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Video Based Asset Data Collection at NJDOT

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Video technology has allowed the New Jersey Department of Transportation (NJDOT) to collect maintenance feature data quicker, safer, cheaper, and more accurately than by previous methods. By collecting precisely positioned stereoscopic video images and utilizing state-of-the-art feature extraction methods, NJDOT is able to collect 50% more asset data with 75% less field time. Previous collection of 20 field features in the NJDOT North Region for inclusion in the Department's Highway Maintenance Management System was performed using a GPS-based GIS mapping software running on a laptop computer. For the South and Central regions of the state, the consultant selected for the project submitted a value engineering proposal to utilize stereoscopic video images for data collection. The proposal was accepted by NJDOT and field data collection of video as well as data extraction from the video images has commenced. This presentation will document NJDOT's experience and highlight the key issues in using video based data collection.