

Transforming Traffic Engineering with AI

Introducing Miovision's Intelligent Agent for Modern Mobility

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Our Journey

In 2005, Miovision® set out to change the way traffic data was collected.

Miovision Scout® was introduced in 2008 and we started helping cities all over the world meet their goals to become smarter, safer and cleaner.

Data collected since 2008 has enabled us to create and advance our world-class Traffic AI technology.

The world's most trusted traffic data

30+ billion vehicles counted

1.5+ billion pedestrians counted

23+ million hours of traffic video

68 countries using Miovision solutions



Photo by Capri31, Waterloo, Canada

MIOVISION

Miovision Ecosystem

With the purchase of Miovision hardware and/or software solutions, you get a single platform that integrates the data from all of the applications you need to make traffic management easier, less time-consuming — and less costly.

Network Overview: Map view of all intersections, with quick access to key data and information

Global Location Configuration: Configure all of your intersections details in one place through intuitive workflow to facilitate future growth and expansion

Administrative Controls: Org & User Management, Device & App Management, Location Configuration

Security: Multi Factor Authentication (MFA) and Single Sign On (SSO)

Performance Measures (ATSPM): Traffic performance charts to help you evaluate your network



Miovision is a global leader in traffic data that helps cities plan and manage mobility

30+ Billion
vehicles count

1.5+ billion
Pedestrians counted

23+ millions
Hours analyzed

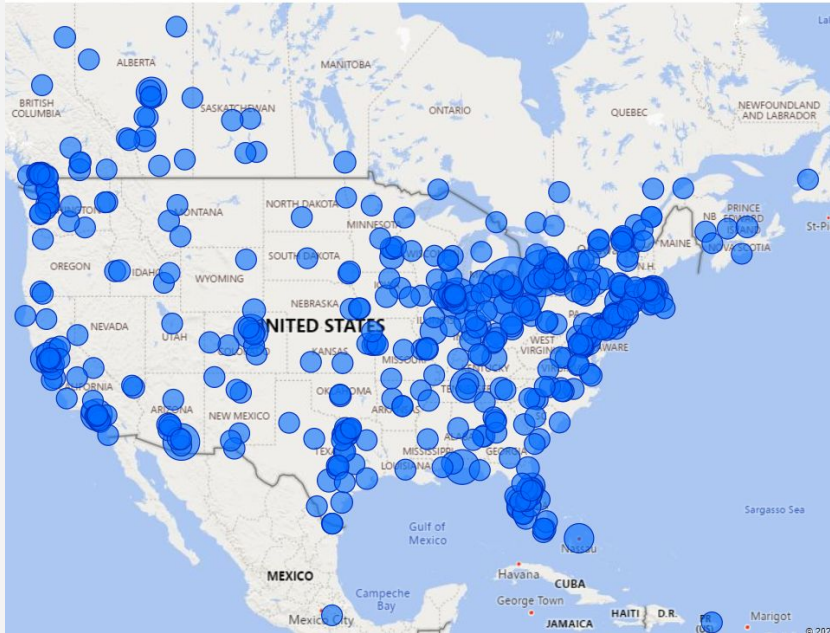
68 Countries
Utilizing Miovision solutions

Miovision Deployment Network

- 4000 + Detection and count locations
- 350+ Adaptive locations
- 2000 + Traffop locations
- 11000+ portable Scouts
- 95000+ Pre-emption Locations

Miovision Partner network

- 15 Distribution Partners
- Smart City partnership with AWS
- Communications partner with TELUS
- 5 major technology partner integrations



The Miovision One Interface

Bringing Operations Into One Platform

Key Message: One platform for operations, safety, mobility, and performance.

