

## 6.1.1

### Tracking Defects Using GPS

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The Federal Railroad Administration (FRA) promotes and regulates safety throughout the Nation's railroad industry. FRA executes safety regulations and inspections with safety inspectors who operate out of eight regional offices. Each region contains five disciplines: Hazardous Materials, Motive Power and Equipment (MPE), Operating Practices, Signal & Train Control, and Track Structures. Currently, the FRA is geocoding inspections using a Digital Track Notebook (DTN) to identify track defects. The FRA is developing a GIS dashboard to show where inspectors have been and where they have not been within their territory. This web application is using the latest technology from ESRI ArcGIS Server 9.3.1 and Microsoft's Silverlight. This presentation will highlight the FRA's track inspections, the development of the web application, and the data collected and used within the GIS.