2010 Transit Management Survey

AGENCY CHARACTERISTICS

	_	_			_	
1	a. County	, where	agency	headaua	arters is	: located:

1.	b.	Other	counties	in	service	area:

T	RANSIT VEHICLE CHARACTERISTICS
2.	Total number of vehicles used in revenue service: Fixed Route Bus: Heavy or Rapid Rail: Light Rail: Paratransit: Demand Responsive: Commuter Rail: Ferry Boat:
3.	Total number of vehicles equipped with Automated Vehicle Location (AVL): Fixed Route Bus: Heavy or Rapid Rail: Light Rail: Paratransit: Demand Responsive: Commuter Rail: Ferry Boat:
4.	Total number of vehicles with real-time monitoring of vehicle components: Fixed Route Bus: Heavy or Rapid Rail: Light Rail: Paratransit: Demand Responsive: Commuter Rail: Ferry Boat:
5.	Total number of vehicles where automated dispatching or control software is available: Fixed Route Bus: Heavy or Rapid Rail: Light Rail: Paratransit: Demand Responsive: Commuter Rail: Ferry Boat:

6.	Total number of vehicles equipped with mobile data terminals: Fixed Route Bus: Heavy or Rapid Rail: Light Rail: Paratransit: Demand Responsive: Commuter Rail: Ferry Boat:
7.	Total number of vehicles that have Automatic Passenger Counters: (Do not include registering fareboxes) Fixed Route Bus: Heavy or Rapid Rail: Light Rail: Paratransit: Demand Responsive: Commuter Rail: Ferry Boat:
TR	ANSIT SIGNAL PRIORITY/PREEMPTION
8.	Number of Fixed Route Buses that have or will have traffic signal priority capability:
9.	Number of Fixed Route Buses that have or will have traffic signal pre-emption capability:
10.	Number of Light Rail vehicles that have or will have traffic signal priority capability:
11.	Number of Demand Responsive vehicles that have or will have traffic signal priority capability:
12.	Number of Paratransit vehicles that have or will have traffic signal priority capability:
13.	If your agency does not use its transit signal priority capability, please tell us why:
RA	AMP METER SIGNAL PRIORITY
14.	Number of Fixed Route Buses with ramp meter signal priority capability:
15.	Number of Demand Responsive vehicles with ramp meter signal priority capability:
16.	Number of Paratransit vehicles with ramp meter signal priority capability:
17.	If your agency does not use its ramp metering capability, please tell us why:

VEHICLES OPERATED AS VEHICLE PROBES

18. Does your agency operate any vehicles as probes to collect travel time, speed or road condition information?

No – SKIP TO Q.23

- 19. Total number of Fixed Route Buses operated as vehicle probes to collect travel time, speed, and conditions on freeways:
- 20. Total number of Fixed Route Buses operated on vehicle probes to collect travel time, speed, and conditions on arterials:
- 21. Total number of Water Craft / Ferries operated as vehicle probes to collect travel time, speed, and conditions on waterways:
- 22. Does your agency share vehicle probe data with any other agency?

Yes

Select the agencies (Check all that apply)
Freeway Management

Arterial Management

Other Transit

Other (please specify):

No

ORGANIZED REGIONAL INCIDENT MANAGEMENT PROGRAM

23. Does your agency's operators or dispatchers report traffic incidents (e.g., stalled vehicles, crashes)?

Yes

No

ELECTRONIC FARE PAYMENT

24. Vehicles / stations equipped with Magnetic Stripe Readers:

Fixed Route Buses:

Heavy or Rapid Rail Stations:

Light-Rail Stations:

Demand Responsive Vehicles:

Paratransit Vehicles:

Commuter Rail Stations:

Ferry Boat Landings:

25. Vehicle / stations equipped with Smart Card Readers (with embedded computer chip):

Fixed Route Buses:

Heavy or Rapid Rail Stations:

Light-Rail Stations:

Demand Responsive Vehicles:

Paratransit Vehicles:

Commuter Rail Stations

Ferry Boat Landings:

26. Does your agency electronically store collected fare payment data for use in route and service planning?

Yes

No

27. Which of the following capabilities are available through the electronic fare payment system deployed by your agency? (Check all that apply)

The electronic fare payment system is integrated across modes within my agency: (Check all modes that apply):

Train

Bus

Commuter Rail

Ferry

The electronic fare payment system is integrated with other transit agencies

The electronic fare payment system is integrated with parking payment systems

The electronic fare payment system is integrated with other toll collection systems in this metropolitan area (e.g.,

28. Please indicate the types of electronic fare payment system operated by your agency: (Check all that apply)

Closed loop, proprietary system

Open loop, bank card system

Other (please specify):

TRAVEL REPORTING

29. Has your agency deployed a web-based trip planner to assist travelers in making trip related decisions?

Yes

Please answer the following questions about your agency's web- based trip planner:

- a. Does this tool incorporate multiple transit systems?
- b. Does this tool incorporate modes other than transit (e.g., walking, biking, auto)?
- c. Does this tool incorporate real-time traffic condition information?

