Traveler reported information

44. Total number of freeway centerline miles patrolled by service patrols

Previous Response	Total in 2006
<input type="text"/>	<input type="text"/>

45. Total number of vehicles operated by the service patrols

<input type="text"/>	<input type="text"/>
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46. Does your agency use video imaging to assist with data collection at freeway incident scenes to speed the reopening of travel lanes?

- Yes
 No

47. Does your agency deploy temporary traffic control devices, such as portable message signs and lane control signs, to help ensure the safety of freeway incident scenes?

- Yes
 No

ITS STANDARDS AND REGIONAL ITS ARCHITECTURE

48. Please check the ITS Standards that you are using (deployed or in current RFP) or considering (assessing for use) in your agency's systems from the list below.

- | Using | Considering |
|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> AASHTO-ITE TM 2.1, Standards for Traffic Management Center-to-Center Communications (TMDD) (http://www.standards.its.dot.gov/fact_sheet.asp?f=17) |
| <input type="checkbox"/> | <input type="checkbox"/> IEEE 1512 – Family of Standards for Incident Management Message Sets (http://www.standards.its.dot.gov/fact_sheet.asp?f=12) |
| <input type="checkbox"/> | <input type="checkbox"/> SAE J2354 – Message Set for Advanced Traveler Information System (ATIS) (http://www.standards.its.dot.gov/fact_sheet.asp?f=54) |
| <input type="checkbox"/> | <input type="checkbox"/> APTA TCIP Dialogs – Transit Communications Interface Profile (http://www.standards.its.dot.gov/StdSummary.asp?ID=411) |

49. Please check the equipment packages (from the list below) define in the ATIS1-Broadcast Traveler Information Market Package that are featured in your Regional ITS Architecture (if any).

- Basic Information Broadcast
 ISP Traveler Data Collection
 Personal Basic Information Reception
 Remote Basic Information Reception
 Basic Vehicle Reception

TRANSPORTATION MANAGEMENT CENTER

50. Does your agency operate a Traffic Operations Center (TOC) or Transportation Management Center (TMC)?

- Yes. What is its name?
- No

Please answer questions 41 through 62 only if you operate a TOC/TMC

51. Center location (address):

52. What is the geographical area of coverage or area of responsibility?

53. Which of the following items describe the functional capabilities of your TOC/TMC? (Check all that apply)

- Network or roadway surveillance and data collection
- Incident management (e.g., detection, verification and monitoring of incident status)
- Information dissemination to other agencies (public, private and/or interagency)
- En-route driver information (dynamic message signs, highway advisory radio, in-vehicle systems)
- Environmental monitoring (e.g., air quality, noise and weather)
- Special event traffic management
- Evacuation management and traffic coordination
- Emergency services traffic control coordination
- Ramp management and control
- Lane management and control (e.g., HOV, reversible lanes)
- Corridor management/traffic signal coordination or control
- Network performance monitoring, evaluation and reporting
- Road Weather Management
- Other (please specify):

54. Does your agency deploy temporary Traffic Management Centers (TMCs) or satellite locations for existing TMC to control the impact of congestion associated with special events?

- Yes
- No

55. Select the 3 most important factors in making a decision to invest in a TOC/TMC from the list below. Please rank your choices using a scale of 1-3 where 1 = most important.

<input type="text"/>	Agency cost savings
<input type="text"/>	Incident management
<input type="text"/>	Voter or customer satisfaction
<input type="text"/>	Improved environment
<input type="text"/>	Improved travel reliability
<input type="text"/>	Improved safety
<input type="text"/>	Evacuation management
<input type="text"/>	Other (please specify): <input type="text"/>

56. What tools, resources, or support mechanisms are most helpful for implementing ITS standards? (Check all that apply)

- Training courses
- Published standards provided for free
- Workshops
- Web sites
- Forums
- E-Mail bulletins
- Software tools
- Case studies
- Peer to peer
- Guidance documents
- Other (please specify):

57. Select the 3 most effective methods in persuading the public to support deployment of your TOC/TMC from the list below. Please rank your choices using a scale of 1-3 where 1 = most effective.

- | | |
|--|--|
| | Open meeting with the public |
| | Contractor provided briefings |
| | Emergency situation |
| | Public involvement |
| | Newspaper articles and other local media (e.g. radio, TV) |
| | Scanning tours for elected officials |
| | On-line message boards |
| | Other (please specify): <input style="width: 450px;" type="text"/> |

58. Approximately what percentages of the following funding sources are used to finance ongoing TOC/TMC operations?

Percent

- | | |
|--|--|
| | % Local (Including toll revenue) |
| | % State |
| | % Federal |
| | % Private |
| | % Other (please specify): <input style="width: 450px;" type="text"/> |

59. What methods (e.g., the use of a common technology) has your agency employed to facilitate interoperability with other agencies? (Check all that apply)

- Use of ITS standards
- Purchase of the same hardware
- Purchase of the same software
- Use of contractor developed interface
- Development of regional standards
- Other (please specify):

60. What measures have you used to manage the potential for technological obsolescence of your TOC/TMC technology? (Please describe)

61. Select the 3 most important legal issues involved with making a decision to deploy a TOC/TMC from the list below. Please rank your choices using a scale of 1-3 where 1 = most important.

<input type="text"/>	Rules and regulations
<input type="text"/>	Contract disputes and claims
<input type="text"/>	Intellectual property
<input type="text"/>	Liability
<input type="text"/>	Privacy
<input type="text"/>	Other (please specify): <input type="text"/>

62. Select the 3 most effective methods for recruiting TOC/TMC personnel from the list below. Please rank your choices using a scale of 1-3 where 1 = most effective.

<input type="text"/>	College outreach
<input type="text"/>	Advertising in local media
<input type="text"/>	Recruiting services
<input type="text"/>	Notices in trade publications
<input type="text"/>	Other (please specify): <input type="text"/>