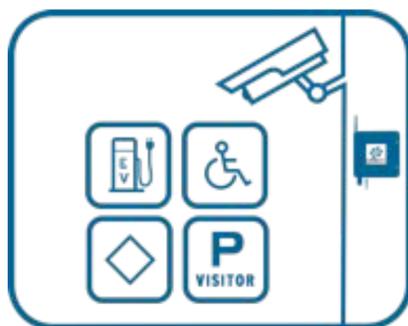




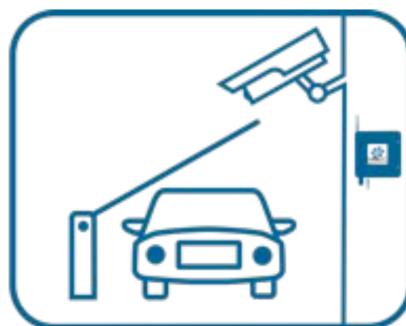
VIMOC introduces Artificial Intelligence to Smart Parking and Smart Mobility.



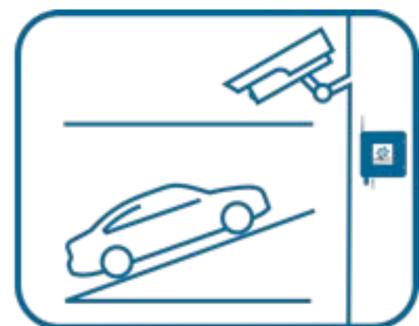
Single space



Crosswalk



Parking Occupancy



Parking level



VIMOC's deep learning Rosella™ Platform delivers highly accurate and reliable intelligence in real-time.

Embedded Applications



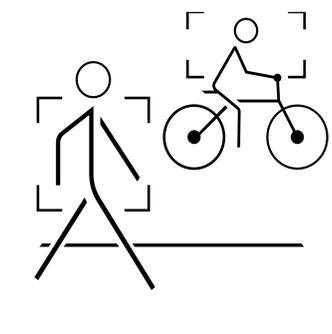
Smart Parking

The Smart Parking application fuses many features to improve the efficiency and ease of parking in surface lots and parking structures alike. General occupancy status, single space monitoring (especially for high value spaces such as EV, ADA, visitor, carpool), automated parking structure ventilation control and crosswalk safety can be mixed and matched in a flexible and dynamic system.



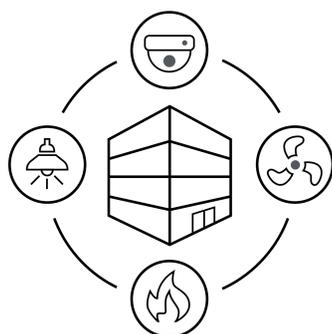
Smart Mobility

VIMOC's Rosella™ Platform distinguishes between various vehicle types, such as cars, busses and trucks, as well as bicycles and pedestrians. In addition to classification, the solution determines the direction of travel. This real-time intelligence is used to improve the safety and efficiency of transit hubs, intersections and transit paths in general.



Smart Ped/Bike Path

As urbanization takes center stage, there is a keen focus on accommodating pedestrian and bicycle travel. VIMOC's highly accurate Ped/Bike embedded application detects and classifies pedestrians and bicycles, as well as their direction of travel. The gathered intelligence enables safe route planning and implementation.



Smart Building

IoT implementations to date have relied on rudimentary sensors such as light, motion, and heat. VIMOC's vision-based Smart Building embedded application compliments these sensors by providing real-time and highly accurate intelligence to force multiply the effects of sensor fusion and redundancy. For example, having an accurate count of people on a given floor can significantly aid the fire and safety algorithms used in a Smart Building.



Smart Factory

Factory automation has made great strides in productivity and efficiency, but certain functions still often rely on human visual inspection. The Rosella™ Platform's Factory QA embedded application uses vision-based deep learning to detect material and tooling anomalies in real-time with highly accurate results. This solution complements and enhances the operator's precision.

Standing the Test of Time



One Platform

The Rosella™ Platform offers expansive embedded applications to create flexible and dynamic solutions.

Open API

The gathered intelligence is transmitted to the cloud and is available in RESTful and WebSocket API formats for customers and 3rd Party developers to visualize, feed workflows and invoke actions.

