

Transportation Management System (TMC) Survey

GENERAL INFORMATION

1. Center name: center_name
2. Location (address): center_location
3. Does your TMC have a website? center_url
- [1] Yes
URL: center_url_text
- [2] No
- [3=No response]
4. What is the geographical area of coverage of your TMC? (Please describe) center_coverage
5. What modes are included within the TMC? (Check all that apply) 1=Selected, 0=Not selected
- Freeways modes_freeway
- Arterials modes_arterials
- Transit modes_transit
- Public Safety modes_public
- Other (please specify): modes_other

TMC FUNCTIONS

6. Which of the following best describes the functions or services performed on FREEWAYS supported by this Transportation Management Center? (Check all that apply) 1=Selected, 0=Not selected
- Does not perform any freeway functions or services functions_freeway_do_not
- Network or roadway surveillance and data collection functions_freeway_network_surveillance
- Real-time traveler information dissemination to the public functions_freeway_traveler
- Incident management detection, verification, and monitoring functions_freeway_incident
- Incident response dispatch functions_freeway_incident_response
- Environmental monitoring (e.g., air quality, noise and weather) functions_freeway_environmental
- Planned special event traffic management functions_freeway_special
- Evacuation management and traffic coordination functions_freeway_evacuation
- Emergency services traffic control coordination functions_freeway_emergency
- Ramp management and control functions_freeway_ramp
- Lane management and control (e.g., HOV, reversible lanes) functions_freeway_lane
- Integrated Corridor Management functions_freeway_integrated
- Network performance monitoring, evaluation and reporting functions_freeway_network_performance
- Maintenance dispatch functions_freeway_maintenance
- Road weather management and/or weather-related maintenance functions_freeway_weather
- Manage work zones (coordinate lane closures, monitor WZ traffic conditions) functions_freeway_work_zones
- Other (please specify): functions_freeway_other

7. Which of the following best describes the functions or services performed on ARTERIALS supported by this Transportation Management Center? (Check all that apply)

1=Selected, 0=Not selected

- Does not perform any arterial functions or services functions_arterial_do_not
- Network or roadway surveillance and data collection functions_arterial_network_surveillance
- Real-time traveler information dissemination to the public functions_arterial_traveler
- Incident management detection, verification, and monitoring functions_arterial_incident
- Incident response dispatch functions_arterial_incident_response
- Environmental monitoring (e.g., air quality, noise and weather) functions_arterial_environmental
- Planned special event traffic management functions_arterial_special
- Evacuation management and traffic coordination functions_arterial_evacuation
- Emergency services traffic control coordination functions_arterial_emergency
- Traffic signal coordination or control functions_arterial_signal
- Lane management and control (e.g., HOV, reversible lanes) functions_arterial_lane
- Integrated Corridor Management functions_arterial_integrated
- Network performance monitoring, evaluation and reporting functions_arterial_network_performance
- Maintenance dispatch functions_arterial_maintenance
- Road weather management and/or weather-related maintenance vfunctions_arterial_weather
- Manage work zones (coordinate lane closures, monitor WZ traffic conditions) functions_arterial_work_zones
- Other (please specify): functions_arterial_other

8. Which of the following best describes the functions or services performed on PUBLIC TRANSIT supported by this Transportation Management Center? (Check all that apply)

1=Selected, 0=Not selected

- Does not perform any transit functions or services functions_transit_do_not
- Transit scheduling and dispatch functions_transit_schedule
- Other (please specify): functions_transit_other

OPERATIONS

9. Does your TMC employ any Center-to-Center communications standards?

center_to_center

[1] Yes

Which of the following standards are used? (Check all that apply)

1=Selected, 0=Not selected

- IEEE 1512 center_to_center_ieee1512
- SAE J2354 center_to_center_saej2354
- TMDD v2.01 center_to_center_tmddv201
- TMDD v3.0 center_to_center_tmddv30
- Other (please specify): center_to_center_other

[2] No

[3=No response]

