Optimizing Information Management To Connect People To Information and Expertise

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Marathon Statistics at a Glance



- Fortune 50 company
- Established in 1887
- 4th largest US integrated oil & gas company
- 5th largest US refiner
- Market Cap: ~ \$20 billion
- 2009 Revenues: \$54 billion
- 2009 Net income: \$1.46 billion
- 2009 Net Oil & Gas Production Sold: 407,000 BOE/D
- 2009 Net Synthetic Crude Oil Sold: 32,000 BPD
- 2009 Net Proved Reserves: 1.679 billion barrels
- Employees: ~30,000
- Headquartered in Houston, Texas

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Marathon's Business Segments



Integrated Gas



Exploration & Production

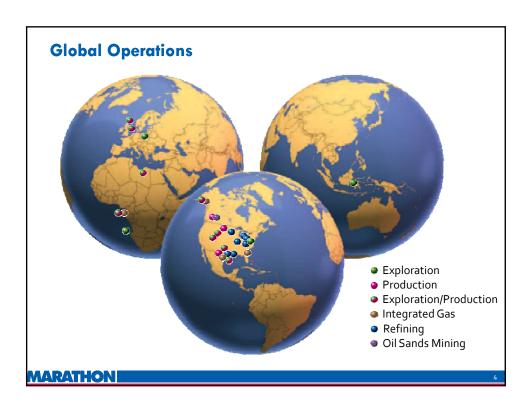


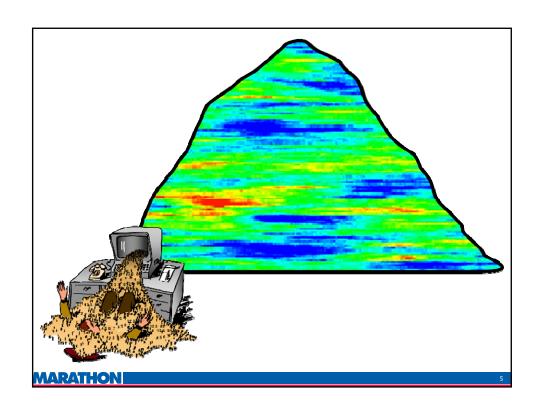
Refining, Marketing & Transportation

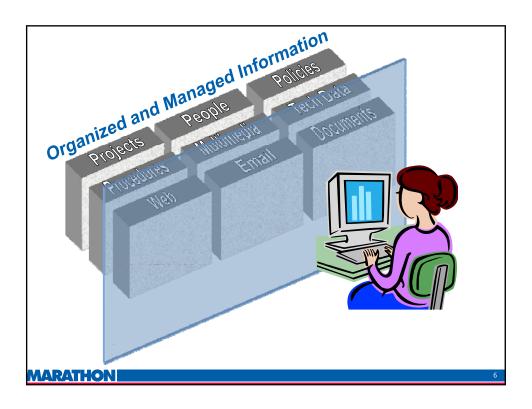


Oil Sands Mining

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Knowledge & Information Management Scope

■ Information Channels

- Electronic & Physical
- Email
- Instant Message
- Web (Intranet & Internet)
 - Collaboration & Social Media: blog, wiki, discussion, ...
 - Content Types: video, webcast, podcast, RSS, ...
- File Shares / PCs ... "unstructured"
- Applications ... "structured"



■ Information Types

- Policies & Standards
- Daily Market Assessment
- Jobber Contracts
- Interpreted Log Curves
- Pipe Line Operating Procedures
- Refinery Process Safety Management Documents
- Reserves Estimates
- Reservoir Models
- Trading Deals
- People Profiles
- Best Practices
- Lessons Learned

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Motivation

Business Drivers

- Productivity
- Decision Quality
- Cycle Time
- Cost
- Consistency
- Collaboration

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Risk Mitigation

- Operational
- Technical
- Financial
- Safety
- Environmental
- Regulatory
- Legal
- Security

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Security

- Confidentiality, Integrity, Availability
- Standards
 - NIST
 - Standards for Security Categorization of Federal Information and Information Systems,
 National Institute of Science and Technology, FIPS PUB 199, February 2004
 - American Petroleum Institute
 - API IT Security Forum, May 2009