Real-time Intelligence

Raw sensory data is processed at the edge of the network and only the acquired intelligence is sent to the cloud. Therefore users can architect their implementation without having to consider the cost, latency, and limitations of bandwidth, or the security associated with connectivity.

Scalable & Flexible

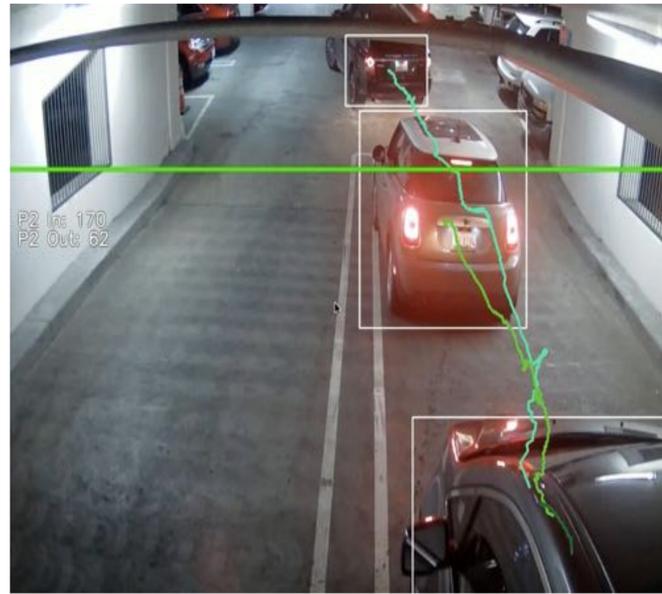
HD video is used as the sensory source for most Rosella™ Platform applications. Unlike specialty discrete sensors, video provides multi-dimensional data from its field of view. Using Artificial Intelligence, VIMOC repurposes the acquired data to various embedded applications to establish intelligence. After the video is analyzed, the video footage is purged in light of privacy concerns.



