ATMS

Advanced Transportation Management System

ATMS Advanced Transporatation Management Platform

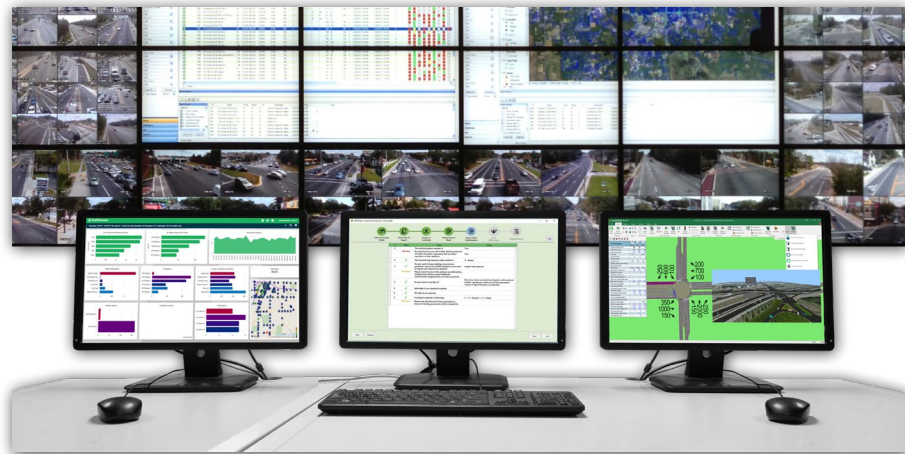*The foundation of an effective ITS solution for smart communities.*

Powerful Platform, Field Proven

For 40 years, Cubic | Trafficware has been providing the transportation industry's most advanced traffic control hardware and software. Trafficware's ATMS platform provides the fundamental elements of a transportation infrastructure vital to the economic growth, quality of life and safety for any size community. It is important to partner with a company like Trafficware whose field-proven systems stand up to the demands of growing transportation challenges.

Meets and Exceeds the Latest Standards

Our ATMS provides a modern graphical user interface (GUI), intuitive controls and new feature sets that maximize agency productivity and the use of scarce technical resources. ATMS implements industry standards such as NTCIP and NEMA and is designed to specifications published by FHWA, ITE, IMSA, Caltrans and other industry leaders. It provides a level of integration with other manufacturer's devices that is unparalleled and offers unmatched flexibility in order for the agency to maximize and leverage current infrastructure investments.

Life Just Got Easier - Synchro®/ATMS Integration

Traffic Engineers can directly exchange and modify traffic patterns, ring sequences, alternate tables, overlaps, split tables and other parameters, dramatically improving productivity working between platforms and allowing collaboration with colleagues in the same office or across the globe. No more having to manually enter data!
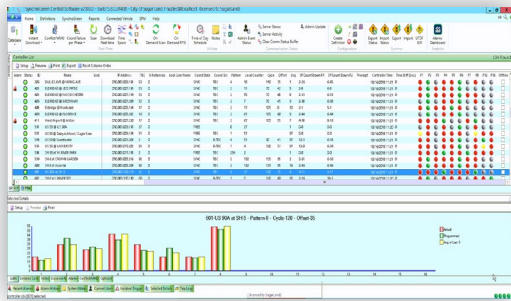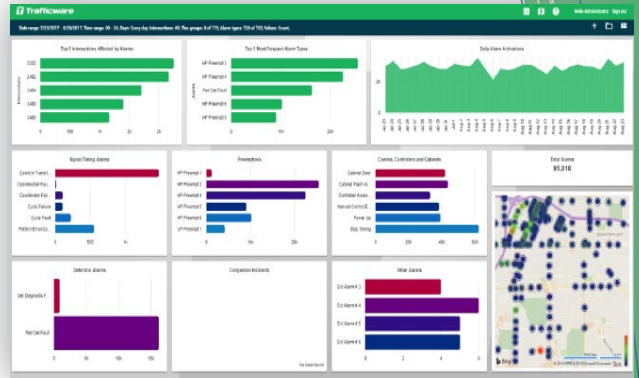
Designed for Smart Cities

From the latest Connected Vehicle technologies, web-based tools like Signal Performance Measures, to the System Dashboard that provides insightful business intelligence, Trafficware's ATMS is helping Smart Cities all over the world address the challenges of transportation management. ATMS continually evolves to meet today's needs thanks to direct input from hundreds of Cubic | Trafficware customers.

Key Advantages

Alarms Dashboard

The ATMS Alarms Dashboard provides a new "at a glance" perspective of critical system information. It is a business intelligence analytics tool that provides seamless, dynamic and interactive system monitoring, allowing Traffic Engineers to identify potential reliability issues and focus on improvements to the flow of traffic.
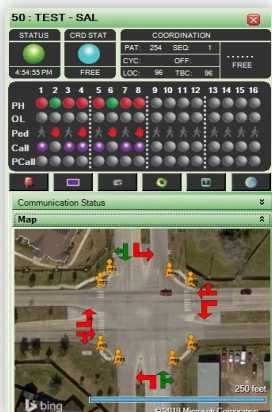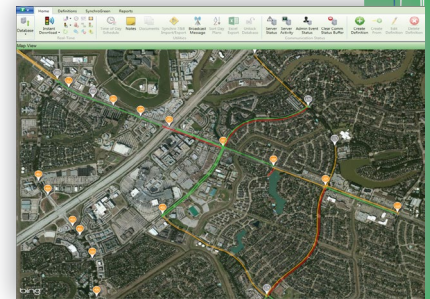
Modern Interface

Cubic | Trafficware has created a modern, intuitive interface for the system operator. ATMS is based on Microsoft standards and is immediately familiar to new users. ATMS comes standard with several configuration templates, but also has an array of customization options for power users. ATMS provides "ribbon" controls featuring intuitive icons for all system commands and functions.

