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The Evolution of Mobile Mapping

Presenter

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Mobile mapping has experienced an evolution over time that is typical of the high-tech industry. The first generation systems were bulky, slow and involved massive amounts of post-processing to achieve mapping-grade results. These systems were typically digital video cameras, video tapes and integrated with GPS information that was encoded into the audio track of the VHS tape.

As the systems evolved, additional sensors were added including Distance-Measuring Instruments (DMIs), Inertial Measurement Units (IMUs) and Light Detection and Ranging (LiDAR) scanners. All of these sensors were integrated and added another level of precision to the Mobile Mapping solution, thus making it possible to achieve survey-grade accuracies. This technology is currently being utilized by many mobile mapping companies to collect engineering-grade information while driving posted highway speeds with impressive results.

This presentation will focus on the evolution of this technology to date and what the future holds for mobile mapping moving forward.