Performance

- Arrivals on Green
- Split Utilization
- Phase Failures
- ATSPM

Safety

- Near-Miss Analytics
- Conflict Monitoring

Priority Systems

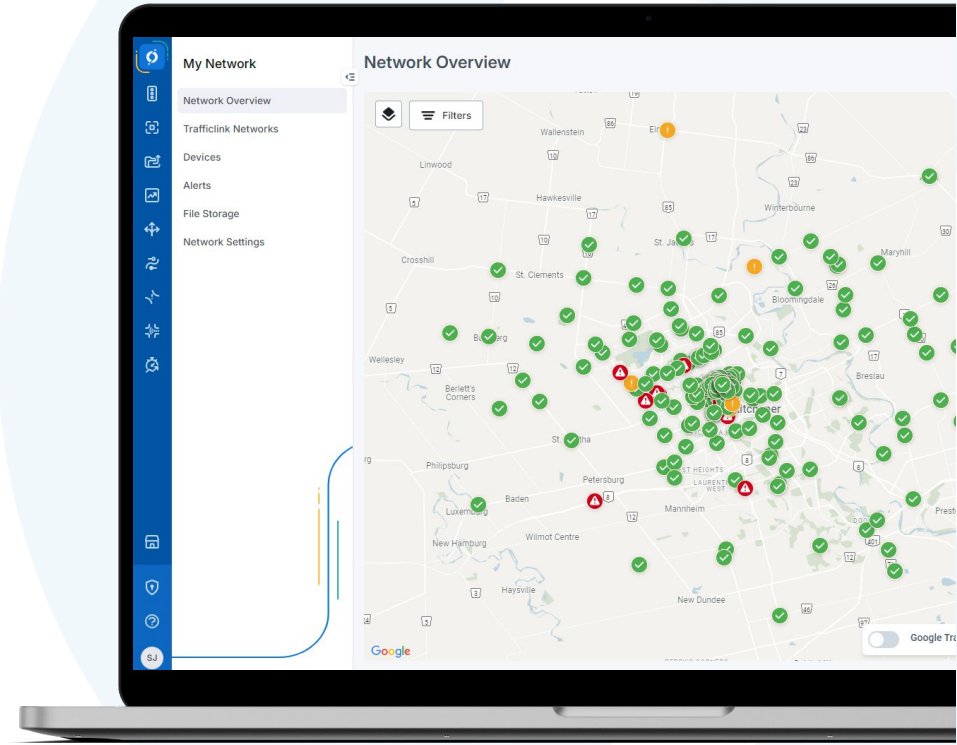
- EVP
- TSP

Mobility

- Travel Times
- Corridor Analytics

Counts

- Volumes
- Classification



Data Collection Everywhere

Devices That Generate Context





Miovision CORE®

- Secure wireless access to manage your intersections, and remotely monitor their status.



Miovision CORE® DCM

- Roadside video analysis for vehicle detection, multi-modal traffic counts, and event alerts
- Plug-and-play upgrade from Miovision Core



Scout

- Data collection equipment built for professionals who need to collect the right data the first time



Miovision SmartView™ 360

- Captures video for monitoring, detection, and analytics

Reliable data is the foundation of modern signal operations.

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Agencies Are Overloaded

More data than ever. The same number of people.



