

1.2.1 Maintaining an Enterprise Vision: History of GIS at the Illinois DOT

Presenter

James Hall
Associate Professor, MIS
University of Illinois Springfield
jhall1@uis.edu

Co-Presenter

Building on the theme of this year's conference, "Mainframe to Mainstream - 25 Years of Progress", this presentation will trace the development and implementation of GIS technologies in the Illinois Department of Transportation (IDOT) from the early days of link/node base map development to an enterprise resource enabling a wide variety of knowledge application and decision support products. IDOT started development of their base GIS in 1983 with the mission to enable the integration of information from stovepipe systems across multiple asset classes.

This vision of enterprise GIS deployment for decision support has held firm over the years despite bumps in the road with changes in administrations, personnel and limited budgetary resources. Key elements of IDOT's vision were an enterprise focus, high benefit product selection, and the development of architecture to enable integration despite multiple referencing schemes for different legacy systems.

The presentation will highlight IDOT's GIS governance processes, technical architecture and the primary products developed for internal and external use. In addition to the GIS vision and strategy, IDOT has been aggressively modernizing older mainframe systems. The presentation will describe how the two visions of GIS and Mainframe Modernization are being successfully integrated. They will describe the future direction of GIS application development with a focus on business process reengineering, business intelligence and decision support systems.