

Metropolitan Intelligent Transportation Systems (ITS)
Infrastructure 2010 Transportation Management Center

Instructions

This questionnaire is designed to obtain data measuring the level of Intelligent Transportation System (ITS) implemented by TMCs across the nation. The results of this survey will be used to establish the extent of ITS deployment, to track deployment progress, and to report deployment status to Congress and other interested bodies.

Your participation is very important to ensuring a complete and accurate tracking of ITS deployment in the United States. Thank you for your assistance with this survey effort. Your cooperation is greatly appreciated.

General Information

1. Center name:

center_name

2. Location (address):

center_location

3. Does your TMC have a website? **center_url** 1 = Yes, 2 = No, 3 = No Response

Yes, URL: **center_url_text**

No

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)

Freeways **modes_freeway**

Arterials **modes_arterials**

Transit **modes_transit**

Public Safety **modes_public**

Other (please specify): **modes_other**

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

Yes, please describe the corridor(s):

coridors 1 = Yes, 2 = No, 3 = No Response

coridors_describe

No

TMC Functions

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

- | | |
|--|--|
| <input type="checkbox"/> Do not perform any freeway functions or services | functions_freeway_do_not |
| <input type="checkbox"/> Network or roadway surveillance and data collection | functions_freeway_network_surveillance |
| <input type="checkbox"/> Traveler information dissemination to the public | functions_freeway_traveler |
| <input type="checkbox"/> Incident management detection, verification, and monitoring | functions_freeway_incident |
| <input type="checkbox"/> Incident response dispatch | functions_freeway_incident_response |
| <input type="checkbox"/> Environmental monitoring (e.g., air quality, noise and weather) | functions_freeway_environmental |
| <input type="checkbox"/> Special event traffic management | functions_freeway_special |
| <input type="checkbox"/> Evacuation management and traffic coordination | functions_freeway_evacuation |
| <input type="checkbox"/> Emergency services traffic control coordination | functions_freeway_emergency |
| <input type="checkbox"/> Ramp management and control | functions_freeway_ramp |
| <input type="checkbox"/> Lane management and control (e.g., HOV, reversible lanes) | functions_freeway_lane |
| <input type="checkbox"/> Integrated Corridor Management | functions_freeway_integrated |
| <input type="checkbox"/> Network performance monitoring, evaluation and reporting | functions_freeway_network_performance |
| <input type="checkbox"/> Maintenance dispatch | functions_freeway_maintenance |
| <input type="checkbox"/> Snow and ice removal | functions_freeway_snow |
| <input type="checkbox"/> Planned special events | functions_freeway_planned |
| <input type="checkbox"/> Manage work zones (coordinate lane closures, monitor WZ traffic conditions) | functions_freeway_work_zones |
| <input type="checkbox"/> Other (please specify): | functions_freeway_other |

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

- | | |
|--|---|
| <input type="checkbox"/> Do not perform any arterial functions or services | functions_arterial_do_not |
| <input type="checkbox"/> Network or roadway surveillance and data collection | functions_arterial_network_surveillance |
| <input type="checkbox"/> Traveler information dissemination to the public | functions_arterial_traveler |
| <input type="checkbox"/> Incident management detection, verification, and monitoring | functions_arterial_incident |
| <input type="checkbox"/> Incident response dispatch | functions_arterial_incident_response |
| <input type="checkbox"/> Environmental monitoring (e.g., air quality, noise and weather) | functions_arterial_environmental |
| <input type="checkbox"/> Special event traffic management | functions_arterial_special |
| <input type="checkbox"/> Evacuation management and traffic coordination | functions_arterial_evacuation |
| <input type="checkbox"/> Emergency services traffic control coordination | functions_arterial_emergency |
| <input type="checkbox"/> Traffic signal coordination or control | functions_arterial_signal |
| <input type="checkbox"/> Lane management and control (e.g., HOV, reversible lanes) | functions_arterial_lane |
| <input type="checkbox"/> Integrated Corridor Management | functions_arterial_integrated |
| <input type="checkbox"/> Network performance monitoring, evaluation and reporting | functions_arterial_network_performance |
| <input type="checkbox"/> Maintenance dispatch | functions_arterial_maintenance |
| <input type="checkbox"/> Snow and ice removal | functions_arterial_snow |
| <input type="checkbox"/> Planned special events | functions_arterial_planned |
| <input type="checkbox"/> Manage work zones (coordinate lane closures, monitor WZ traffic conditions) | functions_arterial_work_zones |
| <input type="checkbox"/> Other (please specify): | functions_arterial_other |

