



Local Operational Research Assistance (OPERA) Program

Evaluating Pavement Management Software

St. Louis County Public Works is piloting a new system to better manage its paved highways. StreetSaver is cloud-based pavement management application that allows use in multiple environments, along with an option to export data for in-house analysis. The mapping portion of the application is much more user-friendly with more available features and functionality than ICON, the software currently used to manage the paved road system in St. Louis County.

St. Louis County Public Works has found ICON particularly challenging with limited options for reporting, mapping, and technical support. In addition, few enhancements or upgrades for ICON have been available.

As part of the 7-month pilot project, which ends in April 2019, St. Louis County Public Works staff researched alternatives to ICON and settled on StreetSaver for implementation. A StreetSaver representative provided a demo of the application on-site at the Public Works Department to teach staff its capabilities and how to use it. With the help of a StreetSaver development team, St. Louis County data is being prepared for migration to StreetSaver. Once the data has been migrated, St. Louis County plans to fully implement StreetSaver for managing its paved road system.

When the system has been implemented in St. Louis County, staff will determine if the system is applicable to other Minnesota counties. In addition, St. Louis County Public Works will work with the Minnesota Department of Transportation to incorporate Pathways pavement conditions surveys into the StreetSaver software. If successful, other counties will benefit from the use of this software.

Project Leader

Matt Hemmila

Agency

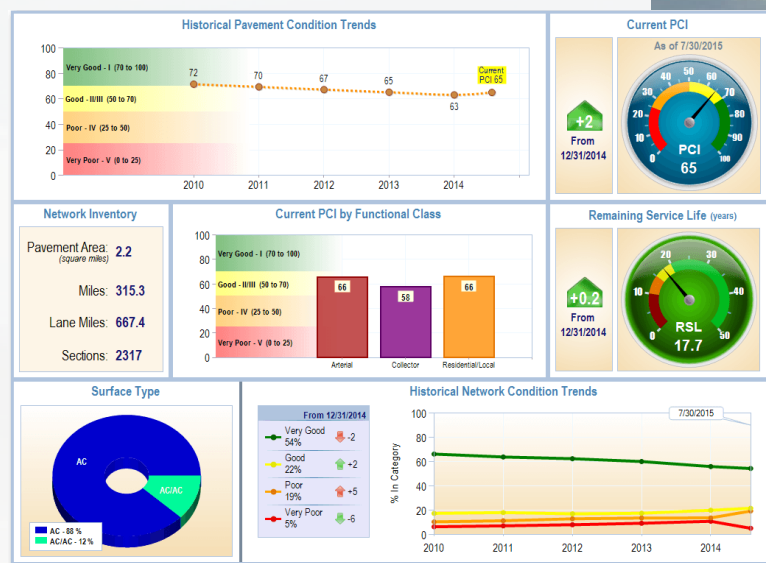
St. Louis County Public Works
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Hibbing, MN 55746

Phone

218-262-0153

OPERA Funding

\$20,000



StreetSaver dashboard

Current Inspection View All Inspections

Street ID: ABERDE Begin Loc: HIDDEN GLEN DR Begin Point: 0.0000
 Section ID: 0100 End Loc: END End Point: 0.0000
 Street: ABERDEEN CT - ABERDE # of Lanes: 2
 Length (ft): 390.00 Area (sq ft): 12870.00 Surface Type: A - AC
 Width (ft): 33.00 # of Units: 1 - Width: 33

Date: 07/28/2015 Insp. #: 2 Length: 100 Area: 3300 Special?
 No Distresses?

Comments: Construction. Underpass narrows to two lanes.

Type	Severity	Qty
1 - Alligator Cracking	L - Low	100
4 - Long. & Trans. Cracking	M - Medium	75

1 - Alligator Cracking
 2 - Block Cracking
 3 - Distortions
 4 - Long. & Trans. Cracking
 5 - Patch & Util. Cut Patch
 6 - Rutting/Depression
 7 - Raveling
 8 - Weathering

Condition assessment functionality in StreetSaver

Decision Tree

- Duplicate Streets in Projects
- GASB 34 - Cost Summary
- GASB 34 - Inventory and Valuation
- GASB 34 - Network Replacement Cost
- Historical Network Summary Statistics
- Historical PCI/RSL
- Inspection History
- Inspection History Detail
- Inspection Unit Error
- Inspection Units Form
- Inspection Units Form Sheet
- Inventory of Applied Maintenance Treatments
- Inventory of Inspection Units
- Last Inspected PCI and M & R
- M & R History - RSL Before and After Treatment
- M&R History - PCI Before and After Treatment
- M&R History - Treatment Costs
- Maintenance and Rehabilitation History
- Management Section Event Summary
- Management Section History Without Events
- Management Sections with no Treatments

View Report Export Report

Report Category

10 Most Frequently Used

- Asset Management
- Budget Analysis
- Events
- Financial Summaries
- Inventory
- Network Management
- PCI Calculations
- Project Planning
- Target Driven Scenarios
- (All)

(Field Operator Value 1 Value 2) Boolean

Area ID
 Current PCI
 FC
 Inspected Date
 Inspected PCI
 Last M&R Date
 Last M&R Treatment
 Section ID
 Street ID
 Street Name

Reporting functionality in StreetSaver

The Local Operational Research Assistance (OPERA) Program encourages maintenance employees from all cities and counties to get involved in operational, “hands-on” research. OPERA helps to develop innovations in the construction and maintenance operations of local government transportation organizations and share those ideas statewide.

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Local OPERA Program partners: Minnesota Local Road Research Board (LRRB), Minnesota Department of Transportation (MnDOT), and Minnesota Local Technical Assistance Program (LTAP) at the Center for Transportation Studies, University of Minnesota.

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