

Clark County Area Centralized Signal System

– Joint ATMS

Before / After Report

Washington State Department of Transportation



Project Information:

Federal Funding Program: CMAQ

RTC Awarded Funding: \$149,000

Total Project Cost: \$200,000

Project Type: TSMO

Project Corridors: Clark County-wide,
including SR 503 and SR 500

Function Classification:

Multi-jurisdictional Urban Principal Arterials



Project Goal

State highway and local arterial corridors in Clark County intersect in many locations, and run parallel to each other areas. Until now, the traffic signal systems throughout the county had no communication or integration of systems that would enable a system wide signal systems operation and coordination. The physical equipment in all of these jurisdictional signal systems is compatible with each other, but the software to integrate them all was lacking. This project's goal is to purchase and install the Trafficware ATMS.Now traffic signal software into WSDOT's corridor traffic signal systems in Clark County. This will enable the traffic signal systems at WSDOT, Clark County, and soon to be City of Vancouver into an integrated regional traffic management system, where all corridor signal data is available and usable by each local agency and WSDOT.

Project Description

The ATMS.Now integrated signal system software is now installed in all WSDOT traffic signal controllers and corridors in the greater Vancouver/Clark County population center. ATMS.Now will provide improved traffic data to allow traffic managers to monitor, analyze and modify signal timing that will optimize corridor traffic flow at any given time of day.

The region's traffic signals can now be integrated and coordinated consistently in the various transportation corridors having shared jurisdictions. Data is easily accessed and the software provides alerts when incidents or when unexpected congestion and delays occur. The systems are connected with communications to the jurisdictional

Traffic Management Centers, who will benefit from the array of live cameras and improved systems communications that will allow for optional corridor signal timing and operations.

Project Funding

Phase	Year	Federal Funds	Other Funds	Total
PE				
ROW				
CN	2018	\$ 149,000	\$51,000	\$200,000
Total		\$149,000	\$51,000	\$200,000

Project Outcome

This project expands Clark County’s licensing of the Trafficware ATMS.Now system tht will allow WSDOT to migrate various regional traffic signals onto the county’s server based system. This will be particularly beneficial to signalized WSDOT intersections that interface with both Clark County and City of Vancouver streets. This centralized system will prvide a wealth of operational informatioin to traffic management centers (TMC).

An example of the system is that it can look for unusal congestion occurances and forward email alerts to TMC. Another example would be when a signal on the system has a power outage and goes into red flash mode. The centralized system sends an email to the TMC, informing htem of the problem and itslocation. The system can also detect failed loop vehicle and pedstrian detection and notify the TMC.

The ATMS.Now centralized systme logs large amounts of traffic data that WSDOT can use to benefit traffic signal coordination throughout a corridor. Analysis of these types of data will allow the traffic engineers at WSDOT to be able to modify the timing of their corridors and insure that the signals are providing optimal service to the traveling public.

Project Vicinity Map

