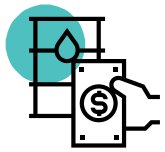




Innovating oil & gas through AI & IoT

Artificial intelligence meets industry expertise.

Innovating Oil & Gas



WHAT WE DO

Validere helps midstream and upstream companies understand their true product quality and optimize blending, logistics, and trading.



HOW WE DO IT

We combine tech innovation (AI, IoT) with a deep understanding of the industry's challenges.



TRACTION

\$5 - \$9 / barrel added value
Case: 7,500bpd full service terminal in Western Canada.

CONTRIBUTING TO YOUR STORY

- ✓ Expert opinions & interviews on quality optimization
- ✓ White-papers and case studies on oil quality
- ✓ Digitization of oil & gas
- ✓ Artificial Intelligence & IoT in Oil & Gas
- ✓ Startups disrupting O&G
- ✓ Importance of quality in an increasingly export-driven market
- ✓ The contribution of analytics based blending optimization on netback

Meet Validere.



WHO WE ARE

AI data scientist, oil & gas industry veterans, physical scientists, software & hardware developers. All working towards the same goal - to innovate oil & gas.



WHERE WE'RE FROM

Launched at Harvard by entrepreneurs who recognized the enormous opportunity to bring efficiency, trust, and innovation to the \$2T oil & gas industry.



HOW WE GOT HERE

Graduated Y Combinator. Backed by Silicon Valley and Canadian investors, energy industry mavens, and leading scientists.



WHY WE ARE

To make the world's most important sectors work better, for everyone.

Our Products




VALIDERE 360 (IOT)

STEP 1 : KNOW TRUE PRODUCT QUALITY

Validere's IoT platform consolidates, automates, and validates all quality data onto a single platform. Real-time, reliable insights empower all teams to proactively pinpoint issues and make better, faster decisions.

- ✓ Trust quality data for production accounting
- ✓ Promptly resolve custody transfer disputes
- ✓ Never overpay for wet product again
- ✓ Keep on-line analyzers calibrated with ease
- ✓ Reduce re-tests, missed samples, & miscommunication
- ✓ Detect off-spec shipments in advance

 +\$2 - \$3/barrel




VALIDERE ALPHA (AI)

STEP 2 : OPTIMIZE BARREL VALUE

Put AI to work with Validere Alpha. Validere's AI engine optimizes blending, logistics, and trading. It combines trusted Validere 360 quality data from across your organization with our proprietary artificial intelligence algorithms and data sets.

- ✓ Know which streams to blend for maximum arbitrage
- ✓ Quickly view and schedule all facility product movement
- ✓ Instantly audit all product purchases and deliveries
- ✓ Quickly assess ROI of new infrastructure investment

 +\$3 - \$5/barrel

Our Manifesto

Oil & gas is critical to humanity. Now and in the foreseeable future.

Oil & gas is a 2 trillion dollar industry, which provides 1/3 of humanity's primary energy supply¹. Not only is it critical now, but there are no viable replacements in our lifetime.²

Archaic oil quality optimization costs the industry billions annually.

From AI to blockchain, technology is changing our world at an unprecedented rate. Yet, Oil & Gas innovation is stifled by complex environments, legacy systems, and archaic processes. Only 13% of today's oil & gas organizations feel they have mature analytics capabilities.³ Much of O&G data remains unusable in paper format or scattered across poor digital systems. This creates enormous inefficiencies as the average oil barrel changes hands 11x times. At each transaction point, price is set based on product quality. Poor data is limiting the accuracy & speed needed to optimize quality. Subpar product quality optimization costs the industry billions each year.

We raise barrel value by up \$9 / barrel through AI-driven quality optimization.⁴

Validere blends industry-leading expertise with tech innovation to deliver accurate and timely oil & gas product quality insights. Our solutions added \$5 to \$9 / barrel for a full service 7500bpd terminal in Western Canada.⁴ Producers, transporters, and refiners rely on Validere to reduce transfer disputes, avoid overpaying for wet product, detect off-spec shipments in advance, and increase bottom line through equalization.

We bring meaningful innovation to propel the oil & gas leaders of tomorrow.

In a hyper-competitive & ever-changing market, the oil & gas organizations of the future will win by optimizing product value to the last drop. Validere enables organizations to do so by rapidly unlock the power of smart data -- driving better and faster decisions, optimized product value, long-term market competitiveness, and increased oil & gas economic value.

1. [World Energy Consumption](#)
2. [The Rising Renewables " CSBE](#)
3. [The Upstream Oil and Gas Digital Trends Survey, 2016](#)
4. Validere case study