

Dam Safety Mobile Collection Analytics Reporting and Storage Application

The Dam Safety Branch application collects, analyzes, reports and stores critical data pertaining to the safety and performance of State Water Project dams. Utilizing a web-based interface with integrated GIS functionality and a mobile application, Dam Safety Branch engineers can easily identify instrumentation as well as collect pertinent data. In addition, integrated seismic data management aids in the identification of potentially impacted structures when a seismic event occurs. CARS, which TrinityTG presented to O&M's Dam Safety Surveillance and Reporting Project, is a comprehensive data management system that facilitates the monitoring, collection, analysis, storage, and presentation of dam surveillance data.

Overview

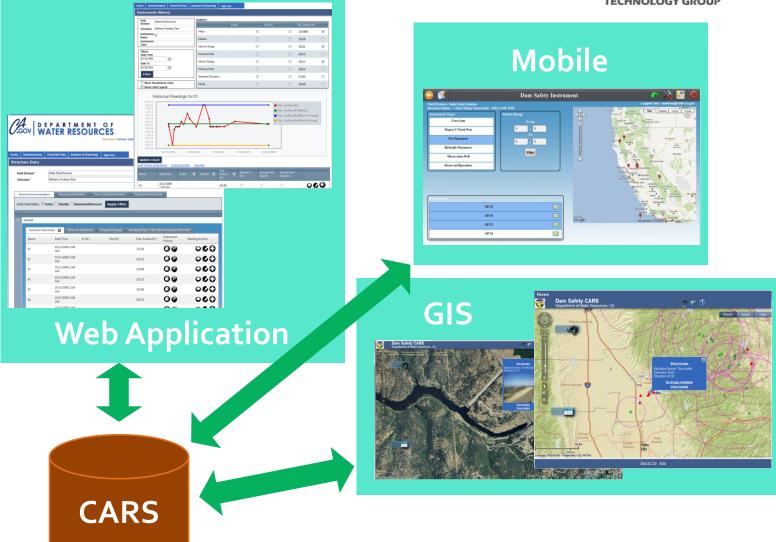
The Department of Water Resources Dam Safety Collection Analytics Reporting and Storage Application (CARS) replaces several disparate data sources with a singular repository of all relevant information which can be accessed and reported with ease. This solution also significantly reduced multiple data entry efforts and improved overall quality assurance of the data.

The Dam Safety Branch is responsible for the safety and performance of all SWP (State Water Project) dams. As the manager of O&M's dam safety program, the Branch provides advice to the field divisions on maintenance practices that affect dam integrity and performance. The Branch is responsible for FERC dam compliance monitoring and reporting, management and coordination of the Director's Dam Safety Review Boards, coordination of SWP dam remediation projects, and management of the SWP seismic monitoring program.

Key Benefits to the Client

- **User Management** Multiple users in different locations of the state can access and exchange pertinent data utilizing the data management system.
- **Consolidation and Centralized Storage** Data about seismic activity is aggregated in a central repository regardless of location of data input.
- **Consolidation for Data Entry and Data Source Management** Multiple and disparate sources are interconnected via Web Application portal (including Mobile support connection), which allows real time data entry, eliminates redundancies, and reduces data entry errors.
- Accurate & Stable Data Exchange & Retrieval Users in and out of the field have access to accurate and updated information. This saves time and money wasted by discrepancies resulting from redundancies.
- Increased Robust Reporting and Analytics Engine CARS offers multiple reporting formats: csv, text, and PDF export capabilities.





Approach

TrinityTG built a solution that focused on providing a comprehensive data management system and enhancing efficiency of business processes.

- TrinityTG's holistic approach to increasing the business functionality and model overall resulted in a universal data capture and management system that facilitated data collection processes and reporting of Dam Safety Inspectors in the field including Personalized Mobile User Interfaces.
- TrinityTG's solution to increasing the efficiency and efficacy of data capture was to provide a comprehensive data management system. The Dam Safety Collection Analytics Reporting and Storage Application (CARS) allows data entry from multiple and disparate sources in real time.
- Utilization of a Web Application based interface with integrated GIS functionality allowed Dam Safety Branch engineers to identify key instrumentation in the field and the expedient collection of data.
 Furthermore, extended integration via CARS facilitated in the exchange and retrieval of seismic activity data and allows authorized users access to statewide information and data via web browser interface.





Seismic Data

GIS is more than tables





User Management

	Structure Ma	magement		
User	Name	Daniel	Garcia	
User	Email	dang@	water.ca.gov	
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	Delta Field Division			
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Personalized Mobile Inspection Sheets

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Structure and Instrument Management

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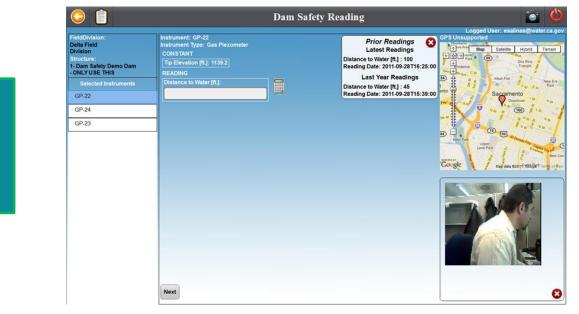


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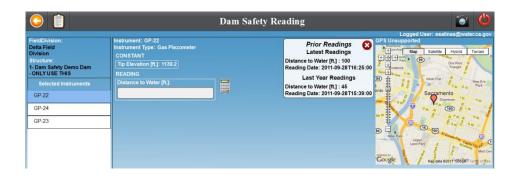




Easy to use instrument selection



Simple data entry screen with locational information and Image of instruments.



Device shows prior / latest readings



Trinity Technology Group Provides Innovative Solutions

At TrinityTG, we are in the business of solving the problems that arise with shifts in business strategies and operations. No matter what information technology challenges you face, we can use those challenges as opportunities to find solutions that fit your current and future needs. We can help to develop business, technical, and enterprise architectures to improve business processes and transactions. Our Strategic Planning approach focuses on re-use and adaptation vs. rebuilding from scratch. We perform process analysis with an eye to best leverage your current system. We design process maps to enable effective communication between business and technical users throughout the project life cycle. At every phase, we use new technologies and techniques to maximize your investment in business systems. To establish cohesive and effective interaction through the project life cycle, we produce formal plans for all of the following critical processes for every project: Communication, Risk Management, Change Management, Configuration Management, Implementation Management, and Project Management.

TrinityTG's Success is Measured in the Satisfaction of our Clients

Our clients are among the largest of state agencies across the public sector and the most progressive and advanced in the private sector. Our clients' success drives our business; 95% of our business comes from referrals from current and past clients. We distinguish ourselves by our approach, working in connection with our clients to ensure their satisfaction every step of the way.

We Listen. We Produce. And We Deliver Extraordinary Results. Give us an opportunity to show you what we can do for you.



Sacramento, CA 95811 916.779.0201 www.trinitytg.com



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