



Maintenance Operation & Fleets Services Road to Digital Transformation

Matthew Fair

Project Manager, Maintenance Operations and Fleet Services

The Regional Municipality of Durham
Ontario, Canada

What you will experience today:

- **About Maintenance Operations and Fleet Services (MO&FS)**
- **Sneak Peek of Existing Softwares**
 - *Rover*
 - *WorkForce*
 - *Maximo*
 - *Geotab*
 - *Simulation*
- **The Future**
 - *VR*
 - *Innovative Locating Practices –Disk, software and tools*
 - *Service Disruption Mapping and Notification*
 - *Public Access*

About the Region of Durham – MO&FS

- **Municipality in Southern Ontario, Canada**

- *Consists of 8 municipalities*
- *Rural, residential, and commercial land*
- *Area: 2,523 sq. km / 974 sq. mi*
- *Population > 700,000*
- *Roads Water and Sewer Maintenance: 2,587 lane kms / 1607 lane mi*

- **Fun Fact**

- *Small Mouth Bass Capital of Canada
Beaverton*

5 Depot Locations

- Ajax/Pickering
- Whitby/Oshawa
- Orono
- Scugog
- Sunderland



What is Rover



Rover combinations of an App and Software

- *Rover App*
- *Rover Software*
- *Provides Supervisors the opportunities*
- *Provides Field Staff the support*

WorkForce

Workforce management solutions designed to

- *Optimize scheduling*
- *Ensure accurate pay*
- *Maintain global compliance*
- *Improve operational efficiency*

Supports a variety of industries, including

- *Healthcare*
- *Retail*
- *Public sector*

workforce[®]
SOFTWARE

Maximo

Comprehensive asset lifecycle management, advanced analytics, and Internet of Things to optimize:

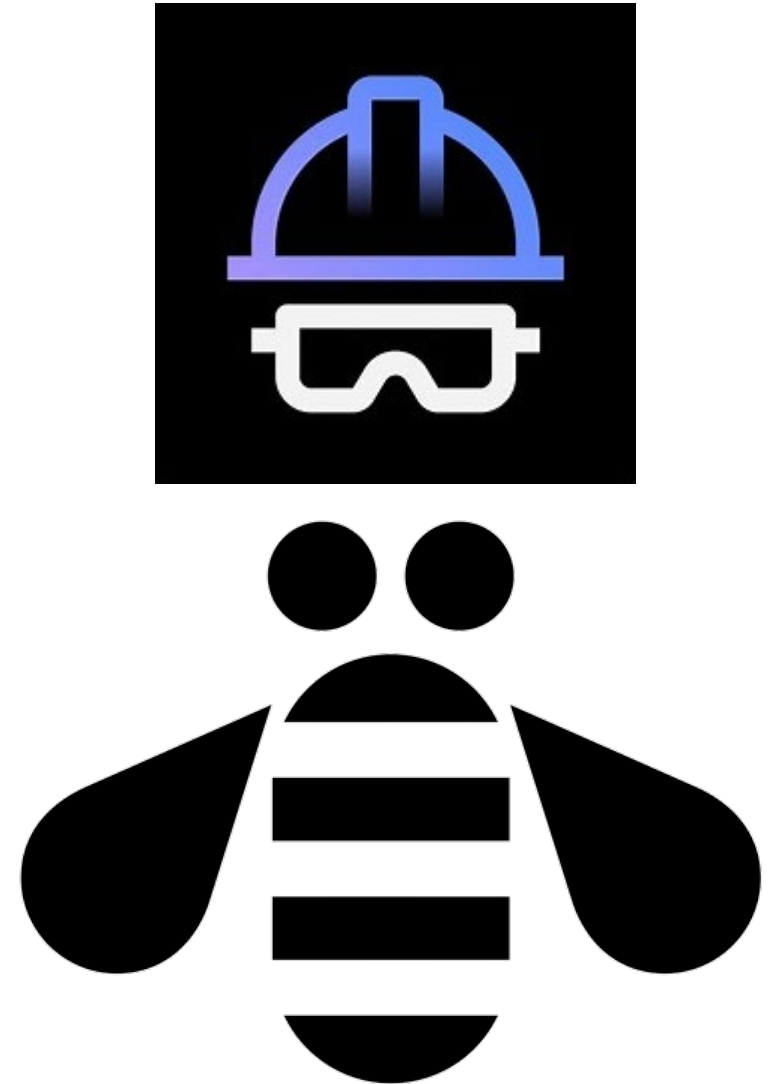
- *Maintenance*
- *Inspection*
- *Reliability of critical equipment and infrastructure*

