

City and County of San Francisco
Department of Public Works



San Francisco Department of Public Works Bureau of Engineering
San Francisco, CA
www.sfgov.org/sfdpw

Industry:

Public Sector

Employees:

1,500

Oracle Products & Services:

Oracle Database 10g

Oracle Certified Partner:

Autodesk®

Autodesk, Inc.
www.autodesk.com

“Our system maintains a high degree of attribute integrity within Oracle without having to use an expensive third-party GIS integration tool. That is because Oracle and Autodesk Map 3D are both based on an open data model.” – Greg Braswell, IT and GIS Manager, San Francisco Department of Public Works Bureau of Engineering

San Francisco Department of Public Works Bureau of Engineering Enhances Service while Reducing Costs with Integrated Geographic Information System

The San Francisco Department of Public Works (SFPDW) Bureau of Engineering’s mission is to provide planning, project development, design, and consulting services for city streets, infrastructure, and structures. The Bureau of Engineering is responsible for assuring that all projects are consistent with applicable codes, standards, and principles; are completed on schedule and within budget; are environmentally responsible; and enhance, improve, and respect the community standard of living and quality of life.

Challenges

- Increase technology assets to keep productivity high and costs low, maintaining a competitive edge over private engineering firms when bidding for city and county government contracts
- Create, manage, and share design and geographic information system (GIS) data efficiently
- Integrate GIS and engineering workflow more efficiently

Solution

- Deployed Oracle Database 10g to serve as SFPDW’s spatial and attribute storage hub, improving GIS data storage and management
- Integrated GIS data into engineering workflow by using Oracle Database 10g, Autodesk Map 3D, and Autodesk MapGuide
- Improved productivity and reduced costs with streamlined processes—enabling bureau engineers to complete projects faster and more efficiently
- Enabled employees without engineering experience to easily access spatial information over the intranet, driving faster decision making and improved responsiveness
- Gained the ability to produce project base maps in 15 minutes instead of five hours
- Saved between 1,700 and 2,000 man-hours annually on projects within the public right of way
- Enabled the SFPDW to manage and share geospatial data more cost effectively
- Managed increased workload with the same number of employees
- Enhanced value to taxpayers by completing projects in-house