

### 3.1.3

### Asset Management: Data to Information

#### Presenter

Inya Nlenanya  
Transportation Research Specialist  
InTrans, Iowa State University  
[inya@iastate.edu](mailto:inya@iastate.edu)

#### Co-Presenter

In the field of transportation engineering, large amounts of data are generated from asset management systems. These data typically come in different formats and the sheer size of it creates the need for innovative techniques and tools that can rapidly, automatically, and intelligently transform these data into information that provides useful knowledge. This project will use GIS to link data from several asset management systems maintained by the Iowa DOT (and maybe some local agencies) to assess safety performance. GIS will play the role of presenting these linkages in an intelligent way that enables the agencies to quickly grasp the geospatial as well as statistical nature of safety performance. The asset management systems and data used are being developed utilizing data from pavement management, pavement marking management system, a sign inventory system, lighting information on intersections, and historical crash information. All of the data for this project are maintained by the Iowa DOT. This project is funded by the Midwest Transportation Consortium (MTC) with matching funds from the Iowa DOT and the Iowa Highway Research Board (IHRB).