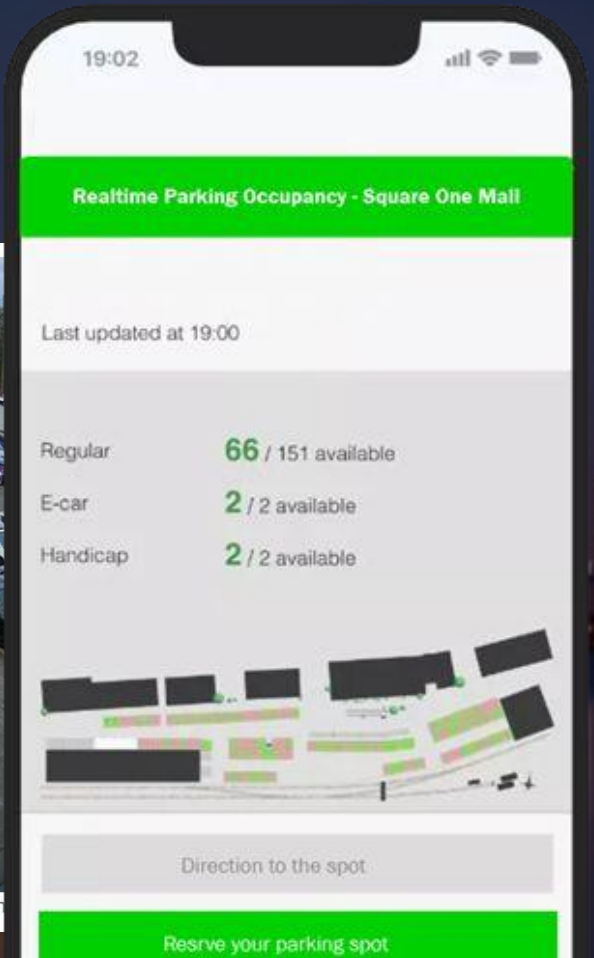
Newmarket

Loop Parking

ROGERS

ParkSense +: AI Parking Detection System

For Cities, Towns, Airports, Malls, Hospitals & Commercial buildings



Steeson Mathew

www.LoopParking.ca

Info@LoopParking.ca

The Urban Parking Challenges

Loop.

Parking is very expensive

Hard to find empty parking spots

Increase in parking violations, due to high parking demand

Looking for parking leads to High Traffic Congestion

Limited Parking Enforcement Resources

Increase in Bike Lane Parking Violation

The Urban Parking Challenges

Increase In Bike Lane Parking Violation

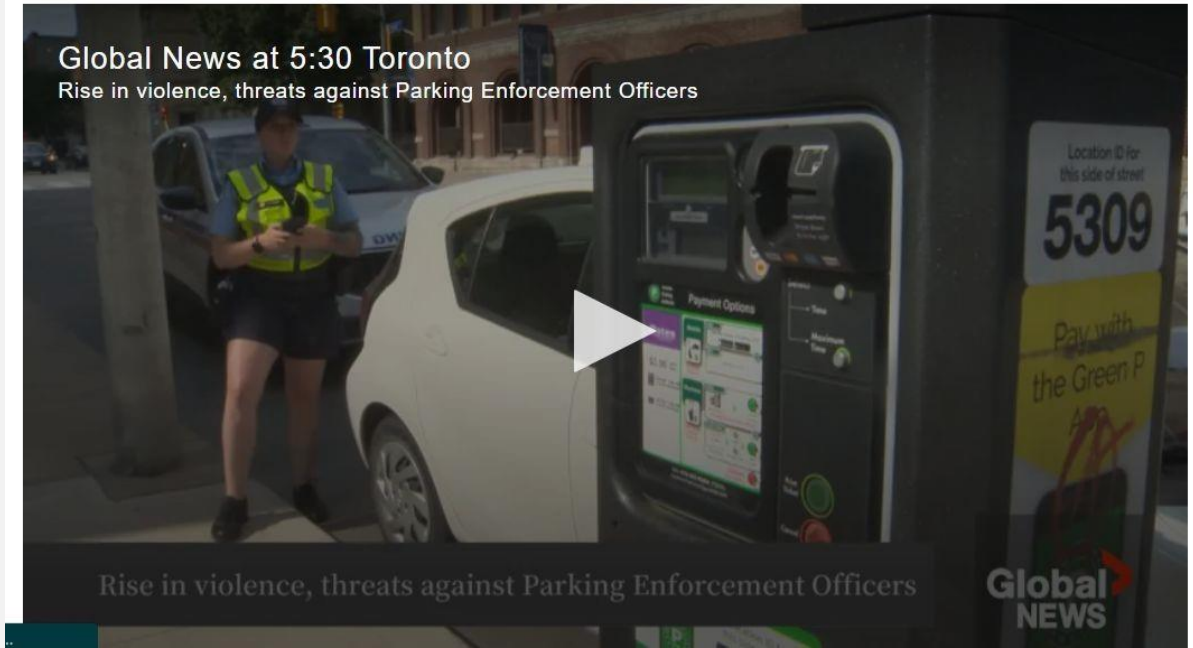
Credits - BlogTo

The Urban Parking Challenges

Increase in hate crime against parking enforcement officers

Toronto parking enforcement officers experience rise in violence, threats

By Erica Vella · Global News
Posted July 20, 2023 3:44 pm · Updated July 20, 2023 6:10 pm



Toronto man charged after allegedly trying to run down parking enforcement officer

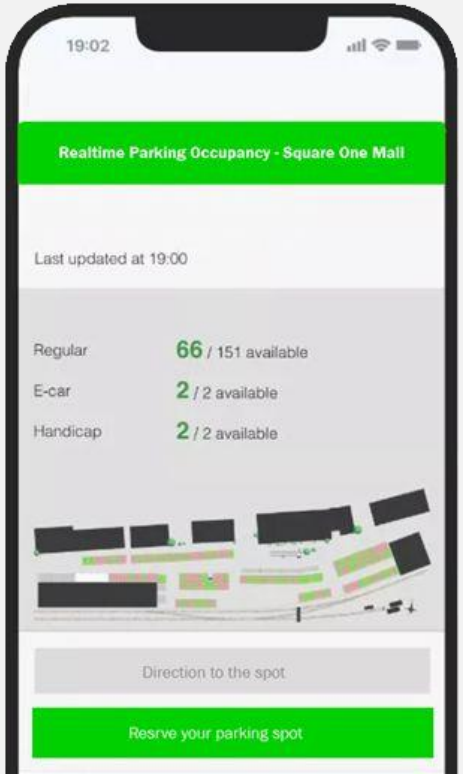
ParkSense+ : AI Curbside Parking Detection System

Loop.

