

Session

2.3.3 Image Based Road Inventory System

Presenter

Jason Dong
Enterprise Information Solutions, Inc.
jdong@enterinfo.com

Co-Presenter

Mani Radhaji
GISBiz, Inc.

In connection with the FHWA Highway Performance Monitoring System (HPMS) requirements, DOTs develop and update inventory of public roads on a continuous basis. Typically field technicians use GPS and DMI to create and maintain a road inventory. The work has been time consuming with safety concerns. Furthermore, the validation of the inventory has rarely been performed because of the associated time and cost requirements.

An image based road inventory approach can significantly reduce the field time associated with the development of the road inventory. Using images captured by the cameras mounted on a vehicle traveling at the highway speed, road inventory can be accurately created in the office. This approach not only reduces the cost and travel time, but also allows all the created inventory record to be verified. This presentation will demonstrate application interfaces and workflows customized for two DOTs.