Organization reduces

- *Downtime*
- *Extend asset lifespan*
- *Improve operational efficiency*

Integrated seamlessly

- *Legacy software*



Digital Transformation WorkForce/Maximo

Paper timesheets
and worklogs



Digital WorkForce Timesheets and Maximo
Workorders

CALL OUT REPORT

WORKS DEPARTMENT
MAINTENANCE DIVISION
WATER MAINTENANCE

DATE: 201091214
ACTIVITY NO: 761 14 15 1505 CREW SIZE: 6
DESCRIPTION: SERV REPAIR
SITE: 1429 Rosebank Rd, Pickering
CHARGE TO:

LABOUR 80

NAME	NUMBER	SPEC	RT	1ST	2T	TOTAL
Mason	83013	1505	8.0			8.0
Sealey	72864		8.0			8.0
Kapriel	74673		8.0			8.0
Lane	72449		8.0			8.0
Tarr	86471		8.0			8.0
Crawford	83067		5.0			5.0
			45.0			45.0

EQUIPMENT 81

CLASS	UNIT	HOURS USED	DESCRIPTION
12	802	8.0	Boom Truck
32	011	6.0	Back hoe
09	066	8.0	Tandem
76	006	8.0	SHOVELS

HIRED EQUIPMENT 81

CLASS	UNIT	HRS	MACH	RATE	HRS OPER	OWNER

MATERIALS 82

DESCRIPTION	UNIT	QUANTITY	SECONDARY

ACCOMPLISHMENT 83

UNIT	QUANTITY

NUMBER: 1-10
SUPERVISOR: [Signature]
REMARKS: SEE OVER

Plants: ☐ T.A.S. ☐ Fire ☐
Traffic: ☐ D.R.P. ☐ Other: (Specify) _____

Phone Number: _____
City / Town: _____

Date: _____ (year / month / day)
Call Received: _____ Arrived at Site: _____
Call Completed: _____ Left Site: _____
Time: _____

Revision: 0 October 11, 2013

Self-Service

- My Timesheet >
- My Schedule >
- My Bank Balances >
- My Time Off >
- Bidding >
- Help >

Timesheet

04/06/2025 - 04/19/2025

Monday April 7, 2025 7.000

Pay Code: VAC - Vacation Taken 7.000
Hours: 7.000
Location: DEPOT-OSWH - Depot-Oshawa/Whitby-
Task Profile ID: 14905 - W-Prj-Mgr-Depot MOA

Tuesday April 8, 2025 7.000

Pay Code: WORKED_E 7.000
Hours: 7.000

Wednesday April 9, 2025

Pay Code: WORKED_E 7.000
Hours: 7.000

Thursday April 10, 2025

Pay Code: WORKED_E 7.000
Hours: 7.000

Friday April 11, 2025

Pay Code: WORKED_E 7.000
Hours: 7.000

Monday April 14, 2025

Pay Code: WORKED_E 7.000
Hours: 7.000

Tuesday April 15, 2025

Pay Code: WORKED_E 7.000
Hours: 7.000

Work Order

Parent WO: DP-AJX-RDS-WH

Details

Font: Size small Format None

Site: CM

Description: This standard operating procedure is intended to assist the Regional Municipality of Durham Maintenance Operations personnel better understand the procedures necessary to achieve established

