

2006 Statewide Intelligent Transportation System (ITS) Survey

Crash Prevention Systems

Road Geometry Warning Systems

1. Does your state deploy any Road Geometry Warning Systems using roadside detectors and electronic warning systems to warn drivers, typically those in commercial trucks and other heavy vehicles, of potentially dangerous speeds approaching any of the following locations? (Check all that apply)
 - Freeway ramps
 - Curves on
 - Downhill grades
2. Does your state deploy automated Over height/Over width warning systems that use roadside detectors and electronic warning signs to warn drivers of vehicles that are too tall or wide to pass under bridges or through tunnels?
 - Yes
 - No

Highway-Rail Crossing Systems

3. Does your state deploy sensors to detect and warn vehicles of approaching trains at highway rail crossings?
 - Yes
 - No
4. Does your state deploy automated enforcement systems to detect drivers violating railroad crossing traffic controls?
 - Yes
 - No

Other Safety Systems

5. Does your state deploy Intersection Collision Warning Systems using sensors to monitor traffic approaching dangerous intersections and warn vehicles of approaching cross traffic?
 - Yes
 - No
6. Does your state deploy Pedestrian Safety Systems to protect pedestrians by alerting drivers as pedestrians enter crosswalks?
 - Yes
 - No

7. Does your state deploy Bicycle Warning Systems that use detectors and electronic warning signs to identify bicycle traffic and notify drivers when a cyclist is in an upcoming segment of roadway to improve safety on narrow bridges and tunnels?

Yes

No

8. Does your state deploy Animal Warning Systems to detect large animals approaching the roadway, and provide warnings to travelers?

Yes

No

Integration

9. Do any of your crash prevention systems communicate information (e.g., status, activation), in real-time, to any agencies/systems?

Yes.

Check all that apply:

Data archiving

Public safety

State police

Local agencies

Traffic management

Incident management

Traveler information

Information service providers

Tourism boards

Other states

Other (please specify): _____

No

Roadway Operations and Maintenance

Asset Management

10. Does your state employ ITS technologies (e.g., fleet tracking applications such as automated vehicle location and computer aided dispatch systems, as well as handheld computers supporting data entry and reporting from the field) to manage maintenance vehicles?

Yes

No

11. Does your state employ sensors or automated data collection systems (e.g., weigh-in-motion, traffic volumes, pavement condition, bridge condition, etc.) to monitor the condition of highway infrastructure?

Yes

No

Work Zone Management

12. Which of the following technologies does your state use to inform travelers about work zones? (Check all that apply)

Portable dynamic message signs (DMS)

Highway advisory radio (HAR)

Internet web site

13. Does your state deploy ITS technologies, either as stand-alone implementations or to supplement existing systems, to support temporary traffic management at work zones?

Yes

No

14. Does your state deploy temporary Incident Management Systems to facilitate the safe clearance of incidents that occur near work zones?

Yes

No

15. Does your state deploy ITS technologies (e.g., lane control signs, portable dynamic message signs, dynamic lane merge systems, or other applications) to notify travelers of lane configuration changes approaching work zones?

Yes

No

16. Does your state implement variable speed limits within work zones?

Yes

No

17. Does your state employ automated enforcement systems to enforce speed limits at work zones?

Yes

No

18. Does your state deploy automated intrusion detection and warning systems to alert highway workers and drivers when vehicles or construction equipment enter sensitive sections of the work area within work zones?

Yes

No

19. Does your state use ITS technologies to manage traffic along detour routes during full road closures to facilitate rapid and safe reconstruction projects?

Yes

No

20. Does your state communicate information (e.g., status, specific warnings) concerning work zones in real-time to any of the following agencies/systems?

Yes.

Check all that apply:

Data archiving

Public safety

State police

Local agencies

Traffic management

Incident management

Traveler information

Information service providers

Tourism boards

Other states

Other (please specify): _____

No

Traveler Information

Information Dissemination

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

Wireless systems

511

Other (non-511) telephone systems

Radio

In-vehicle systems

Tourism and Events

23. Does your state 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

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

- Yes
- No

25. Does your state deploy electronic payment systems, using technologies such as magnetic stripe cards or smart cards, to facilitate traveler's payment for travel and other services at tourist destinations?

- Yes
- No

ITS Standards and Regional ITS Architecture

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

Standard	Using	Considering
AASHTO-ITE TM 2.1, Standards for Traffic Management Center-to-Center Communications (TMDD) (
IEEE 1512 - Family of Standards for Incident Management Message Sets		
SAE J2354 - Message Set for Advanced Traveler Information System (ATIS)		
APTA TCIP Dialogs - Transit Communications Interface Profile		

27. Please check the equipment packages (from the list below) defined 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

Statewide Web Site

28. Has your state deployed a Web Site that distributes traveler information?

Yes

Please answer questions 29 through 31 and provide the web address (URL):

No

29. What information is disseminated by this web site? (Check all that apply)

Roadway Information:

- Road closure
- Detours
- Alternate routes
- Work zones/construction events
- Weather
- Road surface conditions
- Road restrictions
- Incidents
- Congestion
- Speeds
- Travel times
- CCTV Images
- Other

Traveler and Tourist Information:

- Maps
- Directions
- Special events
- Points of interest
- Hotel accommodations
- Restaurants
- Recreational areas
- National Parks information
- Local event calendars
- Trail information
- Parking information
- Parking space availability
- Other

Public Transportation Information:

- Transit schedules
- Transit adherence to schedules
- Rail schedules
- Ferry schedules
- Other

Other Information:

- Air quality alerts
- AMBER (child abduction) alerts
- Safety campaign messages
- Other

30. What is the geographic coverage of the information provided?

Regional.

Describe coverage: _____

Statewide

Multi-state.

States included: _____

31. What is the highway coverage of the information provided?

- Freeways
- Multi-lane (not limited access)
- State routes
- Other

Weather Systems

Surveillance, Monitoring and Prediction

32. Does your state deploy in-pavement or road surface sensors to track pavement conditions?

- Yes
- No

33. Does your state deploy environmental sensor stations (ESS) in rural areas?

- Yes
- No

34. Does your state deploy sensors to monitor water levels on roadways?

- Yes
- No

Traffic Control

35. Which of the following technologies does your state use to disseminate weather information to travelers?

(Check all that apply)

- Dynamic message signs (DMS)
- Highway advisory radio (HAR)
- Internet web site

36. Does your state employ variable speed limits in response to weather conditions?

- Yes
- No

37. Does your state change traffic signal timing in response to weather?

- Yes
- No

38. Does your state deploy ITS technologies to manage traffic diversions in response to road closures due to weather events?

- Yes
- No

39. Does your state employ ITS sensors and information dissemination technologies to determine the need to implement temporary restrictions on vehicles during inclement weather conditions (e.g., road closures to high-profile vehicles during periods of high winds, snow tire/chain requirements during winter weather)?

- Yes
- No

Response and Treatment

40. Does your state deploy automatic bridge anti-icing systems?

- Yes
- No

41. Does your state deploy snowplows with AVL, communications and sensors to monitor treatment?

- Yes
- No

Integration

42. Please indicate with which of the following agencies/systems your state communicates weather warnings or forecasts in real-time. (Check all that apply)

Systems/Agencies	Warnings	Forecasts
Data archiving		
Public safety		
State police		
Local agencies		
Traffic management		
Incident management		
Traveler information		
Information service providers		
Tourism boards		
Other states		
Other (please specify):		