Stakeholder Survey

Intelligent Transportation Systems (ITS) are one of the tools that transportation agencies, organizations, and operators can use to improve the operations, management, and performance of the transportation network in Illinois. As a key transportation stakeholder we are seeking to gather information from you concerning:

- the functions or activities that your agency performs
- the systems that your agency currently operates or plans to operate
- the information shared or exchanged between your agency and other agencies

Please complete and return the attached survey to provide key information on transportation needs, issues, and services in your organization and your region, as well as your views on the current and anticipated use of transportation technologies to address these needs. Your answers to the survey questions should be based on your knowledge and experience to minimize the need for additional digging and research. The survey is designed to take 30 minutes or less to complete. Your input is critical to effectively guide and support the successful development and implementation of ITS initiatives in your region and throughout Illinois.

This survey is organized into topical areas: Top Issues/Services, Your Organization/Agency, Traveler Information, Roadway Operations, Transit Operations, Incident/Emergency Management, and Commercial Vehicle Operations. Please complete the sections that you feel apply to your organization or agency. The information you provide will help to develop a framework (blueprint) for organizing, planning, designing, deploying, and operating ITS projects, systems, strategies, and services. The framework will guide the future direction of integrated transportation systems. This survey will also help the Illinois Department of Transportation (IDOT) update earlier inventories of ITS facilities and provide critical data for the development of the Plan.

IDOT has contracted with the consulting team of Edwards and Kelcey (EK), Trichord, URS, and Wilson Consulting to develop the Statewide ITS Strategic Plan and Architecture for Illinois. If you have any questions, please feel free to contact either Scott Lee, IDOT Project Manager, at (847) 705-4800, or Matt Letourneau, EK Project Engineer, at (312) 251-3000. For more information about this study, please refer to the project website: www.ilits.org.

Please fax this completed questionnaire to Matt Letourneau of Edwards and Kelcey at (312) 251-3015 no later than:

Friday, July 16, 2004

Please note that space has been provided at the end of the Your Organization/Agency questions for you to provide additional information and/or comments.

Thank you in advance for your time and cooperation in this important initiative.
Before completing this survey, please provide the following information:

Name: ____________________________________________________________________
Title: ___________________________________________________________________
Organization: __________________________________________________________________
Address: __________________________________________________________________
Phone: ___________________________________________________________________
Fax: ___________________________________________________________________
E-mail: ___________________________________________________________________

Definitions

Traffic Incident/Emergency Management
A system that enables responders to quickly identify crashes/breakdowns and ensure agency coordination so that the closest available and most appropriate emergency unit can be dispatched to minimize clean-up and medical response time.

Freeway Management
Freeway management systems provide information to motorists, detect problems for increased capacity and flow, and minimize congestion from crashes.

Arterial (Non-Freeway) Traffic Management
Systems that monitor traffic flow on arterial street and non-freeway rural roadway systems, provide information to the traveling public, and implement signal timing plans in order to optimize the progression of traffic, including railroad crossing coordination.

Public Transportation Management
Systems that allow new ways of electronic monitoring and management of transit fleets and parking facilities through advanced locating devices and public information systems.

Commercial Vehicle Operations
Systems that support administrative functions for commercial vehicle operations, including credentialing, taxing, and enforcement of safety regulations, as well as oversize/overweight and HAZMAT permitting and detection.

Transportation Security
Systems that detect, respond to, and recover from threats against the surface transportation system and infrastructure.
Top Issues/Services

1. Please identify the top issues related to the local transportation network by ranking the items below from 1 to 12 with 1 being the most critical issue.

   ___ Unfamiliar Users
   ___ Road Construction
   ___ Emergency Inter-Agency Coordination
   ___ Transit Facilities
   ___ Weather Condition Info
   ___ Transportation Security
   ___ Other ________________________________
   ___ Commercial Vehicle Operations
   ___ Special Event Traffic Management, i.e. Tourism
   ___ Emergency Response Time
   ___ Road Condition Info – Traveler
   ___ Urban Congestion/Signal Operations

2. Please identify the top services for mitigating the most critical transportation issues identified above. Rank the items below from 1 to 10 with 1 being the most critical service.

