

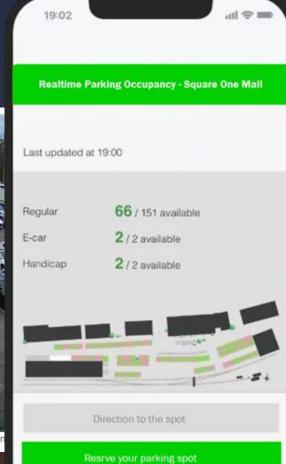




ParkSense +: Al Parking Detection System

For City of Brampton







Steeson Mathew



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Problems

Increase In Bike Lane Parking Violation



Credits - Barry Lavelle

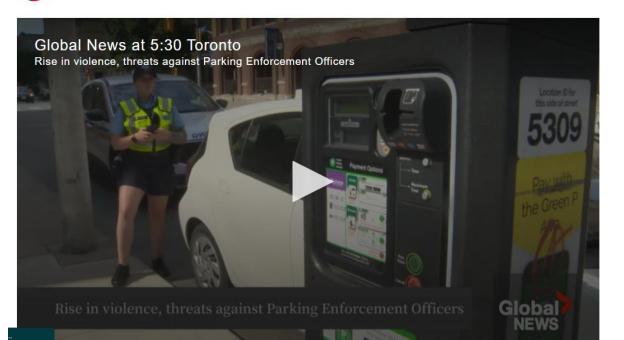


Increase in hate crime against parking enforcement officers

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



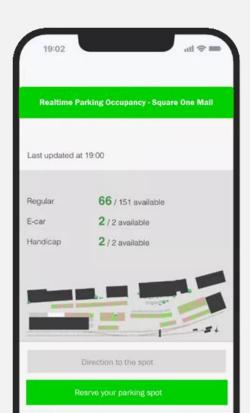
ParkSense+: Al Curbside Parking Detection System





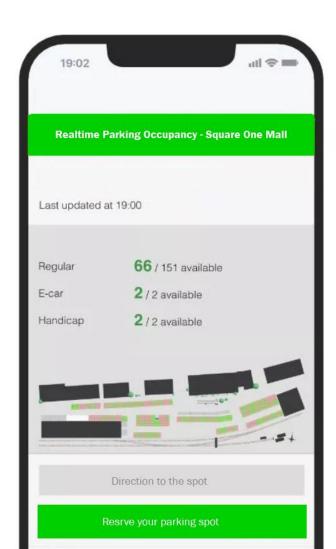
- Real-Time Parking Detection System
- Overtime & illegal parking detection Bike Lane Parking
- Historical Datas & Insights can be very helpful for future Planning

- 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



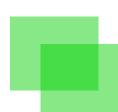
Solutions





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.





Case Study – Comparison – ParkSense+ vs Ground Sensors



For 230 Parking spots

- Setup Cost for ground based sensor \$ 90,000
- Setup Cost for ParkSense+ Saving nearly \$75k, Six\$times cost savings













Add benefits over sensors





- Cost effective Using Regular IP cameras
- No Need for civil work with ease of Installation
- Can use existing CCTV & IP cameras to cut the cost
- New IP cameras ? Cost can be shared
- Unlike ground sensors, No obstruction for Snow removal
- **Less Maintenance work**

