

## **From a Hurricane Evacuation Map Series to a 3-D Analytical Approach to Emergency Response by SHA Road Maintenance Crews**

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The GIS Services Team, part of the Maryland State Highway Administration's (SHA), Highway Information Services Division (HISD), has developed a series of Hurricane Evacuation Maps for Maryland's Coastal Counties. The effort is to support the SHA Office of Maintenance (OOM), which is in charge of establishing and manning Traffic Control Points (TCPs) at key intersections during all hazard events. The GIS Services Team began exploring further 3D road centerline presentation alternatives to augment and support the analog Evacuation Maps. This effort led to developing a 3D centerline based on 1/10th, 1.100th, and 1,1000th mile points, merged with LiDAR elevation values, as well as Sea, Lake and Overland Surges from Hurricanes (SLOSH) flood depths. These data points can then be used to analyze micro-depth changes not evident in SLOSH depth contours, but may be of interest to Office of Maintenance and Emergency Management personnel during an event.