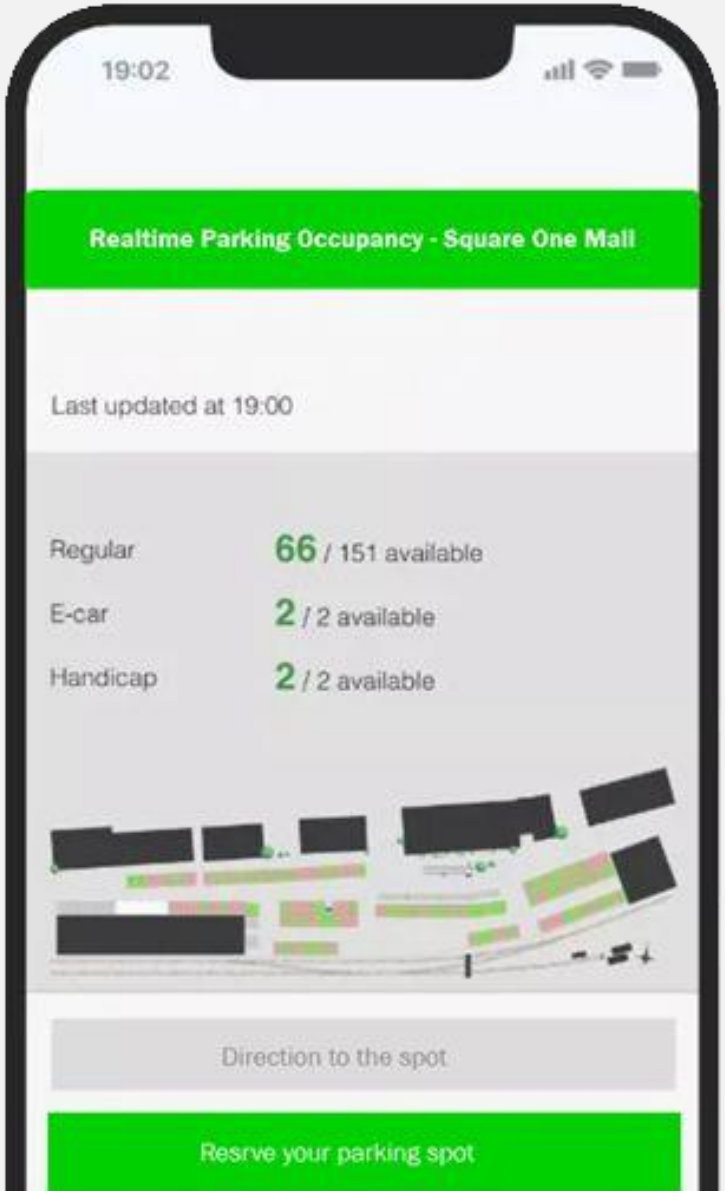
- Real-Time Parking Detection System
- Overtime & illegal parking detection - Bike Lane Parking
- Historical Datas & Insights for future Planning
- Automate Parking Enforcement & Ticketing

Benefits of AI Curbside Vehicle Detection System

- Real Time Parking Occupancy Data
- Reduce search time
- Reducing traffic congestion & Co2 emission
- Can able optimize parking usage



Solutions



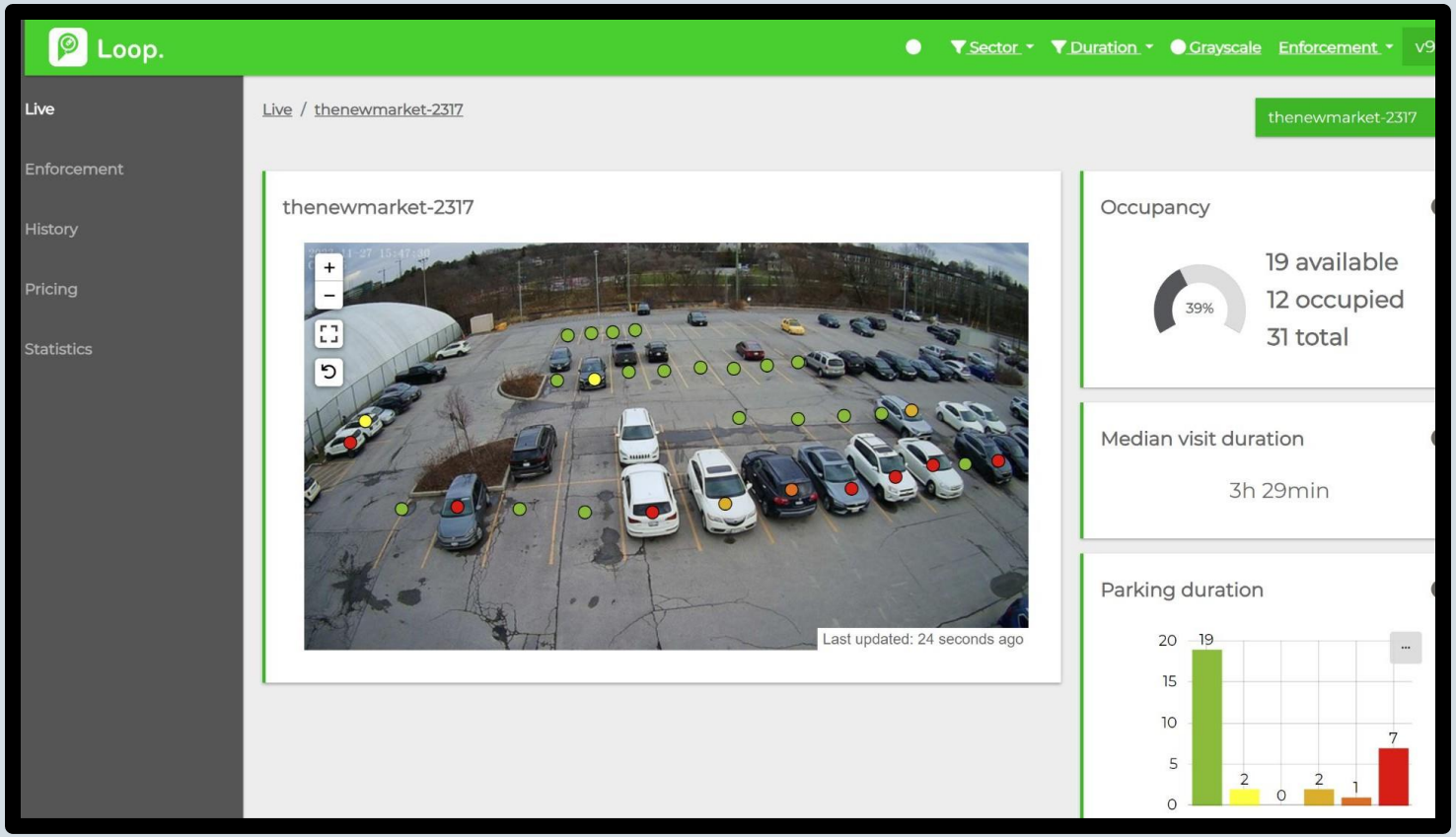
Users can plan their commute, which will reduce the traffic

- **With real-time availability of parking, for On-Street & Off-Street commuters can plan their commute**
- **Commuters can able to reserve parking spots as well.**
- **Navigate commuters to the exact parking spots.**

ParkSense+

Loop.