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

- Do 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

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

- Yes, check all that apply: `center_to_center` 1 = Yes, 2 = No,3 = No Response
 - 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`

No

11. Does this TMC have established Center-to-Center connections to other TMCs?

- Yes `center_to_center_other_tmc` 1 = Yes, 2 = No,3 = No Response
- No

12. Does this TMC have established Center-to-Center connections to private sector information disseminators?

- Yes `center_to_center_private` 1 = Yes, 2 = No,3 = No Response
- No

13. Does your TMC have an Operations Manual?

- Yes, does the Operations Manual contain detailed (measureable) requirements? `operations_manual` 1 = Yes, 2 = No,3 = No Response
 - Yes
 - No `operations_manual_detail` 1 = Yes, 2 = No,3 = No Response

No

14. Approximately how many planned special events does your TMC manage per year? `how_many_planned_special`

15. Has your agency deployed a decision support system to assist in operating the following?

- Yes (check all that apply): `decision_support` 1 = Yes, 2 = No,3 = No Response
 - Corridors `decision_support_corridors`
 - 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`

No

16. Is there any shared control of field devices between your TMC and other agencies?

- Yes, please specify agencies:
`share_control` 1 = Yes, 2 = No,3 = No Response
`share_control_agencies`

No

Emergency Operations

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

- Yes, regional - intrastate 1
 Yes, statewide 2
 Yes, regional - multi-state 3
 No 4
- disaster_planning_program 5 = No Response

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

- Yes activate_eoc 1 = Yes, 2 = No, 3 = No Response
 No -- GO TO Q. 21

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

- 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

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

- All 1
 Some, not all 2
 None 3
- staff_located 4 = No Response

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

- 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
 Other (please specify): reliable_other
 None reliable_none

Integration with Public Safety

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

- Yes responsibility_emergency_dispatch 1 = Yes, 2 = No, 3 = No Response
 No

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

- Yes located_911_facilities 1 = Yes, 2 = No, 3 = No Response
 No

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

integrate_cad 1 = Yes, 2 = No,3 = No Response

Yes, what is included in the agreement? (Check all that apply)

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

No

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

Yes, please describe: methods_other_cad 1 = Yes, 2 = No,3 = No Response

No methods_other_cad_describe

Traffic Incident Management

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

Yes, check all that apply to your committee: formally_recognized 1 = Yes, 2 = No,3 = No Response

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

No

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

Yes full_time_engineer 1 = Yes, 2 = No,3 = No Response

No

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

24/7 hours_on_duty 1 = 24/7, 2 = Other,3 = No

Other (please specify): hours_on_duty_other_text

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

Yes, are the safety service patrol personnel trained to serve as incident responders? safety_service_patrols

Yes 1 = Yes, 2 = No,3 = No Response

No safety_service_patrols_trained 1 = Yes, 2 = No,3 = No Response

No

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

Yes dot_maintenance 1 = Yes, 2 = No,3 = No Response

No

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

Yes incident_command_center 1 = Yes, 2 = No,3 = No Response

No

38. Does your TMC have a separate budget for ITS?

- Yes, which of the following budget categories, if any, are tracked separately? (Check all that apply) 1 = Yes, 2 = No, 3 = No Response
- ITS Deployments separate_its_budget_deployments
 - ITS Operations and Maintenance separate_its_budget_operations
 - Traffic Management or Operations Center separate_its_budget_tmc
 - Other (please specify): separate_its_budget_other
 - Do not track categories separately separate_its_budget_do_not
- No

Additional comments

39. 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