

WHAT IS RCOC?

The Road Commission for Oakland County maintains Michigan's largest county road system, with more than 2,700 miles of roads (including nearly 800 miles of gravel roads). Only the state highway system is larger.

RCOC also maintains:

- ◆ Approximately 116 bridges,
- ◆ Approximately 1,500 traffic signals,
- ◆ Approximately 100,000 traffic signs and
- ◆ More than 230 miles of state highway.

SAFETY FIRST

As a matter of policy, major road improvement projects are conducted by the Road Commission based on a safety ranking system. At RCOC "Safety First" is more than a motto.



RCOC:

- ✓ Is separate from county general government and does not receive any revenue from property taxes
- ✓ Receives the majority of its funding from the state-collected gas tax
- ✓ Has congested roads due to the tremendous growth in the county
- ✓ Receives no direct revenue from growth and development
- ✓ Pays approximately \$4 million to pave a mile of gravel road
- ✓ Pays approx. \$8 million to widen one mile of road from two lanes to five
- ✓ Is located in a state that ranked in the bottom seven states in per capita road funding for most of the last 60 years.

ROAD COMMISSION
for OAKLAND COUNTY
31001 Lahser Road · Beverly Hills · MI 48025

BOARD OF ROAD COMMISSIONERS

ANDREA LALONDE

ERIC D. MCPHERSON

NANCY QUARLES

Dennis G. Kolar, PE

Managing Director

Gary Piotrowicz, PE, PTOE

*Deputy Managing Director
County Highway Engineer*

RCOC MISSION STATEMENT

RCOC strives to provide the public with leadership in:

- Safe and convenient roads
- Sound financial management
- Responsive and dependable service
- Respect for the environment
- Sensitivity to community concerns

HAVE A QUESTION FOR THE ROAD COMMISSION?

CALL OR WRITE:

DEPARTMENT OF CUSTOMER SERVICES
2420 PONTIAC LAKE ROAD
WATERFORD, MI 48328

TOLL-FREE: (877) 858-4804

TDD: (248) 858-8005

OR, visit RCOC online at

www.rcocweb.org



USING THE
LATEST
TECHNOLOGY
TO ENHANCE
WINTER ROAD
MAINTENANCE



ROAD COMMISSION
for OAKLAND COUNTY

Fleet Management System

FLEET MANAGEMENT: WHAT IT IS

The Road Commission for Oakland County (RCOC) Fleet Management System (FMS) is a program that is improving the efficiency of winter road maintenance in Oakland County through the use of state-of-the-art technology.

The technology employed through the FMS includes many advancements that were developed to improve military operations. Just as they helped the military to more efficiently deploy troops, they have enabled RCOC to make the best use of its winter road maintenance fleet.

The Suburban Mobility Authority for Regional Transportation (SMART), the regional bus service, is a partner with RCOC for the FMS. SMART provides the state-of-the-art radio system that serves as the communications backbone for the system.

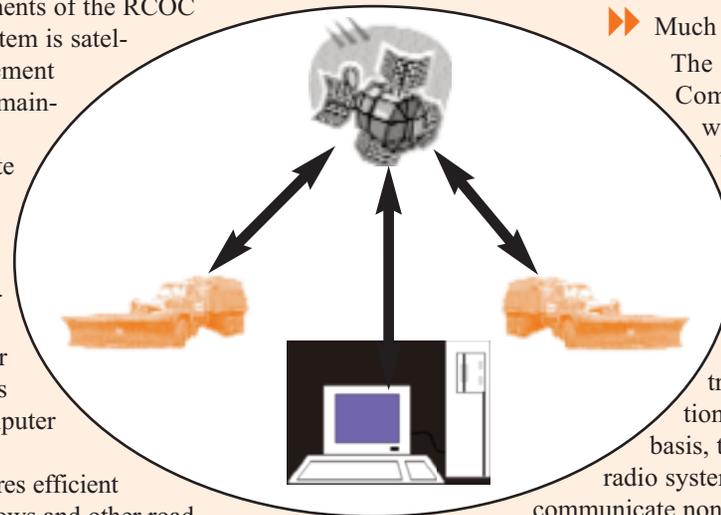
HOW IT WORKS

One of the key elements of the RCOC Fleet Management System is satellite-based fleet management software. Each winter-maintenance vehicle is equipped with a satellite tracking device that constantly sends data to the base computer via radio. This technology allows the Road Commission to monitor real-time fleet activities and locations on a computer screen.

This capability ensures efficient deployment of snow plows and other road-maintenance vehicles.

Here's how the technology does this:

- ▶▶ By telling management where all vehicles are at all times using global positioning system (GPS) technology,
- ▶▶ By alerting management to what the vehicles are doing,
- ▶▶ By providing comprehensive data about what the vehicles have done previously (where they have salted, plowed, etc.),
- ▶▶ By immediately alerting management where the nearest vehicle is (in case of breakdown or the need for an additional plow, etc.),
- ▶▶ By telling management how much salt each truck is spreading and



▶▶ Much more.

The FMS enhances the Road Commission's response to weather by creating the ability for each vehicle to collect weather data, thus becoming "mobile weather stations."

In addition to allowing vehicles to automatically transfer data to the base station on a nearly continuous basis, the FMS's state-of-the-art radio system also allows management to communicate non-verbally with drivers through the dashboard-mounted display screen.

TECHNOLOGY'S PAYOFF

The bottom line is that the technology allows RCOC to provide more efficient winter road maintenance, thus saving money and providing safer roads for the motoring public.

The first version of the FMS was one of the first systems of its type in the nation to be developed on a web-based platform. This allowed management team members to access the FMS information from anywhere that they have a computer with Internet access. Most previous systems relied on a tremendous amount of software that had to be loaded on every computer from which the system was accessed.

When first introduced, the FMS was one of the first major applications of its type in the nation. As a result, the project was watched closely by public agencies and private sector companies around the country, many of whom learned from and emulated the achievements of the FMS.