

### 2.1.3

#### **Real-Time Tracking of Snow and Ice Maintenance Operations**

**Presenter**

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The office of Maintenance Administration is conducting a pilot project to measure how slippery the highway is before, during, and after winter storms. Snowplow trucks are equipped with a friction wheel to measure how much friction there is between the pavement surface and the "Road Grip Tester". This data can be displayed for the operator to determine salt application rates and sent back to Central Office. By installing a GPS receiver and a Nextel phone system, road conditions and snowplow operations can be collected in real-time. The data being transmitted includes friction values, GPS coordinates, surface temp, air temp, speed, application rate, and many other data fields. Using this data, warnings can be displayed in real-time on message boards or on the internet. Manager can use this as another tool to help with snow and ice operations.