

# Smart Mobility Readiness Forum

## Municipal Incident Reporting Using Artificial Intelligence



# Established Company - Visual Defence



Headquartered in Richmond Hill, Ontario, Canada 🇨🇦

20 Years in Business

Focused on Security, AI, and Mobility Applications (Thanks to AVIN)

Extensive presence in the transportation sector

**20**  
Years  
Operating

**Hundreds**  
Completed  
Projects

**Millions**  
People  
Safer

**Dozens**  
Products  
Developed

**Thousands**  
Fulfilled  
Orders

**Billion+**  
Hours of Video  
Processed



# Collaboration with CRH & Others



# and the ROVER Workgroup



## What is the ROVER Workgroup?

The ROVER workgroup, initiated by Visual Defence Inc. and the City of Richmond Hill is a collection of organizations and municipalities who seek to investigate how artificial intelligence could be used for the betterment and safety of Canada's road network.

## What does the workgroup do for you?



### We value your feedback

Be involved in building the solution you want to see. ROVER will be tailored to meet the needs of road operations. We want to fine tune only the features that matter to you



### Networking opportunity

Opportunity to learn road maintenance strategies from other municipalities and organizations



### Positive Exposure

Be a part of a new and exciting way to improve Canadian road safety



"We are excited to partner with Richmond Hill's own Visual Defence to test the Rover technology. This type of collaboration and innovation is crucial for moving municipalities forward."

**Matt Mintz**

*Manager of Road Operations*



"The City of Markham supports the development of technologies aimed at helping Canadian municipalities improve and maintain their road networks."

**Alice Lam**

*Senior Manager of Roads, Survey & Utility*



"We are looking forward to testing Rover to see how it can create efficiencies in reducing the amount of staff hours that go into documenting and creating work orders for potholes."

**Dan Naccarato**

*Supervisor of Roads & Traffic*



"New Tecumseth is excited to test Rover and see how it can create efficiency in road patrol and other areas of our business."

**Chris Trombino**

*Manager of Roads and Fleet*



"Technology that makes us more efficient and that leads to a better user experience on our roads is what Innisfil is looking for. We're looking forward to seeing how the Rover technology performs"

**Brian Seed**

*Manager of Road Operations*



"We are excited to participate in this technology pilot to provide the Town of East Gwillimbury with another tool in our arsenal to help identify pothole locations, expedite tracking and repair all with the objective of providing a safer municipal road network"

**Jeff Meggitt**

*Manager of Operations*



# The World's Largest Collaborative R&D Project, aimed at improving road conditions



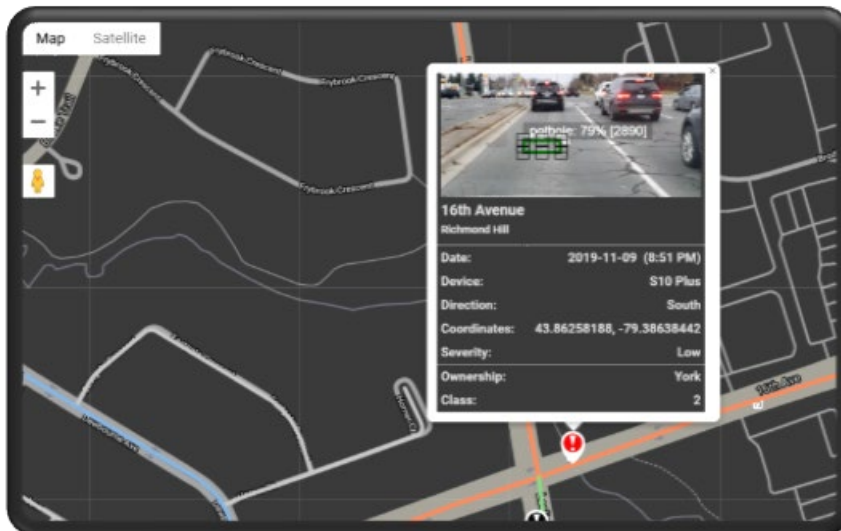
**Did**  
**You**  
**Know?** 🍁

Municipalities in more than 50% of Canada's provinces and territories are working together to teach AI to identify road issues automatically

