

Streamline Access to Public Records with a Modern EDMS

Advanced Information Concepts





Glenn Frederickson

Project Manager

Access Sciences

GFrederickson@AccessSciences.com

Tina Gibeson

Senior Records Analyst
Access Sciences
TGibeson@AccessSciences.com





Glenn Frederickson

Since 2007, Glenn has managed BPO (business process outsourcing) client engagements. He brings 30+ years of project management, technology and consulting experience, and solutions design. He is the Project Manager for the LDEQ Contract since 2010.

Tina Gibeson, PhD, CRM

Tina is Senior Records
Analyst at Access
Sciences. Now in her sixth
year at LDEQ, her areas of
responsibility include all
aspects of records lifecycle
management, procedure
development, agency
records training, and
disposition and retention
processes.





Presentation Overview

EDMS Early History
EDMS Rewrite Project

- Overview
- Key Systems Considerations
- Change Management Strategies
- Statics and Key Metrics
- Challenges and Success

EDMS Feature Demonstration



Re: Implementation of EDMS

Dear Ms. Peneguy:

On behalf of the Tulane Environmental Law Clinic, I convey our appreciation for the work you and your colleagues have expended to make LDEQ records increasingly more available to the public through EDMS. Certainly, making public records more accessible to the public produces benefits for us all.

Undoubtedly, this was a monumental task and you should be commended for bringing it through the pilot phase and beyond. EDMS is already an important tool for our attorneys, our students, and our clients. We look forward to its expansion and any improvements that you consider as the system matures.

Please share our gratitude and congratulations to the other members of the LDEQ team who have worked so hard to implement this system.

DEQ public records posted on Web site

By The Associated Press

Louisiana residents may now access state Department of Environmental Quality public records from their home, office or anywhere they have Internet access, the department has announced.

Very truly yours,

Mike Murphy

Community Outreach Director

POTPOURRI

Department of Environmental Quality Office of Management and Finance Information Services Division

Electronic Document Management System (0607Pot7)

The Department of Environmental Quality (DEQ) will offer a cilot-version of its Electronic Deciment Management System (EDMS) for public use on the Internet beginning August 1, 2006. The EDMS is an electronic repository of official records that have been created or received by DEQ. In keeping with the



EDMS: Where it Started

August 2006

The Louisiana Department of Environmental Quality (LDEQ) rolls out a state-of-the-art public records database

The Electronic Document Management System (EDMS) makes it possible for employees and the public to access records electronically

[&]quot;DEQ Public Records Posted on Web Site," (2006, September 5). Advocate, p. 17.

[&]quot;Potpourri," (2006, July 14). Advocate, p. 59.

Benefits of EDMS

LDEQ Employees and Staff

- Eliminate file rooms and associated staff processes
- Immediate, real-time access to needed information
- Easily share files across departments, offices, divisions

Public Users

- Eliminated travel requirement to regional offices
- 24/7 access to LDEQ documents
- Streamlined process for requesting public records



Improved Information Governance

- Centralized scanning and record processing
- Standardized metadata/indexing schemes
- Manage born digital, paper, and non-paper records through one process
- Centralized disposition management

Legal and Compliance

- Streamline record retrieval for e-discovery, subpoena, and litigation-related requests
- Legal hold implementation

Reduced Costs

- No off-site storage costs
- Reduced overhead/processing costs for public records technicians or file room staff