Classification: DEPOTS | WINTCONTROL | PLOUGHSALT

Class Description: Ploughing/Salt

Reported By: MORRA_JU

Reported Date: 2/18/25 1:14 PM

Attachments: View attachments

Labour

Task	Labour	Name	Type	Start Date	Start Time	End Date	End Time	Hours
Q	TDMS_M	Matthew Time	WORK	2/17/25	7:30 PM	2/18/25	7:15 AM	11:45
Q	KEHCE_J	JAMES KEHCE	WORK	2/17/25	7:30 PM	2/18/25	3:30 AM	8:00
Q	COLERT_S	Steve Coleridge	WORK	2/17/25	7:30 PM	2/18/25	6:30 AM	11:00
Q	DOYLE_T	Taylor Doyle	WORK	2/17/25	7:30 PM	2/18/25	7:00 AM	11:30

eRIS

- **Abilities**
 - *Enhances communication*
 - *Saves time*
 - *Prevents mistakes*
- **Features**
 - *Cloud hosting*
 - *Multiple logbooks*
 - *Mobile app access*
 - *Logbook review*
 - *Searchable entries, timestamps, custom labels, and multimedia attachments*
- **Ensures efficient operations and compliance**

eRIS • LOG eRIS

eRIS Journals

Paper Supervisor Journals

8 WEDNESDAY FEBRUARY

7:00 K. FRAWLEY SICK 8HR.
D. MIDDLETON SICK 8HR.
J. ELLIOTT SICK 8HR.

7:30 13-241 S. MCLELLAND } LOCATES
02-544 B. BRINNE }
13-604 J. PREVEDEL }

8:30 10-879 J. STEVENSON SERVICE TRUCK 8HR.
M. LONGO

9:30 46-810 M. HAZIGH WH VALVE TAG 8HR.
M. COX

10:00 15-515 S. HUTCHINS OSH CENTRAL HYD 8HR

10:30 15-512 T. STEPHENSON OSH SOUTH HYD 8HR

11:00 15-511 D. NICKERSON WH SOUTH HYD 8HR

11:30 15-518 M. HARMAN WH NORTH HYD 8HR.

12:00 46-806 K. BUTLAND DIG UP- 8HR
B. EDWARDS
J. DIOITE
07-065 PATCHEN

12:30 SERV REPAIR
① 318 OSHAWA BLVD, OSH
- C/S, MOVE BOX TO P/L

1:30 B+E
① 322 OSHAWA BLVD, OSH
C.P. TICKET #5953 → 8HR.

2:30 12-804 S. POSTERARO DIG UP. 8HR.
L. CALBOREY
M. LYON

3:30 B+E
① 5 DENBURY CT, WH. ② 70 SEPTREE PL, WH
③ 1 PRESLEY CT, WH. ④ 42 JAYS DR, WH
⑤ 74 MICHAEL BL, WH

4:30 C.P. TICKET #5941 → 8 HR

5:00

5:30

6:00

6:30

7:00

evening

* DOWNIE STAYED TO SEND OUT OF SERV HYD EXHAUST
MAKING W/O'S FOR TOMORROW, DEAL WITH TEMP
SEN FOR 4/0 WITH SERV LEAK.

Digital eRIS Journal

eRIS LOG eRIS

Admin My Sites 0

Scugog Oshawa Sunderland Ajax Orono ORO SOP Fleet Web Links Teleworking Brine Sampling Logbook Brine Sampling Program

Scugog

SCUGOG Logbook

Roads Water Sewer Winter Maintenance Streets

Time 2025-04-15 11:25 Labels New Entry Labels... Entry Entry Text... Create Entry

Search Logbook Entries

Entries and Filters limited: 2025-Apr-01 to 2025-Apr-15

Time	Labels	Entry	Operator	Created Time
2025-04-15 08:18	Personnel	WO - W1272844 Description - Reptile Exclusionary Fencing Installation For Siloam Bridge Replacement D2025-30 Project ID R1409 Staff - Unit # - 05-032/ 46-017/ 76-007		DRAFT ENTRY 2025-04-15 08:18:16
Tuesday, April 15, 2025				
08:13	Supervision			2025-04-15 08:14:03
08:14	Lieu	8hrs		2025-04-15 08:14:14
08:16	Training	Cooke Traffic Control Book 7 Oshawa Depot 8hrs Traffic Control Book 7 Oshawa Depot 8hrs		2025-04-15 08:16:20

