

JP3 Data Subscription Services

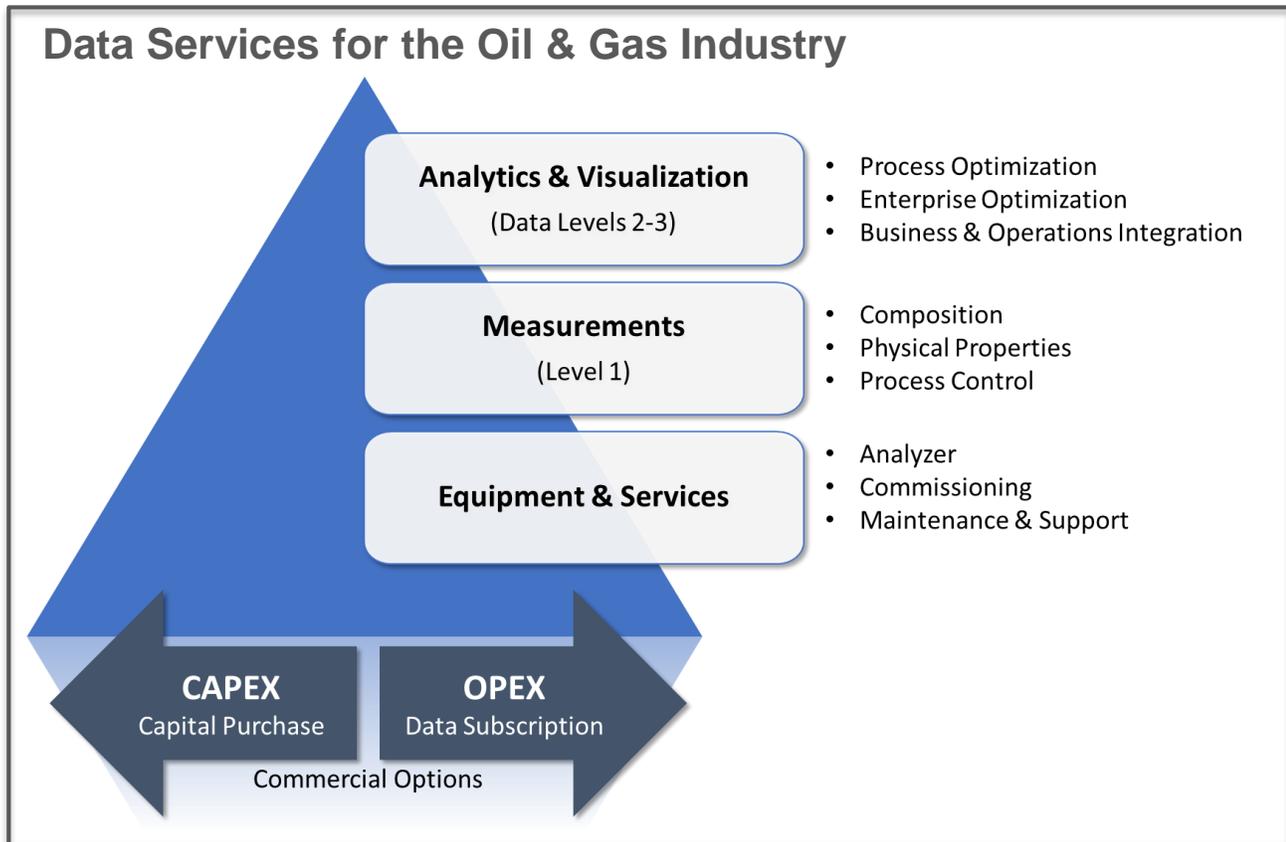


Figure 1 – While traditional CAPEX project models are still dominant in many segments of the oil and gas industry, OPEX alternatives are beginning to be seen as a viable and often preferable approach to the purchase, maintain, and operate model of the past. An OPEX Data Subscription model can offer many advantages.

Data as a Service from JP3

JP3 is an innovative leader in the “Data as a Service” business model for oil and gas. JP3 data services are grounded on unique and proprietary data produced via the JP3 Verax NIR measurement system. This technology has been widely proven for reliability and performance across the US and Canada. JP3 is providing a broad array of composition and physical property measurements of crude oil, condensate, NGLs, natural gases, purity NGL products, and refined fuel products across the upstream, midstream, and downstream markets. JP3 continues to rapidly expand its installed base and scope of measurement applications and advanced software and visualizations that use those measurements to allow operators and decisions makers to better preform their roles.

Level 1 data (composition, physical properties, etc.) are gathered and enhanced by local or cloud based aggregation, visualization, and analytics software. This is delivered as Level 2 information that enhances operational and business decision making and results.

