

## 7.1.2

### Mobile Asset Data Collection System GIS Integration

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This paper presents a mobile asset inventory system that is integrated with ESRI's ArcGIS platform. Most of the GIS datasets present features in a two-dimensional plan view of the map. Technology now enables GIS users to associate vertical images captured from a traveling vehicle with the GIS map layers. Users can view a driving simulation, geo-reference objects, and measure dimensions in the image. Database records can be linked to corresponding images and image sets can be used to collect multiple asset items. In addition to the capability to generate road centerlines the system can be used to QA/QC ortho-photo and existing GIS datasets. The results of several projects that used the images to complete asset inventory and pavement management will be presented.