

5.2.3

Migration of the Caltrans Spatial Data Library into an Enterprise Geodatabase

Presenter

Diane Pierzinski
California DOT
diane.pierzinski@dot.ca.gov

Co-Presenter

As a first step in preparing the California Department of Transportation (Caltrans) spatial data library for distribution through web services, over 144 shapefiles needed to be migrated into an enterprise geodatabase. In an environment of limited resources “data maintenance” rules were changed and data ownerships defined. With a geodatabase format and a new Caltrans State Highway LRS Data Model, new update methodologies were developed. Spatially referenced data created from the Department’s LRS process is now maintained and updated through business tables in the State Highway LRS Data Model. Updates for data obtained from external sources were streamlined. Geodatabase topology rules were applied to spatial data developed internally by Caltrans and geometric relationships defined. The new library structure is now managed using a newly developed Data Library Manager tool.

This presentation gives an overview of the geodatabase architecture that Caltrans has implemented and is now managing. This overview presents the methodology for the migration, the incorporation of the new update processes and the detailed review of the Data Library Manager tool. It will also discuss the difficulties we encountered and lessons learned during the migration and the next steps for web enabling the Caltrans Spatial Library.