

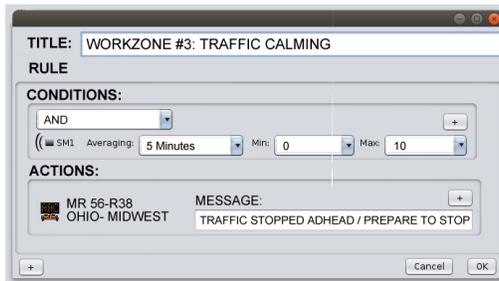
I N T R O D U C I N G

Smart Zone

SolarTech's work zone ITS software

Solar Tech's new Smart Zone software makes work zones safer for both motorists and workers. Built on a private network, Smart Zone safely gathers and analyzes data from various sensors, and sends the data to your traffic management system. From there, either with or without human intervention, messages can be triggered on portable changeable message signs (PCMS), which will reduce traffic speeds, display travel times, and suggest

alternate routes, thus reducing accidents and keeping workers and motorists safer.



Smart Zone is an important component in work zone Intelligent Transportation Systems (ITS). Cameras, radar (Doppler and/or Side Fire), traffic volume detectors and weather sensors can be used to gather data in real time. Modems transmit the data wirelessly and securely to servers which process and analyze it and then communicate instructions to motorists.

Unlike other software, Smart Zone requires no third party programming to establish parameters for message changes. You determine what you want to have happen, and configure the software to trigger messages based on those desired outcomes.

Traffic Calming Example:

Smart Zone is used to create a dynamic traffic control system that warns and informs traffic based on real-time conditions. For example, using data analysis for time of day and traffic volume, here's how Smart Zone might help calm traffic:

At 5 a.m., a workzone with a lane closure and light traffic volume may only need warnings to alert drivers to reduce speeds.



At 5 p.m., the same workzone with rush hour traffic may need – in addition to speed reduction messages - to display more advanced warnings, show travel times through the zone, offer alternate routes, and merge traffic at a specific point.



Real-time data from Smart Zone can be used for:

Driver Info – By knowing current conditions, drivers can anticipate delays or choose alternate routes.

Queue Warning – Automatically displaying messages to warn motorists of slowing or stopped traffic ahead.

Dynamic Lane Mergers – Encourages merges at a specific point.

Incident Management – Faster detection of incidents, and quicker response and clearance.

Variable Speed Limits – Speed control to calm traffic for slow or stopped traffic ahead.

Entering/Exiting Vehicles – Notifications can be displayed for emergency or construction vehicles entering or exiting the zone.

Performance Measurement – By monitoring and archiving traffic data, Smart Zone can be used to evaluate and critique performance-based contracting.



Putting the "Smart" in Smart Work Zones
www.solartechology.com

Smart Zone



Using Smart Zone benefits the traveling public, the contracted construction company and the community at large. Here's how:



SAFETY:

Smart Zone helps minimize the risks to both motorists and workers by slowing traffic and ensuring smooth merges.

CUSTOMER SATISFACTION:

Data gathered by Smart Zone can be relayed to websites, the media, even phone apps. By keeping motorists informed using real time data, they can make wise decisions about altering their travel time or routes.

MOBILITY:

A major source of stress to motorists is travel time delays in work zones. By using Smart Zone, motorists are advised as to actual travel times, and know what to expect.



PRODUCTIVITY:

Contractors find that by using Smart Zone as part of their ITS, their productivity improves, thus lowering costs and days of construction. For example, lane closures don't need to occur at set times (e.g. dawn to dusk) but can vary due to volume and road conditions.



HOW SMART ZONE IS DIFFERENT:

Smart Zone uses a private network to transfer the data. Private networks include authentication controls, with both personal and location protections, making them more secure than public networks, thus increasing privacy and security.



Scan Me!



Ask to see a demo: 800-475-5442



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