Map View

ATMS features Map View as the default status, allows the user to view the current operating conditions of the system at a glance. The Map View graphically illustrates system status, activity, devices and performance. The Map View not only indicates traffic signal status, but also shows congestion levels (MOEs), live camera feeds, dynamic message signs (DMS), roadway closures and more.
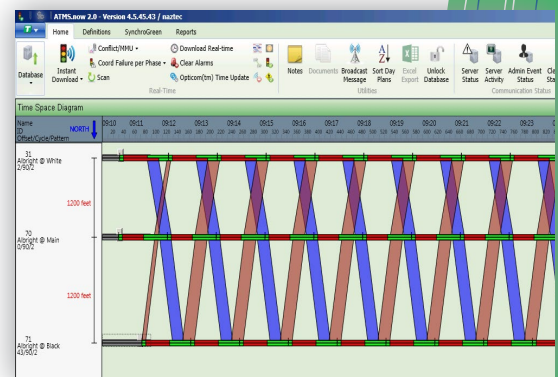
Signal Controller Scans

The updated Signal Controller Scan improves upon Cubic | Trafficware's pioneering concept and provides an intuitive interface and modern graphics that illustrate real-time signal status. The Signal Controller Scan is designed to be a "heads-up-display" for all traffic signal activity.
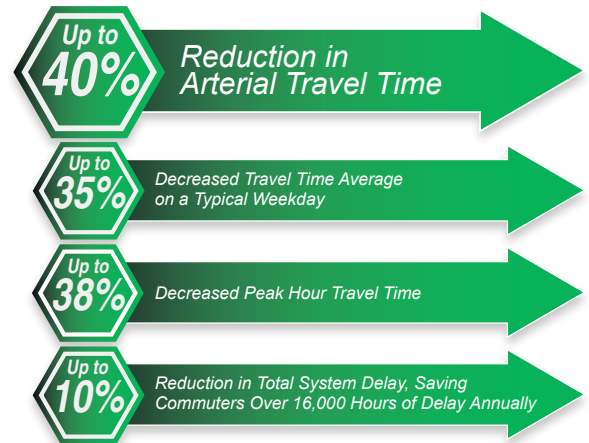
Time-Space Diagrams

The new ATMS time-space diagram has the same look and feel as the time-space diagram within Cubic | Trafficware's flagship simulation software Synchro. The new ATMS time-space diagram allows users to plot real-time signal controller data by selecting a group of intersections in order to optimize traffic signal coordination.

SynchroGreen® Adaptive Traffic Control

Designed by traffic engineers for traffic engineers, SynchroGreen is the fastest growing adaptive traffic signal control system with proven and measurable results. SynchroGreen adaptive optimizes the cycle, offset and split signal timing for arterials, side streets, and pedestrians. SynchroGreen Adaptive can be used in conjunction with Transit Signal Priority and Emergency Vehicle routing.

Cubic | Trafficware's field-proven solution is designed to reduce motorist travel time, delays, and stops while also maximizing the use of available roadway capacity and decreasing fuel consumption by reducing idle times, ultimately, reducing emissions.

Up to 40% — Reduction in Arterial Travel Time

Up to 35% — Decreased Travel Time Average on a Typical Weekday

Up to 38% — Decreased Peak Hour Travel Time

Up to 10% — Reduction in Total System Delay, Saving Commuters Over 16,000 Hours of Delay Annually

Based on actual project results

Signal Performance Measures (SPMs)

SPM in the Trafficware Cloud Service is an out of the box cloud-based solution to store and analyze high-resolution data collected from traffic signals, providing access to the information at any time.

By taking advantage of SynchroGreen's automated data collection and analysis, Traffic Engineers can make better and more timely decisions that improve public service. The SPM in the Trafficware Cloud Service is a fundamental building block for any Smart City initiative and lays the groundwork for "Smart Traffic Signals".

Most Widely Used Connected Vehicle Technology

Cubic | Trafficware's Connected Vehicle application is already deployed in more than 3,300 intersections and growing. No other company can make that claim.

Smart City applications require data provided by signal controllers, sensors, and central management software, whether through DSRC or cellular technologies. ATMS provides the critical information auto manufacturers require for Connected and Autonomous Vehicle applications.

Other ATMS features include:

- Continuous real-time scanning. ATMS can manage a multitude of events autonomously, improving reach across the enterprise and facilitating a quicker response time.
- Integration with other ITS manufacturers and devices.
- Integration with third-party applications.
- Integration with DevExpress Reports engine.