

## 5.4.2

### How Models Are Changing the Consumption of GIS Data

#### Presenter

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#### Co-Presenter

#### Topic Coverage:

From the suggest subjects ;Transportation Planning/Modeling; Geo-Spatial Analysis; Web Based GIS; MPO Challenges (MAP-21 language to incorporate more visualization for public involvement)

#### Key Topics:

- The new ways in which GIS data can be consumed
- Goal of planning models ;communicate more GIS data for improved analysis and decisions for transportation planning
- MAP-21 pushing MPOs to use visualization ;impacts
- Data/Model accessibility everywhere
- Q & A

#### Goal:

Inform the audience in a non-branded, non-demonstration discussion of how technology and industry trends are converging for the utilization of GIS data in transportation planning. Note this presentation is not highlighting an implementation of particular project. Additionally, incorporating transportation planning models does not replace GIS data, but provides for additional consumers of GIS data from existing GIS implementations.

#### Narrative:

As GIS data volume grows, how do consumers of GIS data account for all the input available for transportation infrastructure planning decisions? Data needs to be combined in more visual ways to facilitate consumption. Conceptual modeling includes the representation of 2D GIS data in a visual way in order to incorporate as much data as possible, in a single environment, to plan and model transportation infrastructure. For example, MAP-21 now requires MPOs to utilize visualization for planning and public involvement. Technology facilitates the extension of our existing GIS data analysis workflow beyond building reports, but into a modeled representation of existing and proposed infrastructure.

#### **Bio(s):**

20 years experience in engineering design, CAD systems management, IT technology, project implementation and workflow consulting. Computer Technology, Purdue (IUPUI)  
Accounting, Indiana Wesleyan.