

Miovision One™

One integrated platform for
comprehensive traffic
management

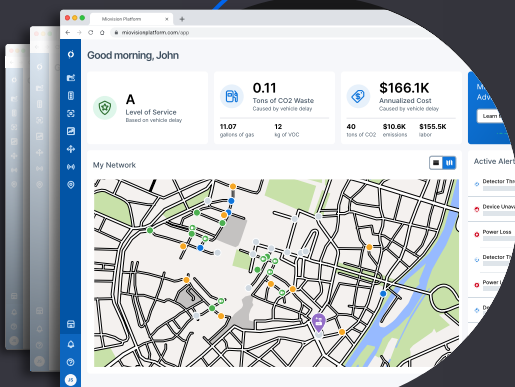


Miovision One

The integrated traffic management system that connects it all

The information you need to manage your network of roads is in different applications, with different interfaces and different hardware — each with their own contract and license agreement.

In order to see the big picture to best manage traffic, you need to collect and analyze the data in these separate apps — a costly and time-consuming task that will only provide a view that's in the past, enabling reactive decisions to correct a situation — instead of proactive decisions to prevent issues and streamline traffic flows.



Introducing Miovision One, delivering the power of one — one comprehensive cloud-based traffic management solution that integrates all of the data in all of your applications, providing the real-time view required to minimize congestion, travel times and emissions — and maximize safety.

Miovision One

Key Features



Comprehensive Traffic Management

Provides a range of traffic management tools, including cabinet equipment and signal monitoring, traffic data collection and analysis, and adaptive signal control, all in one platform.



Real-time infrastructure monitoring

Maximize the performance of your traffic-related infrastructure — for example, identify and prioritize signal timing and maintenance.



Outcome-based management

Whether your goal is to reduce traffic congestion, enhance pedestrian safety, reduce travel time and more, just define your outcome and receive a range of options and recommendations based on best practices.



Scalable

Grows with you as your needs change and expand.



Real-Time Traffic Monitoring

Real-time traffic monitoring and reporting capabilities, allowing transportation professionals to make data-driven decisions based on up-to-date information.



Advanced data visualization and reporting

Detailed reports, graphs and maps make it easy to analyze and understand a vast amount of data.



24/7 data access

Since Miovision One is cloud-based, data is accessible anywhere and anytime — all you need is an internet connection.



Unified interface for rapid adoption

When users learn how to interact with one application, they can easily interact with them all, able to intuitively access dashboards, help, technical support, notifications and more.

Miovision One empowers cities to create safer, smarter more sustainable intersections for their citizens, no matter how they travel.

Miovision One Benefits

A highly-efficient traffic network

Faster, data-driven decisions improve the effectiveness of traffic management, reducing congestion, drive time, idle time and emissions – and improving safety.

Improved safety

Visibility into potential hazards enables road safety issues to be addressed before citizen safety is impacted.

Cost effective

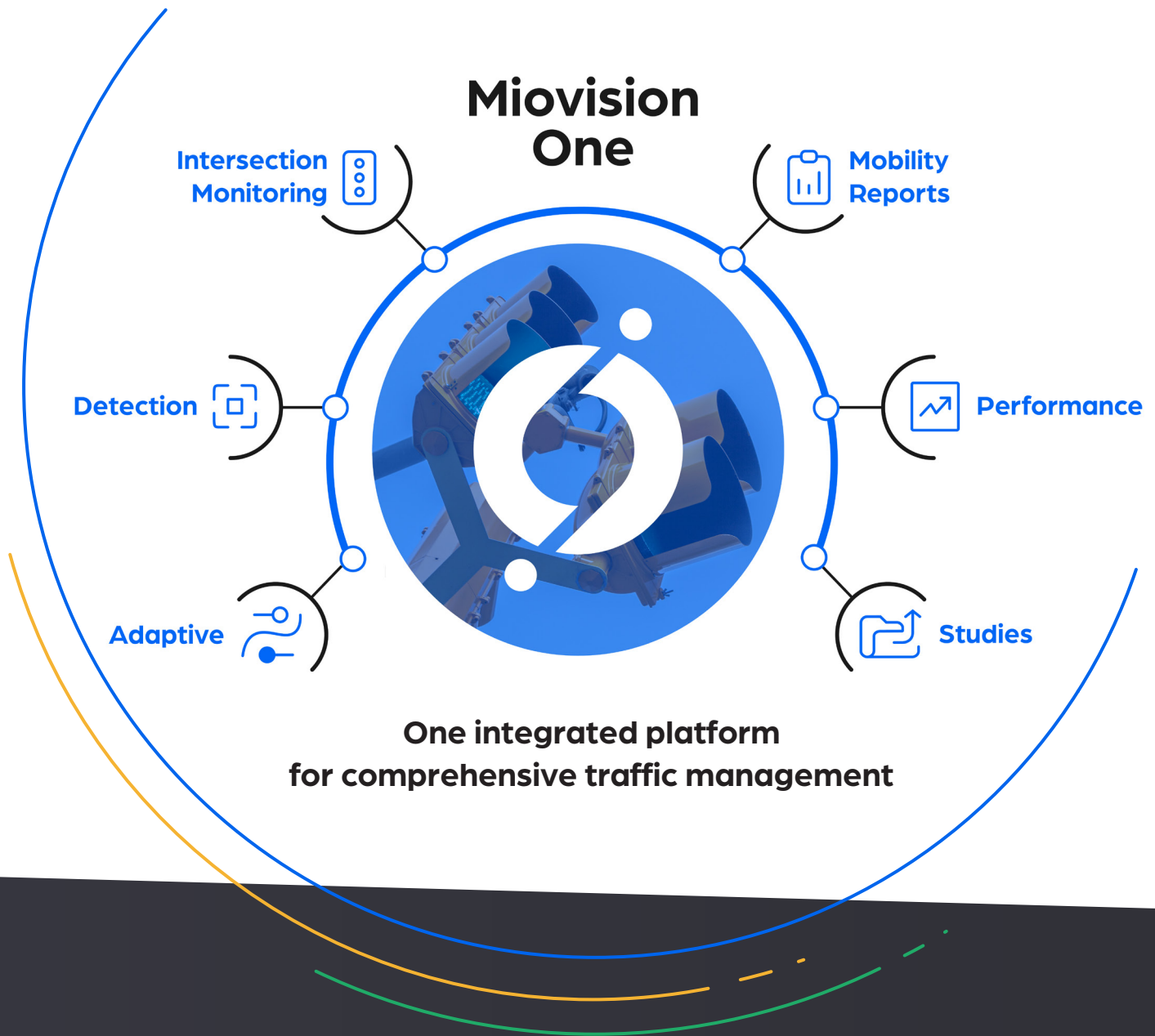
Miovision One fits in your budget. Purchase the system or purchase as a service and pay-as-you-go. The integration of applications into a single platform eliminates the need for multiple software licenses and reduces training costs. You can use your current standard sensors or upgrade to newer cameras that provide additional intelligence to further improve your traffic network performance. And automation and workflow efficiencies will greatly reduce the time and cost to manage your traffic network.

