

5.3.3

GIS Supporting Winter Operations

Presenter

Gary A. Waters
National Account Executive
ESRI
gwaters@esri.com

Co-Presenter

Alan Smith or Tom Clay
GIS App. Specialist Mgr.
WADOT

Winter operations pose a variety of challenges to the DOT. How much material left the yard may be known, but where it went may not. How many plow trucks are operating is probably known, but exactly where may not. Road conditions may be known, but not through a geographic display. The data to support the effectiveness of the winter operations may be available, but the analysis of that data spatially may not. Looking at tabular data related to winter operations provides performance measurement information, but the analytics provided by spatially enabling that data significantly increase its value. Learn how GIS technology has been used at Washington DOT to improve live storm event situational awareness as well as historic analysis. See how GIS is used to integrate live truck locations, live camera feeds, road sensors, truck sensors such as blade angle or material release rates, live traffic flow, road characteristics, weather data and others all in a visual, real-time interface. Post storm event performance measurement analysis will be discussed as well.