

# SUCCESS STORY

## ▶▶▶ CREATING A WEB-BASED MAPPING SOLUTION FOR THE CORPS OF ENGINEERS

### PROBLEM

The United States Army Corps of Engineers (USACE) Omaha District Operations Division needed an easy-to-use and highly available tool that allowed individuals access to the geographic data layers needed to perform their duties through a web browser, as opposed to a licensed piece of software such as ArcView. They were looking for a powerful application that was customized to their needs, did not rely on expensive licensing, and that would be available from any computer.

### SOLUTION

With powerful analytic tools and a streamlined user interface, the new WebGuide Xtreme Web Portal for the Corps of Engineers (WGX COE) gives everyone in the Division the ability to leverage the power of GIS through a standard web browser.

The data backend for the application is an ArcSDE geodatabase running in Oracle 11g. Geoserver is used to publish the data for consumption by the application and the Google Maps API provides the base map over which the Corps' data is displayed.

Features include:

- o Secure Access to GIS data layers
- o Organizes data sets based on business lines or project functions
- o Allows for the importation of local user data
- o Exports data to users local workstation
- o Spatially query and analyze GIS data layers
- o Customizable user interface
- o Advanced print capability

### RESULTS

The new WGX COE has created efficiencies for the Omaha EGIS Division, specifically for mission critical COE functions. The interface allows users to retrieve and interact with District and Divisional GIS data layers through a web browser.

With powerful analytical tools and a streamlined user interface, WGX for COE provides everyone within a division the ability to leverage the power of GIS through a standard web browser, as opposed to a licensed seat of traditional desktop GIS software.

Without licensing fees, it is less expensive to operate, allowing multiple users access across divisions and across COE Districts.

