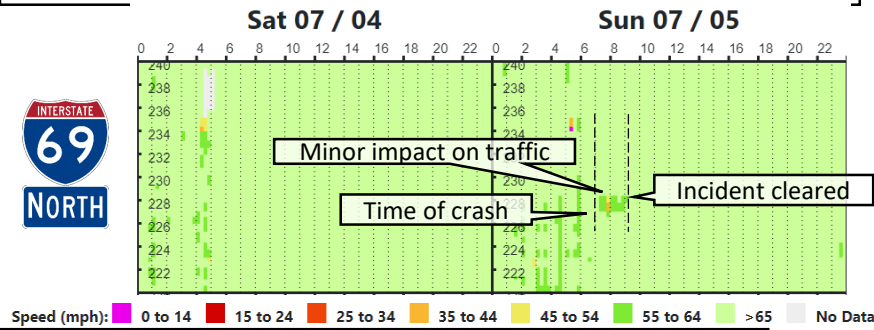


Photogrammetric Crash Scene Documentation, Mapping and Analysis using Drones

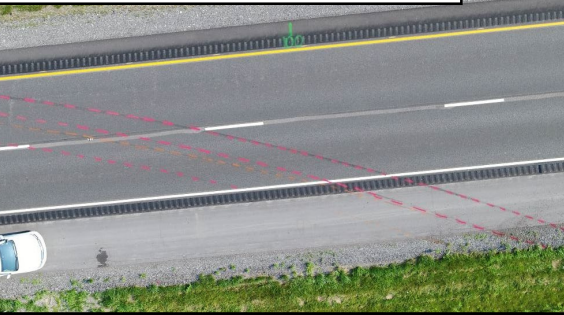
OVERVIEW OF INNOVATION

- Drone, also called unmanned aircraft system (UAS), based photogrammetric mapping of crash scenes provides high quality scaled maps and faster scene clearance.

Traffic heat map showing minimum impact for a crash scene on I-69 NB, July 5, 2020

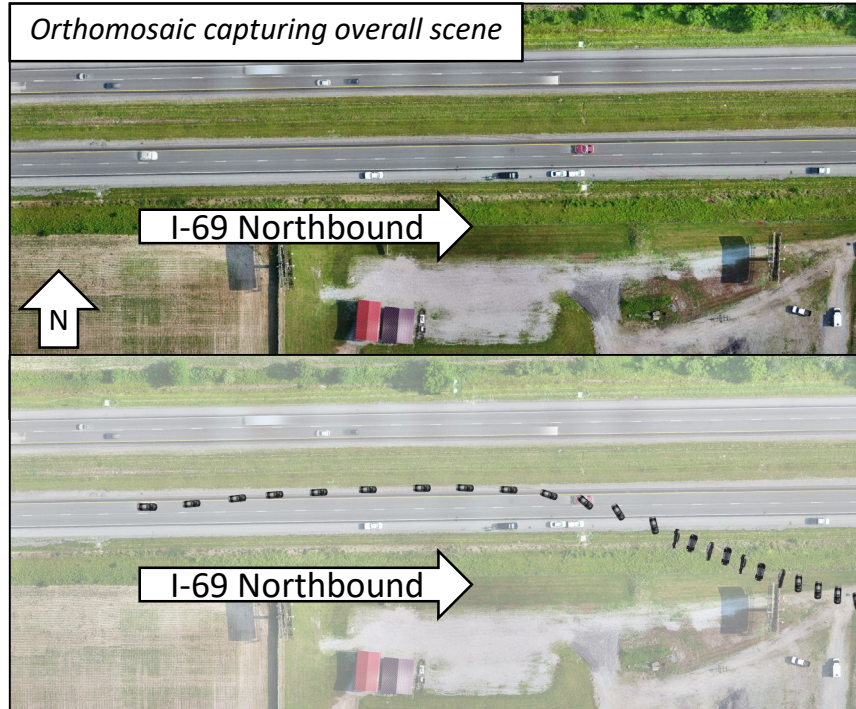


Drone image and painted vehicle path



Flight details

- Flight duration: 17 mins
- Images captured: 331 images
- Area: 9.17 ac
- Altitude: 126 ft



BENEFITS

- UAS-based mapping is significantly quicker than terrestrial mapping
- Important features and adjacent roadway infrastructure are systematically captured
- Faster scene clearance reduces exposure of public safety to traffic hazards and reduces secondary crashes

FIND OUT MORE . . .

- Public Safety Implementation of Unmanned Aerial Systems for Photogrammetric Mapping of Crash Scenes (<https://tinyurl.com/uas-trr>)
- Drones shown to make traffic crash site assessments safer, faster and more accurate (<https://tinyurl.com/uas-purdue>)

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- Crash scene mapping, crash reconstruction