No

30. Does your agency have an agreement with a private vendor to distribute real-time transit information to travelers?

Yes

No

31. Methods used to disseminate Transit Routes, Schedules, and Fare Information to the public:

Internet

Email or alert to desktop

Email or alert to mobile device such cell phone or smart phone

511

Other (non-511) telephone systems (including customer service centers)

Dynamic Message Signs In-station

Dynamic Message Signs In-vehicle

Dynamic Message Signs At stop Kiosks

Other:

32. Methods used to disseminate Real-time Transit schedule adherence or Arrival and Departure Times to the public:

Internet

Email or alert to desktop

Email or alert to mobile device such cell phone or smart phone

511

Other (non-511) telephone systems (including customer service centers)

Dynamic Message Signs In-station

Dynamic Message Signs In-vehicle

Dynamic Message Signs At stop Kiosks

Other:

33. Total number of bus stops, rail stations, and bus depots:

Bus Stops

Rail Stations

Bus Depots

34. Total number of bus stops, rail stations, and bus depots where automated or dynamic traveler information (e.g., schedule and system information) is electronically displayed to the public:

Bus Stops

Rail Stations

Bus Depots

35. Total number of fixed route buses that electronically display automated or dynamic traveler information (e.g., schedule and system information) to the public:

SAFETY AND SECURITY

- 36. Total number of fixed route buses with audio or video surveillance to enhance security:
- 37. Total number of facilities with audio or video surveillance to enhance security:

Bus Stops

Rail Stations

Bus Depots

38. Total number of vehicles that can be remotely shut down via wireless communication:

Fixed Route Bus

Heavy or Rapid Rail

39. Does your agency use advanced video technologies to re-create crashes for accident review?

Yes

No

TRANSPORTATION DEMAND MANAGEMENT

40. Does your agency use data from technologies such as AVL/CAD systems and automatic passenger counter systems, to assist in planning?

Yes No

41. Does your agency employ automated vehicle location, combined with dispatching and reservation technologies to provide flexible routing and scheduling?

Yes No

42. Does your agency employ vehicle monitoring and communication technologies to facilitate the coordination of passenger transfers between vehicles or between transit systems (e.g., connection protection)?

Yes No

43. Does your agency provide ride sharing and carpool matching services?

Yes No

44. Does your agency operate a transportation management travel coordination center and/or participate in a brokerage service that coordinates travel requests or performs vehicle dispatching, or billing for multiple agencies (e.g., social service agencies, Health and Human Services, other transit agencies)?

Yes, operates a transportation management travel coordination center Which of the following functions does this center perform? (Check all that apply)

Coordinates travel information Performs vehicle dispatching Performs billing Other (please describe):

Yes, participates in a brokerage service No

COMMUNICATIONS TECHNOLOGY

45. What type of radio system does your agency have? (Check all that apply)

Radio system is Digital Radio system is Analog Radio system is Regular Radio system is Trunked 46. For each of the following communications updates, please indicate whether you have implemented it, whether you are planning to implement it, or whether you have no plans to implement.

	Implemented	Plan to Implement	No Plans to Implement
a. Updating your 150 or 450 MHz to a digital system?			
b. Converting to a dedicated 800 MHz system?			
c. Joining an area wide 800 MHz system?			

47.	Do ۱	you	communicate	with	public	safet	y agenci	ies?
-----	------	-----	-------------	------	--------	-------	----------	------

Yes, what methods of communication do you use? (Check all that apply)
A partner in a joint interoperable system

Have a dedicated radio channel

Other (please specify):

No, are you considering adding the capability of interoperability with public safety agencies? (Check all that apply)

Yes, by use of a communication switch (such as the ACU-1000 or other brand)

Yes, by becoming part of an area-wide interoperable system

Other (please specify):

No plans to add capability

48. Does your agency use a radio system either in range VHF 150 MHz - 174 MHz OR in range UHF 421 MHz -512 MHz?

Yes, does your agency or your agency's license holder operate under FCC license?

Yes

No

No

49. Is your agency aware of narrowbanding and rebanding requirements that will become effective January 1, 2013?

Yes

No

50. Does your system meet the FCC Narrowbanding Requirement (12.5 KHz channel capable)?

Yes

No, do you plan to assess and procure Narrowband capable equipment?

Yes

No

CORRIDOR MANAGEMENT

51. Have you identified corridors for the purpose of integrating operations across freeways, major arterials, and/or public transit services?

Yes

- a. Please describe the corridor(s):
- b. With which agencies do you coordinate operations related to the corridor?