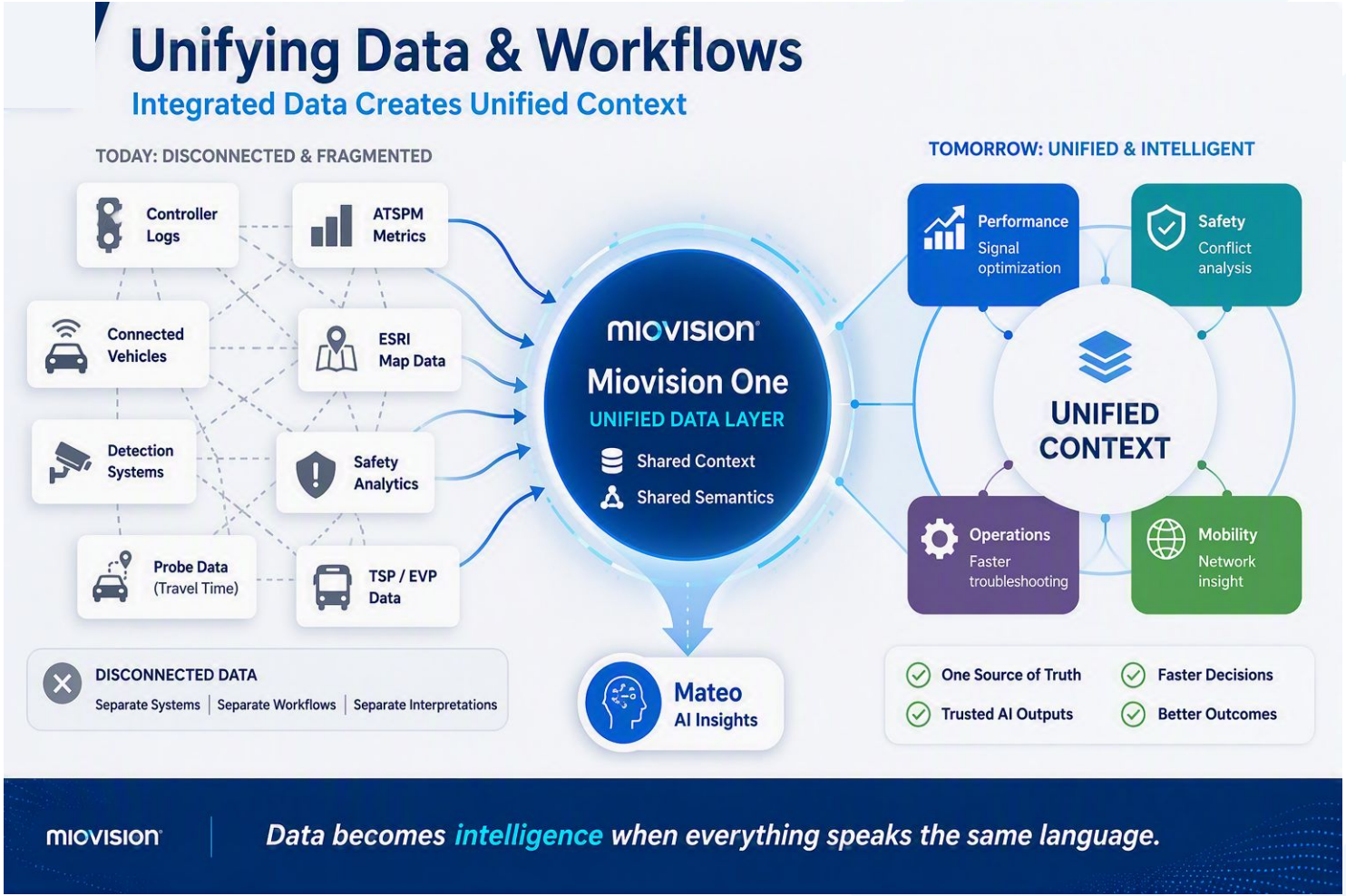
- Humans only have **so much capacity.**
- **Budgets are tight.**
- **Small teams** do more with less.
- **Fragmented systems** and data silos.
- **Manual workflows** waste valuable time.
- **Data volume** continues to grow.

We've solved the data collection problem.
Now we must solve the data interpretation problem.

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Unifying Data & Workflows

Integrated Data Creates Unified Context



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What is **Mateo**?

Mateo is an **AI-powered conversational assistant** embedded in the Miovision One platform. Mateo is a **domain-specific AI copilot** for transportation mobility, engineering, and management.

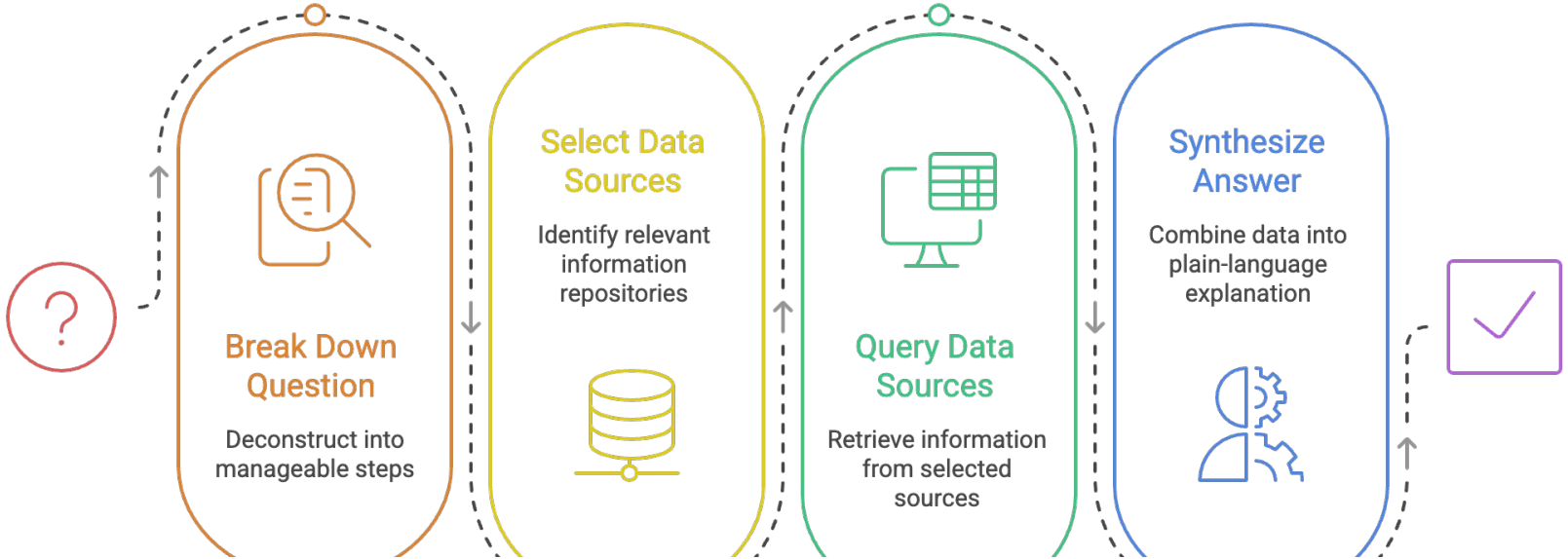


Mateo acts as a technical partner bridging massive datasets and scalable operations, transforming your team's reality from manual drudgery to proactive, evidence-based management.

Operating within a human-in-the-loop framework, the Miovision® GenAI Agent executes root-cause analysis in minutes, handling investigations that typically take weeks of manual effort.

"***M**iovision **A**utomated **T**raffic **E**ngineering **O**perator!*"

How it **Works**



Mateo Analyzes:

- Controller logs & ATSPM metrics
- Detection health & Probe data
- Mobility trends & System performance

Mateo Delivers:

- Summaries & Diagnostics
- Recommendations
- Explanations

Key Message

AI extends engineer capacity.

Mateo actively reasons about which tools to call and in what order. It's a co-pilot, not a chatbot.

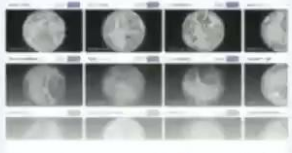
AI: Reporting & Analysis

What workspace do you want to create?

Describe a dashboard, report, or workflow and Mateo will start building.

I would like a map to show the busiest EVP requests by intersections. Please also includ

Start from a template | All | Detection | Intersection Monitoring | Mobility Reports | Mobility Studies



Live Camera Grid ☆ 3

Video-wall capabilities for your Miovision cameras. Live...



Executive Signal Dashboard ☆ 1

Signal performance dashboard summarizing economic and...



ATR Report Export Tool (PRN, MS2) ☆ 1

Turn any ATR study (onboard or otherwise) into PRN or MS2...



Intersection Data Explorer ☆ 0

Define metric rules and thresholds to find intersections...

Explore templates →

Mateo + AI Studio

Miovision GenAI Agent (Mateo) + AI Studio streamlines daily operations by turning complex data into instant, actionable insights and tailored reporting. From resolving public complaints to analyzing performance, it empowers teams to operate faster and make smarter decisions at every level.



Streamlined Citizen Complaint Workflows

Accelerate public issue resolution by drastically reducing the time it takes to gather, validate, and acknowledge complaints. Optimize your team's efficiency and improve public satisfaction.



Smarter Maintenance & Operations

Gain deep insights into ongoing operational needs. Effortlessly track hardware performance screenings, spot maintenance trends, and proactively manage your assets.



Advanced Engineering Analysis

Speed up data collection and analysis for critical traffic and safety studies—including signal warrants, safety evaluations, corridor progression, travel time reliability, and pedestrian/bicyclist safety.



Tailored Tools & Reporting

Build custom AI Studio workspaces tailored to your exact scope—from high-level network summaries for executives, to corridor tracking for active projects, down to intersection-level operational insights.