Since then, EDMS has evolved



7.25 Million Documents

~5,000 users/month

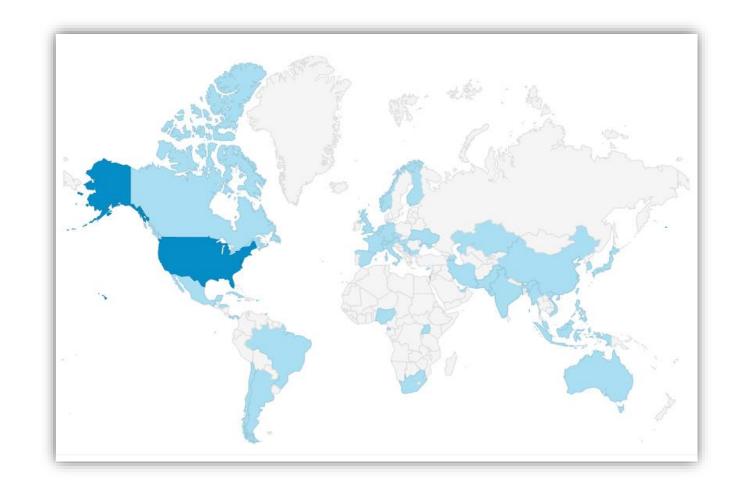




~170,000 page views/month

Local, Regional, National, and International Access



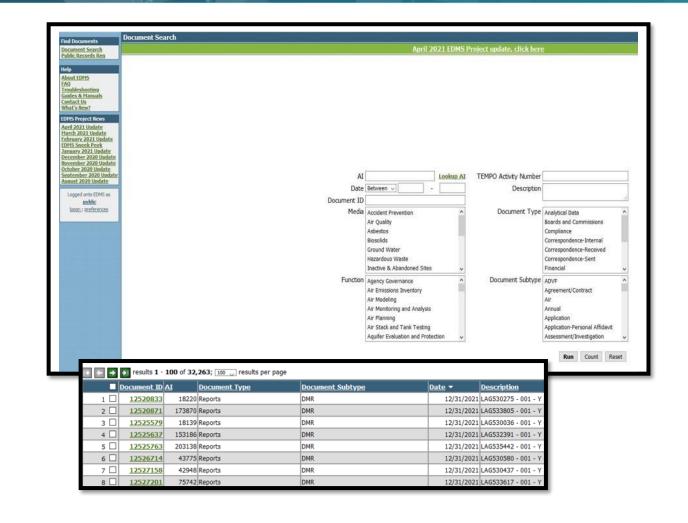




BUT, after 15 years, EDMS is showing its age

Limitations

- Outdated user-interface, style
- Compatibility issues
- Sluggish Performance
- Lacking functionality
- Low recall and precision for document retrieval
- Steep learning-curve and unintuitive search strategy





EDMS Redesign

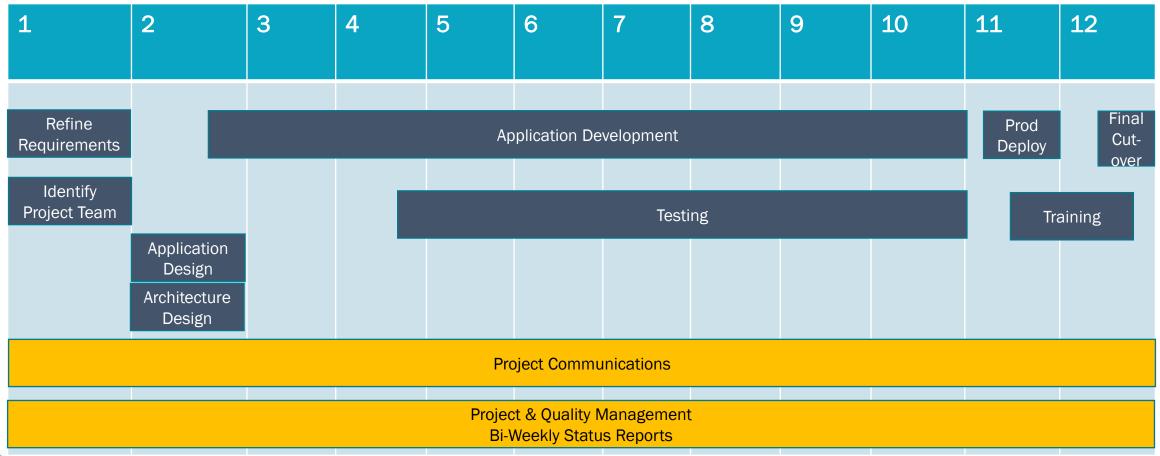
What can we do to make it more Google Like?



