4.3.2 Fusing LiDAR and Imagery: Providing effective solutions for Ohio's Transportation Infrastructure

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For years, transportation GIS users have relied upon the use of digital orthophotography for the foundation of base mapping. With orthophotography being 2D, GIS users have been limited to the type of information a 2D map provides. With the introduction of LiDAR, transportation managers now have a means to review and analyze transportation infrastructure in 3D, yielding greater capability and accuracy, as well as, providing a cost effective approach to existing project methods.

This presentation will focus on LiDAR and orthophotography acquired for the 2006/2007 Ohio Statewide Imagery Program and how these datasets combined are benefiting the Ohio Department of Transportation. Topics will include the benefits realized, lessons learned, technology used to acquire the LiDAR and imagery. Project examples will also be reviewed and discussed.