

Evolution of Data Management at Antea Group



Intro

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Background

- Antea Group (Delta Environmental) thrived in the atmosphere of the 90's UST boom
- Retail petroleum focused for many years
- Project teams were local/regional with little resource sharing

Our technical services prior to “unification”....



Data & Visualization

Data “Management”

- ✓ *EQuIS*
- ✓ *EnviroData*
- ✓ *Terrabase*
- ✓ *Access*
- ✓ *Excel*

Technical Software

- ✓ *ArcGIS*
- ✓ *Rockworks*
- ✓ *MVS*
- ✓ *MODFLOW*
- ✓ *GMS*
- ✓ *SADA*
- ✓ *CAD*

The Major Obstacles



An Enterprise Solution was needed

- Began with EQulS on a remote desktop platform
 - Enterprise was critical for project team use
 - EQulS for ArcGIS to unite our data and GIS

- Build out to our peripheral technical services
 - 3D Modeling
 - Web Mapping
 - Electronic/mobile data collection

Cultural Challenges

- With basic tools entrenched – how do you move a company to a completely different frame of mind?
- Build on success – add portfolios
- Organic growth
- Stragglers



Technical Challenges

- Migrating software license management from locally managed desktop single-use to enterprise
- Communication and education
- Resource and hiring shift



Capturing Data - Challenges

- Project teams across the country managing data in their own format
- Client-focused EQulS version
- Company-wide unfamiliarity with standardized data management systems
 - Concerns about data accessibility
 - Budget concerns
- Resources

Capturing Data - Challenges

- Project teams across the country managing data in their own format
 - Surveys distributed
 - Project inventory created
 - Targeted planned migration

- Client-focused EQUIS version
 - Upgraded to EQUIS 5.6
 - Retained standard schema

Influencing Factors on Effort

- ❖ Number of sample locations

- ❖ Frequency of sampling

- ❖ Historical data

- ❖ Action Limits



- ❖ Lab EDDs

- ❖ Reporting schedule/customized reports

- ❖ Visualizations

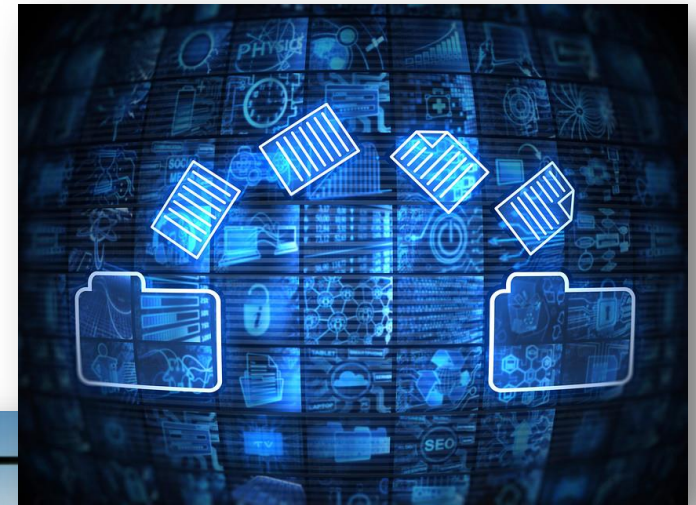
Capturing Data - Challenges

- Company-wide unfamiliarity with a standardized data management system
 - Flooding of information (brown bags, email releases, in-person presentations)
 - Integrated data management and visualization into upper management discussions