ParkSense+





Real-time data



Fully privacy-compliant

Click Here For Live Demo



Automatic real-time alerts



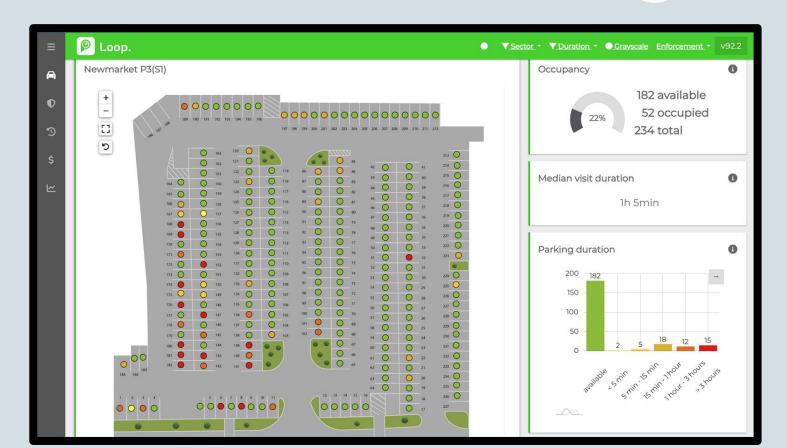
Insights historical statistics



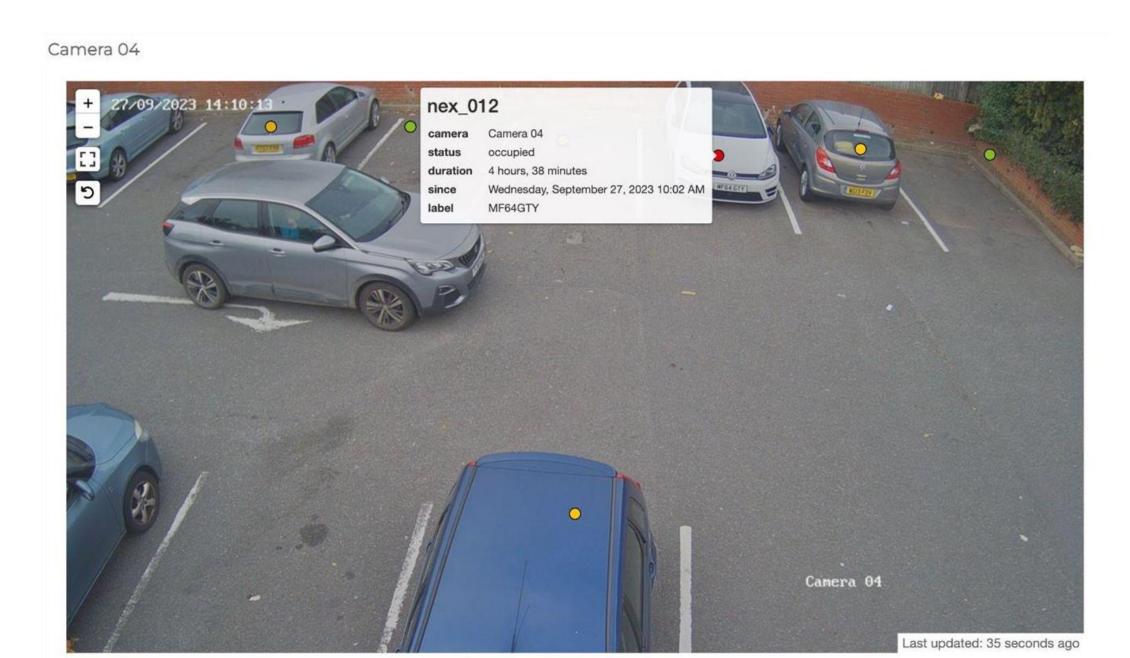
License Plate Recognition



Evidence for Issuing Citations



License Plate Recognition - Capability - New feature









We are eager to collaborate with City of Brampton on a pilot project, showcasing the transformative capabilities of ParkSense+

Supported By





















Making Parking Affordable & Sustainable

Join us in our Journey



Loop Parking



Info@loopparking.ca

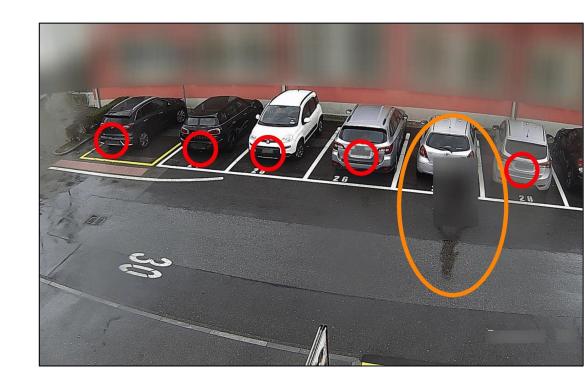


Privacy & Data protection



Both, On-premise & cloud analysis comply

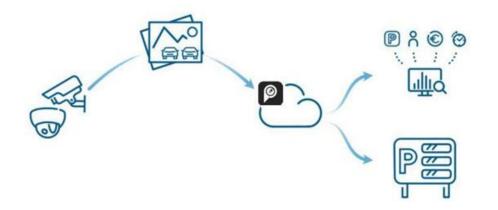
- We do not store any images.
- We automatically delete images after processing.
- Our solution automatically blurs pedestrians & vehicle number plates before image analysis to ensure data remains anonymous.
- If analyzed on-premise, the images do not leave the customer's premises but are processed and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