- Real-time data
- Fully privacy-compliant
- Automatic real-time alerts
- Insights historical statistics
- License Plate Recognition
- Evidence for Issuing Citations



Insights & Analytics

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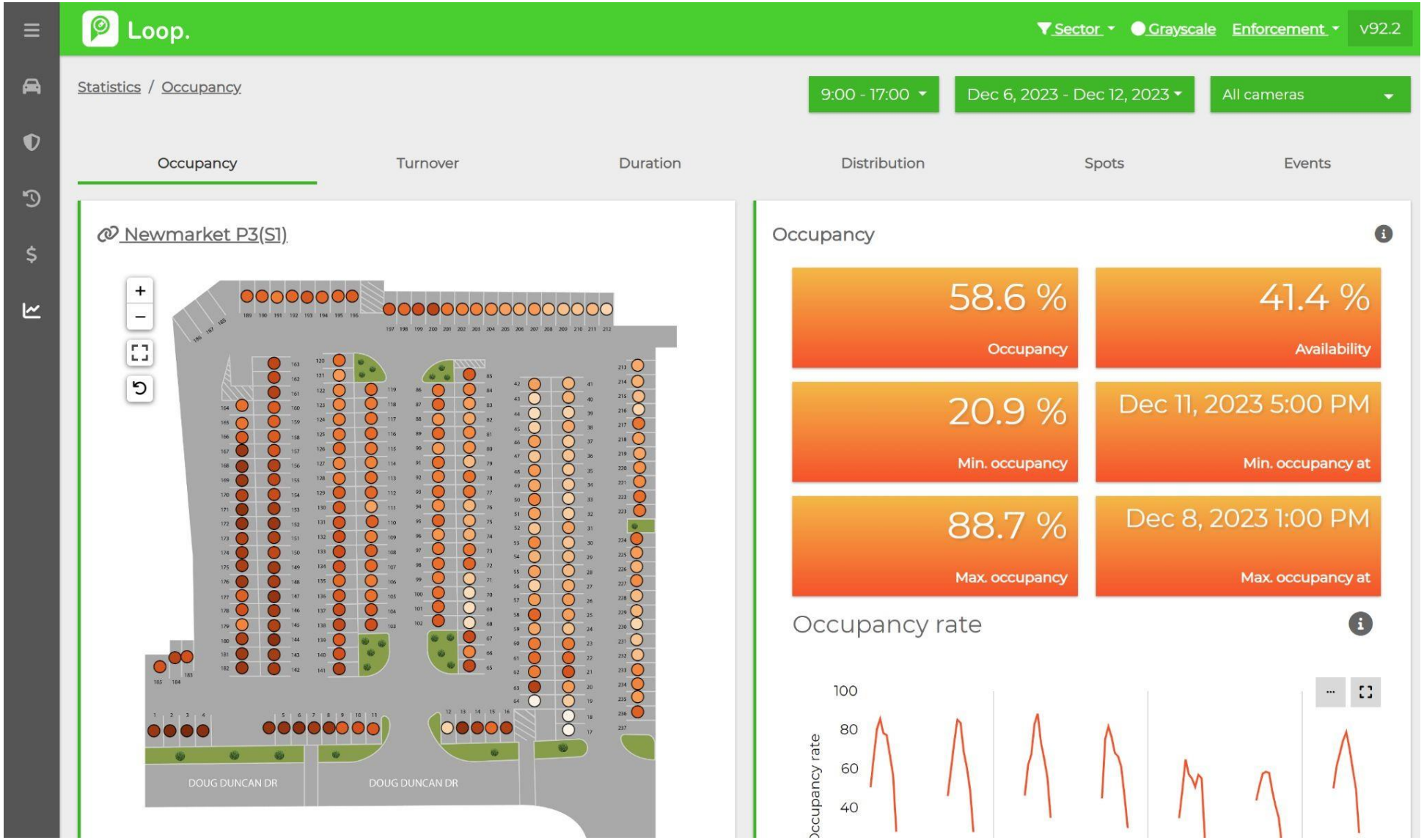
Screenshot from Town of Newmarket pilot project dashboard



Insights & Analytics

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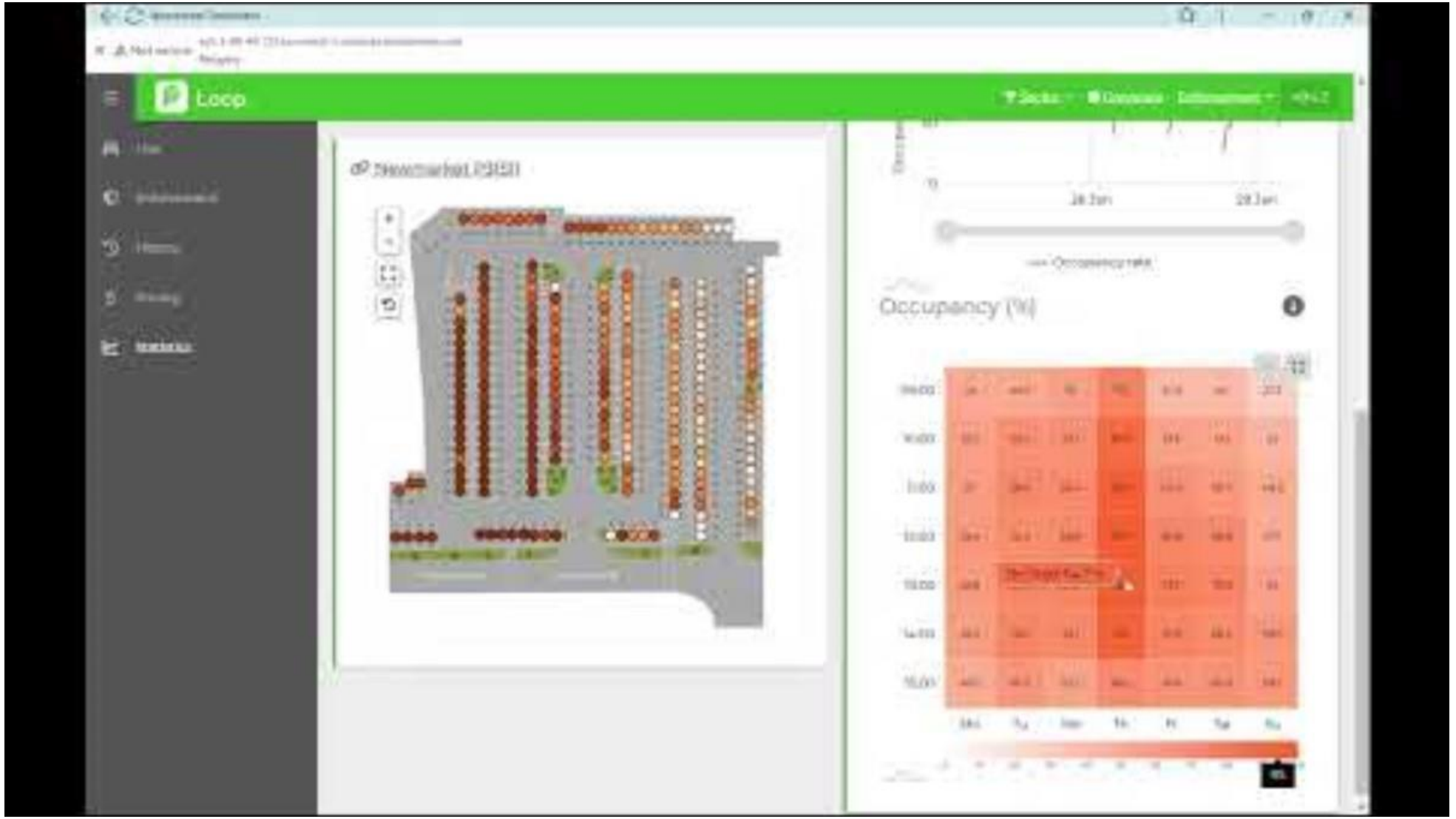

Occupancy Rate & Visitor Flow Rate

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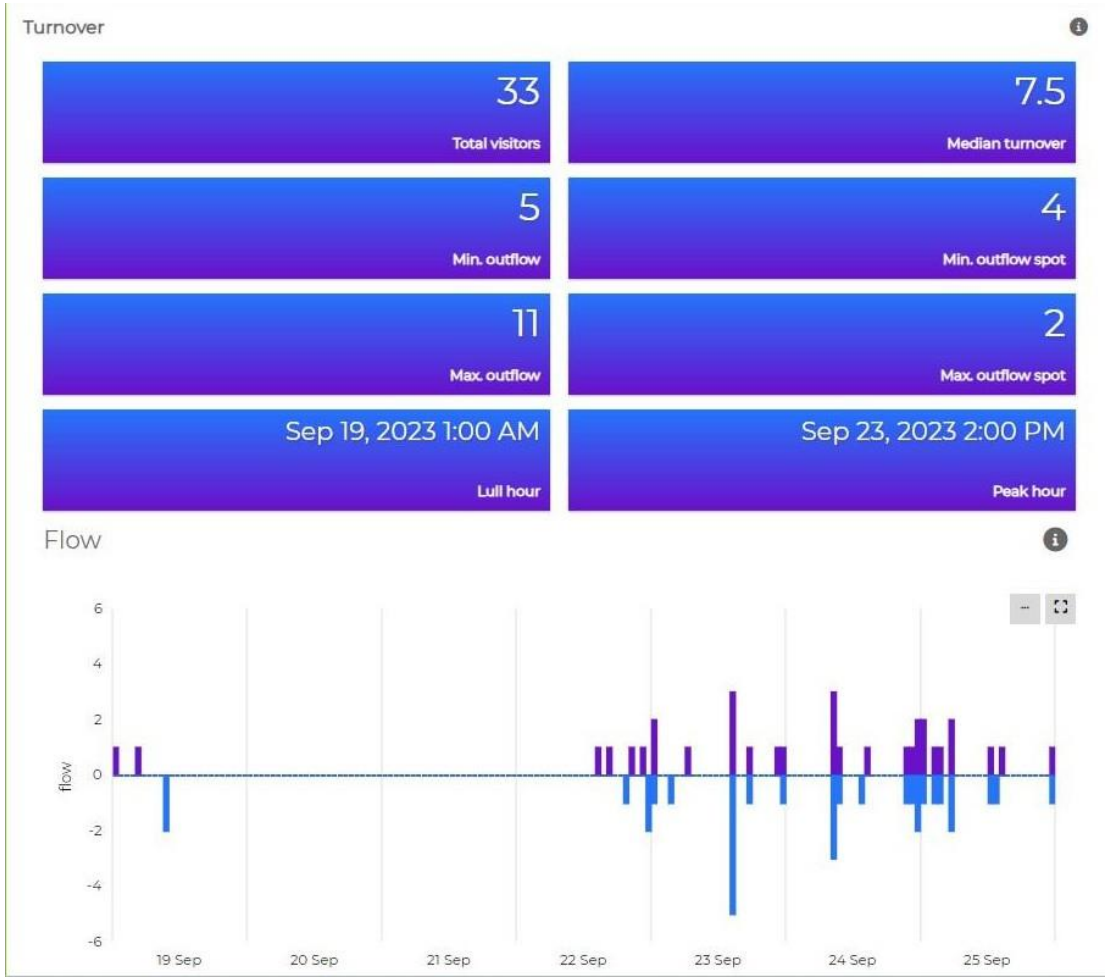
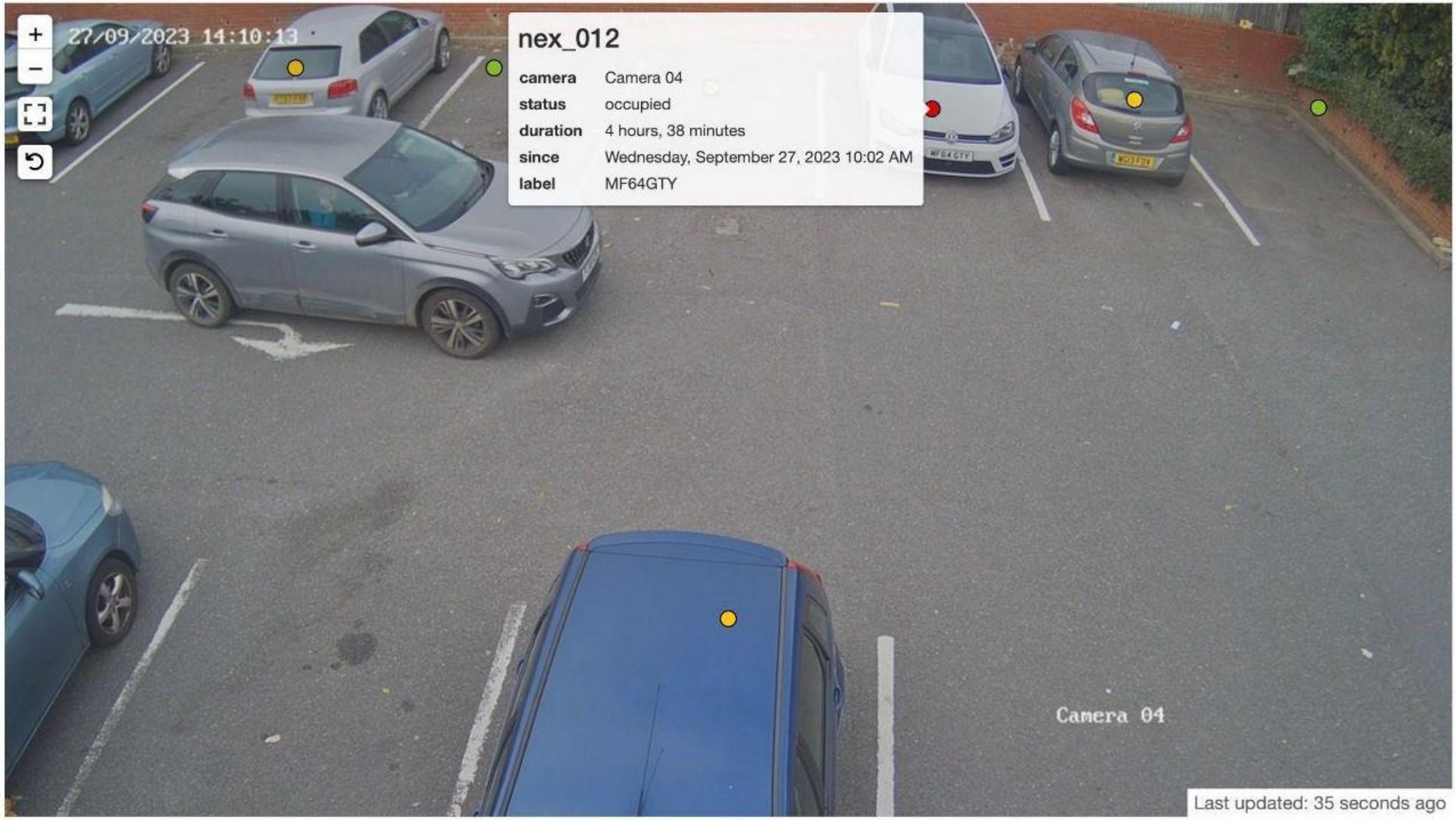
Occupancy Rate