10. Does this TMC have established Center-to-Center connections to other TMCs? center_to_center_other_tmc
- [1] Yes
- [2] No
- [3=No response]
11. Does this TMC have established Center-to-Center connections to private sector information disseminators? center_to_center_private
- [1] Yes
- [2] No
- [3=No response]
12. Does your TMC have an Operations Manual? operations_manual
- [1] Yes
- Does the Operations Manual contain detailed (measureable) requirements? operations_manual_detail
- [1] Yes
- [2] No
- [3=No response]
- [2] No
- [3=No response]
13. Approximately how many planned special events does your TMC manage per year? how_many_planned_special
14. Has your agency deployed a decision support system to assist in operating the following? decision_support
- [1] Yes
- Please indicate which decision support systems have been deployed. (Check all that apply) 1=Selected, 0=Not selected
- | | |
|-------------------------|------------------------------|
| Road weather management | decision_support_road |
| Incident management | decision_support_incident |
| Emergency management | decision_support_emergency |
| Evacuation | decision_support_evacuation |
| Maintenance | decision_support_maintenance |
| Other (please specify): | decision_support_other |
- [2] No
- [3=No response]
15. Is there any shared control of field devices between your TMC and other agencies? share_control
- [1] Yes
- Please indicate which devices are shared. (Check all that apply) 1=Selected, 0=Not selected
- | | |
|---------------------------------|-----------------------|
| Dynamic message signs | share_control_dms |
| Closed circuit TV | share_control_cctv |
| Traffic signals | share_control_signals |
| Lane management control devices | share_control_lane |
| Ramp meters | share_control_ramp |
| Other (please specify): | share_control_other |
- [2] No
- [3=No response]

EMERGENCY OPERATIONS

16. Does your agency participate in a regional or statewide disaster planning program?

disaster_planning_program

- [1] Yes, regional - intrastate
- [2] Yes, statewide
- [3] Yes, regional - multi-state
- [4] No
- [3=No response]

17. Does your region or state activate a designated multi-agency emergency operations center (EOC) in case of natural or man-made disasters?

- [1] Yes
- [2] No (go to question 20)
- [3=No response]

activate_eoc

18. How is the EOC integrated with your TMC? (Check all that apply)

1=Selected, 0=Not selected

The TMC facility houses the EOC

eoc_tmc_houses

Workstations are placed in the related Emergency Operations Center (EOC)

eoc_workstations

We have a formal interagency agreement with emergency management agencies covering goals, policies, and organizational roles

eoc_interagency

We have a private data network with availability limited to cooperating regional agencies

eoc_private

We have a restricted-access website for cooperating agencies

eoc_restricted

Other (please specify): eoc_other

19. If an EOC is used, how much of your TMC staff is physically located at the EOC during emergency operations?

- [1] All
- [2] Some, not all
- [3] None
- [4=No response]

staff_located

20. Which of the following approaches are used by your TMC during emergency operations to make your TMC system more reliable? (Check all that apply)

1=Selected, 0=Not selected

Backup power in center

reliable_backup_center

Backup power for some or all field devices

reliable_backup_field

Redundant data systems

reliable_redundant

Multiple data communications paths

reliable_multiple

None

reliable_none

Other (please specify): reliable_other

INTEGRATION WITH PUBLIC SAFETY

21. Does the TMC have responsibility (shared or otherwise) for emergency vehicle dispatch?

responsibility_emergency_dispatch

- [1] Yes
- [2] No
- [3=No response]

22. Are 911 facilities located within, or adjacent, to the TMC location?

located_911_facilities

[1] Yes

[2] No

[3=No response]

23. Do you integrate public safety Computer Aided Dispatch (CAD) information within the TMC through an interagency agreement?

integrate_cad

[1] Yes

What is included in the agreement? (Check all that apply)

1=Selected, 0=Not selected

Definition of what CAD information will be passed

agreement_definition

Use of common incident location identifiers

agreement_common_incident

Use of common format or an exchange format

agreement_common_format

The TMC can push data to the public safety CAD

agreement_tmc_push

[2] No

[3=No response]

24. Do you have methods other than CAD of receiving incident notifications from public safety agencies?

methods_other_cad

[1] Yes

Please describe: methods_other_cad_describe

[2] No

[3=No response]

TRAFFIC INCIDENT MANAGEMENT

25. Is the traffic incident management program integrated with the TMC?

incident_integrated_tmc

[1] Yes

Is there is an established interagency on-scene communications procedure detailed in a memorandum of understanding (MOU)?

