

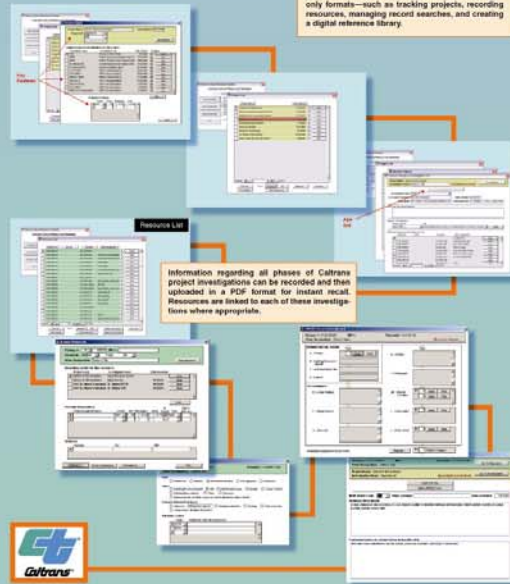
# Caltrans Projects & Resource Stewardship: Mobility & Environmental Responsibility in a Digital Age. Database GIS Management

- Simplicity
- Accessible on Each Staff Person's Desktop
- Comprehensive Data Storage
- Secure Access via Passwords and Security Levels for Administrators/Stewards
- Advance Queries
- Server-based

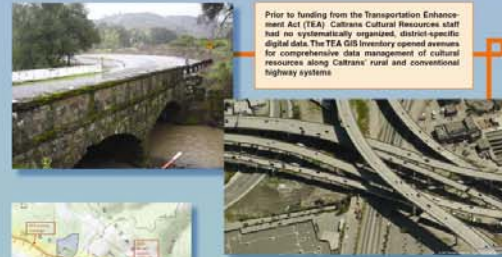
The TEA rural road inventories were originally envisioned to capture information within the Caltrans right-of-way; however, the databases are capable of maintaining a much wider range of project- and resource-related information. District 4 (Oakland) is taking full advantage of the project tracking and resource management tools provided by the database.

- Caltrans Projects
- Cultural Resources Investigations
- PDF Library
- Cultural Resources
- Resource Recording Events
- PDF Library
- DPR523 Forms
- Document Citations
- PDF Library

Logical, simple interfaces and useful queries relevant to Caltrans tasks are key to the success of the system. In District 4, all staff environmentalists and architectural historians are using the system to perform a variety of tasks once relegated to paper-only formats—such as tracking projects, recording resources, managing record searches, and creating a digital reference library.



Over the past decade, Caltrans' Environmental staff has become increasingly reliant upon GIS. Caltrans Headquarters has a library of base maps for the State system, while many of the internal Environmental divisions have been building datasets specific to their field.



Prior to funding from the Transportation Enhancement Act (TEA) Caltrans Cultural Resources staff had no systematically organized, district-specific digital data. The TEA GIS inventory opened avenues for comprehensive data management of cultural resources along Caltrans' rural and conventional highway systems.



Caltrans organizes its road systems by County, Route, and Postmile; all GIS data need to be initially searchable by these parameters. For Western developed a customized Caltrans toolbar and added a specific post mile layer to accommodate this organizational requirement.



The toolbar also easily enables Caltrans Cultural Resources staff to search by city, township and range, quad maps, and historic maps.



The Cultural Resources shapefiles in the GIS are linked to the TEA Access database so that Site Record forms and Caltrans project information are available for each resource in the GIS interface.



Detailed information on resources recorded events, resources, etc.



The ultimate test of the usefulness of the Caltrans TEA databases and GIS lies in the ability to make our jobs as Cultural Resource Managers more efficient.

This is most notable for the following types of activities:

