

# Abstract

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### **Integrating ArcGIS, MapObjects, and ArcIMS for a Railroad Crossing Inventory**

**Track:** Transportation

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Using a combination of GIS office and field applications, Patrick Engineering Inc. is developing a comprehensive railroad crossing inventory for the State of Illinois. The inventory will include 10,780 railroad crossings and includes extensive field data collection. To facilitate the inventory project and to maintain maximum quality control, Patrick developed two user-friendly ArcGIS applications for non-GIS professionals. In addition, Patrick developed a MapObjects field application that is deployed on ruggedized Fujitsu handheld computers. A comprehensive quality control process is used to validate the data before being presented to State of Illinois officials through a secure ArcIMS site.

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