[1] Yes

detail_mou

[2] No

[3=No response]

[2] No

[3=No response]

26. Do you have a formally recognized multi-agency Traffic Incident Management committee?

formally_recognized

[1] Yes

Check all that apply to your committee:

1=Selected, 0=Not selected

It operates with an agreement signed by multiple agencies

committee_operated

The committee has regularly scheduled meetings

committee_meetings

The scope of the committee is Regional

committee_regional

The scope of the committee is Statewide

committee_statewide

[2] No

[3=No response]

27. Does your TMC have a full time Traffic Incident Management Engineer?

full_time_engineer

[1] Yes

[2] No

[3=No response]

28. For what hours is response by on-duty Department of Transportation (DOT) personnel available?

hours_on_duty

[1] 24/7

[2] Other

Please specify: hours_on_duty_other_text

[3=No response]

29. Does your Traffic Incident Management program include safety service patrols?

safety_service_patrols

[1] Yes

Are the safety service patrol personnel trained to serve as incident responders?

safety_service_patrols_trained

[1] Yes

[2] No

[3=No response]

[2] No

[3=No response]

30. Are the DOT maintenance/operations staff trained to serve as incident responders?

dot_maintenance

[1] Yes

[2] No

[3=No response]

31. Is the Incident Command System widely used and common practice at all incident scenes?

incident_command_system

[1] Yes

[2] No

[3=No response]

32. Is a HAZMAT agency integrated into your TMCs traffic incident management program and on-scene response?

[1] Yes

hazmat_agency_integrated

Are the HAZMAT requirements, cleanup procedures, and defined process for quick clean up widely understood by responding contractors?

hazmat_requirements

[1] Yes

[2] No

[3=No response]

[2] No

[3=No response]

TMC PERFORMANCE MEASURES

33. Which of the following performance measures, if any, are tracked? (Check all that apply) 1=Selected, 0=Not selected

- Roadway clearance times performance_roadway
- Incident clearance times performance_incident
- Agency response times performance_agency
- Secondary incident times performance_secondary
- None (go to question 36) performance_none
- Other (please specify): performance_other

34. Are the Federal Highway Administration (FHWA) definitions used for the above measures? fhwa_definitions

- [1] Yes
- [2] No
- [3=No response]

35. Are performance goals for incident clearance established? goals_incident_clearance

- [1] Yes

Check the categories of incidents for which performance goals apply: 1=Selected, 0=Not selected

- Major incidents major_incident
- Moderate incidents moderate_incident
- Minor incidents minor_incident

- [2] No
- [3=No response]

INTEGRATED CORRIDOR MANAGEMENT

36. Have you identified corridor(s) for the purpose of integrating operations across multiple transportation facilities (including freeways, major arterials, and public transit networks) in order to actively manage travel demand and capacity in the corridor as a whole?

- [1] Yes icm_identified_corridors

How many corridors have been identified for integrated transportation operations? icm_identified_number_corridors

- [1] 1 corridor identified
- [2] 2 corridors identified
- [3] 3 or more corridors identified

[4=No response]

- [2] No (go to Next Section)

[3=No response]

37. The next set of questions all pertain specifically to the corridor you identified above. If you identified more than one corridor, please tell us about the corridor where the greatest level of coordination is taking place. In your responses, please do NOT include coordination efforts that are occurring outside the specific corridor you have identified.

Please name the key facilities that comprise the corridor (please be as specific as possible):

- a. Freeway(s) (e.g., US-75): icm_name_freeway
- b. Key Arterial(s) (e.g., Greenville Avenue, US-75 Frontage Roads): icm_name_arterial
- c. Public Transit Services (e.g., DART Red/Orange Light Rail Line, MTS Express Bus): icm_name_transit
- d. Other (e.g., freight, rail, bicycle, pedestrian): icm_name_other

38. Approximately how long is the corridor? icm_length

- [1] Less than 10 miles
- [2] 11-20 miles
- [3] 21-30 miles
- [4] 31-50 miles
- [5] More than 50 miles
- [6=No response]

39. 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 Coordinate in Corridor	Plan to Coordinate in Corridor	No Plans to Coordinate in Corridor	Not Applicable	Agency Names
a. Freeway agencies: icm_currently_coord_freeway	icm_plan_coord_freeway	icm_no_plans_coord_freeway	icm_coord_not_applicable_freeway	icm_coord_freeway_name
b. Arterial agencies: icm_currently_coord_arterial	icm_plan_coord_arterial	icm_no_plans_coord_arterial	icm_coord_not_applicable_arterial	icm_coord_arterial_name
c. Transit agencies: icm_currently_coord_transit	icm_plan_coord_transit	icm_no_plans_coord_transit	icm_coord_not_applicable_transit	icm_coord_transit_name
d. Other agencies (e.g., MPOs, Toll Authorities, Port Operators): icm_currently_coord_other	icm_plan_coord_other	icm_no_plans_coord_other	icm_coord_not_applicable_other	icm_coord_other_name

1=Selected, 0=Not selected

40. a. Has your agency signed any formal multi-jurisdictional or multi-agency Agreements, Memorandums of Understanding (MOUs), or other instruments with these coordinating agencies regarding the integrated operations of the corridor?

