Road maintenance is impacted by many factors from crew scheduling to resource allocation, weather to traffic. Empower your maintenance supervisors with a system that evaluates the roadway and responds to the effects of chemicals and weather.

Meridian’s transportation-focused suite of weather management tools allows you to find a solution to fit your maintenance decision needs. Our MDSS provides detailed and accurate information so you can maintain your roads while maximizing your resources and reducing costs. Meridian brings maintenance and weather into a “one-stop-shop” for you to make informed and sound decisions.

**Spectrum of MDSS Solutions**

The modularity of Meridian’s MDSS allows us to customize services to work within an agency’s local maintenance practices and resource constraints, including all available deicing chemicals. All solutions offer numerous improvements to previously available weather and road forecast services, while tiered options offer agencies a phased MDSS transition program.

**Accurate and Timely Forecasts**

Are budget constraints increasingly driving your maintenance decisions? Meridian’s MDSS gives you the power to know when and where to schedule crews and equipment, reducing labor costs while maintaining safety.

All three MDSS packages are supported by Meridian’s powerful forecasting team using our heralded HiCAPS™ model, the only industry model presently capable of simulating the mass and energy balances associated with anti-icing/deicing applications, as well as many other complex processes at work on the roadways.

The ensemble-based MPower™ weather forecasting system provides unparalleled accuracy, and is updated hourly for individual road segments of each maintenance route by Meridian’s professional team of meteorologists.
Meridian’s Web-based MDSS solutions allow you the ability to receive highly accurate site-specific pavement/bridge forecasts. This provides you and your maintenance managers the ability and knowledge needed to effectively attack weather-related issues on your roadway. Meridian’s powerful forecasting team using our heralded HiCAPS™ model helps you be aware of possible changing weather and pavement conditions.

When weather is affecting your region, you want a heads-up before it impacts travelers. Meridian’s Continuous Alert Monitoring provides you with a fully customizable alert system capable of sending messages to email accounts, cell phones, pagers, PDAs, and more. Using our convenient web interface lets you set your desired lead time, severity thresholds, and alert criteria for updated messages as the situation evolves with instant continuous alert monitoring.

Your maintenance work doesn’t stand still, and your treatment recommendations shouldn’t, either. With Meridian’s mobileMDSS™, your drivers get a focused radar summary, short-term forecast, and maintenance recommendations on their existing AVL in-cab display. Information is tailored to the last reported location of the truck for the most efficient transfer of information. This feature works in concert with the fully integrated MDSS, meaning recommendations are based on your available chemicals and at rates your operators are used to seeing. If a truck has a different material on board, Meridian provides “Alternate” recommendations, meaning they can get a recommendation with that material. Also, the integration of a regional looping radar lets operators see storm motion allowing decision making to become even more dynamic. MobileMDSS™ is compatible with multiple AVL/GPS-based fleet management systems, including those with automated maintenance reporting.