



EarthSoft Info
Southeast User Group
March 8, 2024

Mitch Beard

Topics

- 2023 Priorities
- 2024 Goals
- Governance and Gamification
- Australia Case Study
- Business Partner Program





2023 Priorities

- EQuIS Geotech
- Data Governance
- Australia Visit
- Compliance Journey



2023 Priorities – EQuIS Geotech



Modernize and automate geotechnical data management

Standardized and Centralized Data

Boring Logs and Subsurface Profiles Built-in Standard Reports and Forms Built-in Dashboards for Data Entry and Analysis









EQuIS Geotech Workflow











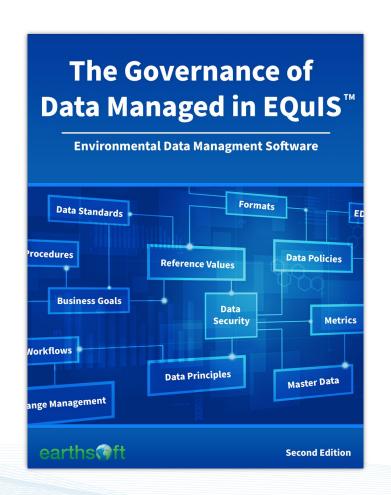


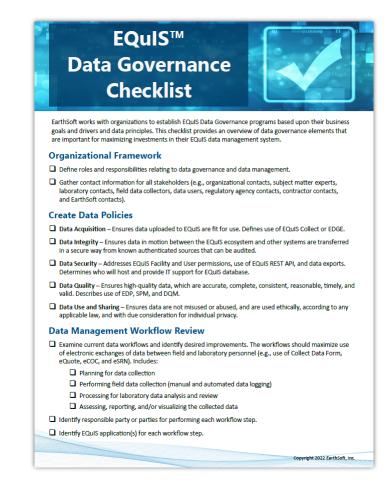
Project Planning Field
Activities
& Data
Collection

Boring Log Data Review Lab Assignments & Testing Instrument Data Analyze Visualize & Report



2023 Priorities – Data Governance





Several clients have multiple consultants implementing EQuIS very differently.



What is Data Governance?

Data Governance can be defined as the "exercise of authority and control (planning, monitoring, and enforcement) over the management of data assets."

Data governance focuses more narrowly on the issues surrounding its access, protection, compliance, and usage of data with the goal of bringing maximum benefit to an organization.

- Who can access which segments of data (and how to minimize unnecessary access and risk)?
- Determine who will manage enterprise data and establish a system of accountability for those roles.
- Develop policies to maintain compliance with local, state, federal, and other regulations.
- Identify and implement tools that can be leveraged to make the most of the data.

The overall goal of data governance is to enable an organization to manage and protect data as an asset in a sustainable way. <u>Data governance is not data</u> <u>management</u>. Data governance functions to guide data management activities and ensure that data are properly managed.

Why Perform Data Governance?

Businesses that have environmental compliance requirements frequently invest in an environmental data management system (EDMS). Common business drivers for organizations to invest in an EDMS and data governance are as follows:

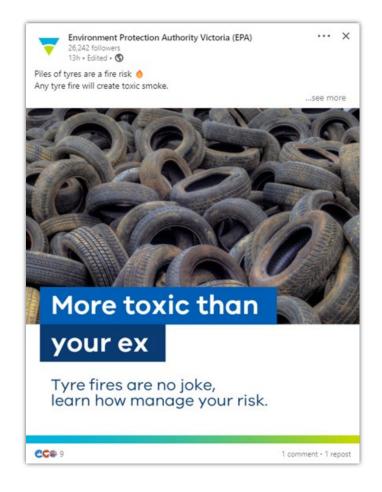
- Growth / Business Agility Arrive at decisions and recommendations faster with increased efficiency and accuracy.
- Lower Cost / Operational Efficiency Achieve business goals by streamlined workflow and automation of data-related business processes.
- Risk Management / Compliance and Security Ensure compliance to internal and external policies and regulations by defining data standards, policies, and processes with clear roles and responsibilities to control adherence.
- Sustainability Operate in a sustainable manner by implementing a data governance program and FDMS.

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2023 Priorities – Australia Visit

- Many New Clients
 - EPA Victoria
- Staff Growth and Changes
 - Manila Technical Support Team
- Project Management





2023 Priorities – Compliance

EarthSoft is ISO 27001:2022 Certified!

ISO 27001:2022 is an information security standard published by the International Organization for Standardization (ISO), the world's largest developer of voluntary international standards, and the International Electrotechnical Commission (IEC).



EarthSoft, Inc Certificate Number: ISMS-EA-012524

CERTIFICATE OF REGISTRATION

Information Security Management System ISO/IEC 27001:2022

EarthSoft, Inc.

