

## 5.1.2

### Mapping Storm Damage to Infrastructure in the Wake of Tropical Storm Irene: The Vermont Experience

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In the wake of Tropical Storm Irene, the Vermont Agency of Transportation (VTTrans) was called to respond to extraordinary volume of damaged bridges and highways. Over the course of a weekend, August 27th and 28th, TS Irene delivered between 4 to 7 inches of rain which created a significant amount of run-off that destroyed or compromised a significant amount of the transportation system primarily throughout the southern half of Vermont. To assist in the initial evaluation of the damage, mapping was essential to assess what infrastructure was damaged and quantify the magnitude of the disaster. The mapping effort expanded to a public outreach vehicle, providing Agency personnel, Public Safety, FEMA, decisions makers, and the traveling public information regarding what highways were travelable and which were closed. Through the creation of enterprise GIS data and standard workflows, VTTrans was able to collect, compile, and publish highway and bridge closure information efficiently and in a timely manner.

This presentation will provide insight to some of the steps that VTTrans took to assess the extent of the damage, compile the high volume of dynamic data, create specific products to meet operational needs, and publish status information to meet the huge appetite from the Agency, media and the public.