

Model Every
Movement at
Every Moment.

aimsun.live

Aimsun Live simulates mobility in real time, allowing traffic managers to anticipate congestion on our roads and stop it before it happens.

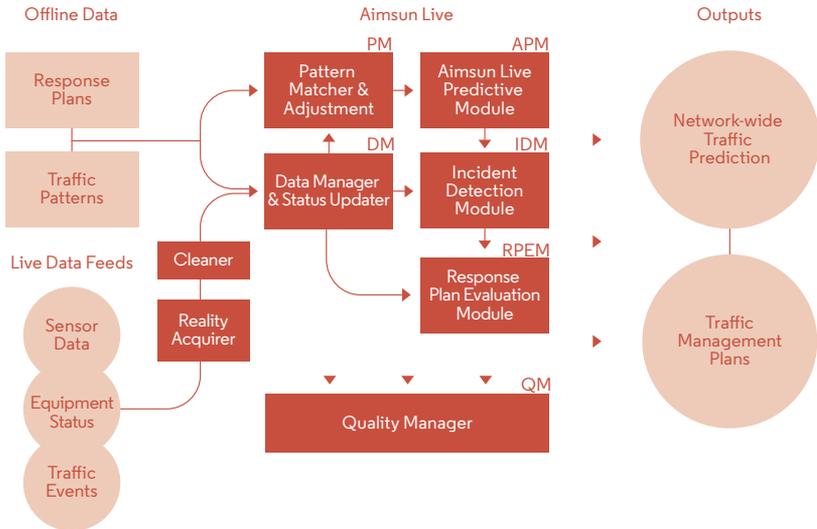
Aimsun Live combines historical trip patterns with real-time data feeds and then simulates every vehicle and every lane on a highway or city network to assemble a bottom-up picture of future traffic conditions.

In fewer than five minutes, traffic control room operators can identify the best strategy for avoiding congestion - without guesswork.

Already successfully deployed in several major world cities, Aimsun Live leads the way to smart highway systems and connected cities.

The Future is Now.

Aimsun Live's sophisticated, simulation-based monitoring procedure is supported by time-series analysis and not only produces accurate travel-time forecasts but also offers advanced incident detection capabilities.



Strategy Comparison without the Guesswork

Unlike traditional analytical forecasting processes, a lane-based simulation of individual vehicles permits an explicit and faithful emulation of ITS policies such as ramp metering, signal coordination, lane reversals or variable speed limits.

This allows Aimsun Live to reproduce traffic management strategies and compare quantitatively their ability to mitigate congestion before their implementation in the field.

True Prediction.

Aimsun Live slots right into the traffic control centre and continuously processes live field data, simulating vehicle movement inside a road network of any size, from a single highway corridor to an entire major world city. By combining these traffic data feeds with live capacity updates and faithful emulation of congestion mitigation strategies, Aimsun Live can forecast the future network flow patterns that will result from a particular traffic management or information provision strategy – regardless of whether there is a historical precedent or not.

Smart Traffic Management with Huge Impact.

- More effective and efficient incident management
- Reduced incident impact and quicker recovery time
- Earlier dissemination of incident information to the public
- Reduced manpower resources
- Shorter journey times and, as a corollary, increased economic savings

Aimsun Live Applications.

Using Aimsun Live as the analytical engine for any Advanced Traveller Information System (ATIS) or Advanced Traffic Management System (ATMS) allows for a wealth of applications:

- Predictive travel time calculations
- Intelligence-based transit operation
- Online travel information systems (pre-trip or en-route)
- Anticipative emergency vehicle rerouting
- Dynamic route guidance
- Emissions management
- Incident response strategy assessments
- Urban and interurban congestion early anticipation and management
- Security threat mitigation and large-scale evacuation management

The Aimsun Live Solution.

Whether you want to inform critical operational decisions or aim to provide better travel time predictions through a web portal, Aimsun Live is suitable for projects of any scale and complexity.

To help you get Aimsun Live off the shelf and onto the streets, we offer a complete solution that includes:

- Standard “boxed” software
- Model setup and calibration, typically in partnership with reputable transportation modeling consulting firms
- Integration with your ATMS, working closely with your systems provider
- Customization of the web user interface
- Training for support personnel and users
- Ongoing expert support and software maintenance

Customized Performance Indices

Control centre operators choose the best strategy by consulting a series of concise, individually rated temperature maps.

With access to individual vehicle delays, travel times, position, pollutant emissions, speed, route and many other characteristics, the measures of effectiveness can be as complex as you like.

Rich Dynamic Traffic Assignment

Aimsun Live features a rich combination of dynamic traffic assignment (DTA) techniques within the same simulation to give the most realistic representation possible of network behavior.

Both dynamic user equilibrium (DUE) techniques and stochastic route choice models are supported allowing the simulation to reproduce the mixture of behaviors observed in reality.

Continuous Self-monitoring

For enhanced forecasting accuracy, Aimsun Live includes a module that continuously compares forecast performance against field measurements received once the prediction period has passed.

Forecasting errors give rise to alerts and also adjust the confidence associated with forecasts produced during that same period.



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