Challenges

- Balancing the tension between "knowledge sharing" and "need to know"
- Sustainability as organizations and technologies change

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Engaging on multiple fronts

- Scope
 - Policies
 - Roles & Responsibilities
 - Processes
 - Technology
 - Ongoing Support

Stakeholders

- Business
- Law
- HR
- Internal Audit
- Finance
- Public Affairs
- IT

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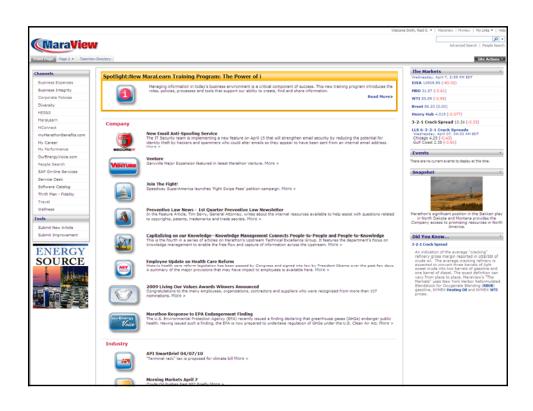
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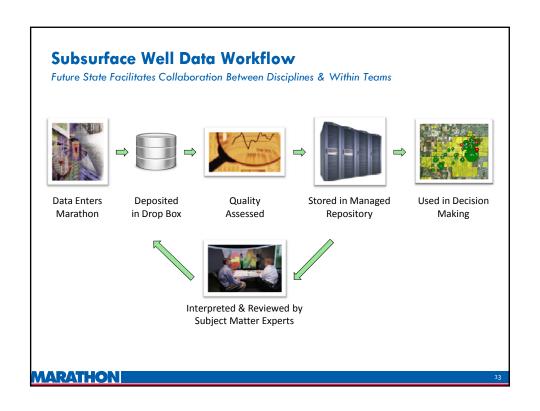
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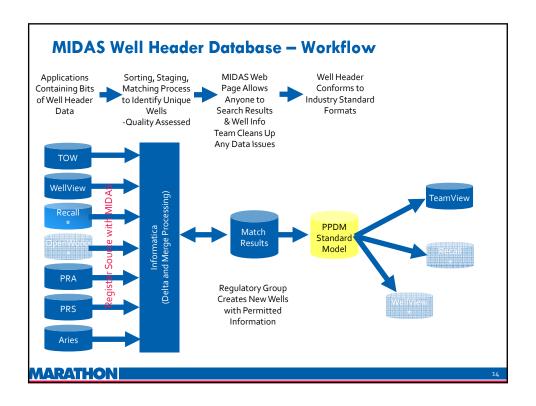
Examples of Marathon Systems

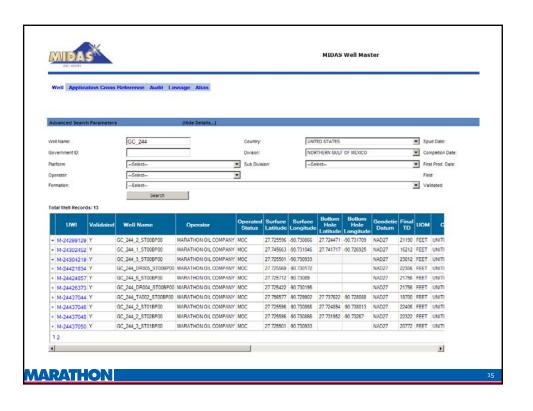
- MaraView Enterprise Information & Records Management
- ViewPoint Data Dashboards
- MIDAS Well headers
- PWE/Recall Well Logs
- MaraGIS Data Mining
- Technical Information Center Physical Records