Visitor Flow Rate

License Plate Recognition Feature

Camera 04



Violations - Overnight Parked Vehicles

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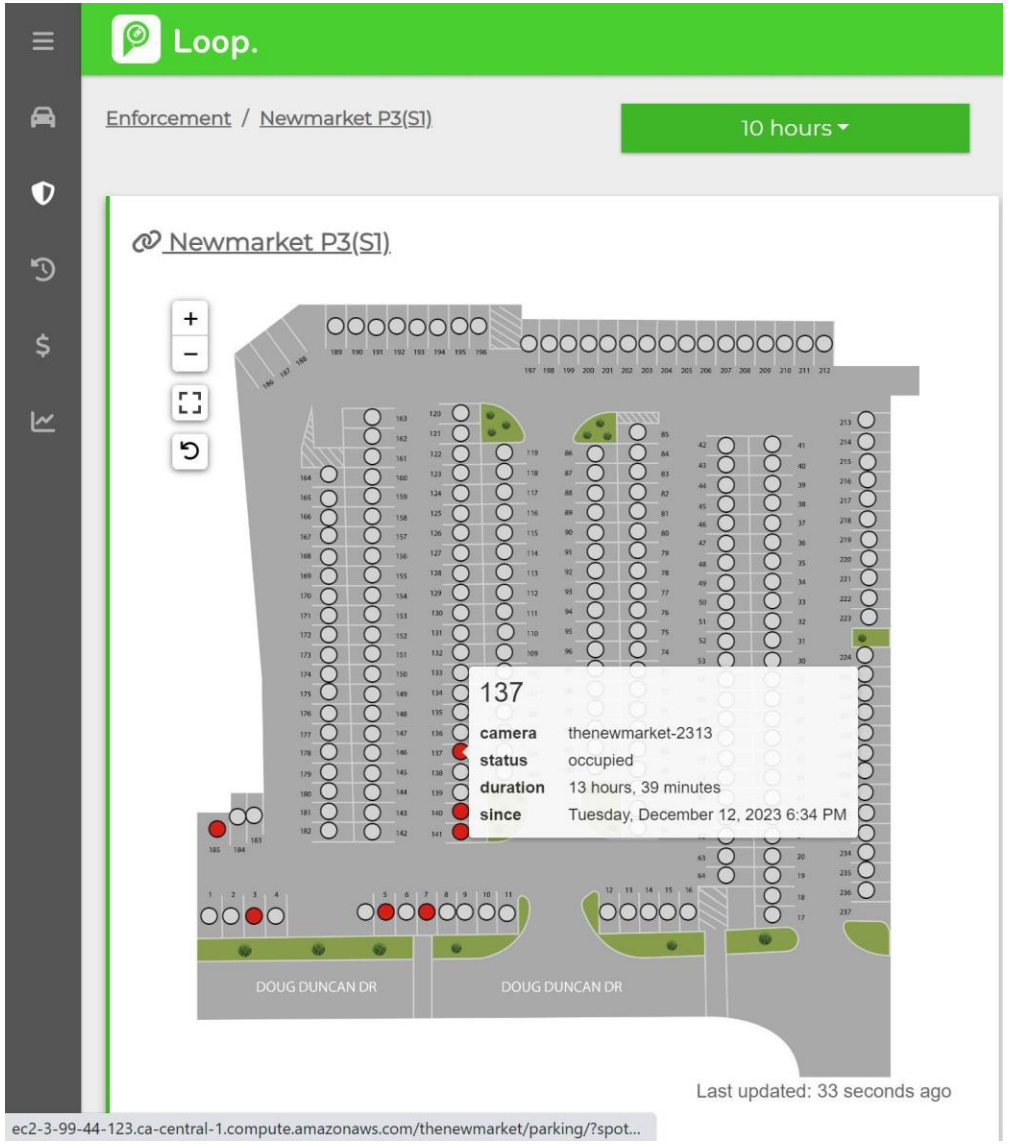
Screenshot from Town of Newmarket pilot project dashboard



141	15h 31min			
185	15h 28min			
140	14h 14min			
5	13h 52min			
137	13h 40min			
3	12h 3min			

Case Study – Comparison – ParkSense+ V/S Ground Sensors

Loop.

For 230 Parking spots

- Setup Cost for ground based sensor : $ 90,000
- Setup Cost for ParkSense+ : $ 15,000

Saving nearly $75k | Six times cost savings

ParkSense+

V/S

Ground Based Sensors

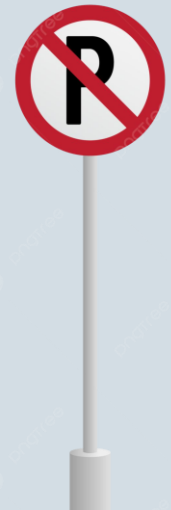
- Less Cost, More Reliable
- Easy to Install

- Expensive , Less Reliable

Use Cases

Parking Enforcement & Management | Real-Time Availability For Drivers

- Real-Time Parking Availability For Drivers For On-Street & Off-Street
- Effectively Manage Curbside Parking
- To Monitor Parking spots where Max. Parking limit is enforced
- Real-Time Violation Monitoring for Bike Lane & No Parking Zones and Loading Zones Parking
- Used to conduct Parking Studies
- Data-Driven Decision Making - Enables data-driven urban planning and policy-making.