Geotab

Advanced GPS tracking devices

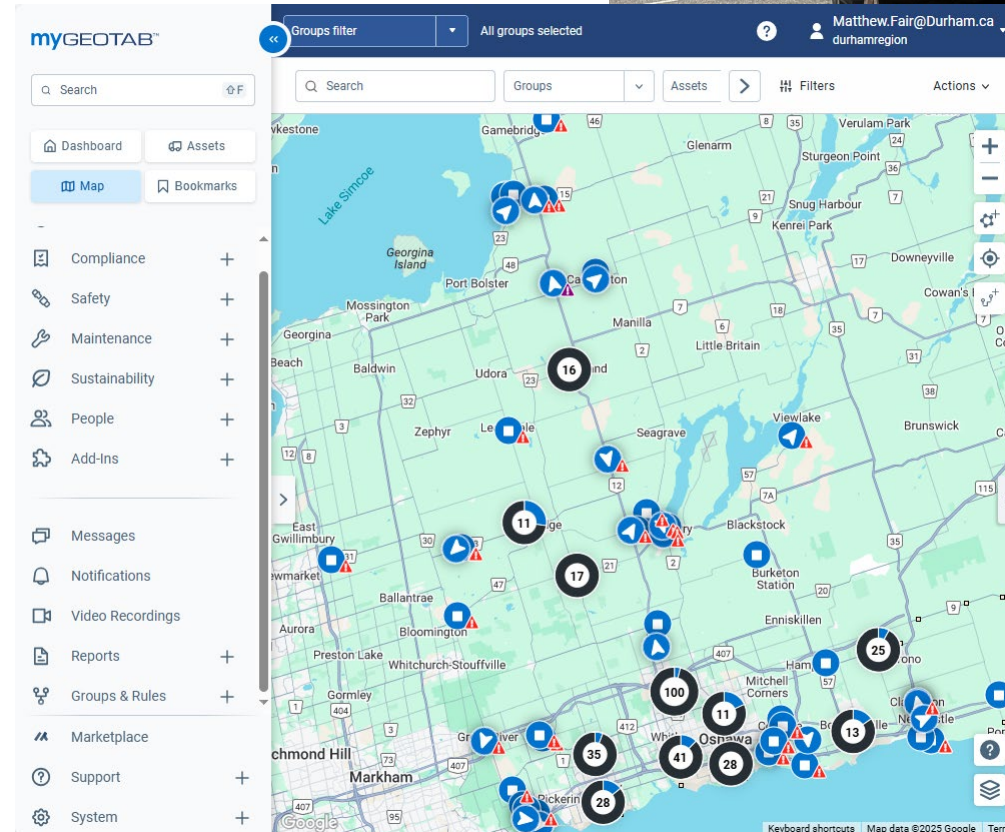
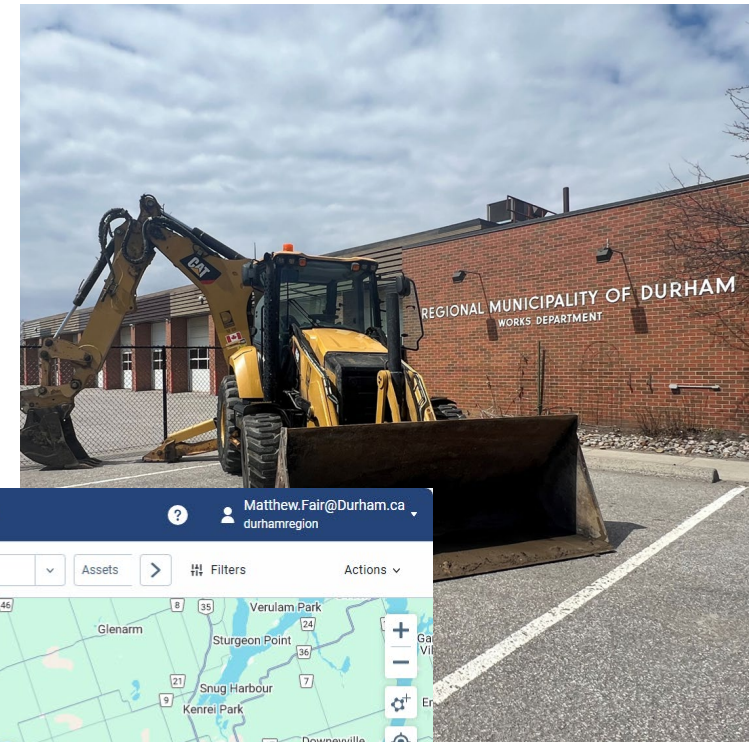
- *Provides precise data*
- *Vehicle location*
- *Speed*
- *Trip distance*
- *Engine idling*