Management System that conforms to the requirements of ISO/IEC 27001:2022. The scope and boundaries of the ISMS is as follows:

The Information Security Management System (ISMS) is applicable to the Information Security activities related to EarthSoft's EQuIS applications, platform, and software-as-a-service (which is an advanced environmental data



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ISMS-EA-012524

Original Certification Date **Expiry Date**

January 25, 2024 January 25, 2027 January 25, 2024

This certificate relates to the organization's Information Security Management System and requirements of ISO/IEC 27001:2022 as are certified. The certification number, certification body mark and accreditation mark shall not be used on products or used in conjunction with documents relating to the organization's products, processes or services. A-LIGN shall take action to deal with incorrect



2023 Priorities

- Business Partner Program
 - Added Labs: ALS and Eurofins



- Teamed for R&D and Marketing
- The Business of Environmental Data Management
 - Data Quality is hard to "sell".
 - Show something...



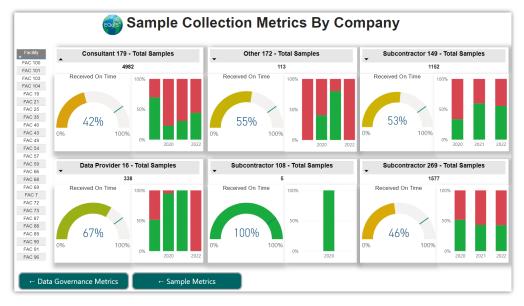
2024 Goals

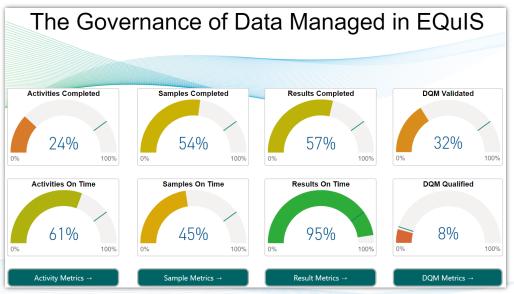
Data Governance – Gamification

Software Acquisition from Major Oil

Collaborative R&D, Marketing with Consultant Business Partner

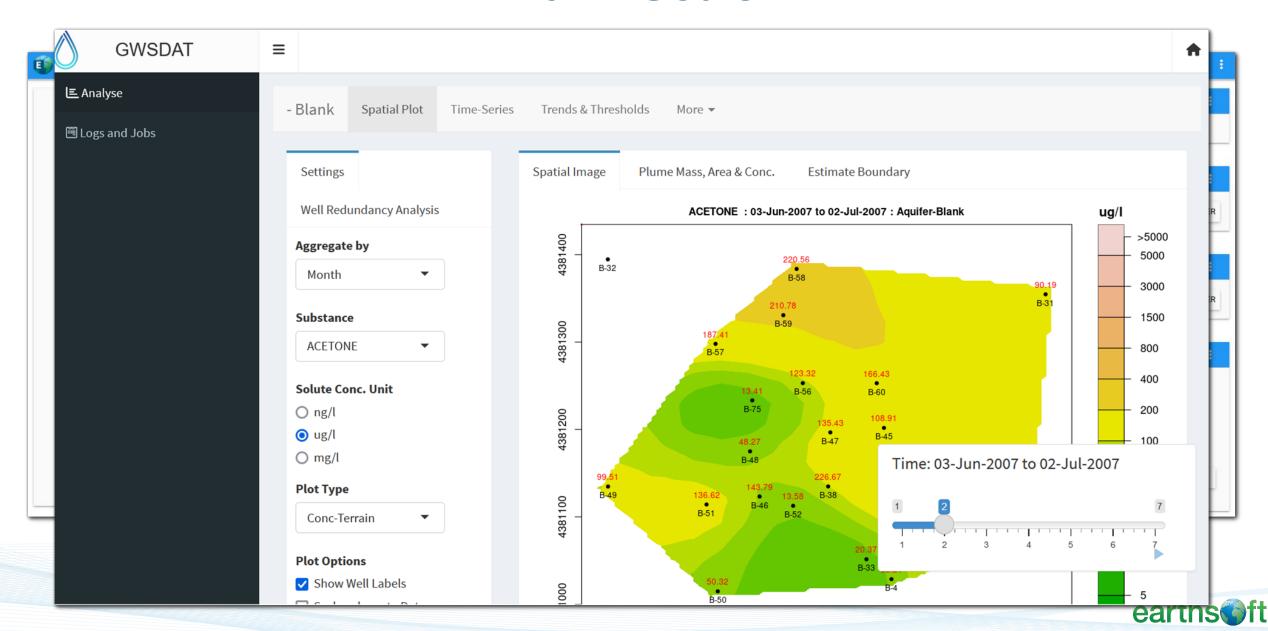
The Almighty Billable Hour is under assault







