

About Kansas Department of Transportation (KDOT) Intelligent Transportation System (ITS)



What is an Intelligent Transportation System (ITS)?

- ITS is the application of advanced sensor, computer, electronics, and communications technologies and management strategies – in an integrated manner – to provide traveler information and to increase the safety and efficiency of the surface transportation system.
- ITS helps keep traffic moving smoothly, so it also helps reduce air pollution, fuel consumption and vehicle wear.

What is an Advanced Travel Information System (ATIS)?

- ATIS is an integrated extension of ITS that disseminates information, both broadcast and personalized, from the ITS infrastructure to the public via telephones, websites, vehicles, dynamic message signs, highway advisory radios and other devices.

What are some of KDOT's ITS and ATIS projects and programs?

- **KDOT Virtual Traffic Management Center:** KDOT has installed approximately 30 cameras and 30 electronic message signs along I-70 and in other rural regions of the state. This system is operated from KDOT's district offices and the Eisenhower State Office Building in Topeka and is coordinated with KC Scout and the Missouri I-70 corridor. It is aimed at informing Kansas motorists of traffic conditions including road closures, accidents, work zones and other emergency information that may affect their trips. The message signs also display Kansas Amber Alerts and safety-related messages.
- **Kansas City Scout (KC Scout)** operates in the Kansas City metro area and is co-owned by KDOT and the Missouri Department of Transportation. It includes a Traffic Management Center that uses, among other things, loop/radar detectors, traffic cameras and dynamic message signs to inform drivers about travel times, safety messages, congestion or incidents on certain freeways in the metropolitan area. KC Scout has a website and offers Web alerts for travelers.
- **Wichita Traffic Management Center** will be similar to KC Scout and will be operational within two years. It will include loop/radar detectors, traffic cameras and dynamic message signs to inform drivers about travel times, safety messages and congestion, and will have a website.
- **Advanced Traveler Information System (ATIS)**
 - **511 Phone** - The 511 phone system provides automated, near-real-time, route-specific road conditions, construction detours, and travel weather (both current and forecasted) information for interstate, U.S., or state highways in Kansas and the Kansas Turnpike. Travelers can also request information for Nebraska state highways (the only neighboring state with 511).



- **511 Mobile** - The 511 mobile service (<http://511mm.ksdot.org>) provides a list of closed roads and driving conditions on the state highway system as well as map, camera and message sign views and links to weather.
- **Web information** - www.KanDrive.org is an online information gateway that provides a multitude of traveler information. It includes links to the 511 map (<http://511.ksdot.org>) that displays road conditions, road closures, work zones, camera images, and message sign views. There are also links to weather sites and other traveler information Web sites, such as surrounding states and more.
- **Wi-Fi/Kiosks** - Wi-Fi connections at selected rest areas connect travelers to the digital world so they can surf the Internet, locate hotels, find tourist information and send e-mails. Wi-Fi/Kiosks are planned for additional rest areas and state parks to provide travelers with travel information for Kansas and all surrounding states, including road conditions, work zone and weather information, tourism, Amber Alerts, emergency information and more.