- Karyn Andrews- LDEQ Undersecretary



Project Overview: Schedule and Key Components

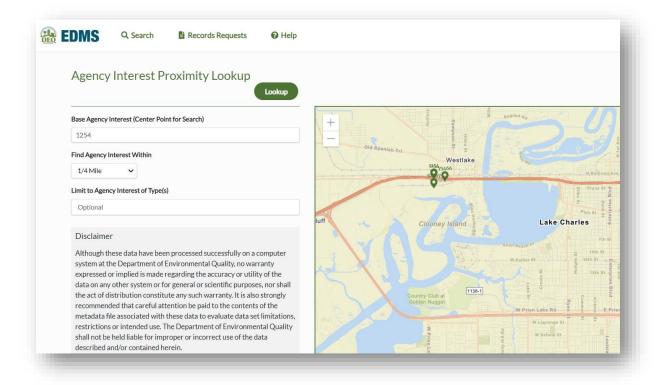




Key System Components: New Features

User Experience

- Updated UI matching LDEQ website design
- Improved process screens
- Agency Interest (AI) mapping





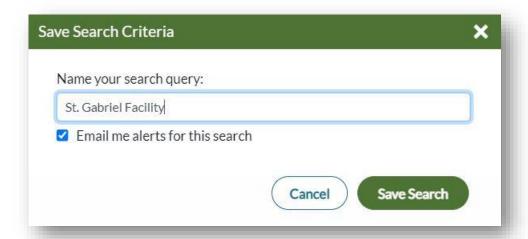
Key System Components: New Features

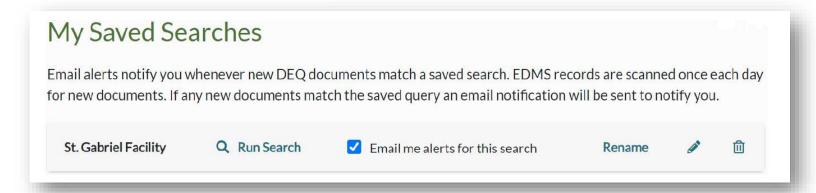
User Experience

- Updated UI matching LDEQ website design
- Improved process screens
- Agency Interest (AI) mapping

Customization and Preferences:

- EDMS user account for public and LDEQ
 - Save frequently used searches
 - Email alert notifications







Key System Components: New Features

User Experience

- Updated UI matching LDEQ website design
- Improved process screens
- Agency Interest (AI) mapping

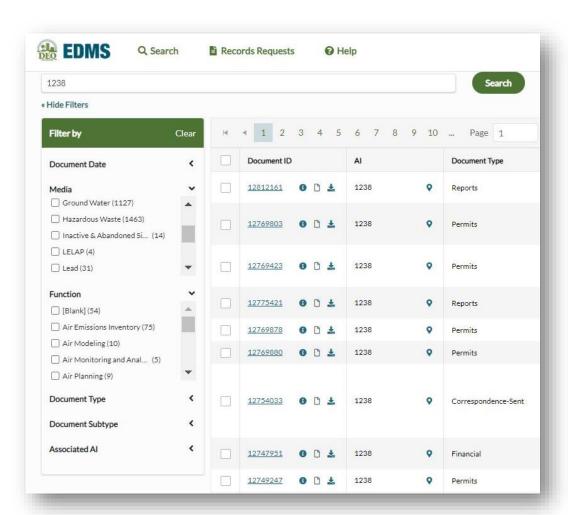
Customization and Preferences:

- EDMS user account for public and LDEQ
 - Save frequently used searches
 - Email alert notifications

Search Enhancements:

- Refine searches using filters
- Separate quick and advanced search
- Dynamically change search layout screen
- Toggle between two display types

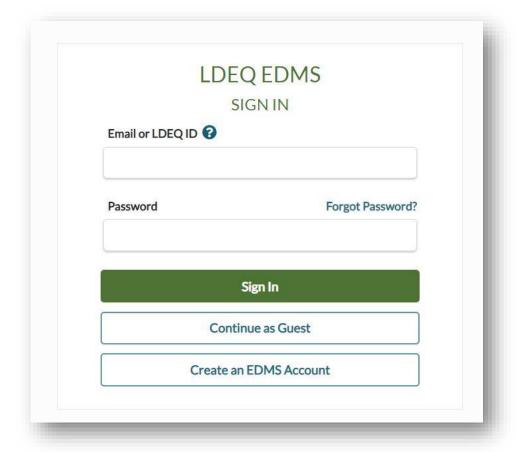




Key System Components: Security and Access

User Authentication

- 3 user levels: LDEQ employee, registered public user, guest
- Roles and privileges differ by level





