

### 3.4.1

#### **Data Maintenance of a Multi-Level LRS as Practiced in the GeoTrans Data Model**

**Presenter**

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This session provides a brief overview of the GeoTrans data model and then focuses on solutions to the data maintenance challenges of a multi-level LRS such as GeoTrans. The GeoTrans data model, which is a derivative of the NCHRP 20-27 model, is designed to address some of the major challenges facing those professionals that manage transportation network data. These challenges include multiple LRM support, event data location stability, historical data analysis & maintenance, LRS-assisted Routing, multiple geometric representations, regional segmentation, intersection-referenced event data, Transportation-specific aggregation, conflating disparate data sources, etc.