

Appendix A: Stakeholder Survey Questionnaire

Before completing this survey, please provide the following information:

Name: _____

Title: _____

Agency: _____

Division: _____

Phone: _____

Fax: _____

E-mail: _____

Questionnaire

The questionnaire is organized by the following sections:

- A. General Questions
- B. User Needs and Services
- C. Data Management and Archiving
- D. Roadway Operations – including freeway and arterial management and operations
- E. Roadway Maintenance – including general roadway maintenance, winter maintenance, and work zone activities
- F. Transportation Security
- G. Incident & Emergency Management
- H. Transit Operations
- I. Commercial Vehicle Operations

Instructions

You are not required to fill out the entire survey questionnaire. To save your time, a matrix shown below is developed to instruct which sections of the questionnaire you should complete. Please fill out the sections of the questionnaire that are applicable to you. You are certainly welcome to fill out other sections and provide additional information. Feel free to skip any questions that you do not

Type of Agency	Section								
	A	B	C	D	E	F	G	H	I
Transportation Operations and Maintenance Agency (District Office, Project Office, Maintenance Office, Traffic and Safety Office, Public Works Department, Engineers Office, etc.)	X	X	X	X	X	X			
Roadway Service Patrol	X	X	X			X	X		
DOT Office of Enforcement, Law Enforcement and Emergency Management Agency (Sheriff Department, Police Department, Fire Department, Emergency Management Agency, Emergency Medical Services, etc.)	X	X	X			X	X		X
Planning	X	X	X	X	X	X	X	X	X
Public Transportation Agency	X	X	X					X	
Data Archives/Data Management Agency	X	X	X						
Others	X	X	X						

A. General Questions

1. Are your agency planning any ITS projects, including but not limited to traffic management centers, dispatch centers, transit vehicles, communications infrastructure, etc.

YES NO

If YES, please describe the project(s) and/or provide project name(s) and available documentation source(s).

2. Does your agency exchange voice or data information (including by telephone or fax) with any of the following types of organizations/agencies? Please select all that apply and list the appropriate organizations/agencies by name.

Incident/Emergency _____

Freeway _____

Arterial or Non-Freeway _____

Maintenance and Construction _____

Public Transportation _____

Commercial Vehicle Operations/Inspection_____

3. What specific types of information do you share with these organizations/agencies?

Incident/Emergency_____

Freeway_____

Arterial or Non-Freeway _____

Maintenance and Construction_____

Public Transportation_____

Commercial Vehicle Operations/Inspection_____

4. Please indicate what communications technologies are available within your agency that might be used to exchange information with other agencies?

- Center-to-Center Communications EXISTING PLANNED
- Internet System Access and Browsing EXISTING PLANNED
- Agency Radio Network EXISTING PLANNED
- Telephone EXISTING PLANNED
- Fax EXISTING PLANNED
- Pager EXISTING PLANNED
- E-mail EXISTING PLANNED
- Scheduled Mailings EXISTING PLANNED
- Other _____

5. What existing communicating infrastructure (for transportation or other uses) is controlled/owned by your organization or agency?

- Radio EXISTING PLANNED
- Copper Cable EXISTING PLANNED
- Fiber Cable EXISTING PLANNED
- Wireless EXISTING PLANNED
- Other _____

6. Does your agency disseminate (or plan to disseminate) traffic or weather condition information to the public in any of the following ways?

- Dynamic Message Signs (DMS) EXISTING PLANNED
(permanent or portable)
- Highway Advisory Radio (HAR) EXISTING PLANNED
- In-Vehicle Navigation Systems EXISTING PLANNED
- TV/Radio EXISTING PLANNED
- Internet EXISTING PLANNED
- Kiosks EXISTING PLANNED
- E-mail EXISTING PLANNED
- 511 or Other Telephone Services EXISTING PLANNED
- Pager or Personal Data Assistants (PDAs) EXISTING PLANNED
- DMS controlling parking access EXISTING PLANNED

• Other _____

7. Does your agency receive (or plan to receive) information from the National Weather Service?

EXISTING PLANNED NO

8. Does your agency receive (or plan to receive) surface transportation specific weather information from a value-added sector specific meteorological service provider?

EXISTING PLANNED NO

9. Does your agency have (or plan to have) the capability to provide any of the following information?

a. Broadcast of Static or Real-Time Traffic, Transit, or Maintenance and Construction Information? EXISTING PLANNED NO

b. Personalized provision of Traffic, Transit, or Maintenance and Construction Information to users? EXISTING PLANNED NO

c. Route Guidance (either pre-trip or enroute)? EXISTING PLANNED NO

d. Yellow Pages Information or Reservation? EXISTING PLANNED NO

10. Please list any current agreements or memoranda of understanding that your agency has in place with any other organizations/agencies (e.g., maintenance of traffic signals, media agreements).

Additional Information / Comments

B. User Needs and Services

1. What are the major transportation problems and issues in your jurisdictional area?

2. Please identify and rank the top 10 user needs and services (across all service areas) for mitigating critical transportation problems and issues in your jurisdiction. Use the numbers from 1 to 10 with 1 being the most critical user needs and services.

Travel and Traffic Management

- | | |
|--|---|
| <input type="checkbox"/> Pre-trip Travel Information | <input type="checkbox"/> Traffic Control |
| <input type="checkbox"/> En-route Driver Information | <input type="checkbox"/> Incident Management |
| <input type="checkbox"/> Route Guidance | <input type="checkbox"/> Travel Demand Management |
| <input type="checkbox"/> Ride Matching and Reservation | <input type="checkbox"/> Emissions Testing and Mitigation |
| <input type="checkbox"/> Traveler Services Information | <input type="checkbox"/> Highway Rail Intersection |

Public Transportation Management

- | | |
|---|--|
| <input type="checkbox"/> Public Transportation Management | <input type="checkbox"/> Personalized Public Transit |
| <input type="checkbox"/> En-route Transit Information | <input type="checkbox"/> Public Travel Security |

Electronic Payment

- Electronic Payment Services

Commercial Vehicle Operations

- | | |
|--|---|
| <input type="checkbox"/> Commercial Vehicle Electronic Clearance | <input type="checkbox"/> Commercial Vehicle Administrative Processes |
| <input type="checkbox"/> Automated Roadside Safety Inspection | <input type="checkbox"/> Hazardous Materials Security and Incident Response |
| <input type="checkbox"/> On-board Safety and Security Monitoring | <input type="checkbox"/> Freight Mobility |

Emergency Management

- | | |
|---|---|
| <input type="checkbox"/> Emergency Notification and Personal Security | <input type="checkbox"/> Emergency Vehicle Management |
| | <input type="checkbox"/> Disaster Response and Evacuation |

Advanced Vehicle Safety Systems

- | | |
|---|---|
| <input type="checkbox"/> Longitudinal Collision Avoidance | <input type="checkbox"/> Intersection Collision Avoidance |
| <input type="checkbox"/> Lateral Collision Avoidance | |

- Vision Enhancement for Crash Avoidance
- Safety Readiness

- Pre-crash Restraint Deployment
- Automated Vehicle Operation

Information Management

- Archived Data

Maintenance and Construction Management

- Maintenance and Construction Operations

3. Based on your understanding of ITS technology in transportation, what opportunities do you see in the future for the application of ITS technologies in your area? (Please check all applied)

- CCTV Surveillance
- Integrated Statewide Emergency Response
- Coordinated Signal Systems
- Integrated Regional Incident Management
- Advanced Highway/Rail Grade Crossing Control
- Variable/Dynamic Message Signs
- Pre-planned Detour/Evacuation Routes
- Highway Advisory Radio (HAR)
- Transit/Parking Smart Card Payment System
- Traffic Signal Priority for transit vehicles
- Traffic Signal Priority for emergency vehicles
- Internet Traveler Information Website
- Telephone Traveler Information
- Aerial Detection
- Road Weather Systems
- Advanced Work Zone Management
- AVL/In-vehicle Navigation System for Emergency or Maintenance Vehicles
- Transit Location/ Information System
- Cell number for incident detection (e.g. *999)
- Cable TV Traveler Information
- Highway Service Patrol
- Hazardous Materials Response

