

Reimagining the Journey of INTEGRATED **OPERATIONS** via Pl System

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Business Challenge

- Many assets that are working in silo mode
- No transparency and visibility of real time data
- Wasted opportunity of to allow a maximized data usage for analysis, planning and optimization
- Lacking of data integration, where there is no real capability of information to be brought up to the next level of hierarchy, which is allowing other systems to consume and use the collected data

Background

- Major oil and gas company that have installations and productions around the globe
- Many assets that are either having a silo or no real time data historian

A lot of planning, decision making and analysis are using offline data, based on chains of reporting practice



Objectives

- To have a centralized PI System, where all real time data are available at different layers and areas
- To break down the operation silos
- To support and provide information for integration operation, such as supporting knowledge management, provide data capability for collaborative work environment, cross discipline cooperation
- To allow full consummation of data by decision making, analysis, planning and optimization tools

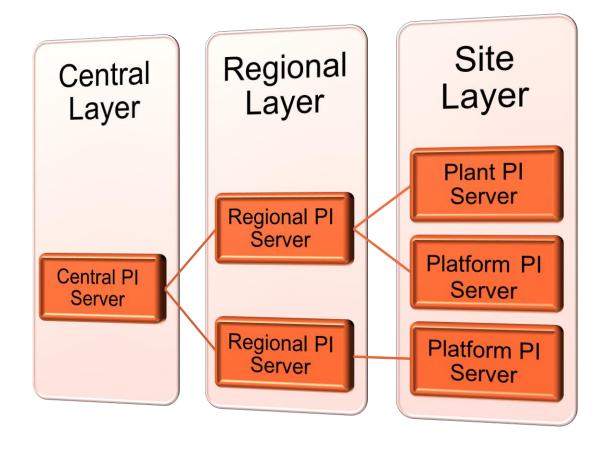
Overview

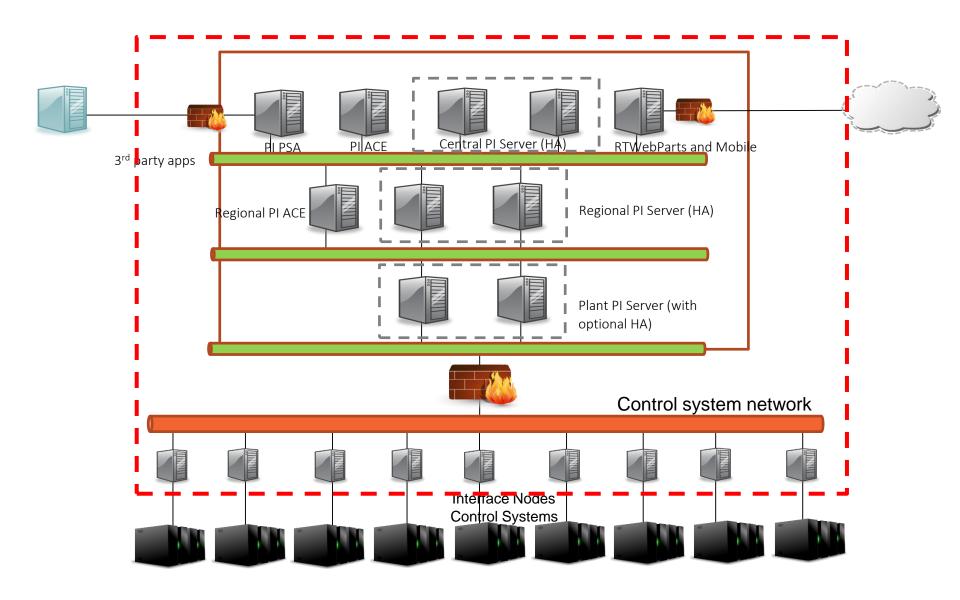
 Product Agnostic domain consultants across O&G and petrochemicals (ndustr Customer requirements analysis and best fit recommendation PI customizations and solutions Architecture (PI Deep understanding of PI benefits solutions and value and pitfalls adds) Complex PI implementation architecture Implementation services PI Implementation and support Support Services team Re implementation services PI Training facility OSI PI CoE PoC centre

Framework

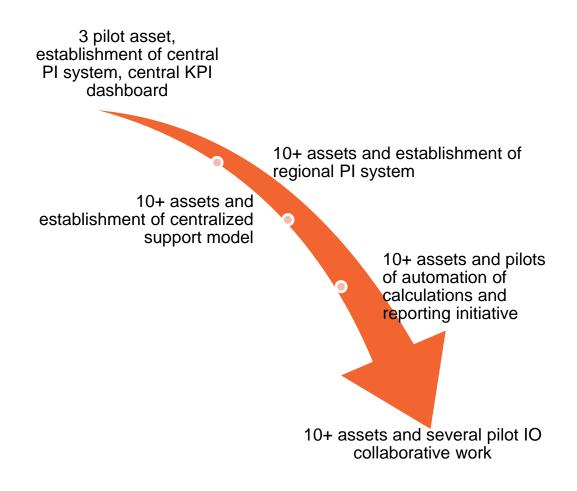
Optimization Consultancy Visualization Support Management Value Added Implementation and Analytic Report Centralized Automation Support PI Value Engineering **KPI** Dashboard Study and Design Assessment Solutioning Integration Management Calculation Remote Support Engine PI Solutioning End to End **Process Display** Design Implementation and Visualization Point Management Central Alert and Site Support Notification Governance and IT Assets Report Real Time Data **Best Practice** Delivery Generation Factory Asset Product Upgrade Categorization PI Records and **Inventories** Technology Enhancements Information on Roadmapping and Upgrades the Web **Process Data** System Health Analysis Monitoring Backup, Integrity Technical and Primary Data Derived Data Periodical and Recovery **Business Gap** Quality Analysis **Quality Analysis** Mobile Evaluation and Analysis and Assurance and Assurance Audit