Some More Use Cases

Parking Enforcement & Management | Real-Time Availability For Drivers

Airports

Hospitals

Shopping Centers

Tourism Destinations

BLUE MOUNTAIN

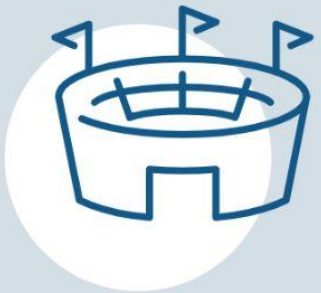
NiagaraFalls CANADA

wasaga beach

Train Stations

Hotels

Employee Car Parks



Stadiums

Any Type Of Spots In Any Weather

Loop.

Off-street

On-street

Unmarked

Indoor

Truck parking

Bus depots

Marinas and harbors

In any weather

Ask

Loop.

We are seeking Cities, Towns & commercial partners to pilot our solution

Partnership

Pilot Projects

Support

Supported By :

PLUG AND PLAY

Founder Institute

COMMUNITECH

ROGERS

OVIN
AUTONOMOUS • CONNECTED • ELECTRIC

treefrog Accelerator

INVEST BRAMPTON.CA

Innovation Guelph

cisco Jasper

myQ

Ontario

Featured On :

City News 680

CBCNEWS

Making Parking Affordable & Sustainable

Join us in our Journey

Loop Parking

Info@loopparking.ca

Implementation Process

- Initial Assessment
- 6 Month Pilot Project
- Use Existing Cameras or Install New Cameras to Lamp Posts
- Testing and Optimization

Business Model

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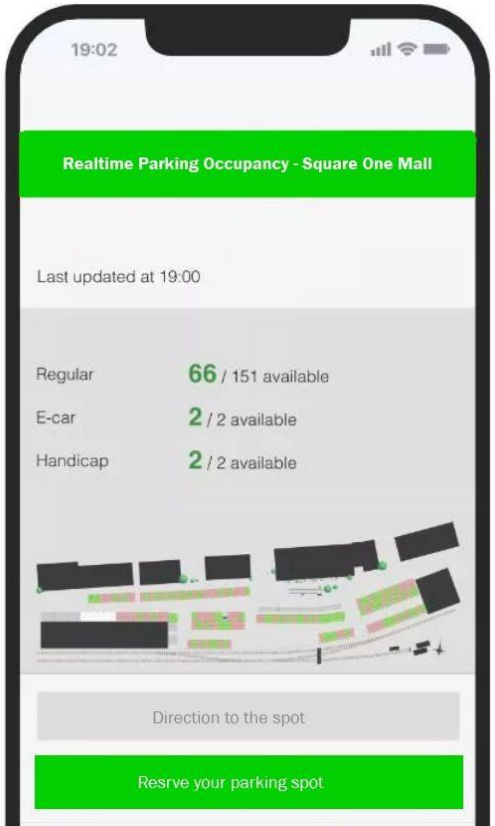
P-Saas (Parking Solution as a Service)

For Ai Curbside detection system

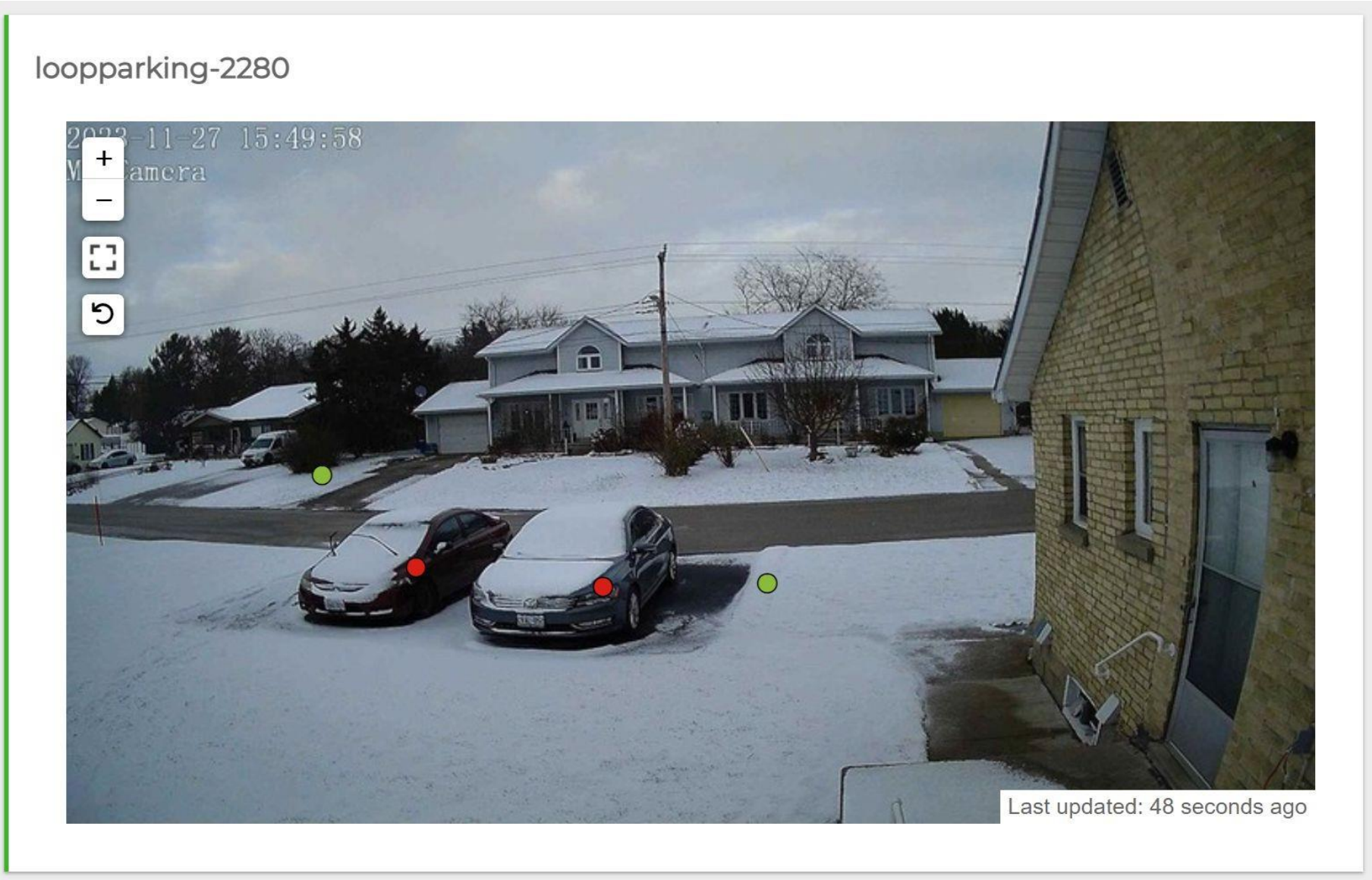
$8.5 / Month per parking spot + One Time Setup Cost