- Public Transportation Data EXISTING PLANNED

Data Types: _____

Data Sources: _____

Data Formats: _____

- Commercial Vehicle Data EXISTING PLANNED

Data Types: _____

Data Sources: _____

Data Formats: _____

- Emission Data EXISTING PLANNED

Data Types: _____

Data Sources: _____

Data Formats: _____

- Parking Data EXISTING PLANNED

Data Types: _____

Data Sources: _____

Data Formats: _____

- Other _____

2. Does your archived data management system provide general query and report functionality?

- EXISTING PLANNED NO

3. Does your archived data management system provide advanced features such as data analysis, summarization, and data mining to facilitate discovery of information, patterns, and correlations in large data sets?

- EXISTING PLANNED NO

4. Does your organization or agency use Geographic Information Systems (GIS)?

- EXISTING PLANNED NO

If EXISTING or PLANNED, what types of information are GIS used for?

Additional Information / Comments

D. Roadway Operations

1. Does your agency use (or plan to use) any of the following real-time traffic data collection technologies?

- Loop Detectors that provide volume and speed data at midblock locations (this **excludes** actuators on intersection approaches)
 EXISTING PLANNED
- CCTV Cameras EXISTING PLANNED
- Vehicle Probe Readers to estimate travel times on arterials
 EXISTING PLANNED
- Road Weather Information System EXISTING PLANNED
- Overheight Vehicle Detection EXISTING PLANNED
- Other _____

2. Does your agency detect and verify (or plan to detect and verify) traffic incidents using sensors and surveillance equipment?

- EXISTING PLANNED NO

3. Does your agency operate (or plan to add) lane control devices (e.g., changeable overhead directional arrows)?

EXISTING PLANNED NO

4. Does your agency manage (or plan to manage) automatic or remotely controlled gates or barriers that control access to roadway segments including ramps and traffic lanes?

EXISTING PLANNED NO

5. Does your agency operate (or plan to add) ramp meters on freeway entrances?

YES NO

If YES, please indicate what is (or will be) used:

- Pre-emption for emergency vehicles EXISTING PLANNED
- Priority for transit vehicles EXISTING PLANNED

6. Does your agency control (or plan to control) any signalized intersections?

YES NO

If NO, skip to Section E.

If YES, do any of your signalized intersections have (or plan to have):

- Closed Loop or Centralized Control EXISTING PLANNED
 - Real-Time traffic adaptive control
such as SCOOT/SCATS or similar EXISTING PLANNED
 - Signal Preemption for emergency vehicles EXISTING PLANNED
 - Signal Priority for Transit Vehicles EXISTING PLANNED
 - Wireless Communications EXISTING PLANNED
 - Other _____
-

7. Does your agency have (or plan to have) any signalized intersections that are interconnected with active railroad crossing devices?

EXISTING PLANNED NO

8. Does your agency monitor highway-rail intersections with any of the following technologies?

- Vehicle Detectors EXISTING PLANNED
- Video Surveillance/Detection EXISTING PLANNED
- Train Arrival Prediction
(Predict Train Arrival Electronically) EXISTING PLANNED
- Electronic Traffic Violator Devices EXISTING PLANNED
- Other _____

Additional Information / Comments

E. Roadway Maintenance

1. Does your agency provide or support (or plan to provide or support) on-going operations and maintenance activities?

- EXISTING PLANNED NO

2. Does your agency have (or plan to have) a maintenance and construction vehicle fleet?

- EXISTING PLANNED NO

If NO, skip to question #7.

3. Does your agency operate or maintain (or plan to operate or maintain) a dispatch facility?

- EXISTING PLANNED NO

If EXISTING or PLANNED, how do your dispatchers communicate with the vehicle operators?

