dcp Midstream | **TECH VENTURES**   **CHAMPIONX**

The first commercial-off-the-shelf pre-trained AI model for Midstream

- Detect 86% of the valve leaks that your fleet experiences, up to 6 weeks before traditional threshold alarms, thereby reducing the cost impact of a leak by 43%.

- **Compressor Leak Insights**, an AI powered service offering ready-to-go and deploy in days, not weeks.

How early can you spot a compressor leak?

Compressor valve leaks are early indicators of problems that may occur. Flow reduction, over-heating, higher than necessary energy consumption, ingested valve parts, and reduced production can be greatly reduced by timely maintenance of degrading valves.

Compressor Leak Insights addresses the problem of identifying these valve leaks as early as possible so that a proactive maintenance approach can be taken, thereby reducing overall maintenance and production costs. The product also provides visibility to assets that need attention, thereby improving field logistics and safety. **Compressor Leak Insights** draws attention all the way down to the cylinder and can help reduce unnecessary valve swap outs.

In production at DCP Midstream

- Deployed across 4 regions
- 75 assets in production
- Over 8 months of field usage
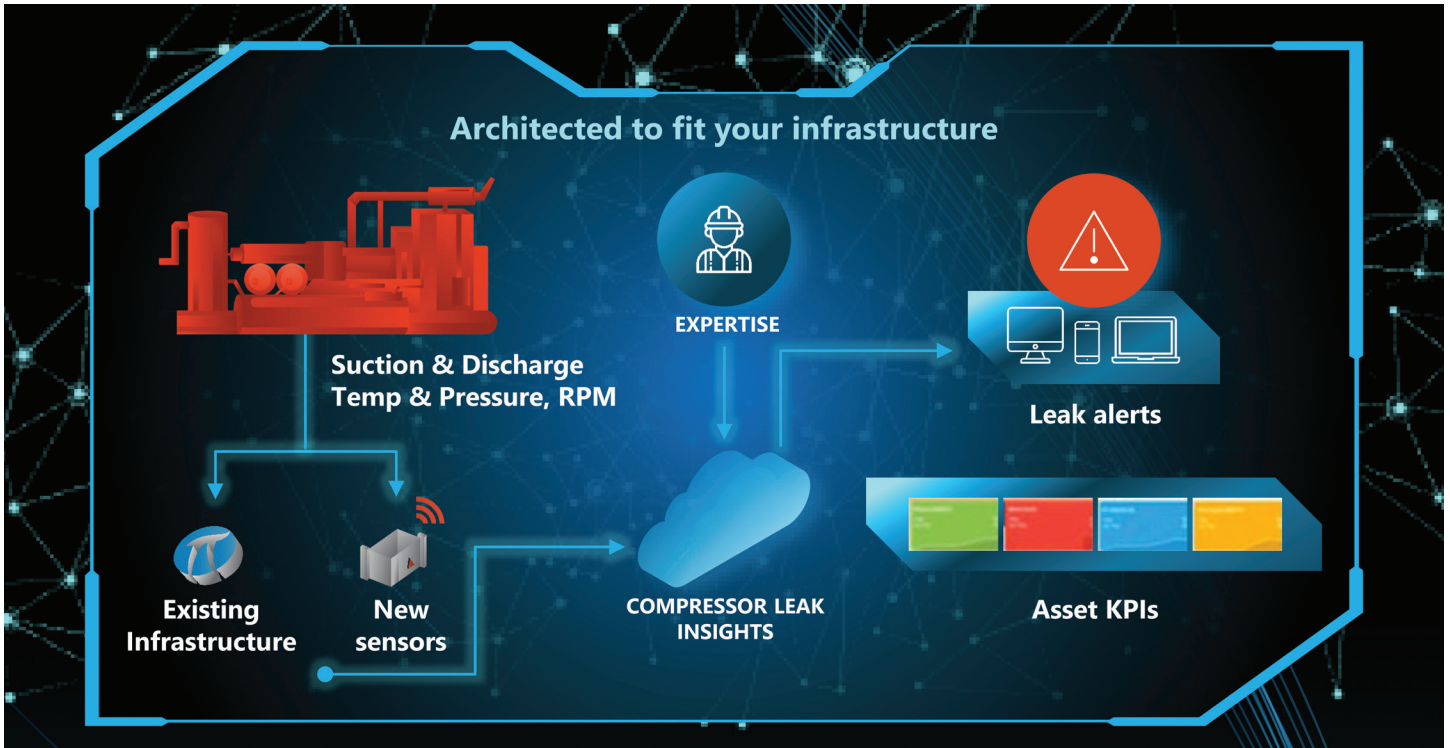- 200k USD savings realized in 5 months

Delivering Value

- Reduce cost by 43% per leak event of average criticality and up to 91% for catastrophic failure prevention
- The solution delivers an Internal Rate of Return between 49% and 2400%
- Reduction in field rounds for valve inspections
- Optimized route planning to target alerted assets
- High scalability provides immediate visibility across a vast fleet
- Increased preparedness due to early warnings
- Engineering teams can focus on high impact assets

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Architected to fit your infrastructure

Suction & Discharge Temp & Pressure, RPM

EXPERTISE

Leak alerts

Existing Infrastructure

New sensors

COMPRESSOR LEAK INSIGHTS

Asset KPIs

INPUT DATA
- Suction and discharge temperature and pressures, per stage
- RPM

HARDWARE AND SOFTWARE REQUIREMENTS
- Bring your own hardware
- ChampionX can provide sensors and communications hardware
- No software required - solution uses the ChampionX Enterprise portal

DATA SOURCES
- Integrates with existing process historians
- Industry protocols such as modbus, MQTT are supported
- Most legacy systems supported

IT INFRASTRUCTURE
- Runs on ChampionX hosted Azure cloud
- Can be deployed on-premise
- Sensor-to-cloud communications included with ChampionX hardware

YOU ARE INVITED TO SEE IT IN ACTION
- DCP Midstream state-of-the-art Integrated Collaboration Center, Denver
- ChampionX Remote Operations Center, Houston
- A virtual, travel free on-line demo

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GOAL ZERO
YOU LEAD

The safety of our employees, customers, shareholders, and communities is vitally important. From the way we operate, to the products we develop, to how we partner with customers, our goal is zero: zero accidents, zero incidents, and zero environmental releases.

Goal Zero is an ongoing initiative at ChampionX designed to reinforce our safety culture, based on the fundamental belief that all accidents are preventable.

championX.com