

## 5.1.2

### The Vermont Master Road Centerline Data Layer : A Dataset for All Seasons

#### **Presenter**

**Johnathan Croft**

AOT GIS Database Administrator  
Vermont Agency of Transportation  
johnathan.croft@state.vt.us

#### **Co-Presenter**

**Sara Moulton**

AOT Mapping & GIS Specialist II  
Vermont Agency of Transportation  
sara.moulton@state.vt.us

The Vermont Agency of Transportation (VTrans) has been the steward of the road centerline data layer for many years, and this key data layer serves as a primary base for the Agency's mapping and GIS analysis efforts. This single data layer is the core geometry for the linear reference system and will serve as the base for the local road linear reference system.

Over the past two year, VTrans and the GIS staff at the E911 Board have worked voluntarily and cooperatively to merge each organization's road centerline data layers into one master road centerline data layer. This project will provide a single dataset to serve both organizations mission, as well as provide for additional abilities that require arduous processing now, and also provide the GIS users within Vermont and beyond a far better road centerline data layer than the previous two.

VTrans Mapping and E911 have created a single data schema and begun the process to merge the datasets. One major benefit to VTrans is the leveraging of directionality from the E911 data, and the ability to use this information in build the local road linear reference system as part of the FHWA ARNOLD initiative.

This presentation will provide insight into the Vermont Master Road Centerline data layer, the process to merge the two datasets, and the leveraging of this data to create the local road linear reference system.