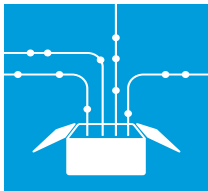# UCOS®
Wellhead Monitoring System

TechnipFMC

Wellhead Monitoring

Efficient
TechnipFMC's Wellhead Monitoring System (WMS) leverages its UCOS control and automation platform to improve production efficiencies, streamline operations and provide advanced data analysis benefits.

Secure
Secure, system wide data access ensures that local operations can be managed for optimal production performance, while enabling global support service teams remote access for condition monitoring, predictive maintenance and support purposes.

Simple
TechnipFMC's WMS supports standard interfaces between all its components, so the system will scale as new wells are brought on line, which greatly reduces implementation complexity and cost.
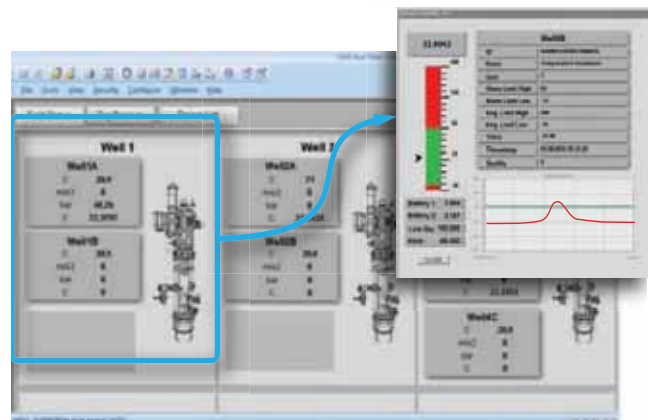
Increase Efficiency

Monitor & Control
TechnipFMC's WMS comes with a fully integrated industry-standard human machine interface (HMI). The HMI is pre-configured for wellhead monitoring operations and can be extended at runtime to include new wells.

Faceplates allow operators to monitor and control each well within the field. Automated sequences can be configured to ensure proper valve closure and opening, greatly reducing equipment damage or other unintended consequences.

Security se ttings within UCOS enforce your company's policies and prevent unauthorized changes.

Reduce Unplanned Downtime

Predictive Maintenance

One of the many benefits offered by TechnipFMC's WMS is the simplicity of adding a Field Recorder for remote Condition and Performance Monitoring (CPM) purposes.

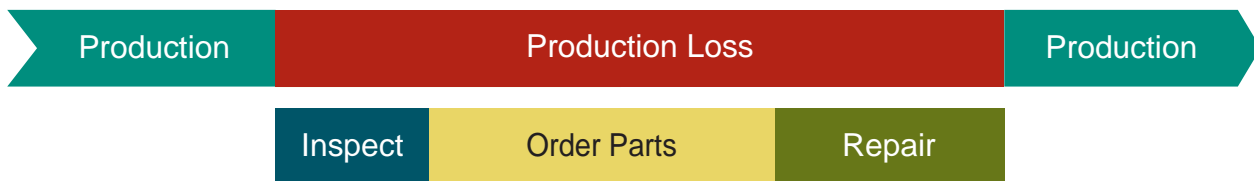TechnipFMC's standard Field Recorder gathers and transmits system wide data, including valve signatures, over a secure wide area connection to global CPM systems.

Predictive analysis programs designed for CPM purposes provide valuable data analysis for production support services teams who can plan maintenance activities before equipment failure causes costly downtime.
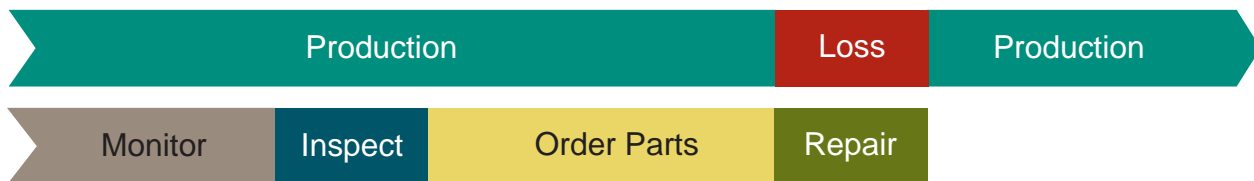
Reactive Maintenance

Sudden Failure

Production	Production Loss	Production

Inspect	Order Parts	Repair

Predictive Maintenance

Degradation Observed

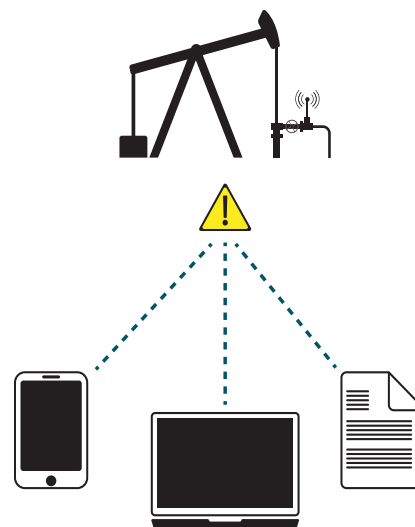| Production	Loss	Production

Monitor	Inspect	Order Parts	Repair

Automated Notifications

Automated notifications can make the difference between having to perform a simple intervention and having to shut down a well.

