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Lake County
 Division of Transportation

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 Radio 1620 AM

Lake County
PASSAGE

intelligent
 transportation
 system



-  Lake County
Division of Transportation
-  Illinois Department
of Transportation
-  Illinois Tollway
-  U.S. Department of Transportation
Federal Highway Administration

Partners in Intelligent Transportation
 Fast, intelligent and coordinated response takes the cooperation and shared resources of many agencies and individuals. Thanks to our partners, the Federal Highway Administration, the Illinois Department of Transportation, and the Illinois Tollway, for helping to make PASSAGE a reality.

Lake County
PASSAGE

PASSAGE

is Lake County's
Intelligent Transportation System

Congestion...It's been named the number one frustration with our roadway network in Lake County. Effectively addressing the congestion issue means not only adding new lanes to the highway system, it also means finding ways to make the roads we have work better. Combining communications strategies and technology to accomplish this is known as Intelligent Transportation Systems, or ITS. Lake County's intelligent transportation system has been named Lake County **PASSAGE**.

collected and processed from this signal network is monitored and adjusted by traffic technicians at the Transportation Management Center (TMC) to improve travel times through the entire corridor. The second phase of the **PASSAGE** program expands the network of linked corridors to include more state- and county-owned signals. Later, the addition of municipally-owned signals to the network provides even wider coverage.

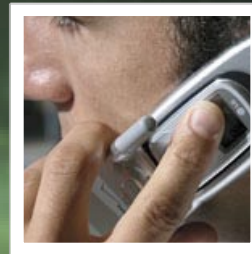
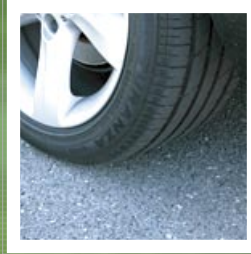
But **PASSAGE** is about much more than linking traffic signals. Information collected in the field by vehicle sensors, traffic detecting cameras, highway maintenance and construction personnel, emergency responders and others is analyzed by Advanced Traffic Management System (ATMS) software, which also recommends and helps implement action plans in response. Ultimately, the ATMS will communicate traffic conditions back to highway users in the form of web sites, highway advisory radio broadcasts, and variable message signs. In addition to providing critical information to traffic and maintenance workers, Lake County **PASSAGE** gives motorists the opportunity to make better-informed travel decisions and choose alternatives to congested roads.

PASSAGE benefits

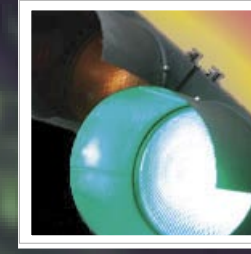
- **Improved signal system coordination... get more greens**
- **Real time traffic monitoring... better information sooner**
- **More effective event management... correct problems now**

Lake County **PASSAGE** is unique because it is one of the first programs in the country to implement ITS at the arterial and collector road network level. Initially, a network of interconnected signals is created by linking existing state- and county-owned traffic signals at intersections along several busy travel corridors. Traffic information

vehicle sensors collect data to determine travel times and speeds



public input about roadway conditions or equipment malfunctions



smarter traffic signals monitor conditions and can be modified on the fly to address both routine and special circumstances



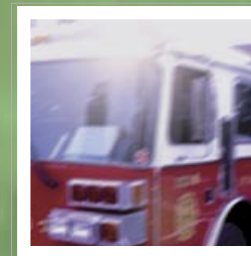
maintenance crews are dispatched faster to correct equipment malfunctions and address roadway hazards



24/7 traffic information is available to the media, the Internet, and other portable devices



highway advisory radio broadcasts current traffic and construction conditions on 1620 AM



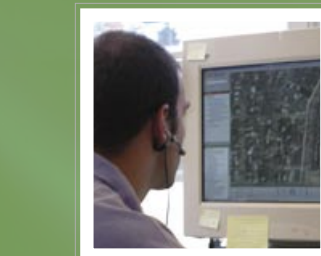
emergency responders get more complete emergency information and priority at intersections on response routes



dynamic message signs give drivers congestion information



traffic monitoring cameras provide data to **PASSAGE** controllers



911 center computers in many communities provide incident information to **PASSAGE** for notification and alternate routing



bus priority by traffic signals through onboard computers

data exchange with other regional traffic centers



The **PASSAGE** program integrates traffic system information from many places...