- [1] Yes, already signed icm_signed_agreements
 - [1] One instrument signed icm_yes_signed_agreements
 - [2] Multiple instruments signed
- [2] Agreements, MOUs, or instruments are being developed (plan to sign)
- [3] No, there is no plan to develop or sign Agreements, MOUs, or other instruments
- [4] Do not know
- [5=No response]

icm_describe_coverage_agreement

IF SIGNED OR PLAN TO SIGN: Please describe what is covered by the Agreements, MOUs, or instruments:

41. How are data about conditions in the corridor shared among the coordinating agencies? (Check all that apply) 1=Selected, 0=Not selected

Manual data sharing: Corridor stakeholders call, radio, fax or email relevant corridor data to one another icm_data_cond_manual

Automated sharing of real-time video data (video servers/switcher communicate directly to one another in real time to share video images through video protocols) icm_data_cond_auto_video

Automated sharing of real-time data (computers, database servers communicate directly to one another to transmit data automatically (in real time) via center-to-center protocols) icm_data_cond_auto

In general is this sharing of real-time data active or passive? (select one) icm_auto_active_passive

- [1] Active (your agency receives alerts; data is pushed to your agency)
- [2] Passive (your agency must access the data; no alerts are received)
- [3=No response]

Information Clearing House/Information Exchange Network (IEN) between corridor networks/agencies (a software system that collects, aggregates, warehouses and distributes traffic flow/transit performance data and incident/construction data for the corridor. All corridor agencies can access the agency/network information) icm_data_cond_ein

In general is this sharing of data active or passive? (select one) icm_ein_auto_passive

- [1] Active (your agency receives alerts; data is pushed to your agency)
- [2] Passive (your agency must access the data; no alerts are received)
- [3=No response]

Other (please specify): icm_data_cond_other_text

42. a. We want to understand if data is sent and/or received among the coordination agencies in the corridor. For each type of data below, please indicate if your agency receives this data from the other coordinating agencies in the corridor, collects and sends this data to the other coordinating agencies, collects but does not send this data to the other coordinating agencies, or does not collect this data. For each item, a-i, check all that apply. 1=Selected, 0=Not selected

My agency Receives	My agency Collects and Sends	My agency Collects but does not send	My agency does not collect	Not Applicable
a. Freeway incident data				
icm_receives_freeway_incident	icm_sends_freeway_incident	icm_collects_not_share_freeway_incident	icm_not_collect_freeway_incident	icm_not_applicable_freeway_incident
b. Freeway traffic volumes, speeds, or travel times				
icm_receives_freeway_traffic	icm_sends_freeway_traffic	icm_collects_not_share_freeway_traffic	icm_not_collect_freeway_traffic	icm_not_applicable_freeway_traffic
c. Arterial incident data				
icm_receives_arterial_incident	icm_sends_arterial_incident	icm_collects_not_share_arterial_incident	icm_not_collect_arterial_incident	icm_not_applicable_arterial_incident
d. Arterial traffic volumes, speeds, or travel times				
icm_receives_arterial_traffic	icm_sends_arterial_traffic	icm_collects_not_share_arterial_traffic	icm_not_collect_arterial_traffic	icm_not_applicable_arterial_traffic
e. Transit incident data				
icm_receives_transit_incident	icm_sends_transit_incident	icm_collects_not_share_transit_incident	icm_not_collect_transit_incident	icm_not_applicable_transit_incident
f. Transit vehicle location data (AVL)				
icm_receives_transit_location	icm_sends_transit_location	icm_collects_not_share_transit_location	icm_not_collect_transit_location	icm_not_applicable_transit_location
g. Transit schedule adherence data				
icm_receives_transit_schedule	icm_sends_transit_schedule	icm_collects_not_share_transit_schedule	icm_not_collect_transit_schedule	icm_not_applicable_transit_schedule
h. Transit passenger count data				
icm_receives_transit_passenger	icm_sends_transit_passenger	icm_collects_not_share_transit_passenger	icm_not_collect_transit_passenger	icm_not_applicable_transit_passenger
i. Other data (please describe):				
icm_receives_other	icm_send_rec_other_text	icm_collects_not_share_other	icm_not_collect_other	icm_not_applicable_other

b. For each type of data that is sent or received among coordinating agencies (as indicated in part a above), please indicate with what level of frequency the data is shared. For each item, a-i, select only one response. 1=Selected, 0=Not selected