# What is ROVER

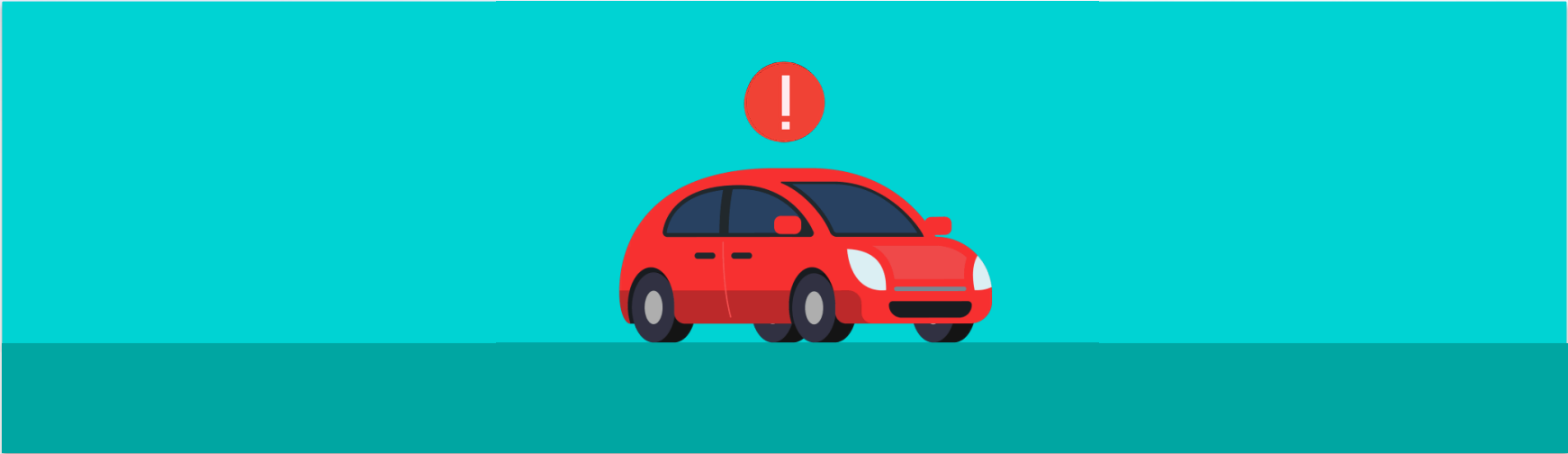


- ROVER is an app that is installed on a smartphone.
- ROVER automatically identifies potholes on the road using artificial intelligence and maps them.



Automated Pothole Detection Using  
Artificial Intelligence

# Why use ROVER?



- |           |        |          |           |          |            |
|-----------|--------|----------|-----------|----------|------------|
| PROACTIVE | TIMELY | ACCURATE | EFFICIENT | FREQUENT | AFFORDABLE |
|-----------|--------|----------|-----------|----------|------------|

ARTIFICIAL INTELLIGENCE FOR INCIDENT DETECTION



ISSUES AND REPORTS



# The Future: ROVER SmartFleets



BY WAPATROLLERS AINT

● ● ● INCIDENTS DETECTED



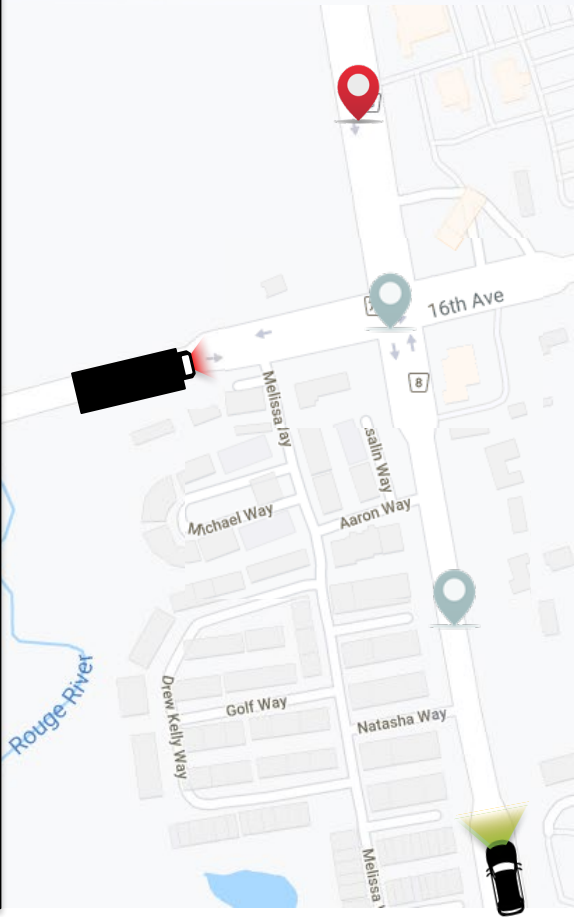
MANHOLE



DEBRIS



POTHOLE





# Challenges



- Change
- Trust
- Technological
- Procedural
- Capacity
- Buy-in

# Opportunities



- Chance to improve
- Influence roadmap
- Collective power
- Quantify impact
- Share knowledge
- Showcase our businesses



**Thank You**

**Join the Collaboration**

**ROY.TAL@VISUALDEFENCE.COM**