Benefits of Web-Based Environmental Information Management (EIMs)

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Agenda

- Objectives
- History of Trihydro Corp
- What is Web-Based EIM
- Benefits
- Examples (Case Studies)
- Summary
- Q&A



Objectives

- Define web-based EIM
- List benefits
- Understand how they may help your organization



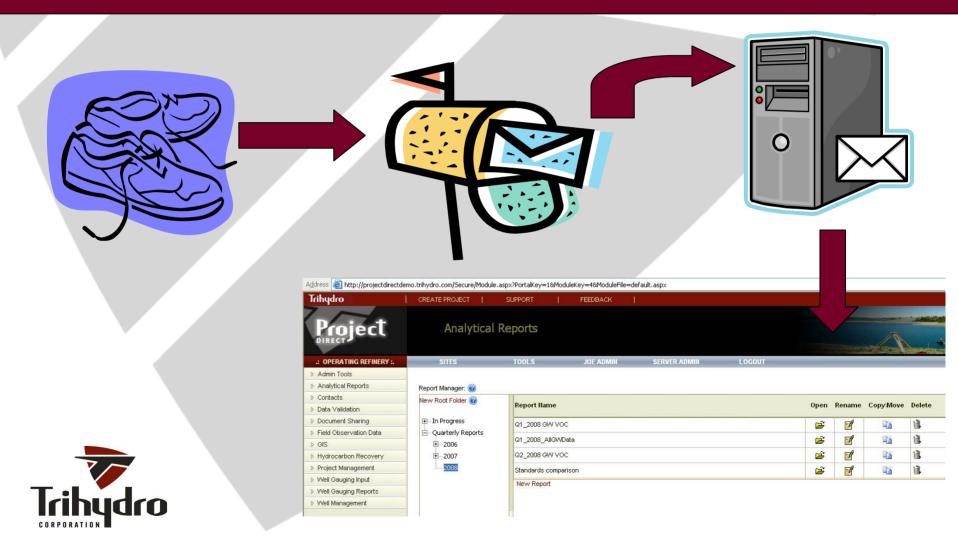
About Trihydro

- Founded in 1984
- Approximately 40 employees in 1994, 60 employees in 1999, to over 250+ today
- Engineering, environmental, and information technology
- Zweig White top 100 firms 4 years
- ENR stats for 2007





History of Trihydro



What is Web-Based EIM

- Internet interface to the EIMS
 - Software application that allows storing and retrieval of information
 - Delivered by internet
 - Application that helps manage and centralize information for environmental projects
 - One-stop location for project information



Benefits

- Accessible to multiple users at one time
- Available 24/7 with internet access
- Available where ever you can connect to the internet
- Role-based security only those that need to see certain information get access the that info
- One-stop location for project information
- Simplifies sharing of information



- Situation
 - Active refinery
 - Large petroleum company
 - Annual report
 - 500 pages for appendixes alone
 - 150 charts
 - 350 tables
 - Diverse geographical location of team members
 - New to project



Solution

- 24/7 accessibility all team members could get to information when they needed to
- Uploading of historical information was done in half the time
- Review of data table/charts could be done in minimal amount of time and could be done by team members
- Document sharing simplified searching for information
- One-stop location
- Security allowed access to information that only those that needed to see



- Overall stats
 - Report generated in 65 percent of the time it formally took
 - Searching for information was estimated to be decreased by 20 percent
 - Sharing of documents was simple
 - Data validation was insured



Situation

- Regulatory Agency
- Abandoned land mines (AML) inventory and assessment
- Needed to collect lots of information
- Needed consistency in data collection
- Needed very accurate information for health and safety issues
- Needed multiple people to access information
- Had out-of-date or not complete inventory of abandoned mine lands
- Lot's of potential money available but no way to prove reclamation was needed.
- Needed to report to Federal program data dump on a yearly basis
- Many databases and sources of information tracking



Solution

- Final solution came after many iterations
- Compiled disparate databases and map locations
- Web-based reporting, data download and GIS for staff and contractors
- Assigned priority to sites with hazards and prepare field packets
- Provided GPS data dictionary to map features, field database, build master data model for all data
- Built centralized database and use throughout the process of field inventories
- Field inventory (site visit) all known sites from known data sources

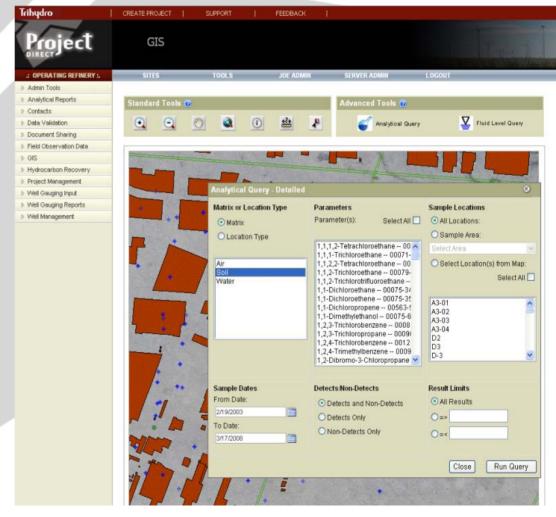


- Overall stats
 - 4000+ sites located
 - AMLIS and State priorities set on site features and overall site priority with reclamation costs.
 - Have the ability to report costs or moneys needed to AMLIS for state projects.
 - Centralized master database
 - Database admin tools
 - Custom GIS application



Summary

- Define web-based EIM
- List benefits
- Understand how they may help your organization





Q & A

Questions?



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