1.3.2 Realtime Mobile GIS

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The low cost and ubiquity of smart devices such as iPhones and tablets make deploying field data solutions easier than ever, but there remain many hidden costs and other hurdles that are important to understand before attempting such an effort.

This presentation will discuss these issues by way of example using a sophisticated realtime roadway curbcut inventory system that has been implemented by MassDOT to collect and inventory that over 100,000 locations for wheelchair ramps and curbcuts. The talk will focus on unique aspects of the system, technical and business challenges and how they were overcome. Special focus will be on GIS and LRS integration and offline and unpredictable internet connection. Comparison of development on multiple platforms including HTML5, iOS, and Android and GIS platforms will be discussed. The presentation will provide useful information for both managers and GIS professionals wishing to learn more about this diverse topic.