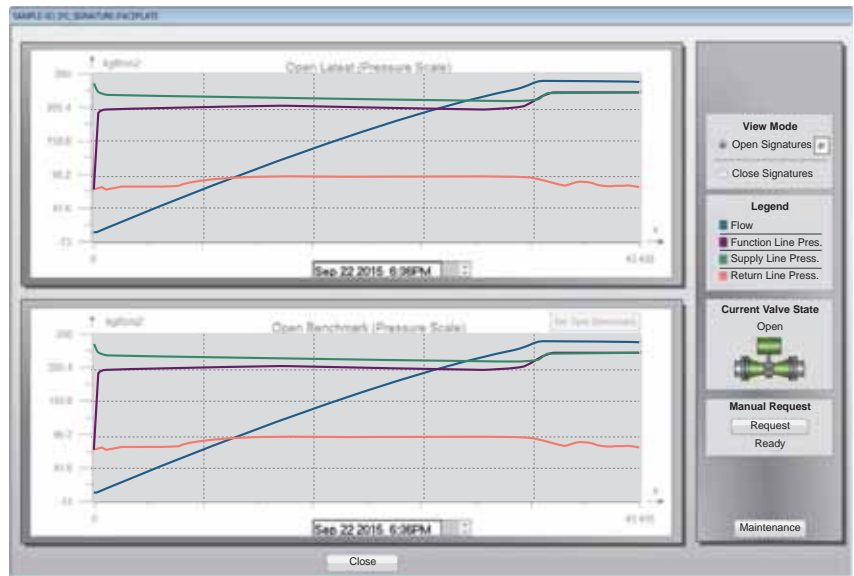TechnipFMC's WMS can be configured to send text messages, e-mails, and HMI alerts.

Analysis and Reporting

TechnipFMC's WMS provides comprehensive reporting and analysis functions, including local valve signature generation, access and distribution.
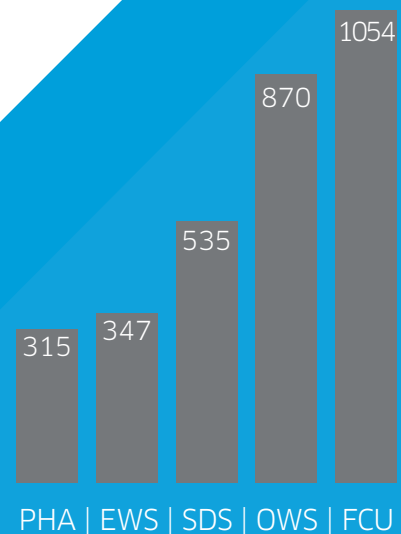
Valve states and system wide sensor values such as temperature, pressure, flow and acoustic emittance (AE) provide a complete view a well's condition.

Real time data can be viewed on the HMI for current conditions, or from historical archives for analysis and trending purposes.
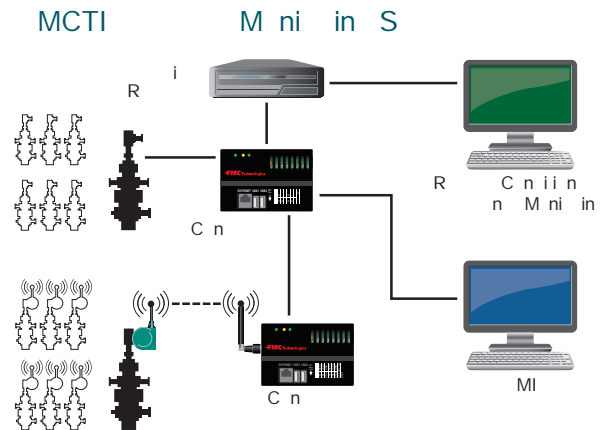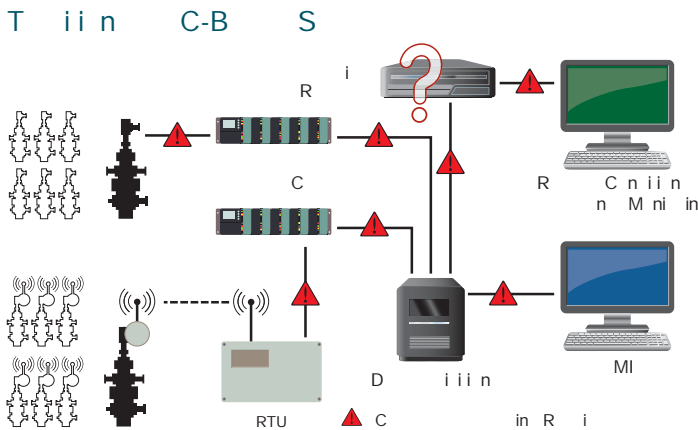

UCOS Installed Base (2016)

– Over 2,700 Installed Nodes
– Over 200 Customers
– Over 350 Sites

1054
870
535
315   347

PHA | EWS | SDS | OWS | FCU

Simplify

A single UCOS Field Control Unit (FCU) can replace multiple programmable logic controllers (PLCs) and eliminate the need for costly custom programming. UCOS' patented technology uses pretested templates to simplify configuration, enforce company standards, and promote consistency.

Scalable Solution
UCOS' open communication platform works with all your field assets. Flexible installation schemes can control a single field or be networked to multiple locations. TechnipFMC's WMS can be used as a stand-alone SCADA system or it can be integrated with existing SCADA systems.

Hardware Agnostic
Although TechnipFMC offers a variety of hardened industrial controllers, UCOS software can be installed and run on many platforms.

ESD Integration
TechnipFMC's WMS provides seamless integration with TechnipFMC's standard ESD technologies.

Reusable Device Libraries
TechnipFMC's WMS provides a library of reusable device templates for regulatory, discrete, and sequential control, each of which includes pre-configured tag definitions, HMI graphics, and runtime dynamics.

Simplified Configuration
TechnipFMC's WMS greatly reduces project configuration cost and risk by providing a fully integrated system. All logic, I/O control, HMI graphics and data transmission are managed in a single, standardized system.

Reduce Engineering Time
TechnipFMC's WMS eliminates the need for costly system integration, requires no development and greatly reduces engineering time.

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