

### 2.3.1

## Display of Geographic Transportation Data Stored and Integrated in a SQL Server Database

### Presenter

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Although traditional Geographic Information Systems have been widely used to edit and display spatial data, they do not provide native data management features that have been present in centralized relational databases for many years. Some of these features, among others, are the multi-user simultaneous update of files and an implicit system to enforce relations within associated datasets. In its last version, SQL Server delivered a system that added geographic data types and spatial analysis tools to its database functionality providing a new approach to display and integrate geographic data. This work presents the activities performed by NCTCOG related to the integration and display of geographic data stored in SQL Server. These datasets include items such as traffic counts and inventories of traffic control devices. The geographic datasets stored in SQL Server are displayed over the internet using popular programming and mapping tools that are available as application programming interfaces (APIs).