	0-5 Minutes	6-15 Minutes	16-59 Minutes	60+ Minutes
a. Freeway incident data	icm_freq_5_freeway_incident	icm_freq_15_freeway_incident	icm_freq_59_freeway_incident	icm_freq_60_freeway_incident
b. Freeway traffic volumes, speeds, or travel times	icm_freq_5_freeway_traffic	icm_freq_15_freeway_traffic	icm_freq_59_freeway_traffic	icm_freq_60_freeway_traffic
c. Arterial incident data	icm_freq_5_arterial_incident	icm_freq_15_arterial_incident	icm_freq_59_arterial_incident	icm_freq_60_arterial_incident
d. Arterial traffic volumes, speeds, or travel times	icm_freq_5_arterial_traffic	icm_freq_15_arterial_traffic	icm_freq_59_arterial_traffic	icm_freq_60_arterial_traffic
e. Transit incident data	icm_freq_5_transit_incident	icm_freq_15_transit_incident	icm_freq_59_transit_incident	icm_freq_60_transit_incident
f. Transit vehicle location data (AVL)	icm_freq_5_transit_location	icm_freq_15_transit_location	icm_freq_59_transit_location	icm_freq_60_transit_location
g. Transit schedule adherence data	icm_freq_5_transit_schedule	icm_freq_15_transit_schedule	icm_freq_59_transit_schedule	icm_freq_60_transit_schedule
h. Transit passenger count data	icm_freq_5_transit_passenger	icm_freq_15_transit_passenger	icm_freq_59_transit_passenger	icm_freq_60_transit_passenger
i. Other data (described above):	icm_freq_5_other	icm_freq_15_other	icm_freq_59_other	icm_freq_60_other

43. For each of the following types of operations strategies please indicate whether your agency is currently coordinating or plans to coordinate operations with other corridor agencies across transportation facilities (i.e., freeway, arterial and transit) in order to achieve shared operations objectives. For each item, a-n, select only one response. For example, if traffic signal timing is coordinated across facilities, then signal timing on arterials is adjusted based on information about both freeway and arterial conditions.

	1=Selected, 0=Not selected	Currently Coordinate Across Facilities	Plan to Coordinate Across Facilities	No Plans to Coordinate	Not Applicable
a. Traffic incident management		icm_coord_incident_currently	icm_coord_incident_plan	icm_coord_incident_no_plans	icm_coord_incident_na
b. Freeway ramp metering		icm_coord_ramp_currently	icm_coord_ramp_plan	icm_coord_ramp_no_plans	icm_coord_ramp_na
c. Emergency management (e.g., evacuations)		icm_coord_evac_currently	icm_coord_evac_plan	icm_coord_evac_no_plans	icm_coord_evac_na
d. Cross jurisdictional traffic signal coordination		icm_coord_cross_currently	icm_coord_cross_plan	icm_coord_cross_no_plans	icm_coord_cross_na
e. Traffic responsive signal timing/coordination		icm_coord_resp_currently	icm_coord_resp_plan	icm_coord_resp_no_plans	icm_coord_resp_na
f. Transit signal priority		icm_coord_priority_currently	icm_coord_priority_plan	icm_coord_priority_no_plans	icm_coord_priority_na
g. Physical bus priority (e.g. bus-on-shoulder)		icm_coord_bus_currently	icm_coord_bus_plan	icm_coord_bus_no_plans	icm_coord_bus_na
h. Demand-sensitive transit capacity increases (e.g., add cars/routes)		icm_coord_demand_currently	icm_coord_demand_plan	icm_coord_demand_no_plans	icm_coord_demand_na
i. Real-time parking availability information (e.g., at transit stations)		icm_coord_realtime_currently	icm_coord_realtime_plan	icm_coord_realtime_no_plans	icm_coord_realtime_na
j. Road weather management		icm_coord_weather_currently	icm_coord_weather_plan	icm_coord_weather_no_plans	icm_coord_weather_na
k. Planned special events		icm_coord_special_currently	icm_coord_special_plan	icm_coord_special_no_plans	icm_coord_special_na
l. Real-time traveler information delivered pre-trip		icm_coord_pretrip_currently	icm_coord_pretrip_plan	icm_coord_pretrip_no_plans	icm_coord_pretrip_na
m. Real-time information delivered en-route (e.g., Dynamic Message Signs)		icm_coord_enroute_currently	icm_coord_enroute_plan	icm_coord_enroute_no_plans	icm_coord_enroute_na
n. Electronic multimodal payment systems		icm_coord_multimodal_currently	icm_coord_multimodal_plan	icm_coord_multimodal_no_plan	icm_coord_multimodal_na
o. Other (please specify):		icm_coord_otherText	icm_coord_other_plan	icm_coord_other_no_plans	icm_coord_other_na

44. How would you describe the institutional coordination among the corridor stakeholders? Please select one response from the following scale, which ranges from less formal institutional coordination (1) to more formal institutional coordination (5).

- [1] 1 (Less Formal) - Ad hoc coordination; no regular meetings; corridor stakeholders address near-term issues only
- [2] 2 - Informal working groups; regular meetings among corridor stakeholders
- [3] 3 - Formally established working groups; assigned responsibilities for Integrated Corridor Management
- [4] 4 - Funded staff person(s) and well defined responsibilities for Integrated Corridor Management
- [5] 5 (More Formal) - Legal entity with dedicated resources and a governing board

[6=No response]

icm_inst_coord

45. Have the coordinating agencies in the corridor developed any of the following Integrated Corridor Management (ICM) documents for the corridor? For each item, a-d, select only one response.

1=Selected, 0=Not selected	Document Completed	Currently Developing	Plan to Develop Next 2-3 Years	No Immediate Plans to Develop	Do Not Know
a. ICM Concept of Operations (ConOps)	icm_ICM_doc_ConOps_Complete	icm_ICM_doc_ConOps_Developing	icm_ICM_doc_ConOps_Plans	icm_ICM_doc_ConOps_NoPlan	icm_ICM_doc_ConOps_DontKnow
b. ICM System Requirements Specifications (SyRS)	icm_ICM_doc_SyRS_Complete	icm_ICM_doc_SyRS_Developing	icm_ICM_doc_SyRS_Plans	icm_ICM_doc_SyRS_NoPlan	icm_ICM_doc_SyRS_DontKnow
c. ICM Analysis Modeling and Simulation (AMS) Plan	icm_ICM_doc_AMS_Complete	icm_ICM_doc_AMS_Developing	icm_ICM_doc_AMS_Plans	icm_ICM_doc_AMS_NoPlan	icm_ICM_doc_AMS_DontKnow
d. ICM Implementation Plan	icm_ICM_doc_Plan_Complete	icm_ICM_doc_Plan_Developing	icm_ICM_doc_Plan_Plans	icm_ICM_doc_Plan_NoPlan	icm_ICM_doc_Plan_DontKnow

46. Have the coordinating agencies in the corridor developed a documented set of response plans or strategies, in any level of detail, that are based on shared operational objectives and that are designed to optimize performance in the corridor as a whole (e.g., across transportation facilities/modes) during conditions of both recurring and non-recurring congestion? In your response, please do not include response plans developed for emergency situations, such as evacuations.

- [1] Response plans or strategies have been developed for day-to-day operations during conditions of both recurring and non-recurring congestion
- [2] Response plans or strategies are currently being developed
- [3] There are plans to develop response plans or strategies
- [4] There are no plans to develop response plans or strategies (skip to last question for additional comments)
- [5] Do not know

[6=No response]

icm_response_plans

47. Has your agency deployed or does it plan to deploy a Decision Support System (DSS) to assist in the integrated operations of the Corridor?

NOTE: A DSS is a subsystem that utilizes measurements of real-time corridor conditions to recommend coordinated response plans to all corridor agencies. The DSS continues to update its recommendation based on corridor measurements showing changing corridor conditions.

- [1] Yes, deployed
- [2] Plan to deploy
- [3] No (no plans to deploy)
- [4] Do not know

[5=No response]

icm_decision_support_system

48. Have the coordinating agencies identified corridor-level/multimodal performance measures (e.g., person throughput, average travel time, average travel speed, etc.) that will be used to measure the effectiveness of the strategies and response plans that are implemented in the corridor?

icm_identified_perf_measures

- [1] Yes, corridor-level/multimodal performance measures identified
- [2] Agency plans to identify corridor-level/multimodal performance measures
- [3] No plans to identify corridor-level/multimodal performance measures
- [4] Do not know

[5=No response]

49. Additional comments about the integration and coordination of operations in the corridor:

icm_additional_comments

ADDITIONAL COMMENTS

50. 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.)

additional_comments