Key System Components: Security and Access

User Authentication

- 3 user levels: LDEQ employee, registered public user, guest
- Roles and privileges differ by level

Access Restrictions and Security

- Tiered document access protection based on users roles:
 - Access Right 1: Public/LDEQ
 - Access Right 2: LDEQ
 - Access Right 5: Authorized LDEQ only

Public Restricted Access Message

Document access denied



EDMS

Document **12815607** contains security sensitive information. To view this document, please **submit a public records request**.

Logged as public

LDEQ Authorized to View Confidential Access Message

Document contains security sensitive information



EDMS Logged

Document 12823917 contains confidential information. It should not be distributed to unauthorized users.

as swe\tina.gibeson

Clicking this link opens a confidential record which you have access to in order to fulfill your job duties here at DEQ. Please be aware that in accordance with LAC 33:1:501, any employee or former employee of the department or anyone acting as a representative of the secretary of the department who is convicted of intentional disclosure or conspiracy to disclose trade secrets or other information that has been determined to be confidential is guilty of a misdemeanor and, upon conviction, shall be punished by a fine of not more than \$1,000, imprisonment for up to one year, or both.

View Document



Key System Components: Security and Access

User Authentication

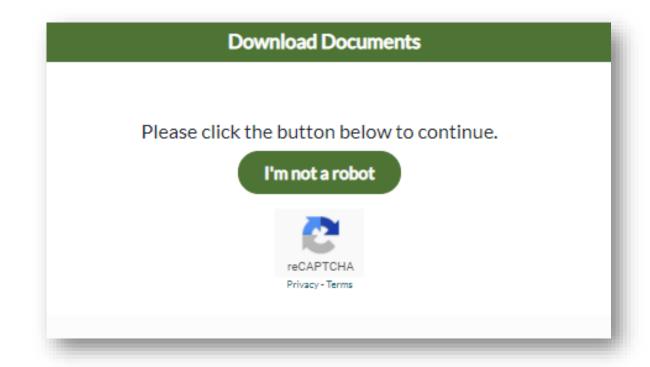
- 3 user levels: LDEQ employee, registered public user, guest
- Roles and privileges differ by level

Access Restrictions and Security

- Tiered document access protection based on users roles:
 - Access Right 1: Public/LDEQ
 - Access Right 2: LDEQ
 - Access Right 5: Authorized LDEQ only

Session Captcha for Document Access

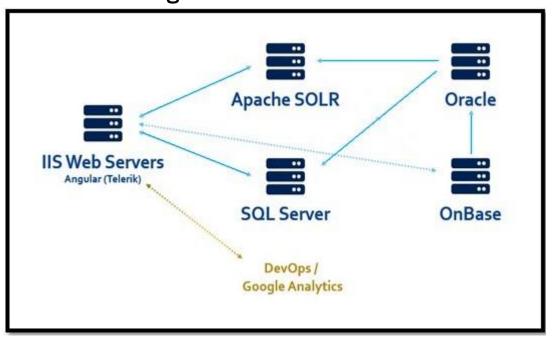
1 time/session click through captcha



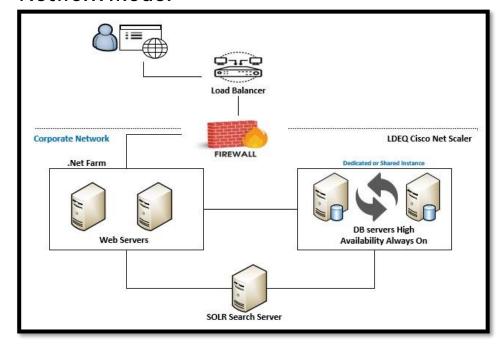


Application Overview: Key Components

Architecture Design



Network Model





Project Overview: Road to the New System



Current State

- Outdated look and feel
- Steep learning curve
- Limited search capabilities
- Limited functionality
- Limited customization





