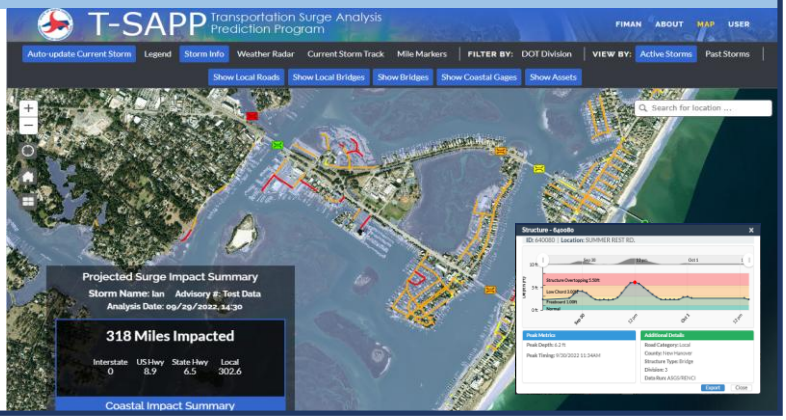
NCDOT's Flood Warning Tools

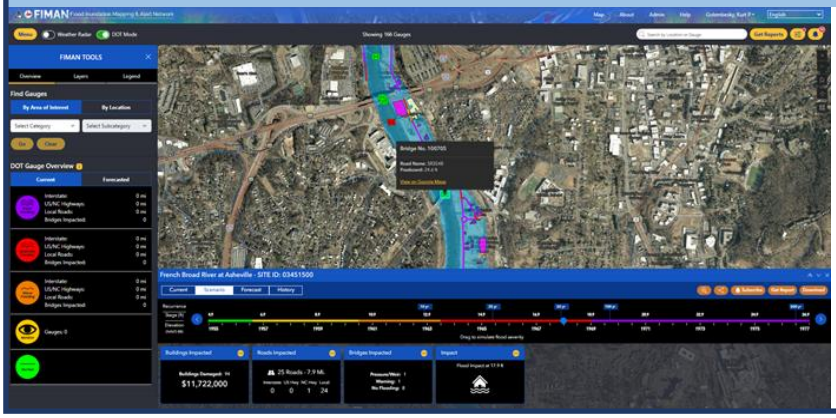
Real-Time Monitoring and Predictive Analytics for Roadways and Bridges

T-SAPP Transportation Surge Analysis Prediction Program

During storm events, T-SAPP models predicted flooding across coastal divisions. T-SAPP reports predicted depths and timing of flooding along roads, roads, bridges, DOT assets, and identified points of interest. Impacts can be viewed in an interactive map, summarized in a table format, and exported for sharing. T-SAPP also provides insight into the timing of these impacts by providing time-series charts of depths at impacted structures and buildings.



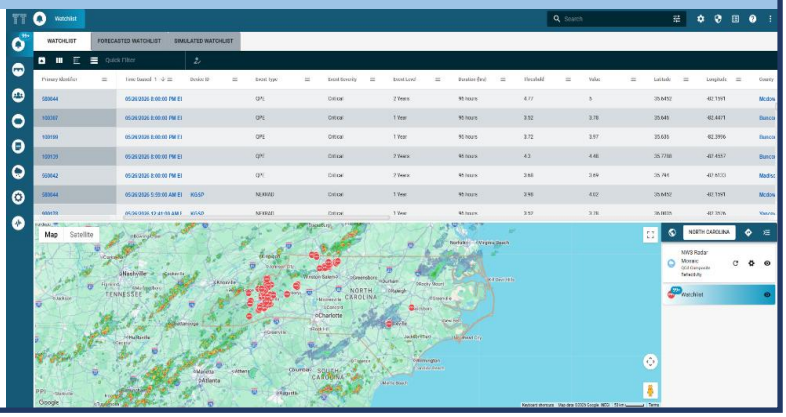
FIMAN Flood Inundation Mapping and Alert Network



FIMAN utilizes a network of over 870 stream gages to provide real-time and forecasted flood inundation mapping including stream stage trends with flood risk rating (Normal Stage to Major Flooding). In DOT Mode FIMAN also provides predicted impacts to roadways, bridges, and other NCDOT assets. Users can navigate between current conditions, modeled scenarios, and historical and forecasted conditions.

BridgeWatch Public Safety through Real-time Structure Monitoring

BridgeWatch empowers bridge management to predict, identify, prepare for, and record potentially destructive environmental events by proactively monitoring, in real-time, bridge infrastructure. BridgeWatch provides monitoring of 15,000+ structures across the state by collecting data from meteorologic, hydrologic, and oceanographic sources. This tool predicts and tracks potential hazards, such as overtopping roadways, and send real-time alerts to NCDOT officials.



For more information, visit the NCDOT Flood Warning Tools Sharepoint site

Reach out to the NCDOT Hydraulics Unit with any questions