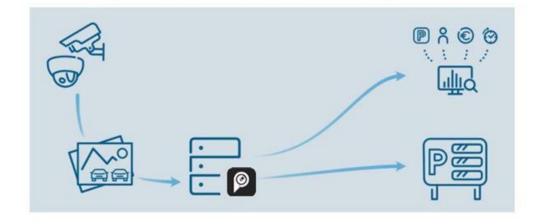
Server Options



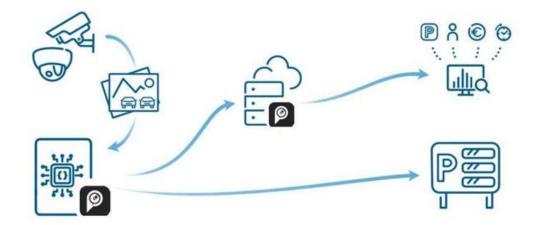
Directly From IP Camera - Cloud Processing

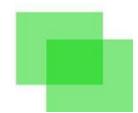


On-premise - Processing using Server



On the edge - Processing in edge

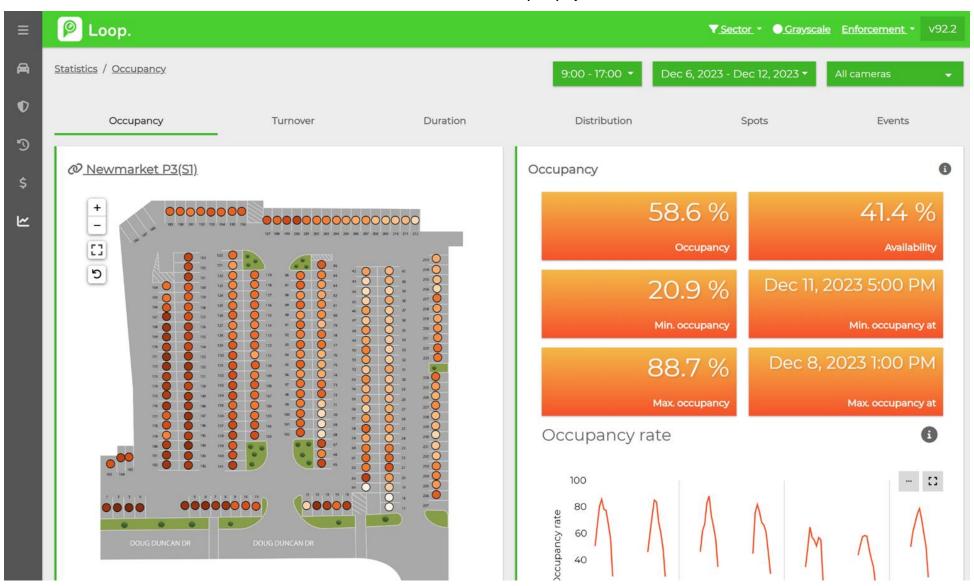




Insights & Analytics



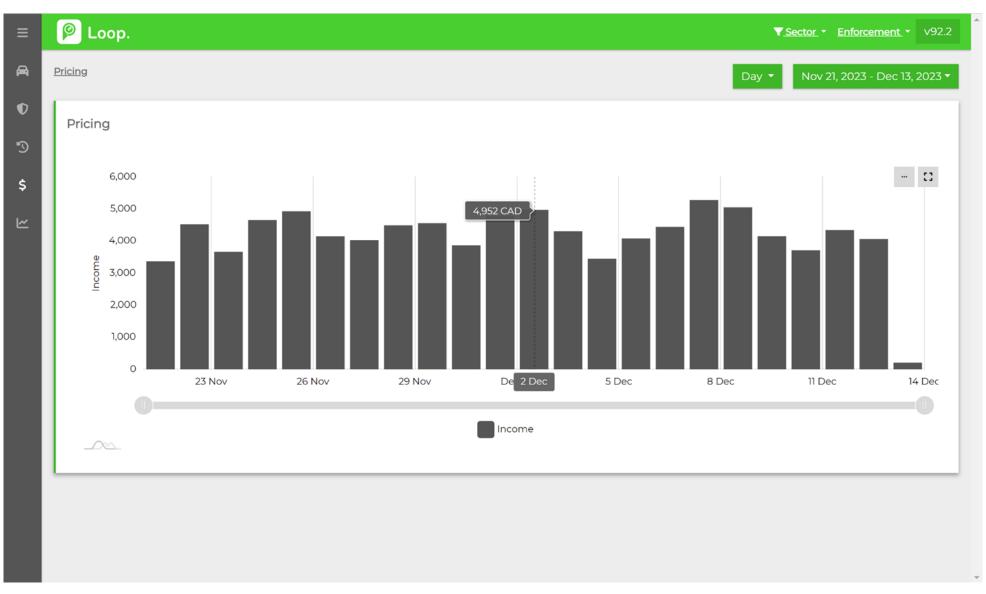
Screenshot from Town of Newmarket pilot project dashboard