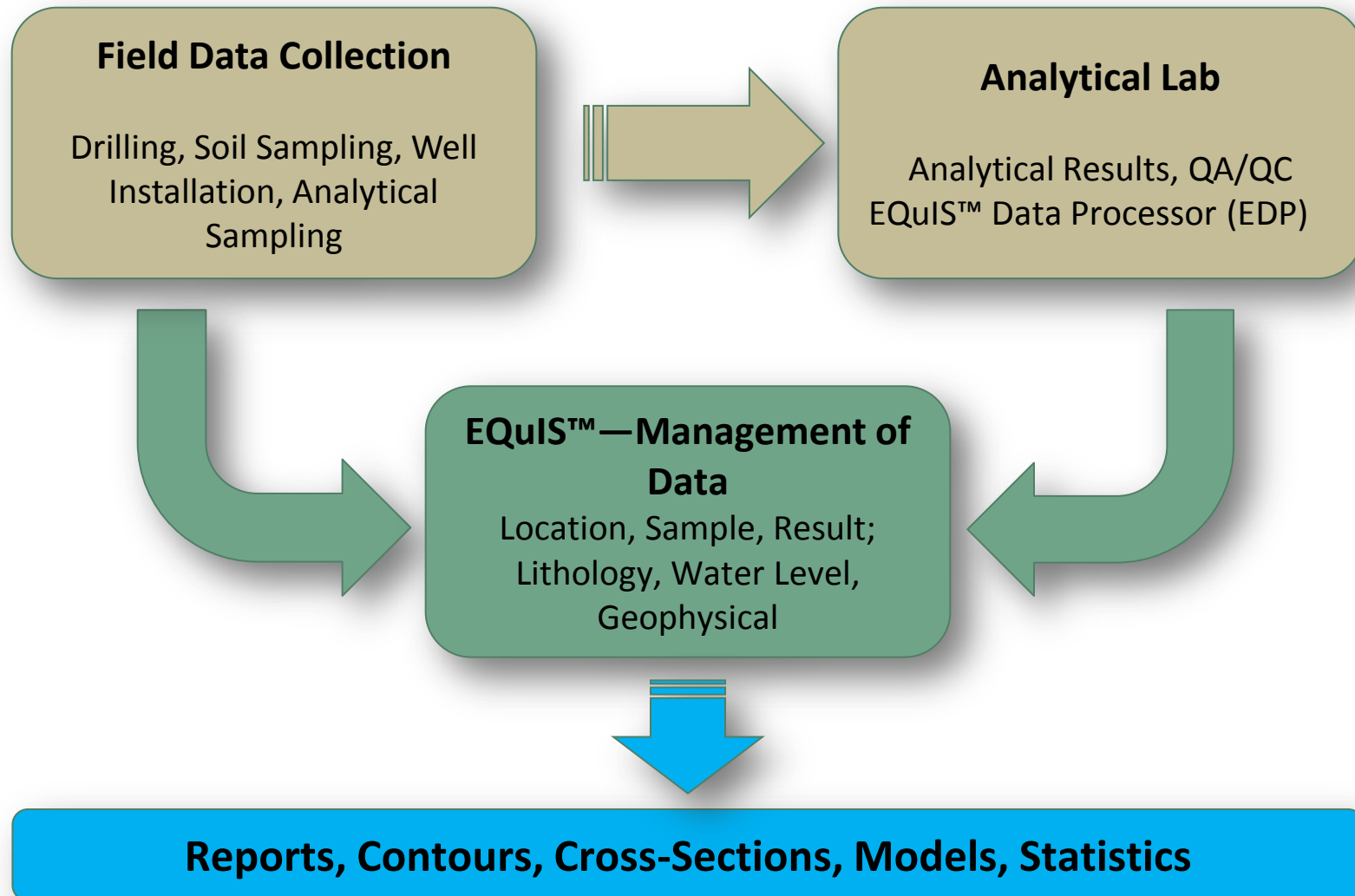
- Resources
 - Identify and train resources regionally

Capturing Data - Implementation

- Design tools to facilitate data capture
 - Planning using Project questionnaire
 - Access
 - Excel
- Process development
 - Project managers and field staff
 - Laboratories
 - Data managers



Data Workflow Process



Capturing Data - Successes

➤ Data Flow

- Uniform data receipt and storage
- Best success found with centralized group of Data Managers

➤ Standard Operating Procedures

- Covers all aspects of data management
- Defines best practices
- “Handbook” for consistency

Capturing Data - Successes

➤ Culture change

- Appreciation for quality data management
- Ease of use
- Reliability
- Data manager as a part of the project team

➤ Benefits

- Operate in the black (less admin cost)
- High quality data tables
- Efficient conceptual site models
- Assist clients in decision making and financial management



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