Successful Deployments



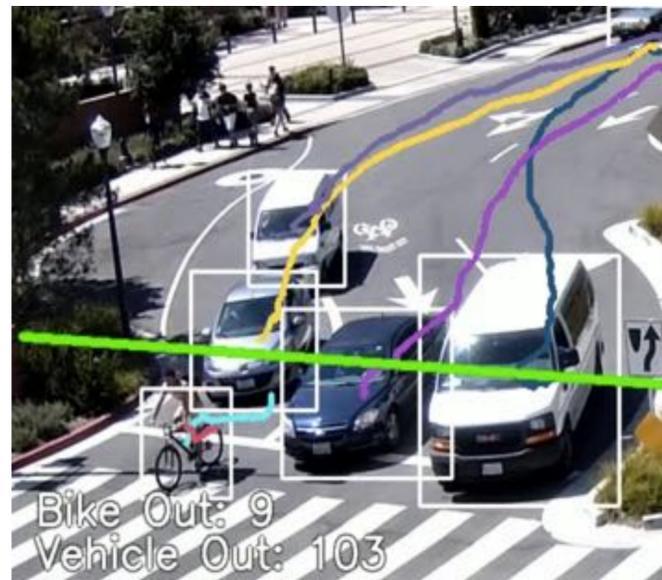
LED Signage



Two Way Ramp



Ped/bike detection



Multimodal Transportation

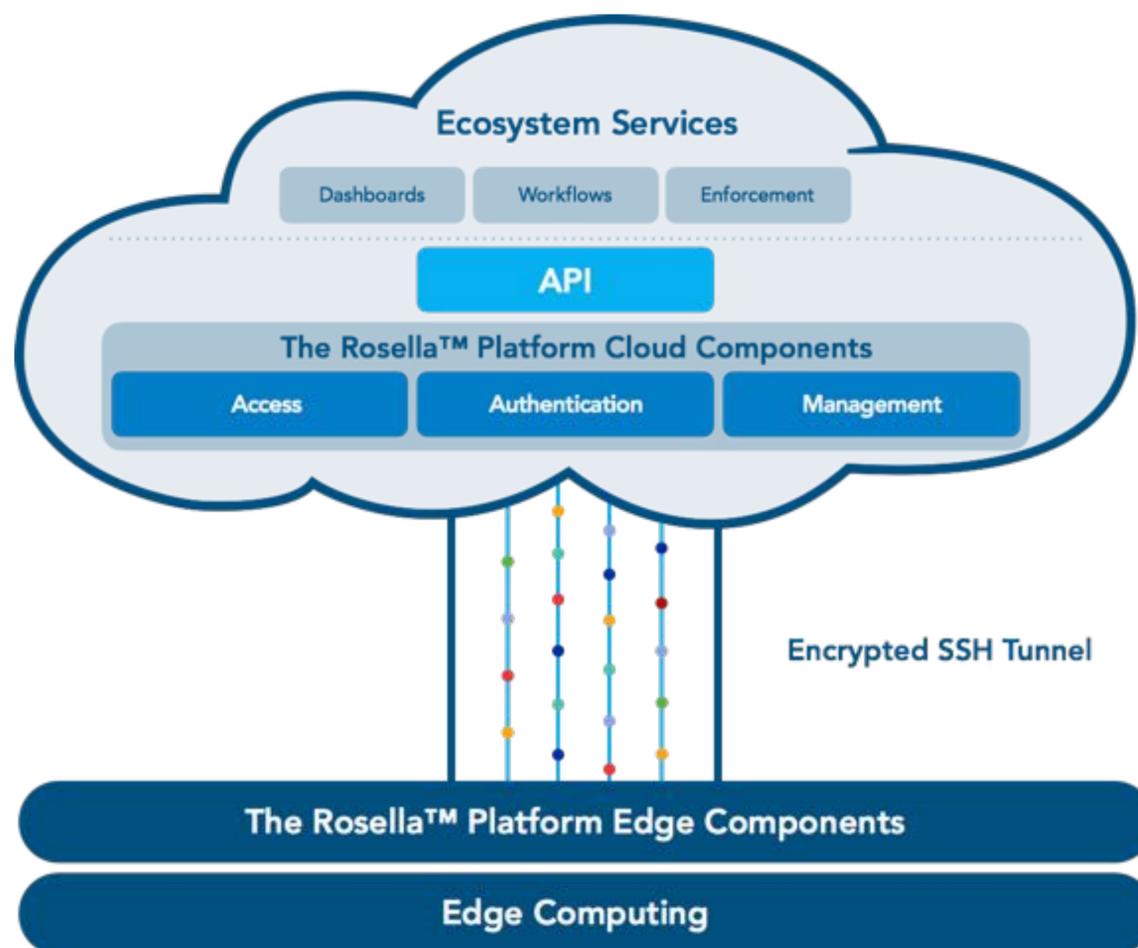


Safe Crosswalk



Single Space Monitoring

End to End Solutions



Edge Computing

On premise computing eliminates the inherent challenges of bandwidth, up-time, cost and security associated with Cloud computing. Once the video is analyzed, the actual video footage is discarded to adhere to privacy concerns.

Edge Intelligence

Smart Parking requires highly accurate and dependable intelligence to be available in real-time. Public and private parking infrastructures can build a loyal customer base when there is established trust.

Open APIs

Visualization, dashboards, workflow management, triggering actions and enforcement can be customized based on VIMOC's API offering. The last thing you want to do is to be locked into a solution that is difficult and expensive to modify as your needs change over time.

Cloud Software

The Rosella™ Platform cloud components enable remote control of assets by enabling authorized access, and user authentication for efficient operation. This reduces the need to dispatch service personnel for most requirements.

Encrypted SSH Tunnel

Computing and intelligence generation occurs on premise. The intelligence is transmitted to the cloud using a highly secure communication method, known as 'encrypted SSH tunnel.' The same secure channel is used for remote management of on-premise assets.

Ecosystem Services

By offering open APIs, VIMOC empowers 3rd party solution providers to offer unique solutions to meet a wide variety of requirements. Dashboards, analytics, enforcement and everything in between.

Testimonials

“Before the VIMOC system was installed, the Jefferson garage was running about 20% occupied on weekdays, and now it’s up to about 70% occupied.”

— Christian Hammack, Parking and Transportation Demand Manager, Redwood City

“Pedestrian safety always been of great concern to me, and now that we’ve installed VIMOC’s system it’s something that I don’t have to worry about.”

— Millie Kenney, Director of Parking & Transportation Services, Santa Clara University

“These sensors and the data they collect provide an unprecedented view of city activity.”

— Jonathan Reichental, Chief Information Officer, City of Palo Alto



sales@vimoc.com