No (GO TO QUESTION 53)

52. For each agency type listed below, please indicate whether you are currently coordinating or plan to coordinate integrated transportation operations in the corridor specified above. If yes, please provide the name of the agencies in the corridor with which your agency is coordinating (referred to as the "coordinating agencies" in this survey). Please do NOT include coordination efforts that are occurring outside the corridor. For each agency type, a-d, select only one response.

	Currently Coordinated	Future
	in Corridor	ratare
Cross jurisdictional traffic signal coordination		
Traffic incident management		
Real-time transfer of performance information		
Electronic toll tags used by other toll road operators		
Traffic responsive signal timing		
Ramp control		
Inclement weather traffic control strategies, treatments, warnings, or road closures		
Transit operations		
Planned special events		
Coordinate traffic signal operations with freeway congestion or value pricing		
Other (please specify):		

DATA COLLECTION AND ARCHIVING

53. Does your agency have an archived data management system?

Yes

No (GO TO QUESTION 58)

54. What information does your agency collect/archive in real time? (Check all that apply)

Vehicle time and location

Vehicle diagnostics and health

Passenger count

Trip itinerary planning records

Passenger information

Vehicle monitoring status

Road conditions (e.g., wet, icy, etc.)

Emergency vehicle signal preemption events

Transit vehicle signal priority events

Weather conditions (e.g., snow, fog, rain)

Incidents

Other (please specify):

Do not collect/archive data in real time

55. What information does your agency collect/archive electronically? (Check all that apply)

Route designations (snow emergency, etc.)
Current road work zones for transit
Scheduled road work zones for transit
Intermodal (air, rail, water) connections
Emergency/evacuation routes and procedures
Highway operations coordination information
Transit operations coordination information
Other (please specify):

Do not collect/archive information electronically

56. What are the data used for? (Check all that apply)

Operation planning/analysis
Construction impact determination
Capital planning/analysis
Incident detection algorithm development
Roadway impact analysis
Accident prediction models
Dissemination to the public
Traffic management
Measurement of performance
Safety analysis
Other (please specify):

57. Are any data provided to third parties so they can create transit traveler information applications?

Yes

Check all that apply:

My agency has developed data sharing boilerplate agreements

My agency places restrictions on the data provided outside the agency (please describe):

Applications have been developed by third party application developers (please describe):

No

ITS STANDARDS

58. Please check any of the following transit-related ITS standards implemented by your agency: (Check all that apply)

Contactless Fare Media System Standard (CFMS)

Traffic Management Data Dictionary (TMDD)

Message Sets for External Traffic Management Center Communications

Standards for Transit Communications Interface Profiles APTA TCIP-S-001 3.0.0

Standard for Traffic Incident Management Message Sets for Use by Emergency Management Centers IEEE 1512.1-2006

Standard for the Interface Between the Rail Subsystem and the Highway Subsystem at a Highway Rail Intersection IEEE 1570-2002

Serial Data Communications Between Microcomputer Systems in Heavy-Duty Vehicle Applications SAE J1708

Standard for ATIS Message Set Delivered Over Reduced Bandwidth Media SAE J2369

ITS In-Vehicle Message Priority SAE J2395

My agency has not implemented any of these standards

ITS FUNDING

59. Does your agency have a separate budget for ITS?

Yes

Please indicate whether you track the budget separately for each of the following categories: (Check all that apply)

ITS Deployments

ITS Operations and Maintenance

Traffic Management or Operations Center

Other (please specify):

Do not track categories separately

No

ITS PURCHASE DECISION-MAKING

60. Please rate the importance of each of the following factors to your agency's decision to purchase ITS technologies:

Factor	Not at All Important	Not Very Important	Neutral	Somewhat Important	Very Important
Price of equipment					
Public/constituent's Involvement					
Funding/grant availability					
Mobility benefits (e.g., to address congestion)					
Safety benefits					
Environmental benefits					
Integration with other agencies					
Integration with your current technologies					
TCIP compliant					
Already used by other agencies					
Price of equipment					
Other (please specify):					

61.	61. Does your agency have any plans to invest in new ITS technology or to	expand current ITS coverage in 2010
	through 2013?	

Yes
Check all that apply:
Invest in new ITS, please describe:

Expand current ITS coverage
No

BENEFITS OF TRANSIT MANAGEMENT TECHNOLOGIES

62. Based on your agency's experience, please rate the benefits of the following technologies:

	No Benefit (1)	(2)	Moderate Benefit (3)	(4)	Major Benefit (5)	No Experience
Automatic Vehicle Location						
Communications						
Traveler Information						
Data Management - GIS						
Computer Aided Dispatch and Scheduling						
Maintenance Tracking						
Electronic Fare Payment						
Security Cameras						
Weather Information System						
Automatic Passenger Counters						
Transit Signal Priority						

63. Please use the space below to provide any additional comments regarding your agency's deployment, operations or maintenance of ITS. (Please be as specific as possible when commenting on particular ITS technologies.)