3.4.2   A Data Model for Distributed Data Management

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Regardless of whether you are designing a highway, identifying needed transportation improvements, preparing environmental documents or characterizing existing conditions, transportation planning requires large amounts of high quality data. Much of this data can be gathered from existing sources, including resource agencies, state and local government, metropolitan planning organizations, or previous studies. Some data will need to be collected specifically for the project to ensure that the most accurate and recent data is used. With the recent development of web services and internet communication, it is now possible to not collect the data, but instead to reference the data and use it remotely. This presentation will discuss the challenges of distributed data management, specifically applied to transportation planning data, and provide a data model for implementing this functionality.