Enhances fleet safety

- *Improves driving behaviors*
- *Supports maintenance prioritizations*

Integrated seamlessly

- *Legacy software*





Training Simulation

CM Labs

Simulation software

- *Heavy equipment training simulators*
- *Real-time simulation*

Safety and efficiency

- *Risk-free environment for completing*
 - *Complex machinery*
 - *High-risk procedures*

Use Cases

- *Construction*
- *Ports*
- *Utilities*
- *Industrial sectors*

Training Simulation

L3Harris

Simulation-based training for commercial truck drivers

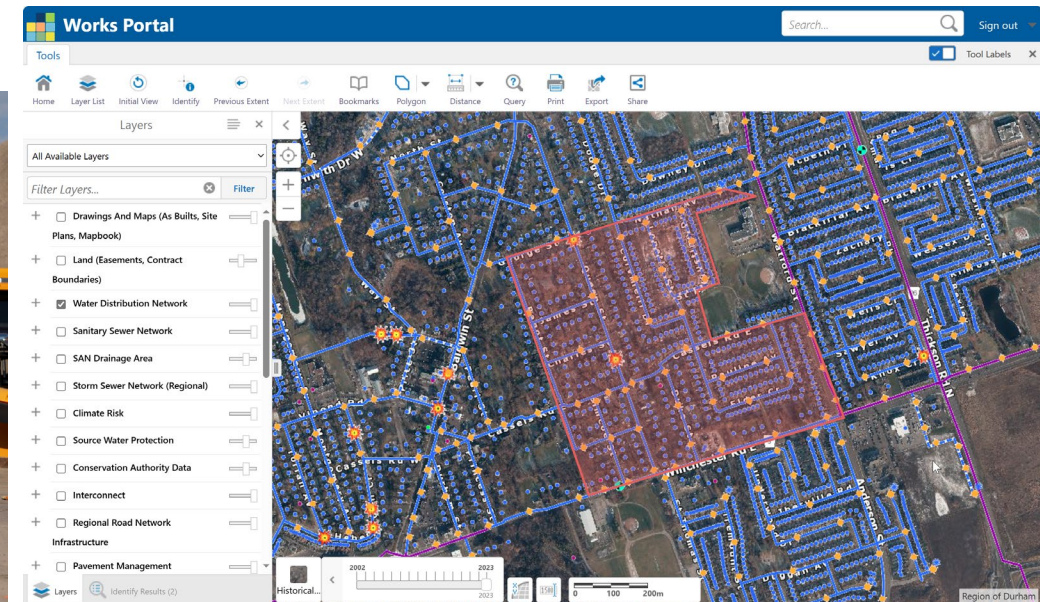
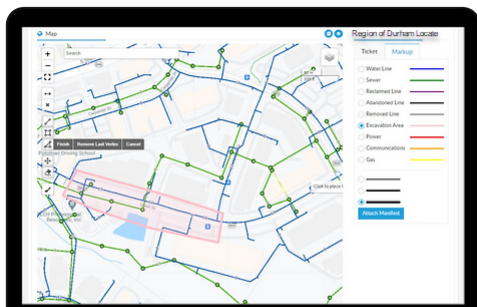
Features:

- *Hands-on experiential training*
- *Practice critical decision-making skills*
- *improve situational awareness*
- *Realistic*
- *Risk-free environment*
- *Enhances initial driver training,*
- *Periodic assessments, and*
- *Reduce preventable crashes an*
- *Decreases costs through better fuel efficiency*



The Future

- VR Training
- Innovative Locating Practices
 - Locate Disk, Software and tools
- Public Access
 - Service Disruption Mapping and Notification
 - Name That Plow



Questions





Maintenance Operation & Fleets Services Road to Digital Transformation

MO&FS is working to digitally transform every and any area possible to help improve and enhance the service we provide

Matthew Fair

Project Manager, MO&FS

Matthew.Fair@durham.ca

durham.ca

@RegionofDurham

