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CHALLENGE

Despite the current state of the regional economy, New Hampshire forecasts continued growth in both traffic volume and congestion in major transportation corridors throughout the State. To accommodate the increase, the New Hampshire Department of Transportation has established a multi-faceted approach to managing state roadways. NHDOT sought a secure wireless system to improve traffic monitoring and emergency communication.

SITUATION

Green Mountain defined the right-fit wireless solution that would deliver results. This wireless ATMS project was the first of its kind for the State of New Hampshire Department of Transportation. As a key component in this initiative, Green Mountain designed and implemented a wireless communications system that would improve operations, relieve congestion, enable quicker responses to incidents, and make traveling and working in New Hampshire safer for the public and construction workers. This wireless communication infrastructure along the I-93 Corridor in Southern New Hampshire is the first project of its type for the State.

SOLUTION

Green Mountain deployed an advanced traffic management system (ATMS) on the Southern New Hampshire corridor along I-93 and I-293, as well as Rte. 101. The project included new Intelligent Transportation System (ITS) field devices and a wireless communications network that connected the field devices to the existing NHDOT in Concord.

RESULT

The results of Green Mountain's solution yielded better communication channels, improved response times emergency management, and increased visibility and control. The wireless system enabled the NHDOT to share traffic operating conditions on I-93 with local municipalities, adjacent states, and media. The system let the NHDOT provide advanced warning of roadway and weather information to motorists traveling through the I-93 Corridor, while also controlling I-93 traffic using variable speed limits in response to incidents. The wireless system implemented by Green Mountain also helps the NHDOT reduce traffic congestion and improve situation management on I-93, as well as manage I-93 traffic during construction and during incidents to reduce impacts to local roads within the corridor.

LONG-TERM BENEFITS

Green Mountain's solution has allowed NHDOT to overcome many of the challenges of traffic volume and congestion in New Hampshire's major transportation system and has improved operations in the areas of construction management, work zone safety, congestion mitigation, and incident response.

"NHDOT is pleased to have partnered with Green Mountain on its current I-93 ATMS project. It is a collaborative working relationship. Green Mountain has always been very responsive to departmental requests. They have been a pleasure to work with. I am glad we selected the right team for this project,"

Denise Markow, TMC/ITS Project Manager.