

### 3.4.3

#### ADOT's Transportation for the Nation Initiative

**Presenter**

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Intersection Based Linear Referencing:

Linear Referencing Systems (LRS) is one of the most valuable tools for transportation GIS as it provides the ability to locate data geospatially for inventory, analysis, and mapping. There are several types or architectures of LRS's available and all do their jobs reasonably well. Arizona Department of Transportation (ADOT) has its own variant.

The ADOT LRS is highly adaptable. The system will serve us well in the Transportation for the Nation (TFTN) effort initiated by US Department of Transportation on August 7th 2012. Our LRS is already has centerline to support a dual carriageway, ramps, and is an LRS for all public road systems. ADOT is encouraged by the TFTN project to support and perhaps improve the process by which we are able to update non-state roads. Historically the process to update local roads requires hands on approach that involves hours of edge matching thousands of miles of road centerline.

**Bio(s):**

James Meyer is a GISP who is the GIS Program Manager for Arizona DOT's Planning Division. He has been in the GIS profession 13 years after graduating with a Geography Degree. Of that, time 8+ years has been in transportation, six of which focused on LRS

Joe Breyer is a PE and GISP from Michigan Tech. Thirteen years ago he founded Works Consulting in Arizona where he develops GIS-T for clients. He has been working with Arizona agencies to efficiently assemble a unified statewide transportation GIS.