

## Session

### 2.1.3 Mobile Mapping: New Technologies and Methodologies

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Public and private organizations worldwide are facing a continually increasing demand to build, maintain, and manage the asset inventory of their infrastructure network. In response to these requirements, technology has progressed from the photo-logging systems of the 1970's to more efficient and economical solutions, such as the sophisticated mobile mapping systems of today.

Geo-3D Inc. is a leading provider of geomatics and GIS data acquisition hardware and software solutions. By utilizing advanced photogrammetric techniques and an array of integrated sensors such as digital cameras, GPS/INS, optical encoders and laser scanners, Geo-3D has delivered efficient safe and cost effective solutions for large-scale infrastructure management for multiple users. The most recent development of the system is automated road sign detection. A pilot project that has been completed in Quebec Canada will be discussed in detail. The technology, results obtained, and the knowledge derived thereof will be examined, as well as a comparison with traditional GPS foot survey methods. This new technology, and other new applications, are being developed to increase productivity, provide users with timely and very accurate enterprise data, minimize road crew exposure and create robust information products that serve multiple uses.