Future State

- Modernized look and feel
- Easy-to-use, intuitive screens
- Expanded search capabilities
- Enhanced functionality
- New customization options



Change Roadmap



- Opinion survey to solicit feedback and introduce planned changes
- EDMS Project News and Discovery DEQ

Awareness

Desire

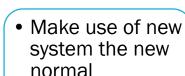
- Identify change champions
- Communication, word of mouth, and consistent messaging

- Introduce new features (video, sneak preview)
- Develop training and job aids, help videos, user testing

Knowledge

Ability

- Leverage users who embrace new system
- Timely response to questions or concern



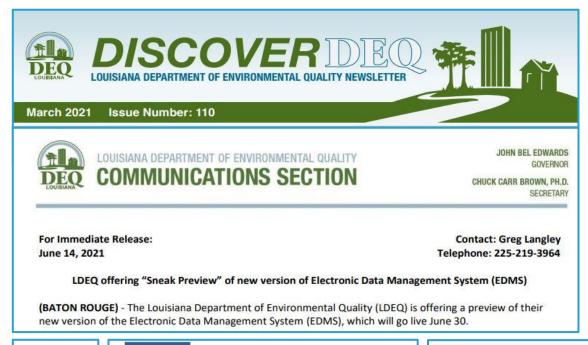
 Redirect, phaseout outdated functionality

Reinforcement



The Prosci ADKAR Model

Change Management: A Multifaceted Approach













1. Change Champions

Core user group of LDEQ employees/records coordinators

strong opinions and great feedback





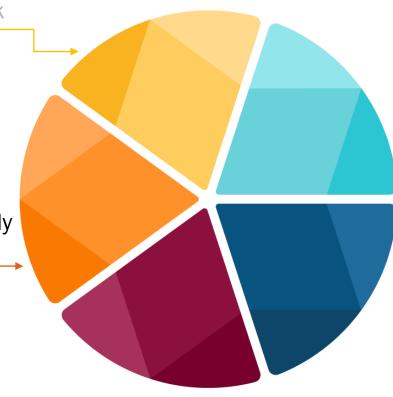
1. Change Champions

Core user group of LDEQ employees/records coordinators

strong opinions and great feedback

2. Gather Feedback and Concerns

- Make it easy for users to participate
- Centralized system for gathering bugs, reports, issues, comments
- Address issues quickly and consistently





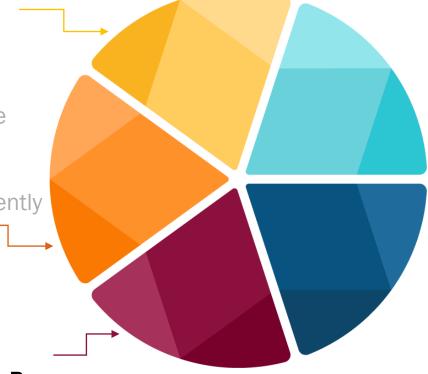
1. Change Champions

Core user group of LDEQ employees/records coordinators

strong opinions and great feedback 2. Gather Feedback and Concerns Make it easy for users to participate

Centralized system for gathering bugs, reports, issues, comments

Address issues quickly and consistently





3. Leverage Agency Resources

- Identify and use available skill sets or potential partnerships across the organization
- Graphic designer, public communications, IT, supervisors and executive sponsors

1. Change Champions

Core user group of LDEQ employees/records coordinators

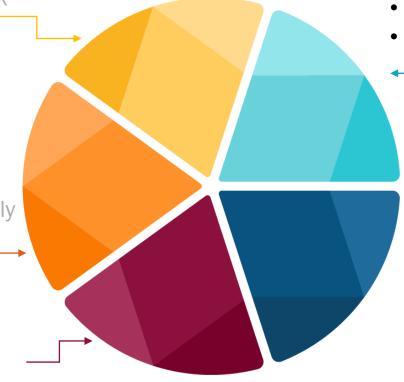
strong opinions and great feedback

2. Gather Feedback and Concerns

- Make it easy for users to participate
- Centralized system for gathering bugs, reports, issues, comments
- Address issues quickly and consistently