Ie: For a medium Size - 300 parking spots - Monthly $2,500

Real-Time Parking Occupancy Information is completely FREE for Drivers



ParkSense+ Performs well during Winter



Privacy & Data protection

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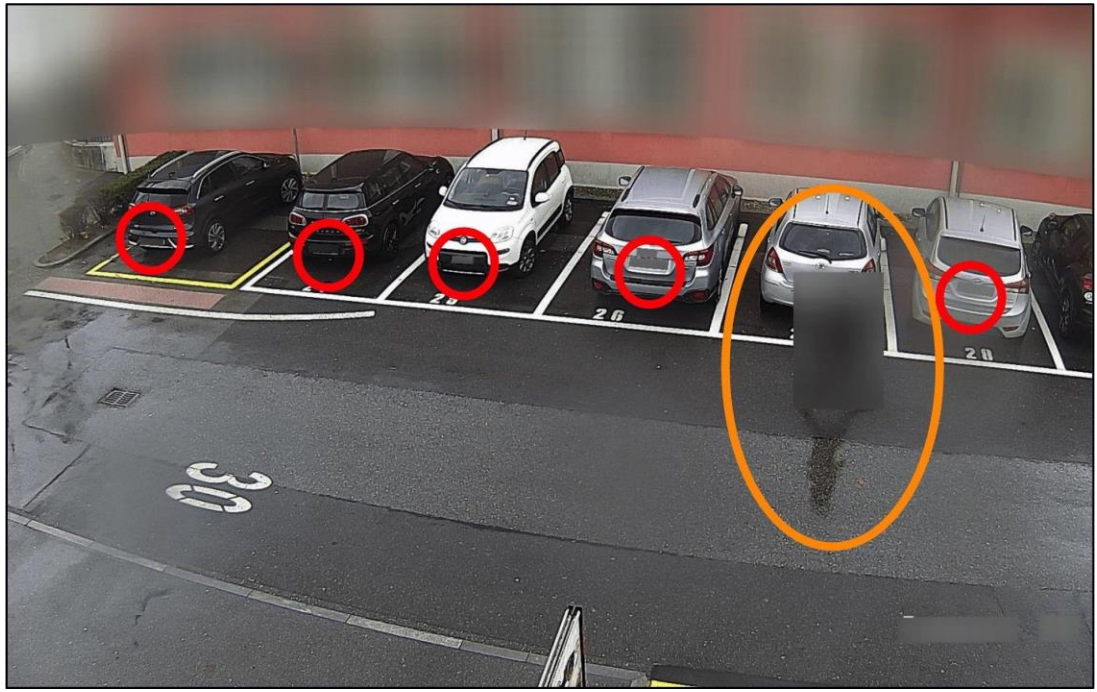
Both, On-premise & cloud analysis comply

- We do not store any images.
- We automatically delete images after processing.
- Our solution automatically blurs pedestrians & vehicle number plates before image analysis to ensure data remains anonymous.
- If analyzed on-premise, the images do not leave the customer's premises but are processed and analyzed on a server on-site.



Server Options

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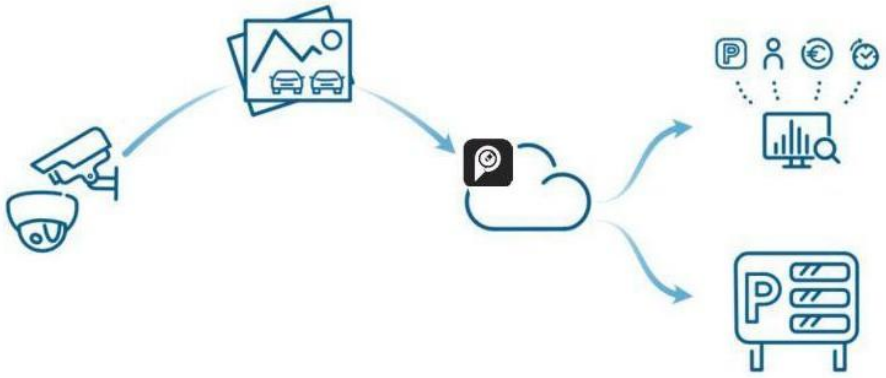
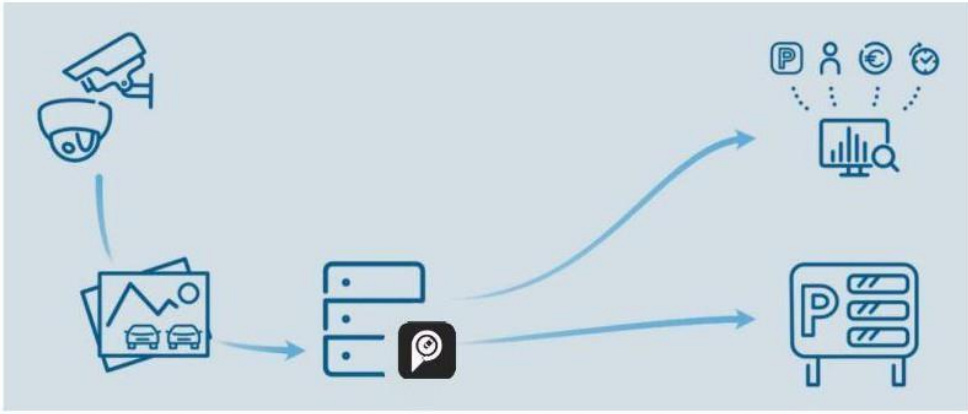
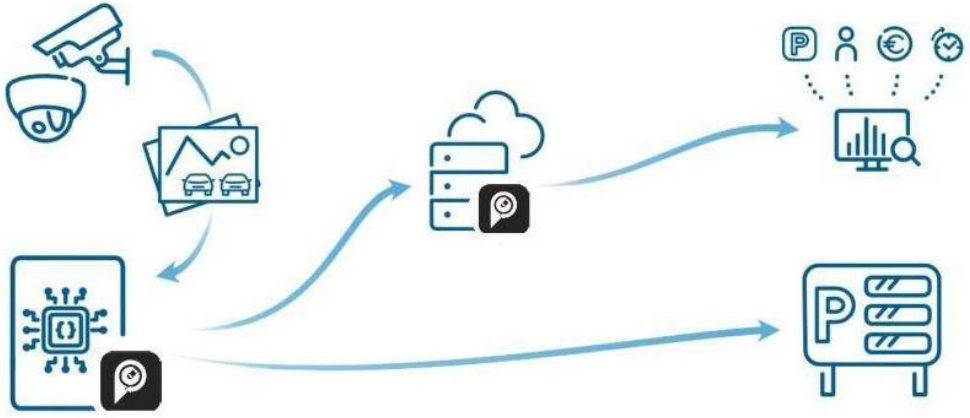
Directly From IP Camera - Cloud Processing



