



MODERNIZING ROADS WITH INFRA TECH

Emil Sylvester Ramos
CEO & Co-founder
emilr@irisradgoup.com

iris R&D Group inc.

Hosted by

ICA

YAVUZ SULTAN SELIM BRIDGE
AND
NORTHERN RING MOTORWAY

iris



Programme

1. Introduction
2. Who is iris?
3. Industry problem & infratech answers
4. Infratech solutions provided by iris
5. Vaughan, Ontario, Canada
6. Contact us

We are an infratech solution.

We are a privacy-centric data platform company that empowers municipalities, provincial and state governments, and concessionaires.

Thrive with end-to-end data collection and condition monitoring solutions to :



Comply to government regulations for road safety.



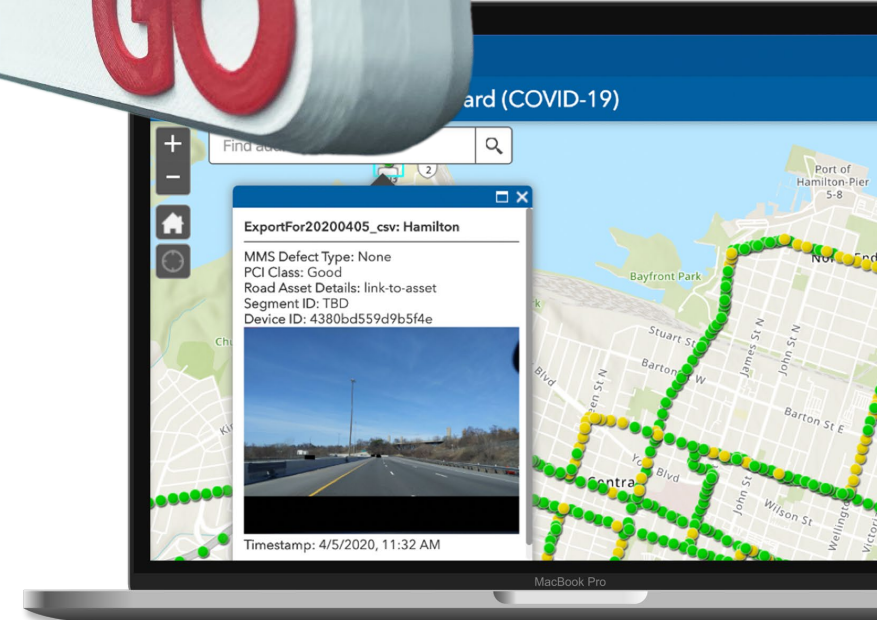
Offer higher level of service



Reduce costs and cycles



Extend useful life of infrastructure



Awards



Smart 50 Awards
2022 winner
Smart Cities Connect



Start-up Label
2022 winner
International Roads Federation



infraChallenge
2021 winner
Global Infrastructure Hub

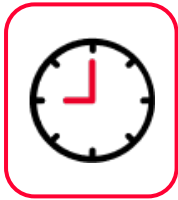
Problem to solve.



Today, infrastructure data is collected, **MANUALLY.**

\$ BILLIONS tax dollars spent on **outdated data** collection methods.

It's inefficient and ineffective.



Slow & infrequent



Expense



Human error



Problem solved.

Infratech solves the industry challenge by automating operations with AI & computer vision.



Legislative compliance



Cost efficiencies



Improved service levels



Mitigate financial risk



Extend infrastructure life



iris - an infratech solution



1

Automated Road Patrol

AI to detect potholes, damaged signs, graffiti and more.

2

Pavement Condition Survey

PCI data that follows ASTM 6433 standards at a much lower cost.

3

Roadway Asset Inventory

Detail inventory of right-of-way assets.

25 Million Images

300+ Asset Types

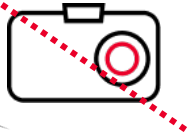
Our equipment is unique.

No in-cabin facing camera – driver privacy

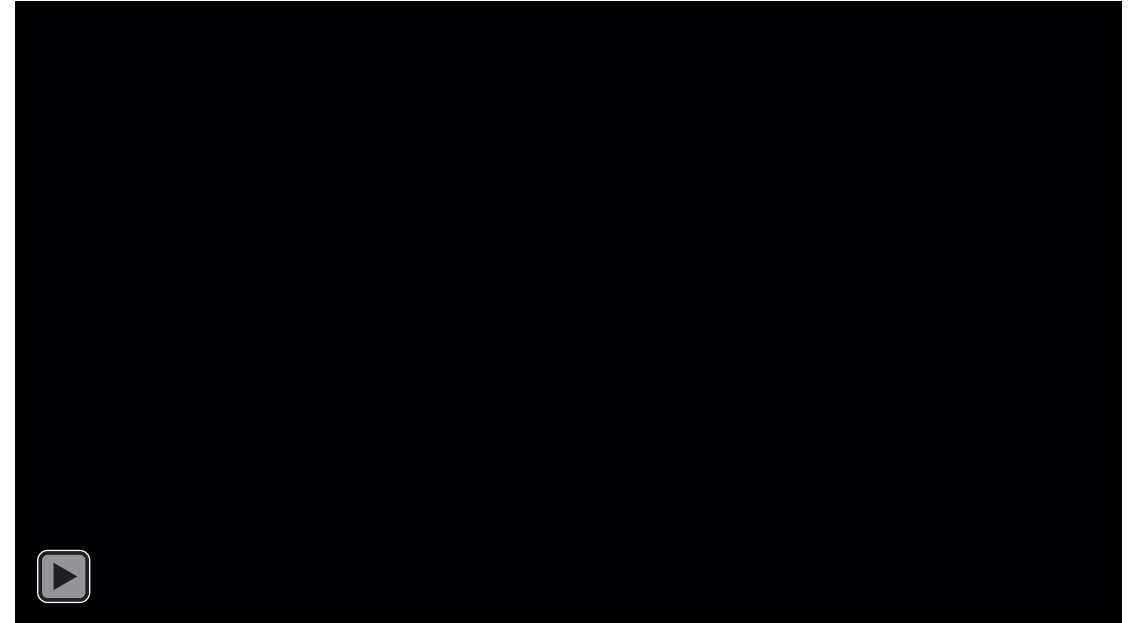
No faces recorded – privacy redaction

A.I. specialized camera – train it for your data

Hosted by
ICA
TAVOT DUYUN VE BAKIM
NORDBEN RING MOTORWAY



irisGO™ → irisCity™



AI Data Collection



Data Processing



Machine Learning



Data Integration

Vaughan, Canada

Challenges



Compliance reporting



Repair & patrol
standardization



Documentation for claims



Administrative redundancies

Implementation



irisGO cameras to 6 road patrol vehicles



Integrated it with their CRM system for
complete automation



Vaughan, Canada: Results

Simplicity, ease-of-use and reliability

Remedy's human/user error

~25% increase in accurate compliance reporting

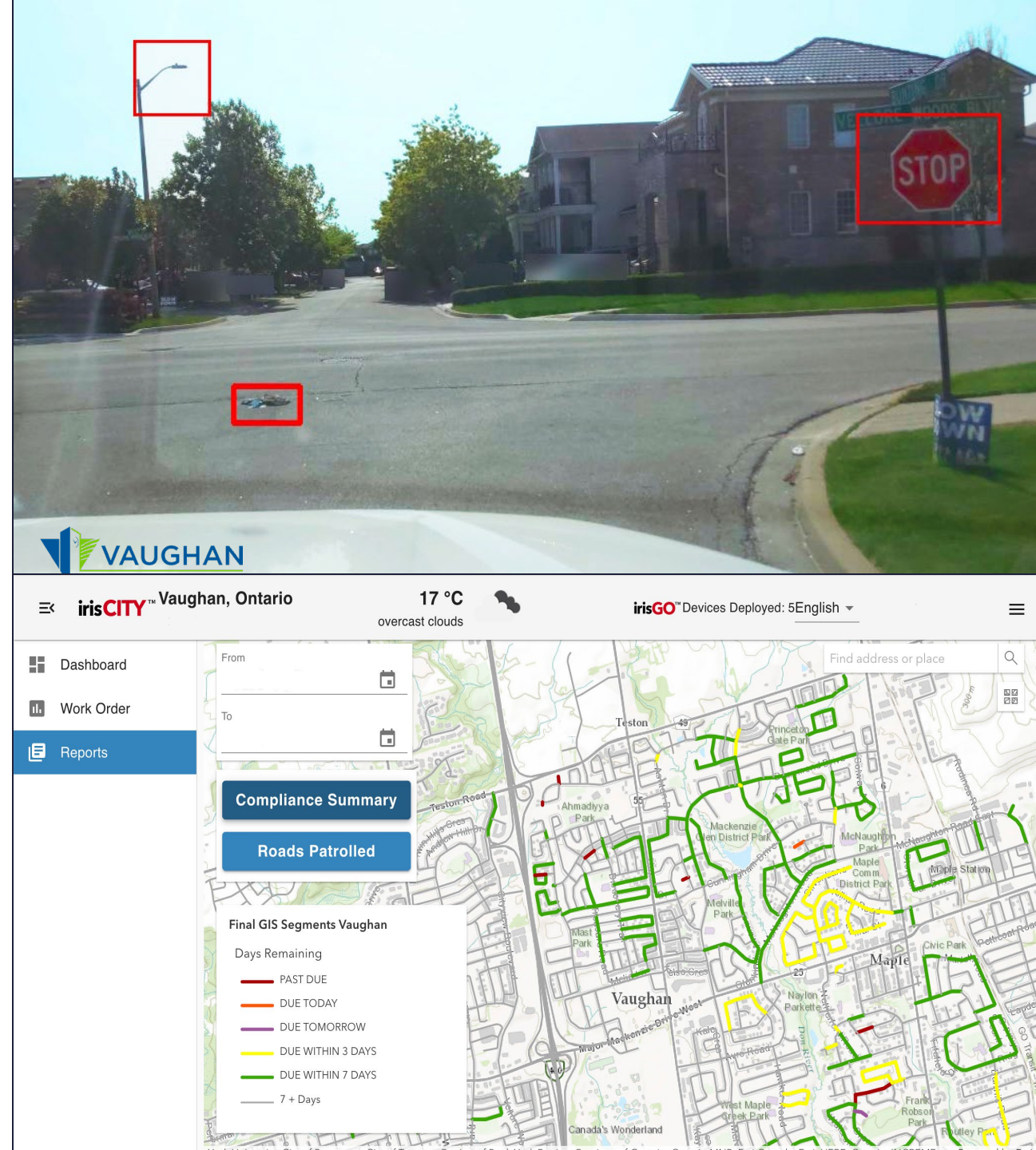
Integration of winter maintenance treatment software

System integration

Data / images captured for reporting and public claims

Helped reach 100% compliance realization

Improvement in service levels, budget and safety



THANK YOU

Emil Sylvester Ramos, CEO & Co-founder
emilr@irisradgroup.com