Benefits

An OPEX Data Services approach to measurement and information solutions offer many advantages to traditional CAPEX projects including:

- No capital approvals
- Faster project approvals
- Faster AFE/OPEX approvals
- No Capital Asset/Depreciation
- No maintenance or service expertise required
- Flexible contracts
- Fast deployment and rollout
- Guaranteed Service Levels and Performance

JP3 data Service agreements offer flexibility in terms of contract length, redeployment of assets whenever required, and service levels and costs dependent on application requirements.

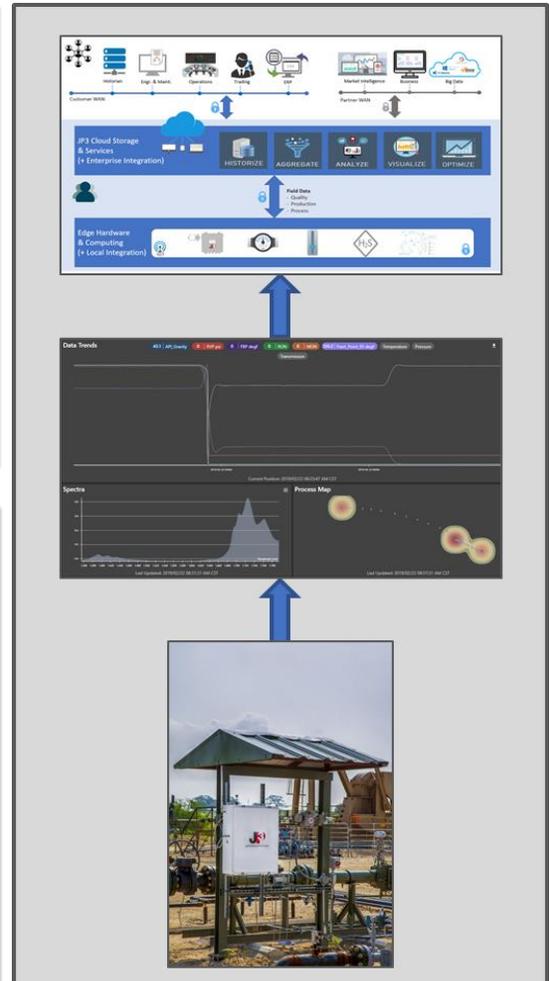


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Applications available via JP3 Data Subscription Service

Application	Data Produced	Data Usage & Benefits
Crude Oil Production 	Chemical composition and physical properties <ul style="list-style-type: none"> C1-C30+ API Gravity Vapor Pressure Viscosity Refiner & Blender Data <ul style="list-style-type: none"> True Boiling Point Curve Refined Yield "Cuts" Prediction 	<ul style="list-style-type: none"> Lease Allocations Crude Value Determination Quality Determination Well/Field Optimization Stabilization Storage & Transportation Loss Prevention Crude Signature Supply Tracking
Pipelines & Terminals 	(All above) <ul style="list-style-type: none"> Batch Data Time-series Data 	<ul style="list-style-type: none"> Blending Optimization Loading and Unloading Pipeline Quality & Specs Batch Control & Reporting
Refining 	Crude Inlet properties (all above) CDU Product Stream properties <ul style="list-style-type: none"> Boiling Point Information Flash Point, Pour Point, Freeze Point, RON, MON, etc. 	<ul style="list-style-type: none"> Refinery Tank Blending Crude Switch Optimization CDU Control Optimization Side Stream Control Crude Supply Planning & Optimization

Application	Data Produced	Data Usage & Benefits
Refined Fuels & Products <ul style="list-style-type: none"> Pipelines Terminals 	Quality and Transport Properties <ul style="list-style-type: none"> Gasoline RON/MON Boiling Point Analysis Benzene Jet/Diesel Flash Point, Freeze Point, etc. Cetane API Gravity Vapor Pressure 	<ul style="list-style-type: none"> Product Quality Monitoring Batch Cut Interface/Transmix Optimization Downstream Blending
Natural Gas Production 	Chemical composition and physical properties <ul style="list-style-type: none"> C1-C6+, CO2 BTU Relative Density 	<ul style="list-style-type: none"> Lease Allocations Energy Content Custody Transfer
Gas Processing 	Gas Plant (all above) <ul style="list-style-type: none"> Inlet Composition, BTU, Residue Gas Composition, BTU Y Grade Composition (C2, C3, iC4, nC4, C5, C6+) Condensate Stabilizer <ul style="list-style-type: none"> RVP Fractionator <ul style="list-style-type: none"> Purity Product Composition (C2, C3, iC4, nC4) Total Vapor Pressure 	<ul style="list-style-type: none"> Cryo Unit Control Y Grade Composition Condensate Stabilization Fractionation Control Product Blending



JP3 delivers a complete scope of equipment, application software, and services covering commissioning to on-going maintenance and optimization for a monthly or annual fee. Customer provides physical installation, power, and access to equipment.

Figure 2 – Typical field deployed Verax system, producing Level 1 data for local consumption, transmitting to the JP3 cloud for Level 2 data accessible via VIPER browser or via API to customer network for integration with company operational and business systems.

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