On-premise – Processing using Server



On the edge – Processing in edge

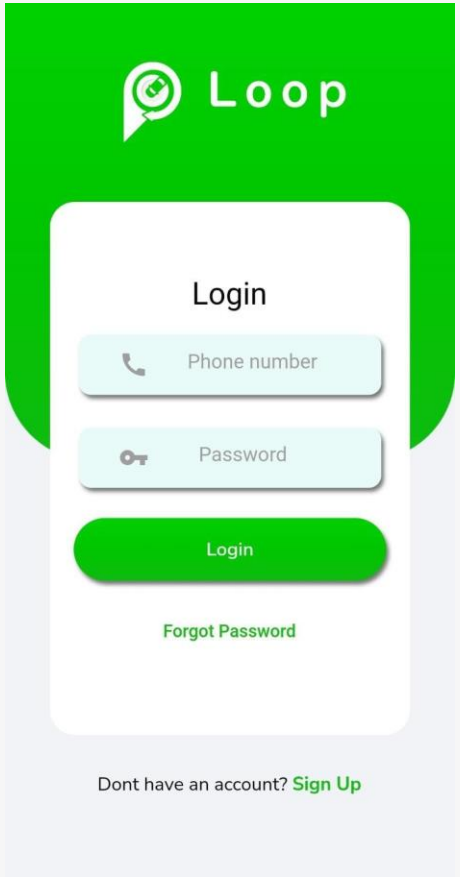


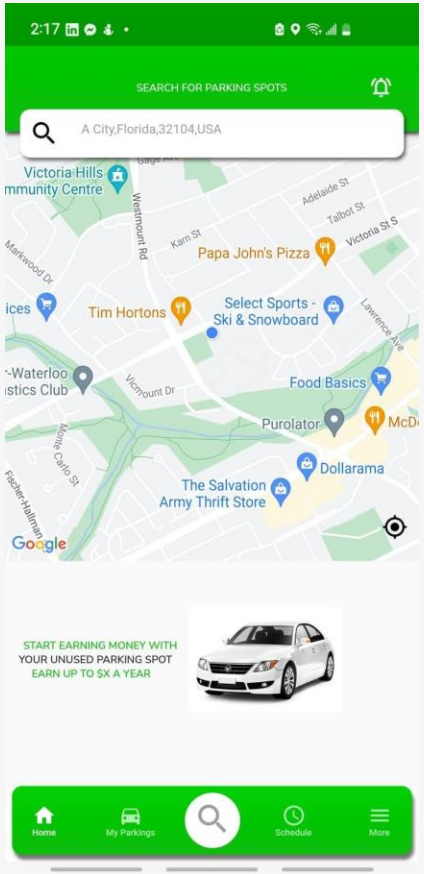
Parking App Screenshots

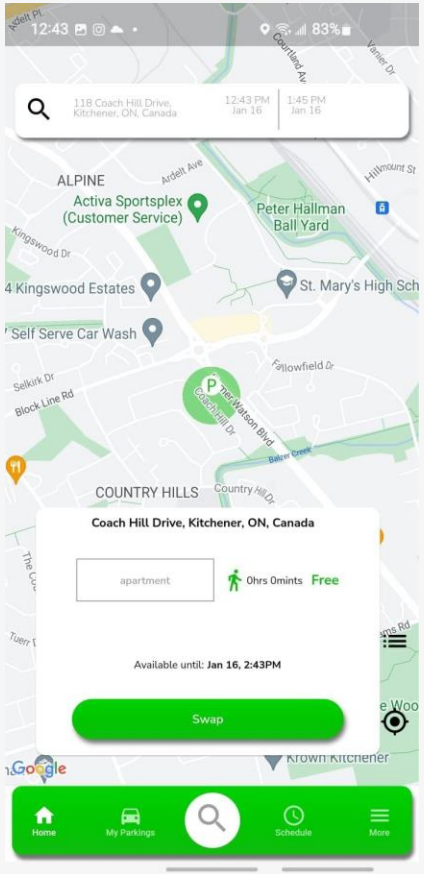
Loop.

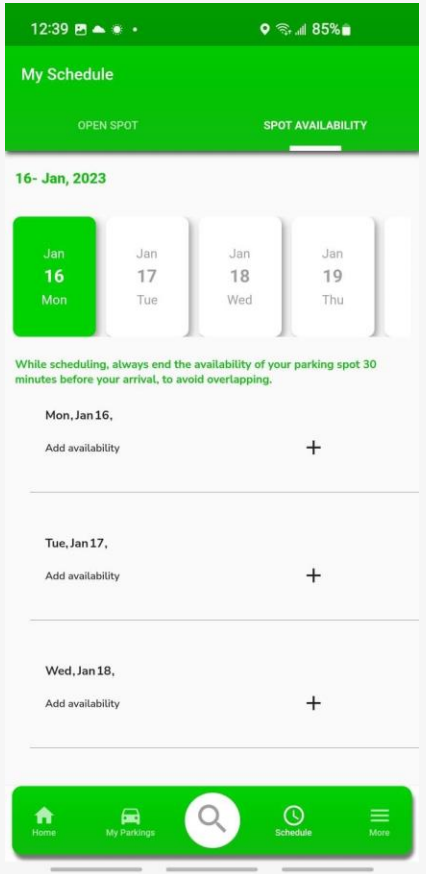
Reserve Spot | IoT Sensors | Real Time Occupancy Data | SpotSwap | Integrated Parking Management Software

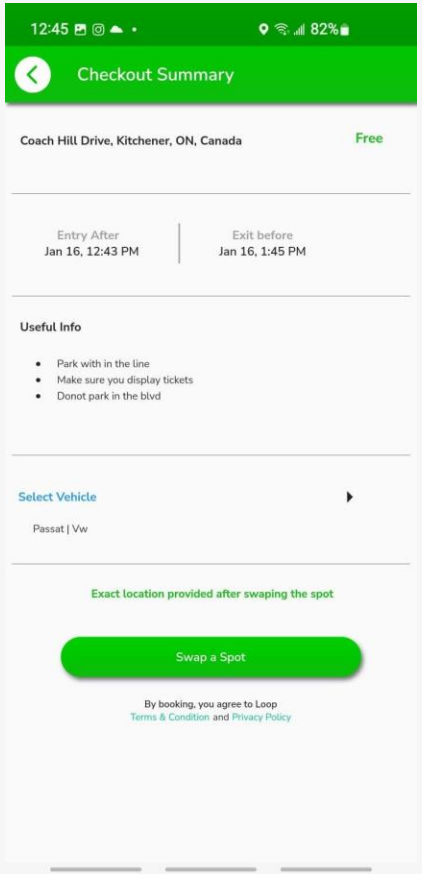
In App Payment | Optimized Route











Our Team

Loop.

Steeson Mathew
Co-Founder/ CEO

Rasmin A.S
Co-Founder/ CTO
AI/Machine Learning

Daison Mathew
Co-Founder/ CMO

Bijal George
Co-Founder / COO

Grant Brigden
Advisor
Co-Founder Rover Parking (**DMZ Alumni**)