## CANVASS

# Industrial AI for the Oil and Gas Sector

IMPROVE PROFITABILITY





Canvass's pre-built Al solutions and smart workflows empower your teams to extract value from data 4x faster than other platforms.

Built for Large-Scale Oil and Gas Operations

CANVASS ALSOLUTIONS

Upstream, Midstream, Downstream



#### **Predictive Maintenance**

Detect anomalies in operating conditions to provide alerts for potential failures.



### **Troubleshooting**

Narrow down the problem size and identify root cause.



### **Production Forecasting**

Predict future operational capacity to better forecast production capabilities and operational support needs.



#### **Production Optimization**

Improve operating decisions to produce desired quality and maximize production at the lowest cost.



#### **Product Quality**

Predict product specifications for real-time quality adjustments to reduce penalties and post-production adjustments.



#### Sustainability

Avoid environmental releases and reduce emissions, energy costs, and water utilization.



### Safety

Alert personnel to developing unsafe conditions for early awareness and mitigation.



### **Knowledge Capture**

Train Al models based on experiential knowledge to augment standard operating procedures.

# Canvass AI: Built for Solving Today's Problems, Ready for Tomorrow's Challenges.



### **Built for Oil** and Gas

Pre-built Industrial AI solutions for fast time to value.



### **Built for Industrial Workforces**

Intuitive Al solution for site engineers & operations without requiring data science experience.



### **Built for Industrial Data**

Patented platform that meets the rigors of industrial data processing.



### **Built for All Data Maturities**

Applicable for data lean and data rich environments.



### **Built for Industrial Scale**

Supports an Al journey from simple applications to holistic, complex solutions.

# Canvass Al Driving Impact in Oil and Gas.

### **Case Study**



Who: Large Oil Producer

**What:** Leveraging AI to optimize the energy consumption of their boilers

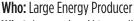
**How:** Utilized Al to predict each boiler's thermal efficiency so that

energy loading is optimized according to efficiency

#### Results:

- Increased thermal efficiency by 5.09%
- Cut GHG emissions by 4-6%
- Reduced energy costs by 4%

### **Case Study**



What: Leveraging AI to predict well collapses

**How:** Built a well collapse risk alert system to predict when a well is at

risk of collapsing

#### **Results:**

- Reduced downtime caused by well collapses by up to 83%
- Cut well revival time from 3+ days to less than 12 hours

### **Case Study**



Who: Large Gas Producer

**What:** Leveraging AI to predict failure of valve systems

**How:** Utilized Predictive Maintenance Al solution to predict failure of

valve systems

### **Results:**

- Failure predictions delivered weeks in advanced with zero false alerts
- Reduced maintenance costs
- Improved process safety
- Prevented unplanned production loss

## **Canvass Al**

Canvass AI is a patented Industrial AI platform that provides easy-to-use AI solutions — without requiring coding or data science expertise. Today, leading oil and gas companies use Canvass Al to improve yield, optimize operations, improve asset reliability and utilization, and reduce energy, carbon emissions and waste.