4. Consistent and Frequent Messaging

- Reach public and internal users
- Reinforce design, processes, and skills





- Identify and use available skill sets or potential partnerships across the organization
- Graphic designer, public communications, IT, supervisors and executive sponsors



1. Change Champions

Core user group of LDEQ employees/records coordinators

strong opinions and great feedback

2. Gather Feedback and Concerns

- Make it easy for users to participate
- Centralized system for gathering bugs, reports, issues, comments
- Address issues quickly and consistently

4. Consistent and Frequent Messaging

- Reach public and internal users
- Reinforce design, processes, and skills

5. Testing, Training, Testing

- Involve users early and frequently
- Iterative process throughout project



- Identify and use available skill sets or potential partnerships across the organization
- Graphic designer, public communications, IT, supervisors and executive sponsors



EDMS: Metrics and Statistics

Google Analytics

EDMS leverages Google Analytics to track key statistics and demonstrate return on investment (ROI)

- Real time usage data
- Reports and analysis
- Prepare charts and graphs



Usage

- Number of Users
- Number of Sessions
- Number of Page Views

Geolocation

- Country
- State
- City





Feature Use

- Landing Pages
- Search Screens



Rollout Statistic

Classic

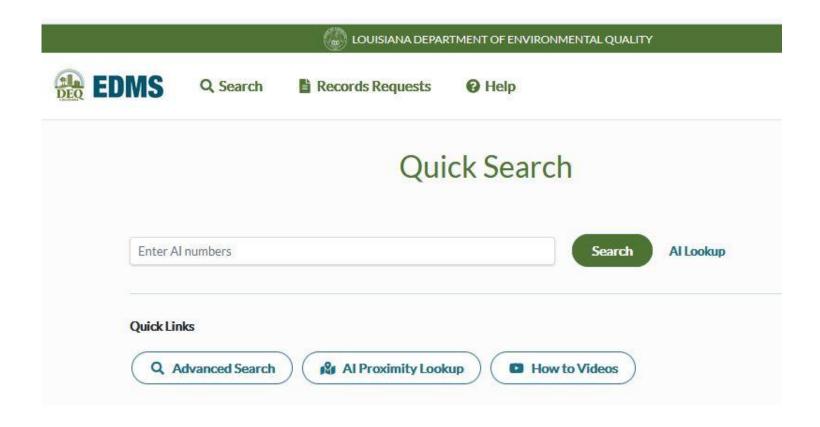




EDMS System Demonstration

Demonstration Focus:

- Document search and retrieval
- Faceted search filters
- Saved search and notifications
- Al proximity lookup
- Overview of help resources
- Public records form





Lessons Learned: Key Project Challenges



COVID restrictions

Agency workforce shifted to work from home

 Leveraging Teams/Zoom technology and frequent user engagement allowed for little to no interruption to project workflow



Slow initial development

Learning-curve for Teleric and Angular framework

 Adding additional development resources quickly brought project back on track



Web-Crawler/Bot Attack

A web-crawler attack on EDMS slowed system response time significantly

 Implementation of ReCaptcha on crucial system components prevents malicious document calls



Unanticipated user stories

Despite extensive user testing, a critical LDEQ staff function related to submittals was missed

 Identified issue and implemented a fix within 24 hours of being notified of missing components



Lessons Learned: Key Project Successes



On-Site support team

 Having a separate Access Sciences team on site already familiar with the system provided for critical input on use cases and facilitated stakeholder engagement and access



Leveraging LDEQ Resources

- Allowing super users early access to the system helped quickly identify potential issues
- The project team collaborated with several core LDEQ business units, raising awareness of the RM Program and EDMS Project



Project rollout schedule

• A tiered project roll-out schedule allowed users to gradually move to the new system without experiencing major interruptions and assisted in the change management process



Communication and change management

- Users were well prepared for the final cut-over to the new system
- Despite posing a significant chant to users, the team encountered no push back to making the switch



Questions?

Glenn Frederickson

- Project Manager
- Access Sciences
- GFrederickson@AccessSciences.com

Tina Gibeson

- Senior Records Analyst
- Access Sciences
- TGibeson@AccessSciences.com