4. Does your agency use (or plan to use) an Automated Vehicle Location (AVL) system?
- EXISTING PLANNED NO
5. Does your agency provide (or plan to provide) maintenance of the vehicles in your fleet?
- EXISTING PLANNED NO
6. Does your agency have (or plan to have) the capability to automate vehicle maintenance scheduling and manage both routine and corrective maintenance activities on vehicles?
- EXISTING PLANNED NO
7. Does your agency collect (or plan to collect) road and weather conditions data from environmental sensors located on or near the roadway?
- EXISTING PLANNED NO
8. Does your agency use (or plan to use) environmental data or information to detect environmental hazards such as icy road conditions, high winds, or dense fog?
- EXISTING PLANNED NO
9. Does your agency have (or plan to have) any roadway deicing systems?
- EXISTING PLANNED NO
10. Does your agency provide (or plan to provide) maintenance services such as landscape maintenance, hazard removal (roadway debris, dead animals), routine maintenance activities (roadway cleaning, grass cutting), or repair and maintenance of equipment (both ITS and non-ITS) on the roadway?
- EXISTING PLANNED NO
11. Does your agency perform (or plan to perform) winter maintenance activities?
- EXISTING PLANNED NO
12. Does your agency manage roadway work zone activities?
- YES NO

If YES, please identify below the devices or systems currently deployed or planned for work zone monitoring.

- Dynamic Message Signs (DMS) EXISTING PLANNED
- Closed Circuit Television (CCTV) EXISTING PLANNED

- Vehicle Speed Monitoring using Remote Devices (i.e. Sensors/Detectors)

EXISTING PLANNED
- Work Zone Intrusions (Detection system on/near the roadway or on-board of maintenance vehicles)

EXISTING PLANNED
- Other _____

Additional Information / Comments

F. Transportation Security

1. Does your agency monitor (or plan to monitor) the transportation infrastructure (e.g., bridges, tunnels, and management centers) for potential threats using sensors and surveillance equipment?

- EXISTING PLANNED NO

2. Does your agency remotely control (or plan to remotely control) barrier and safeguard systems to preclude an incident, control access during and after an incident or mitigate the impact of an incident?

- EXISTING PLANNED NO

3. Does your agency monitor (or plan to monitor) public travel-related areas such as transit stations, transit stops, rest stops, and kiosk locations for potential threats using sensors and surveillance equipment?

- EXISTING PLANNED NO

4. Does your agency use (or plan to use) ITS devices and traveler information systems (such as dynamic message signs, highway advisory radio, 511 or other telephone services, TV/radios, Internet, e-mail, and kiosks) to alert the public in emergency situations such as

child abductions, severe weather events, civil emergencies, and other situations that pose a threat to life and property?

EXISTING PLANNED NO

5. Does your agency use (or plan to use) sensors and surveillance equipment to monitor and detect potential, looming, and actual disasters including natural disasters and technological and man-made disasters (hazardous materials incidents, nuclear, chemical, biological, and radiological attacks) and notify all responding agencies of detected emergencies?

EXISTING PLANNED NO

6. Does your agency support (or plan to support) disaster response and recovery, including coordination of emergency response plans and resources, damage assessment, service restoration, and transition back to normal operation?

EXISTING PLANNED NO

7. Does your agency support (or plan to support) evacuation of the general public from a disaster area and manage subsequent reentry to the disaster area using transportation resources?

EXISTING PLANNED NO

8. Does your agency provide (or plan to provide) disaster-related traveler information to the general public, regarding evacuation and reentry information and other information concerning the operation and availability of the transportation system during a disaster?

EXISTING PLANNED NO

Additional Information / Comments

G. Incident/Emergency Management

1. Does your agency currently perform (or plan to perform) Computer Aided Dispatch (CAD) of emergency vehicles?

EXISTING PLANNED NO

2. Does your agency use (or plan to use) an Automated Vehicle Location (AVL) system?

EXISTING PLANNED NO

3. Does your agency receive (or plan to receive) incident data from an arterial, freeway, transit, or other emergency management agencies?

Arterial Management: EXISTING PLANNED NO

Freeway Management: EXISTING PLANNED NO

Maintenance and Construction: EXISTING PLANNED NO

Transit Agency(ies): EXISTING PLANNED NO

Other Emergency Management: EXISTING PLANNED NO

Other _____

4. Does your agency send (or plan to send) incident data to an arterial, freeway, transit, or other emergency management agencies?