Potential Revenue Generation - If \$1/Hr



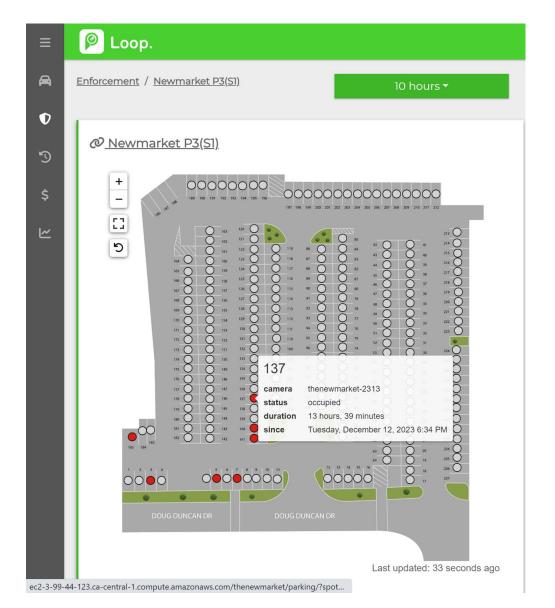
Screenshot from Town of Newmarket pilot project dashboard



Violations - Overnight Parked Vehicles

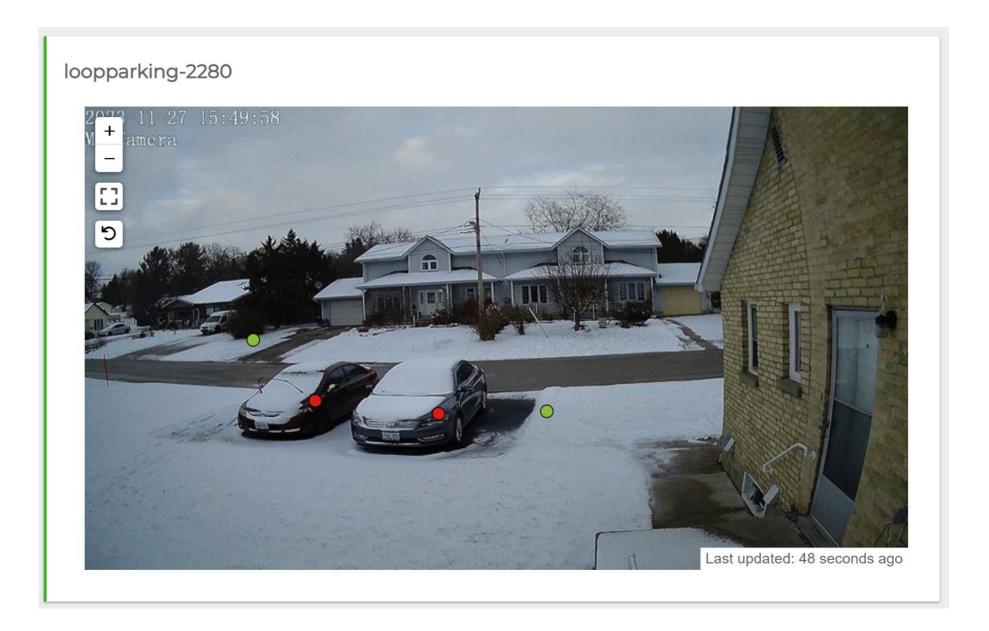


Screenshot from Town of Newmarket pilot project dashboard



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₽ \$	© \$	₹ \$				
141	15h 31min			•	Q	Q
185	15h 28min			•	Q	Q
140	14h 14min			m 4	Q	Q
5	13h 52min			m 4	Q	Q
137	13h 40min			1	Q	Q
3	12h 3min			• 4	Q	Q

ParkSense+ Performs well during Winter













Reserve Spot IoT Sensors Real Time Occupancy Data



SpotSwap





In App Payment