   ___ HAZMAT Incident Response
   ___ Emergency Vehicle Management
   ___ Highway-Rail Intersection Enhancements
   ___ Traffic Control Enhancements (e.g., Communications, Pre-emption)
   ___ Incident Management
   ___ Pre-trip Traveler Information
   ___ Commercial Vehicle Operations
   ___ En-Route Driver Information
   ___ Public Transportation Operations
   ___ Other ________________________________
Your Organization/Agency

1. What are the primary goals and objectives of your organization or agency as it relates to the transportation network?

________________________________________________________________________________________________________________________
________________________________________________________________________________________________________________________
________________________________________________________________________________________________________________________

2. Is your organization or agency currently carrying out any major projects, including but not limited to operations center construction, highway improvements, vehicle procurement, communications infrastructure, etc.

   YES       NO

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

________________________________________________________________________________________________________________________
________________________________________________________________________________________________________________________
________________________________________________________________________________________________________________________

3. Within the next ten years, is your organization or agency planning or has funding been programmed for any major projects, including but not limited to operations center construction, highway improvements, vehicle procurement, communications infrastructure, etc.

   YES       NO

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

________________________________________________________________________________________________________________________
________________________________________________________________________________________________________________________
________________________________________________________________________________________________________________________
4. Does your organization or agency exchange voice or data information (such as by telephone or fax) with any of the following types of organizations/agencies? Please circle all that apply and list the appropriate organizations/agencies by name.

Incident/Emergency

Freeway

Public Transportation

Arterial or Non-Freeway

Commercial Vehicle

Traveler Information

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

Incident/Emergency

Freeway

Public Transportation

Arterial or Non-Freeway

Commercial Vehicle

Traveler Information
6. Please list any current partnerships, agreements, or memoranda of understanding that your organization or agency has in place with any other organizations/agencies (e.g., maintenance of traffic signals, data sharing, media agreements).

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

7. Does your organization or agency have (or plan to have) a vehicle fleet?

YES       NO       PLANNED

If NO, skip to question #11.

If YES:
   How many vehicles?       ________
   What is the primary function?    ______________________________
   Secondary function? ________

8. Does your organization or agency provide (or plan to provide) maintenance of the vehicles in your fleet?

YES       NO       PLANNED

9. Does your organization or agency use (or plan to use) vehicle maintenance scheduling software to manage both routine and corrective maintenance activities on vehicles?

YES       NO       PLANNED

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

YES       NO       PLANNED

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

YES       NO
If NO, skip to question # 13.

If YES, what are the hours of operation? ___________________

If YES, how do your dispatchers communicate with the vehicle operators?
______________________________________________________________________________________

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

YES  NO  PLANNED

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

YES  NO

If YES, what types of information are GIS used for?
______________________________________________________________________________________

14. What type of radio communications system, if any, does your organization or agency currently operate?
______________________________________________________________________________________

15. Who in your organization or agency oversees your communications systems?
______________________________________________________________________________________

16. Based on your understanding of technology in transportation, what opportunities do you see for the application of ITS technologies in your area?
______________________________________________________________________________________
______________________________________________________________________________________
______________________________________________________________________________________
______________________________________________________________________________________
Additional Information / Comments

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Traveler Information

1. Does your organization or agency receive (or plan to receive) information from the National Weather Service?
   
   YES     NO     PLANNED

2. Does your organization or agency receive (or plan to receive) surface transportation specific weather information from a private weather information service?
   
   YES     NO     PLANNED

3. Does your organization or agency use (or plan to use) any of the following real-time traffic data collection technologies?
   
   VEHICLE DETECTORS
   VIDEO DETECTION
   VEHICLE PROBE READERS
   SURVEILLANCE CAMERAS
   ROAD WEATHER INFORMATION SYSTEMS
   OVERHEIGHT VEHICLE DETECTION
   OTHER ____________________________

4. Does your organization or agency process and store (or plan to process and store) collected traffic data for use in operations or for dissemination to the traveling public?
   
   YES     NO     PLANNED
5. Does your organization or agency disseminate (or plan to disseminate) traffic, transit, or weather condition information in any of the following ways?

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV/RADIO</td>
<td>DYNAMIC MESSAGE SIGNS</td>
</tr>
<tr>
<td>INTERNET</td>
<td>PAGERS or PDAs</td>
</tr>
<tr>
<td>KIOSKS</td>
<td>E-MAIL</td>
</tr>
<tr>
<td>HIGHWAY ADVISORY RADIO</td>
<td>ROUTE GUIDANCE</td>
</tr>
<tr>
<td>511 OR OTHER TELEPHONE</td>
<td>PERSONALIZED TRAFFIC INFO</td>
</tr>
<tr>
<td>OTHER</td>
<td></td>
</tr>
</tbody>
</table>

6. Do you feel that your organization or agency collects transportation information that could be included in a statewide traveler information outlet, like an Internet website or 511 Traveler Info?

