FLEET CHARACTERISTICS

1. Total number of vehicles used in revenue service:
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:

2. Total number of vehicles equipped with Automated Vehicle Location (AVL):
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:

3. Total number of vehicles equipped with AVL that are operated and maintained as specified:
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:

4. Total number of vehicles with real-time monitoring of vehicle components:
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:
5. Total number of vehicles with real-time monitoring of vehicle components that are operated and maintained as specified:
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:

6. Total number of vehicles where automated dispatching or control software is available:
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:

7. Total number of vehicles where automated dispatching or control software is available that are operated and maintained as specified:
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:

**TRAFFIC SIGNAL PRIORITY**

8. Number of Fixed Route Buses that have traffic signal priority capability:

9. Number of Light rail vehicles that have traffic signal priority capability:

10. Number of Demand Responsive vehicles that have traffic signal priority capability:

11. Number of other (as specified in question 1) vehicles that have traffic signal priority capability:

**RAMP METER SIGNAL PRIORITY**

12. Number of Fixed Route Buses with ramp meter signal priority capability:

---

1 Software that displays AVL-equipped vehicle locations, vehicle data, and operator data on dispatcher monitors, automated control software for light or heavy rail systems, or automated scheduling software for demand responsive service.
13. Number of Demand Responsive vehicles with ramp meter signal priority capability:

14. Number of other (as specified in question 1) vehicles with ramp meter signal priority capability:

**VEHICLES OPERATED AS VEHICLE PROBES**

15. Total number of vehicles operated as vehicle probes on FREEWAYS:
   - Fixed Route Buses:
   - Demand Responsive:
   - Other:

16. Total number of vehicles operated as vehicle probes on ARTERIALS:
   - Fixed Route Buses:
   - Demand Responsive:
   - Other:

**ORGANIZED REGIONAL INCIDENT MANAGEMENT PROGRAM**

17. Does your agency's operators or dispatchers report traffic incidents (e.g., stalled vehicles, crashes)?
   - Yes
     - Has this reporting system had a measurable impact on customer satisfaction?
       - Yes
       - No

**ELECTRONIC FARE PAYMENT**

18. Vehicles/Stations equipped with Magnetic Stripe Readers:
   - Fixed Route Buses:
   - Heavy or Rapid Rail Stations:
   - Light-Rail Stations:
   - Demand Responsive Vehicles:
   - Commuter Rail Stations:
   - Ferry Boat Landings:

19. 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:
   - Commuter Rail Stations:
   - Ferry Boat Landings:

20. Does your agency electronically store collected fare payment data for use in route and service planning?
   - Yes
   - No
21. Does your agency use the same electronic fare payment system as another Transit agency in your metropolitan area?
   Yes
   No
   No, there are no other Transit Agencies

22. Does your agency use the same electronic fare payment system that can be used by other toll collection systems in your metropolitan area?
   Yes
   No
   No, there is no Toll Collection

ADVANCED TRAVELER INFORMATION SYSTEM (ATIS)

Please check all the methods your agency uses to disseminate information to the public:

23. Methods used to disseminate Transit Routes, Schedules, and Fare Information to the public:
   Dedicated cable TV:
   Automated telephone system:
   Internet Web sites:
   Pagers or personal data assistants:
   Interactive TV:
   Kiosks:
   E-mail or other direct PC communication:
   In-vehicle navigation systems:
   Variable Message Signs (in vehicle):
   Monitors/VMS (not in vehicles):
   Audible Enunciators:
   Facsimile:
   511 Telephone System:

24. Methods used to disseminate Real-time Transit schedule adherence or Arrival and Departure Times to the public:
   Dedicated cable TV:
   Automated telephone system:
   Internet Web sites:
   Pagers or personal data assistants:
   Interactive TV:
   Kiosks:
   E-mail or other direct PC communication:
   In-vehicle navigation systems:
   Variable Message Signs (in vehicle):
   Monitors/VMS (not in vehicles):
   Audible Enunciators:
   Facsimile:
   511 Telephone System:

25. Have the methods of information dissemination checked above had a measurable impact on customer satisfaction?
   Yes
   No
26. **Total number of facilities:**
   - Bus Stops:
   - Rail Stations:
   - Bus Depots:
   - Other:

27. **Total number of facilities that electronically display automated or dynamic traveler information (e.g., schedule and system information) to the public:**
   - Bus Stops:
   - Rail Stations:
   - Bus Depots:
   - Other:

28. **How many of these facilities are operated and maintained as specified?**
   - Bus Stops:
   - Rail Stations:
   - Bus Depots:
   - Other:

