2.3.1 Using GPS/GIS for Data Collection Quality Control

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During the past ten years the use of GPS in data collection has become widely accepted and practiced. The GPS data adds extra value because it helps correlate the data with other data sets. It can also be a key element during the quality control process, ensuring that bad data is identified and corrected BEFORE it enters your production database. This presentation will cover some of the ways Mandli Communications and its customers use GPS and existing GIS data sets for quality assurance and quality control of data gathered in the field. It will provide real world examples of common data collection errors, and how GPS and GIS are used to catch and correct these errors before they reach the end user. Data collection projects covered includes bridge vertical clearance measurements, pavement surveys, curve and grade reporting, 360 degree intersection surveys, photolog imaging and roadway feature inventory.