

By ZeoNet Inc., The Origin

- ZeoNet Inc, was formed in 2000 to provide focused expertise to the Oil & Gas Industry through a network of seasoned professionals.
- These experts bring a combined mature experience in key work processes such as value chain planning and optimization, performance monitoring, process engineering, asset scheduling and logistics, etc.
- They offer functional and technical experience and knowhow to implement/support commercial software applications such as linear programs, scheduling systems, real time optimization and material balance reconciliation systems.
- ZeoNet has worked with a multitude of operating companies but has also been contracted by integrators to supplement large transformation projects. Example: TOTAL, CITGO, KNPC, PDVSA, Shell, Sinopec, Monroe Energy, Chevron, Husky Oil, Cenovus, Suncor; as well as: Accenture, Wipro, Booz Allen, Deloitte.
- Work has ranged from diagnostic, roadmap, single system implementation to large improvement programs.
- In 2014, ZeoNet was able to develop PMRC, a long-time aspiration from the founder Ronald Jammar, aimed at providing a comprehensive but pragmatic solution to increase visibility of important information about plans, targets and actual operation. It was designed to:
 - bring one version of the truth integrated access to plans, schedules, targets, refinery production/consumption and process unit yields
 - Complement information with invent information captured during meetings and related to key asset and materials
 - Automate tedious and time-consuming tasks such as lookback, backcast and LP tuning so that they could be sustainably performed
 - Provide a collaborative environment for decision making at the hydrocarbon supply level
 - Provide a functioning platform, easy to implement, straight forward to maintain, that could be the launching point for predictive analytics, machine learning and overall artificial intelligence algorithms,
- Since 2014, it has been used in many manufacturing sites; it is the only platform of its kind with considerable interest from majors and small refiners alike, It can run locally or on the client cloud or on ZeoNet cloud (Azure, AWS) and has numerous endorsements by system integrators and AI companies.



VIRC Game Changer Connection of People & Data

3 to 4 Months for First Use

Products Supply Trading & Logistics



Asset Operation



Feedstock Supply Trading & Logistics



Hydrocarbon Demand/Supply

- Actual vs Plan
- Margin Monitoring
- Constraints Monitoring
- Lost Profit Analysis
- Pricing Monitoring

Manufacturing

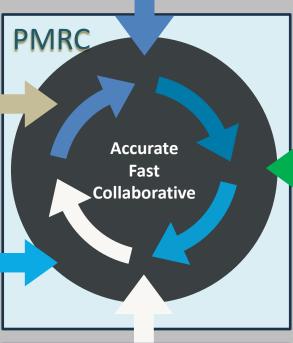
- Actual vs Plan vs Schedules
- Daily Target Review/Tracking
- Events Recording
- LP Model Tuning
- Unit Health Monitoring
- Constraints Management

Feedstock Supply

- Actual vs Plans
- Crude Value & Feedstock Quality Monitoring
- Constraints Monitoring

Asset Network Optimization

Network level Use Cases
 Through Common Views
 and Collaborative Tools



- Out of the Box Collaboration
- Custom Monitoring
- Simple Master Data Update
- PowerBI Integration

Performance Monitoring and Reporting Center (PMRC):

- Actual operation and commercial performance integrated with updated targets
- Built by oil & gas functional experts (planning, operation, scheduling, trading, material balance, engineering, reliability)
- Improved through years of applied use cases
- Modern & secure architecture (local or cloud)
- Connecting functional applications (LP optimization, simulation, yield accounting, real time historians, Excel based applications, etc.)

Work Process Lifecycle Integration (Pre to Post Operation)

What Happened?

- One common view of performance (yields, qualities, process variables)
- Events captured and digitalized
- Actions logged
- Material balances reconciled
- Lookback and backcast automated
- Al enabling platform

What Needs to Happen?

- Plans are visible: first pass, official, sensitivity cases, revised...
- Schedules used for end of period estimates...
- Instructions and target changes are saved and easy to view real time
- Meetings become decision centers where relevant information can be accessed on the fly



Key Illustrative Views