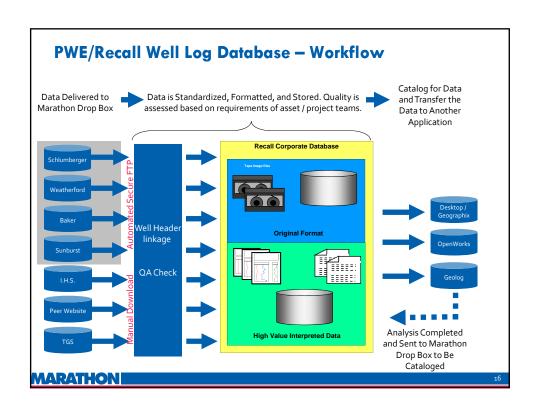
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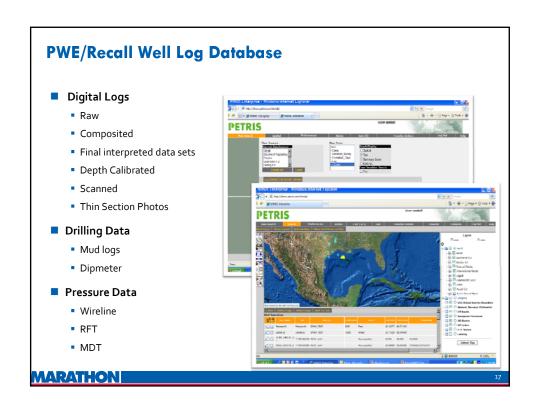


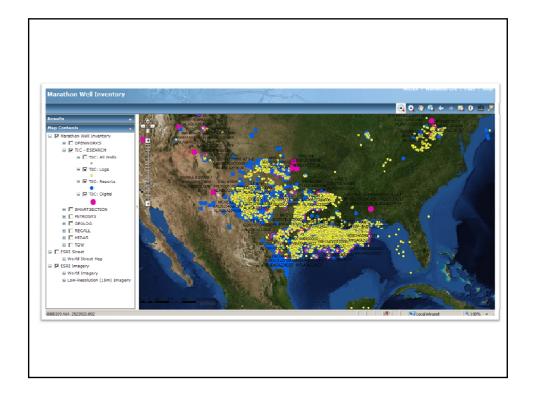


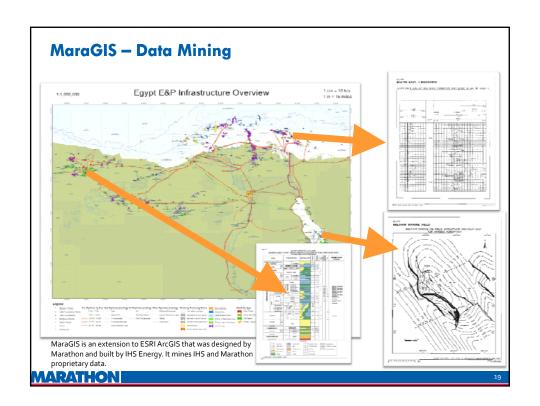












Technical Information Center

IHS Data Management Specialists managing Marathon Physical Petrotechnical Records





Roles and Responsibilities

- $\bullet \quad \mathsf{Design}\,\&\,\mathsf{implement}\,\mathsf{effective}\,\mathsf{systems}\,\mathsf{for}\,\mathsf{maintenance},\mathsf{protection}\,\&\,\mathsf{disposition}\,\mathsf{of}\,\mathsf{technical}\,\mathsf{records}$
- Establish filing procedures, and determine standards for data entry
- Store and maintain technical data using established procedures and business rules
- Maintain database integrity through accurate inventories, timely data entry, retrieval and refiling
- $\,\blacksquare\,$ Coordinate the transfer and retrieval of technical data to and from offsite storage
- Maintain inventories of data stored in multiple locations with multiple vendors
- Coordinate destruction of records in accordance with Marathon's records retention schedule

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State of Information Management at Marathon

Policies, Standards, Procedures

- Enterprise Records & Information Management Policy
- Information Classification Standard

Roles & Responsibilities

- Executive Sponsors, Information Champions
- Asset Data Stewards, TeamView Editors, Records Coordinators, IT Analysts

Processes

Classification, Migration, Data Handling, Offsite Storage, eDiscovery

Technology

- Knowledge Connections: people to information and people to people
- Ongoing performance improvement & system integration
- Hold Order Management, eDiscovery

Ongoing Support

Training, Help Desk, Compliance Readiness Assessments, Physical Records Management

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Guiding Principles

- Information must be managed as an asset
- Relevant, up-to-date and trusted information offers maximum value
- Standardized processes and technology offer significant benefits
- Embed legal and regulatory compliance in business processes
- Support spans processes and technology
- Individual ownership and accountability are necessary for success

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