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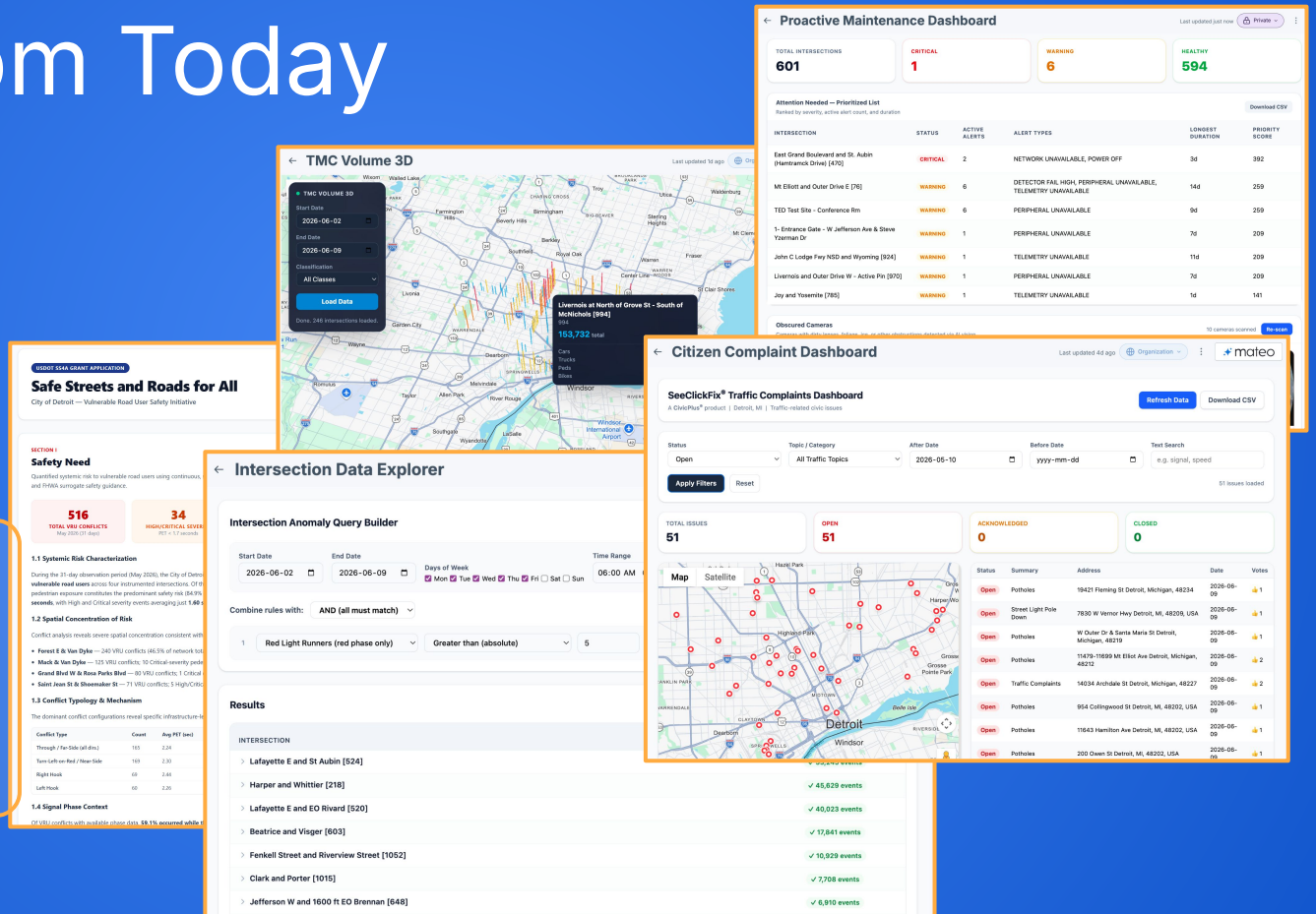
Possibilities You Can Benefit From Today

Here is a look at just some of the custom workspaces you can generate to streamline your workflow.

These examples only scratch the surface of what is possible—if your team can imagine it, Mateo can compile it in real time.

KEY TAKEAWAY

“Hours of investigation become seconds of conversation.”



The Future of Traffic Engineering: **Where This Is Going**



Next-Generation Autonomous Capabilities

- Multi-intersection reasoning
- Predictive operations
- Automated retiming recommendations
- Network-level optimization
- Multimodal decision support

Key Message

Small teams gain the capabilities of much larger organizations.

Automating complex network calculations lets agency traffic engineers scale their impact effortlessly across entire regions.

Three Things To Remember

1

Humans Only Have So Much Capacity

- Data growth outpaces staffing.
- Budgets remain constrained.

2

Unified Context Matters

- Integrated data creates understanding.
- Shared semantics create better decisions.

3

AI Can Help

- AI supports engineers.
- AI reduces manual effort.
- AI does not have to feel risky.

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Questions & Discussion

Thank you



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