



Provenance Consulting



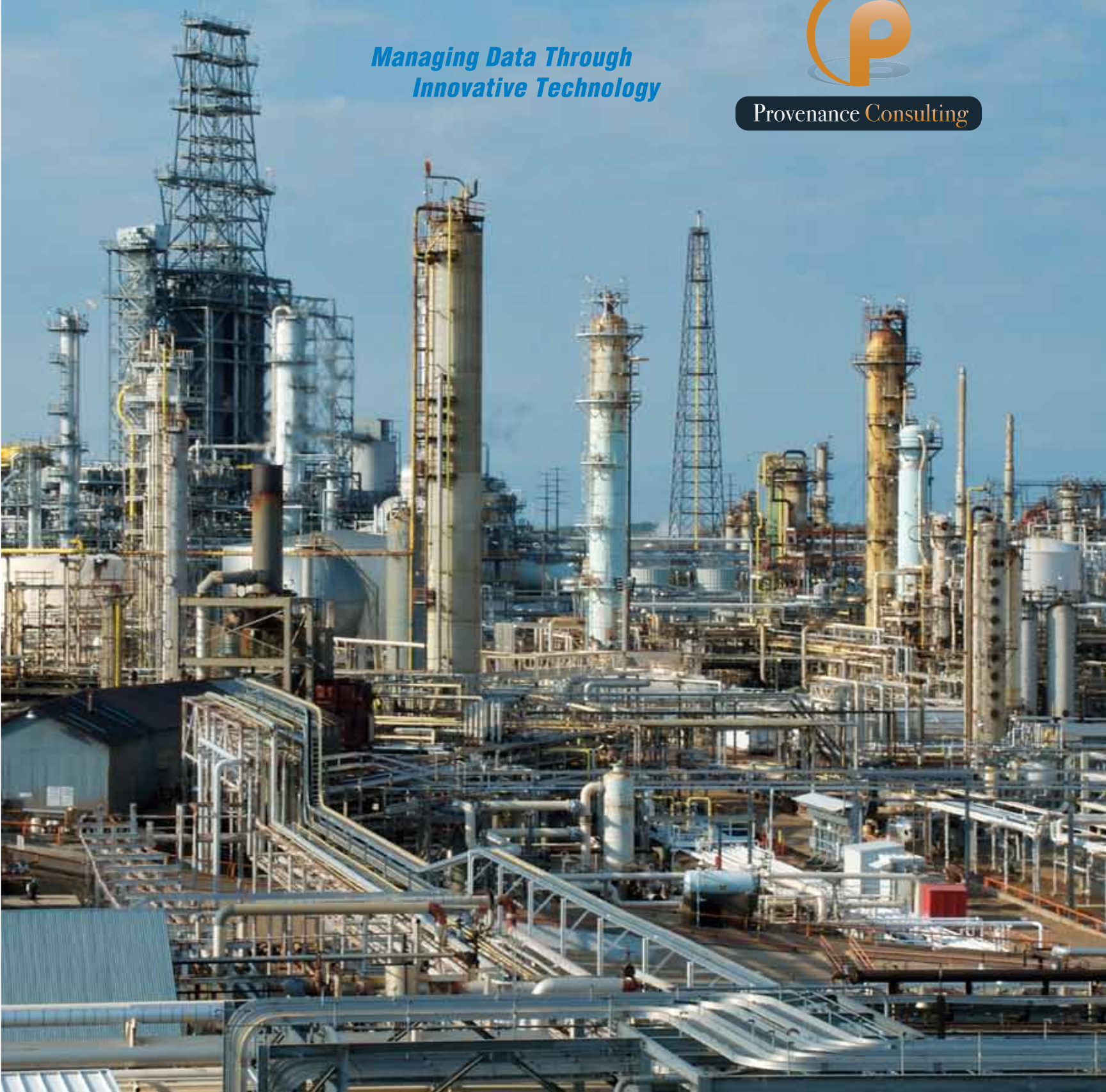
*Powerful information management services and software
for the oil, gas and chemical industries*

Today's complex and ever-changing oil, gas and chemical facilities utilize many different systems, workflows and processes. They are increasingly subject to internal standards, OSHA, EPA and other regulatory guidelines and requirements. Through innovation and technology, Provenance Consulting provides information management systems that track, monitor, verify and sustain the river of data that personnel use in the design, operation and maintenance of their plants. We accomplish this through Process Safety Management Services and Software Applications.