Improved workforce efficiency and collaboration

A single common easy-to-use interface for all applications enables easy sharing of knowledge across departments and teams – from engineering to operations. And the application simplicity and automation of traffic management enables you to solve more traffic problems with existing staff resources.



The Miovision One family of integrated applications



Miovision One applications



Detection

Versatile and customizable traffic data collection

Advanced sensors and analytics work hand-in-hand to provide a real-time count of the number of vehicles, bicycles and pedestrians that are in or approaching your intersections. You can count on data accuracy — the data consistently exceeds Traffic Engineering Research Laboratory (TERL) standards, delivering more than 98% accuracy at all times of the day in all conditions, rain or shine. Remote access allows you to easily configure intersections from anywhere — no need to dispatch workers. A rolling 90-day turning movement count makes it easy to view historical information to spot trends for any intersection, lane or corridor.



Intersection Monitoring

Remote signal management made easy

Know when a signal is malfunctioning, before your citizens have a chance to complain. Intersection Monitoring enables the remote and automated monitoring of the cabinet equipment located at each intersection — without driving around. Automatic SMS and email alerts notify you when an issue arises, such as a signal in flash, power loss or loss of connection. The urgency-based system provides the information you need to quickly identify and rank issues, so you fix the most crucial problems first. After the repair has been completed, you can validate the fix and share the results with team members and supervisors.



Adaptive

Intelligent dynamic traffic signal control keeps your city moving

What if your traffic signals could automatically and dynamically adjust as needed to keep traffic moving? With Adaptive, they will. Advanced sensing enables detection of vehicle, pedestrian, bus and bicycle traffic flow — and the data is constantly gathered from various types of sensors, including cameras, radar and induction loops. With Artificial Intelligence (AI) algorithms, each individual intersection creates its own optimized plan based on real-time traffic that is on the road, while coordinating with neighboring intersections to dynamically create broader traffic patterns to meet demand — all on a second-by-second basis.

Miovision One applications



Performance

Automatically identify traffic signal issues

This signal performance software identifies and prioritizes signal timing and maintenance issues to eliminate congestion caused by outdated signal timing and poor performing signal infrastructure. Machine learning algorithms continuously process your traffic data to proactively spot and provide needed maintenance before issues turn into citizen complaints.



Mobility Reports

Permanent multi-modal traffic counts

Mobility Reports is the ultimate traffic data solution for traffic management professionals. With continuous counts, you can access accurate and reliable data on vehicle, bike, and pedestrian traffic counts and movement patterns. This constant view of the multi-modal traffic on your road network provides the real-time and the historical information you need to make data-driven decisions to optimize traffic flow, improve safety on your roads and measure the ongoing effectiveness of your traffic management strategies.



Studies

Make informed decisions with accurate traffic data insights

Need data to support a specific project? Traffic Studies help transportation professionals and cities collect accurate traffic data and gain insights into traffic patterns, vehicle counts and other key traffic-related metrics to support a wide range of transportation-related projects, such as intersection analysis, traffic impact assessments, road safety audits and the impact of traffic on climate change. A portal makes it easy to: optimize project management from start to finish; coordinate traffic data requests internally or with external data collectors; select from a range of study types; organize, store and visualize data, all in one place; reference current and past projects; and more.



For more information on what Miovision One can do for your traffic network, please visit: miovision.com/miovisionone



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