Architecture





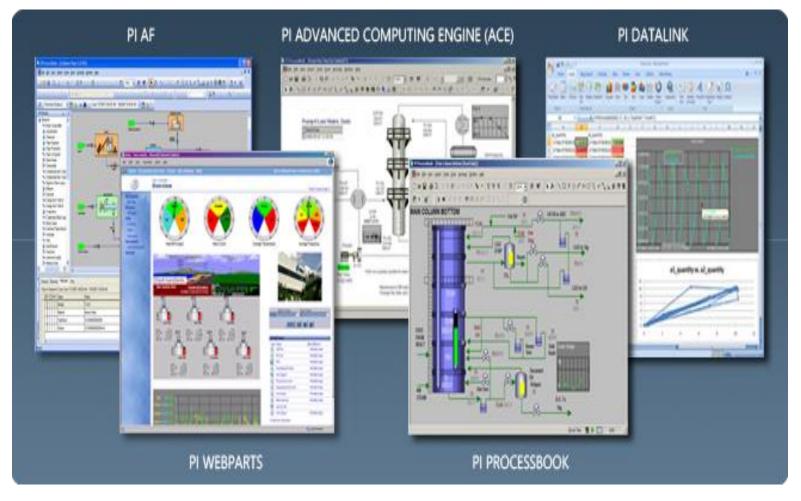
Roadmap



Maturity Steps







Process Data

Video Feed

Well Data

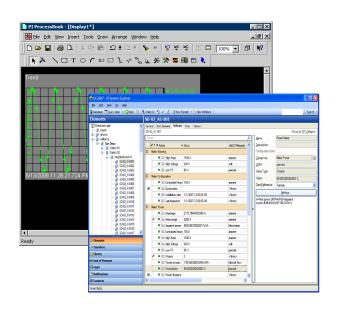


Drilling Data

Equipment Information

Engineering Documents

Better Visibility and Decision Making!!



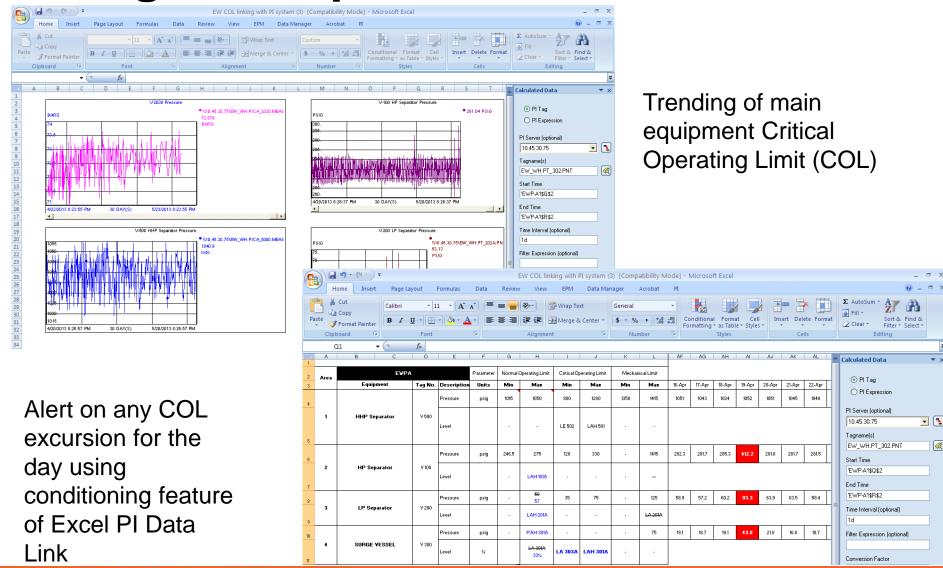
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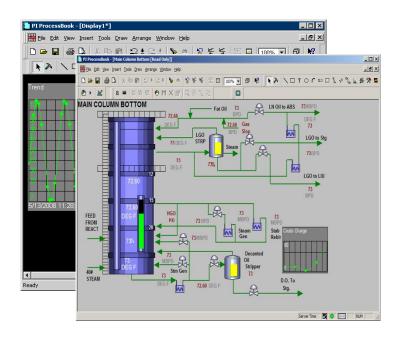


Real Time Data and Asset Framework

Asset Management and Maintenance

Predictive Asset Maintenance









Process Graphics and Trends

Onshore – offshore collaboration meeting

Collaborative Work Environment

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Solution Architect