Arterial Management: EXISTING PLANNED NO

Freeway Management: EXISTING PLANNED NO

Maintenance and Construction: EXISTING PLANNED NO

Transit Agency(ies): EXISTING PLANNED NO

Other Emergency Management: EXISTING PLANNED NO

Other _____

5. Does your agency have (or plan to have) preemption lights for signalized intersections or ramp meters?

EXISTING PLANNED NO

6. Does your agency receive (or plan to receive) real-time traffic information and conditions from transportation agencies to support and enhance emergency vehicle routing?

EXISTING PLANNED NO

If EXISTING or PLANNED, from which agency(ies):

Additional Information / Comments

H. Transit Operations

1. What types of transit services does your agency operate (or plan to operate)?

- Fixed Route EXISTING PLANNED
- Demand Responsive (Paratransit) EXISTING PLANNED
- Rail EXISTING PLANNED
- Ferries EXISTING PLANNED
- Other _____

2. Does your agency provide (or plan to provide) maintenance of the transit vehicles?

- EXISTING PLANNED NO

3. Does your agency have (or plan to have) the capability to automate vehicle maintenance scheduling and manage both routine and corrective maintenance activities on vehicles?

- EXISTING PLANNED NO

4. Does your agency use (or plan to use) an Automated Vehicle Location (AVL) system?

- EXISTING PLANNED NO

5. Does your agency have (or plan to have) security monitoring systems on-board transit vehicles?

EXISTING PLANNED NO

6. Does your agency monitor (or plan to monitor) public areas (e.g. stops, park & ride lots, stations) using sensors and surveillance equipment?

EXISTING PLANNED NO

7. Does your agency use sensors and surveillance equipment to perform security monitoring (or plan to monitor) non-public areas (e.g. transit yards or other infrastructure)?

EXISTING PLANNED NO

8. Does your agency directly or indirectly (i.e., thru another agency/) provide (or plan to provide) transit information to the public?

YES NO

If YES, please identify below the method(s) currently used or planned for provide transit information:

- Internet Web Page EXISTING PLANNED
- Pagers or Personal Data Assistants EXISTING PLANNED
- Kiosks EXISTING PLANNED
- Display/Audio in Transit Vehicles EXISTING PLANNED
- E-mail or other direct PC communications EXISTING PLANNED
- Electronic Displays/Audio Announcements at Transit Stops and Stations (includes video monitors) EXISTING PLANNED
- TV (interactive or dedicated Cable) EXISTING PLANNED
- Other _____

9. Does your agency provide (or plan to provide) real-time transit information (i.e., latest available information on transit routes, schedules, transfer options, bicycle accessibility, fares, real-time schedule adherence, etc.) at stops or parking facilities?

EXISTING PLANNED NO

10. Does your agency provide transit trip planning?

YES NO

If YES, please identify below the method(s) currently used or planned for provide the trip planning information:

- Internet EXISTING PLANNED
- E-mail or other direct PC communications EXISTING PLANNED
- Kiosks EXISTING PLANNED
- Other _____

11. Does your agency have (or plan to have) an Electronic Fare Payment System (smart card, swipe card, credit card, etc.)?

- EXISTING PLANNED NO

12. Does your transit vehicles have (or plan to have) the capability to receive priority lights at signalized intersections?

- EXISTING PLANNED NO

Additional Information / Comments

I. Commercial Vehicle Operations

1. Does your agency perform (or plan to perform) electronic credential administrative services for commercial vehicles?

- EXISTING PLANNED NO

2. Does your agency participate (or plan to participate) in roadside commercial vehicle inspection?

- EXISTING PLANNED NO

If NO, no further responses are required in this section.

3. Does your agency perform (or plan to perform) electronic screening?

EXISTING PLANNED NO

4. Does your agency exchange (or plan to exchange) safety and/or security information?

EXISTING PLANNED NO

5. Does your agency perform (or plan to perform) a high speed weigh-in-motion service?

EXISTING PLANNED NO

6. Does your agency participate (or plan to participate) in HAZMAT detection?

EXISTING PLANNED NO

If EXISTING or PLANNED, please list any handheld or roadside equipment for detection and classification of security sensitive HAZMAT on commercial vehicles, and for accessing credentials information on driver verification.

Additional Information / Comments

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