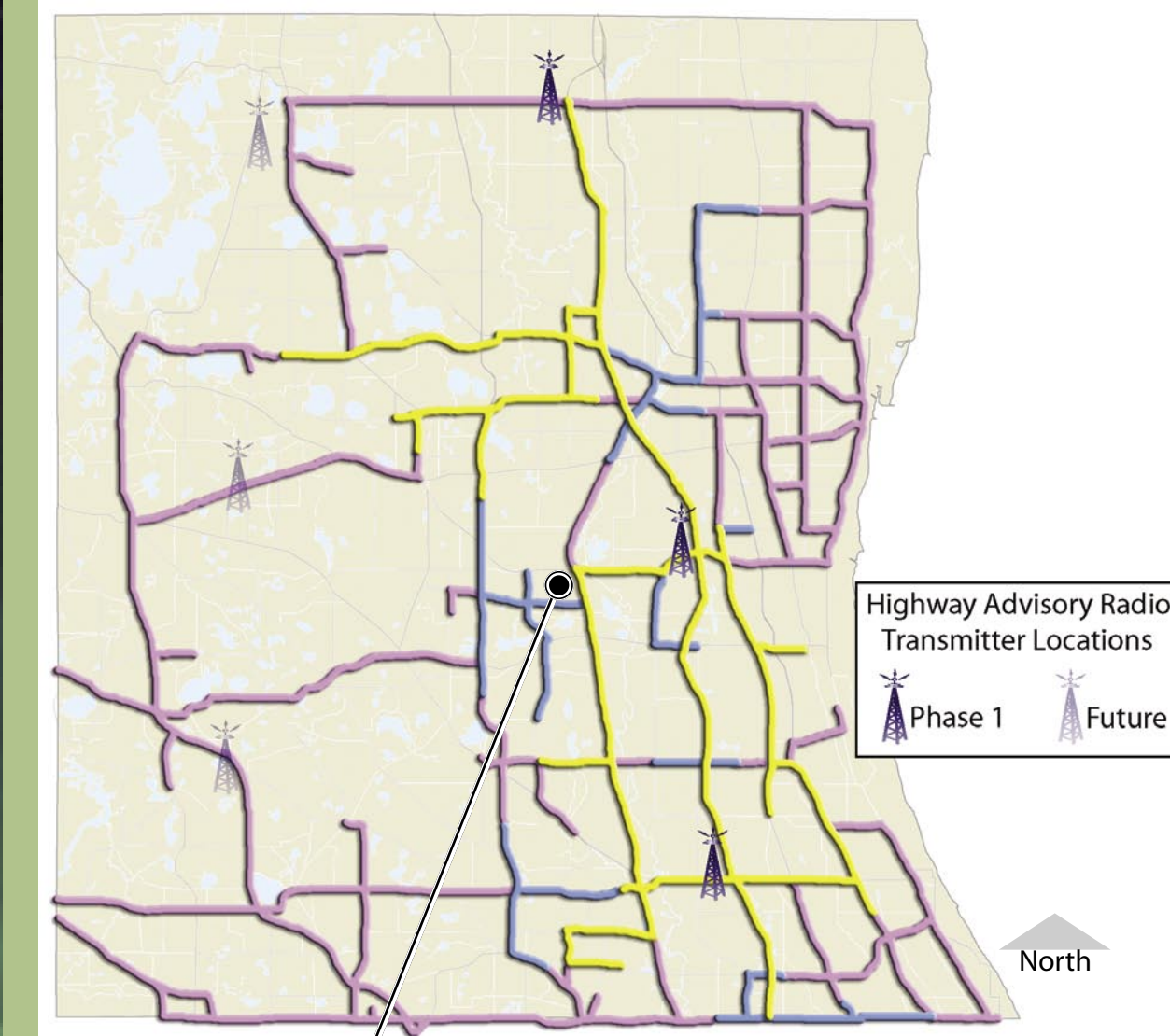
LakeCounty

PASSAGE

...to make getting there easier

Interconnected signals = less traffic congestion

This map shows the network of signal connections and highway advisory radio (HAR) transmitter locations planned under Lake County **PASSAGE**. The yellow lines show the connected signal network planned for the first phase of **PASSAGE**, while the blue and pink systems are proposed in future phases. The Phase 1 highway advisory radio (HAR) transmitters shown here will initially provide coverage for the eastern half of the county, with future transmitters situated to expand reception to the west.



The **Transportation Management Center (TMC)**

is located at the Lake County Division of Transportation complex in Libertyville and is the command center for Lake County **PASSAGE**. This modern facility, completed in 2005, houses the technology and staff resources needed to receive information, make decisions and take action—to make getting there easier.