2024 Goals



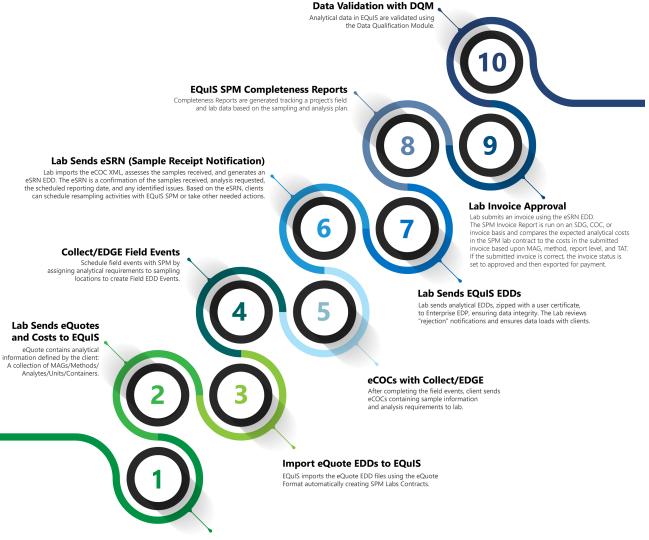
2024 Goals

- 1. Integration with Collaboration Tools: Integrates with popular collaboration tools like Microsoft Teams, SharePoint, and Viva Engage. It also integrates with Azure Blob storage and other databases. This allows for seamless access and management of data and documents from these platforms.
- 2. Central Storage and Search Capability: It acts as a central hub for storing and searching data and documents from multiple sources. This makes it easier to find and manage information within an organization.
- 3. Built on Microsoft Azure Al Stack: Utilizing Microsoft Azure's Al capabilities, offers advanced search functionalities. This includes natural language processing and machine learning algorithms to enhance search results and efficiency.
- **4. Data Extraction and Document Summarization:** The portal provides tools for data extraction and summarization of documents. This can be particularly useful for quickly understanding the content and context of large documents without reading them in entirety.
- 5. **Identification of PII and Profanity:** Can identify personal identifiable information (PII) and profanity within documents. This feature is crucial for maintaining privacy standards and ensuring a professional environment.
- **6. Unique Security Features:** The security aspect is addressed by ensuring that only authorized users can search and access documents specific to the repositories to which they have access. This is vital for maintaining data confidentiality and integrity.
- 7. Integration with EQuIS: Is integrated with EQuIS for hosting lab reports, images, documents and Electronic Data Deliverables (EDDs) submitted by field and lab members.

In summary, offers a robust solution for knowledge management, combining AI-powered search and data handling capabilities with strong security and privacy features. Its integration with various data sources and collaboration tools makes it a versatile choice for organizations looking to centralize and streamline their information management practices.

Australia Case Study

EQuIS Analytical Data Workflow



Define Reference Values, Formats, and QAPP

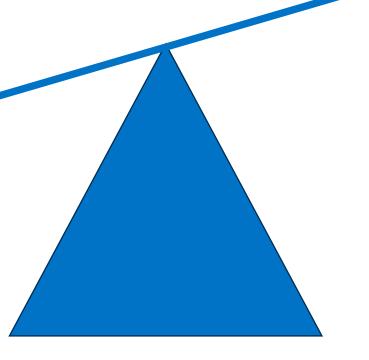
Upload RefVals (Analytes/Methods) and DQM QAPP for new projects, if not already in EQuIS. Select and/or customize EQuIS format(s) for analytical data.



Power and Ease of Use

Easier

- Fewer Choices
- Less Complexity
 - Canned Templates
 - Less Elexibility

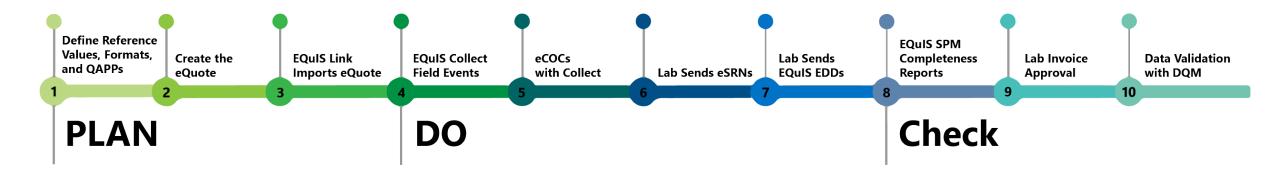


Harder

- You can do anything.
- Many selection parameters
 - Build New Templates
- Lots of Flexibility



Australia Case Study



Benefits Reported by bp include: Use of the workflow decreased time in the field from ~4 hours per trip to ~2 hours per trip. Fridays were previously consumed with extensive data transcription tasks, which have been eliminated. eCoCs submitted within minutes of each other from site locations that are an hour apart are immediately questioned for confirmation. Sampling location IDs are always correct (e.g., there is only one MW3, and it is never called MW03, MW-3, or anything else).

• Reference Values are all correct, with no errors.

Quality

Many of the **lessons learned** from the digital workflow demonstration were related to training and change management issues. In response to the issues encountered, bp reports:

- New users can usually submit correct eCOCs after watching a series of eight 7-minute videos.
- Most users correctly submitted data the very first time after the training.
- About 70 project managers were trained and it was deemed easy to learn.
- EQuIS helps track labs and field crews, and therefore, improve performance in real time.
- A new way to use the EQuIS Sample Planning Module to generate ad hoc sampling plans on-the-fly was developed.

 earths

