

### 6.4.3 Analysis and Integration Spatial Data Used for Long-Range Transportation Planning Activities

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Long-range transportation planning requires enormous amounts of data. Development of the data requires a great deal of cooperation, including data exchange, between transportation planning agencies and transportation departments. However, this high level of interdependence raises a number of data exchange and data integration issues such as lack of data compatibility, differences in spatial and temporal resolutions, and data access. To address these issues, the Texas Transportation Institute is conducting research to (a) develop a comprehensive survey of spatial data practices and needs at metropolitan planning organizations (MPOs) in Texas and (b) develop a prototype logical model for transportation planning GIS data. The presentation describes the findings to date, including a compilation and catalog of hundreds of spatial data layers, development of a logical data model for transportation planning data in Texas, and development of strategies and recommendations for integration with the long-range transportation planning process.