**Managing Data Through
Innovative Technology**



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Software Services

Provenance has developed several software programs specifically for the oil, gas and chemical industries. Currently, several major oil and gas companies use these programs to track and verify information that impacts their operations, the safety of their employees and their profitability. We also have extensive experience in developing custom applications to solve specific problems faced by our clients.

ARTS™ - Asset and Records Traceability System

ARTS represents a breakthrough in information management providing user-friendly customizable and comprehensive access to accurate and consistent data across multiple data sources.

These data sources include:



- Inspection data management systems
- Relief design basis documentation
- AutoCAD® and Microstation drawings
- Process hazard analysis software
- Enterprise resource planning software
- Other individual data repositories

ARTS tracks and verifies information that is used to make engineering decisions that affect the integrity of equipment, processes and ultimately the safety of employees. ARTS also provides audit protection. With ARTS, all of your engineering data is traceable and verifiable. Plus, ARTS has been recognized as a PSM strength during our clients' PSM audits. More detailed information on the functionality of ARTS is presented in our ARTS brochure.

CERTS™ - Certification and Employee Refresher Training System

CERTS was developed to facilitate compliance with the training element of the PSM Standard. The program tracks job certification and recertification requirements in a unique way. CERTS documents all training opportunities that take place during the certification period. This approach ensures training is documented, recorded and credit given. CERTS functions include the following:

- Tracks job certification (and recertification) requirements
- Documents all training opportunities
- Promotes successful audit compliance
- Ensures training (such as participation in scenario drills, Process Hazards Analysis studies/PHA, MOC, classroom training, etc.) is documented and recorded.

Custom Software Development and Implementation

We have developed many desktop, server and web-based applications for our clients. Our development process focuses on leveraging the value of existing systems and maximizing automation whenever practical. Additionally, Provenance has extensive expertise in the implementation and maintenance of many

third-party applications that are commonly used throughout the oil, gas and chemical industries. Examples of custom applications include:

- AutoCAD® menu generation
- AutoCAD® attribute data extraction utility
- AutoCAD® continuation flag exception checking utility
- Management of change
- Management of organizational change

For information to be useful, it must be received and understood. In many instances, developing custom software applications fails due to interruptions in the information flow and language gaps between end-users and coders. Provenance is bi-lingual. We speak both engineering technical and software technical, which allows us to develop seamless, problem-free custom applications.





Process Safety Management Services

Our highly-skilled and trained personnel become part of our client's team. They are on-site, hands-on and adept at going into the field to verify facility information or working through a pre-startup safety review. They are involved and dedicated to our client's needs. Some of the services we provide include:

Process Safety Information

- Drawing (P&ID's, PFD's, plot plans, instrument loops etc.) verification, generation and updates
- Audits and reviews
- Data consistency checks
- ARTS™ implementation and stewardship
- Equipment file reconciliation and consolidation

Management of Change

- MOC system facilitation
- MOC audits and reviews
- MOC system stewardship
- Pre-startup safety reviews
- Training

Mechanical Integrity

- Corrosion monitoring software stewardship
- Drawing generation and verification
- RBI implementation
- Piping circuitization
- TML placement
- On-stream inspections
- Audits and gap analysis

Document Control and Drawing Services

- Project and MOC documentation updates
- Hardcopy drawing migration to intelligent electronic files
- Project information hand-off to operating facilities

PHA and LOPA Services

- Process Hazards Analysis facilitation
- Layers of Protection Analysis facilitation

Other Services

- Facility siting evaluation
- Risk management plan generation
- Relief system design
- Incident investigation facilitation
- Operator training
- PSM training

Our extensive experience and expertise allows us to assess the needs, diagnose the problems and provide solutions. We focus on PSM and take a pragmatic, precise approach. We evaluate everything we do through the lens of efficiency, allowing us to quickly and cost-effectively implement the appropriate services required.



***If You Don't Manage the Data,
You're at the Mercy of the Data***





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