29. **Have these display of information had a measurable impact on customer satisfaction?**
   - Bus Stops:
   - Rail Stations:
   - Bus Depots:
   - Other:

30. **Total number of vehicles that electronically display automated or dynamic traveler information (e.g., schedule and system information) to the public:**
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:

31. **How many are operated and maintained as specified?**
   - Fixed Route Bus:
   - Heavy or Rapid Rail:
   - Light Rail:
   - Demand Responsive:
   - Commuter Rail:
   - Ferry Boat:
   - Other:
32. Has this display of information had a measurable impact on customer satisfaction?
   Fixed Route Bus:
   Heavy or Rapid Rail:
   Light Rail:
   Demand Responsive:
   Commuter Rail:
   Ferry Boat:
   Other:

SAFETY AND SECURITY

33. Total number of vehicles with audio or video surveillance to enhance security:
   Fixed Route Bus:
   Heavy or Rapid Rail:
   Light Rail:
   Demand Responsive:
   Commuter Rail:
   Ferry Boat:
   Other vehicles:
   Bus Stops:
   Rail Stations:
   Bus Depots:
   Other facilities:

34. Has audio and/or video surveillance at these vehicles/facilities had a measurable impact on customer satisfaction?
   Fixed Route Bus:
   Heavy or Rapid Rail:
   Light Rail:
   Demand Responsive:
   Commuter Rail:
   Ferry Boat:
   Other vehicles:
   Bus Stops:
   Rail Stations:
   Bus Depots:
   Other facilities:

35. Total number of vehicles that can be remotely shut down via wireless communication:
   Fixed Route Bus:
   Heavy or Rapid Rail:

TRANSPORTATION DEMAND MANAGEMENT

36. Did your agency perform a system engineering analysis for any ITS technologies you have deployed?
   Yes
   Did the analysis include a formal cost-benefit calculation?
     Yes
     No
   No
37. Does your agency use data from technologies such as AVL/CAD systems and automatic passenger counter systems, to assist in planning?
   Yes
   No

38. Are your systems for distributing traveler information via Internet or wireless devices operated and maintained as specified?
   Yes
   No
   Not Applicable

39. Have your systems for distributing traveler information via Internet or wireless devices had measurable impact on customer satisfaction?
   Yes
   No
   Don’t know
   Not Applicable

40. Does your agency employ automatic vehicle location, combined with dispatching and reservation technologies to provide flexible routing and scheduling?
   Yes
   No

41. Does your agency employ vehicle monitoring and communication technologies to facilitate the coordination of passenger transfers between vehicle or transit systems?
   Yes
   No

42. Does your agency provide ride sharing and carpool matching services?
   Yes
   No

ITS ARCHITECTURE AND DATA ARCHIVING

43. Is your agency involved in a formal effort to develop a regional ITS architecture?
   Yes
   What is the status of the regional ITS architecture?
   Our region has a fully developed regional ITS architecture undergoing continuing development and updating
   Our regional ITS architecture is under initial development
   How long has your agency been involved in the region’s ITS architecture development effort?
   Under 1 year
   1-2 years
   More than 2 years
   Do not know
   Not involved
   No
   Why not?
   There is no such effort underway in our region
   There is an effort underway, but we are not involved
44. Has your agency been involved in the development of ITS data archiving?
   Yes, this agency leads the effort
   Yes, as a participant
   No
   No, we are aware of it, but have not been involved
   Do not know

SYSTEM COST INFORMATION

45. Please provide the implementation year, vendor name, system cost and annual operating cost for any ITS technologies that your agency has implemented in the last 5 years

<table>
<thead>
<tr>
<th>System Category</th>
<th>Year of Implementation</th>
<th>Vendor</th>
<th>System Cost</th>
<th>Annual Operating Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Vehicle Location Systems</td>
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<tr>
<td>Real-time monitoring of Vehicle components or subsystems</td>
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<tr>
<td>Automated Dispatching or Control Software, Computer-Aided Dispatching (CAD)</td>
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<tr>
<td>Systems to use transit vehicles as probes of speed, travel time, and conditions of freeways and arterials</td>
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<tr>
<td>System for real-time reporting of incidents</td>
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<tr>
<td>Systems for collection and management of fares</td>
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<tr>
<td>Audio and Video surveillance, including related communications, storage, processing and analysis systems</td>
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<tr>
<td>Automated passenger counting systems, including communication, storage and analysis systems to make use of the information</td>
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<tr>
<td>Internet systems and services needed to support dissemination of information, including schedules, outages, automated routing, pricing</td>
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<tr>
<td>Systems to support ride sharing and carpool matching services</td>
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<tr>
<td>Other ITS systems</td>
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