   YES       NO

If YES, please describe the information below.

_____________________________________________________________________________________________________
_____________________________________________________________________________________________________
_____________________________________________________________________________________________________
Roadway Operations

1. Does your organization or agency use (or plan to use) environmental data or information to detect environmental hazards such as icy road conditions, high winds, or dense fog?

   YES  NO  PLANNED

   If YES, at how many locations? _____

2. Does your organization or agency detect and verify (or plan to detect and verify) traffic incidents?

   YES  NO  PLANNED

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

   YES  NO  PLANNED

   If NO, skip to question # 5.

   If YES, how many intersections? _____

   If YES, do any of your signalized intersections have:

   SIGNAL PRE-EMPTION  CLOSED LOOP OPERATION
   TRANSIT PRIORITY  ADAPTIVE TRAFFIC CONTROL
   WIRELESS COMMUNICATIONS  OTHER ______________________

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

   YES  NO  PLANNED

   If YES, how many intersections? _____
5. Does your organization or agency monitor highway-rail intersections with any of the following technologies?

VEHICLE DETECTORS

VIDEO DETECTION

TRAIN ARRIVAL PREDICTION

ELECTRONIC TRAFFIC VIOLATOR DEVICES

OTHER ______________________________

6. Does your organization or agency operate (or plan to add) lane control devices (e.g., changeable overhead directional arrows) on the freeways?

YES    NO    PLANNED

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

YES    NO    PLANNED

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

YES    NO    PLANNED

9. Does your organization or agency perform (or plan to perform) winter maintenance activities?

YES    NO    PLANNED

10. Does your organization or agency have (or plan to have) any roadway deicing systems?

YES    NO    PLANNED
11. Does your organization or 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      CLOSED CIRCUIT TELEVISION

VEHICLE SPEED MONITORING    WORK ZONE INTRUSIONS

OTHER ____________________________
Transit Operations

1. What types of transit services does your organization or agency operate?
   
   FIXED ROUTE  DEMAND RESPONSIVE (PARATRANSIT)
   
   RAIL  OTHER _____________________________

2. Does your organization or agency provide (or plan to provide) dynamic transit information at stops or parking facilities?
   
   YES  NO  PLANNED

3. Does your organization or agency have (or plan to have) security monitoring systems on-board transit vehicles?
   
   YES  NO  PLANNED

4. Does your organization or agency perform security monitoring (or plan to monitor) non-public areas (e.g. transit yards or other infrastructure)?
   
   YES  NO  PLANNED

5. Does your organization or agency provide transit trip planning in any of the following ways?
   
   INTERNET  E-MAIL
   
   KIOSKS  OTHER _____________________________

6. Does your organization or agency have (or plan to have) an Electronic Fare Payment System (smart card, swipe card, credit card, etc.)?
   
   YES  NO  PLANNED
Incident/Emergency Management

1. Does your organization or agency use (or plan to use) mobile data terminals (MDT)?

   YES  NO  PLANNED

2. Does your organization or agency use (or plan to use) emergency vehicle pre-emption at any signalized intersections?

   YES  NO  PLANNED

3. Does your organization or agency participate (or plan to participate) in any kind of incident management program or coordination activities (such as major incident debriefing, tabletop exercises, etc.)?

   YES  NO  PLANNED

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

   YES  NO  PLANNED

5. Does your organization or 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?

   YES  NO  PLANNED

6. Does your organization or agency use (or plan to use) driver and traveler information systems 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?

   YES  NO  PLANNED
7. Does your organization or agency monitor (or plan 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?

YES  NO  PLANNED

8. Does your organization or 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?

YES  NO  PLANNED

9. Does your organization or 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?

YES  NO  PLANNED

10. Does your organization or 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?

YES  NO  PLANNED
Commercial Vehicle Operations

1. Does your organization or agency perform (or plan to perform) electronic credential administrative services for commercial vehicles?
   
   YES   NO   PLANNED

2. Does your organization or agency participate (or plan to participate) in roadside commercial vehicle inspection?
   
   YES   NO   PLANNED

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

3. Does your organization or agency perform (or plan to perform) electronic screening?
   
   YES   NO   PLANNED

4. Does your organization or agency exchange (or plan to exchange) safety and/or security information?
   
   YES   NO   PLANNED

5. Does your organization or agency participate (or plan to participate) in high speed weigh-in-motion services?
   
   YES   NO   PLANNED

6. Does your organization or agency participate (or plan to participate) in HAZMAT detection?
   
   YES   NO   PLANNED