

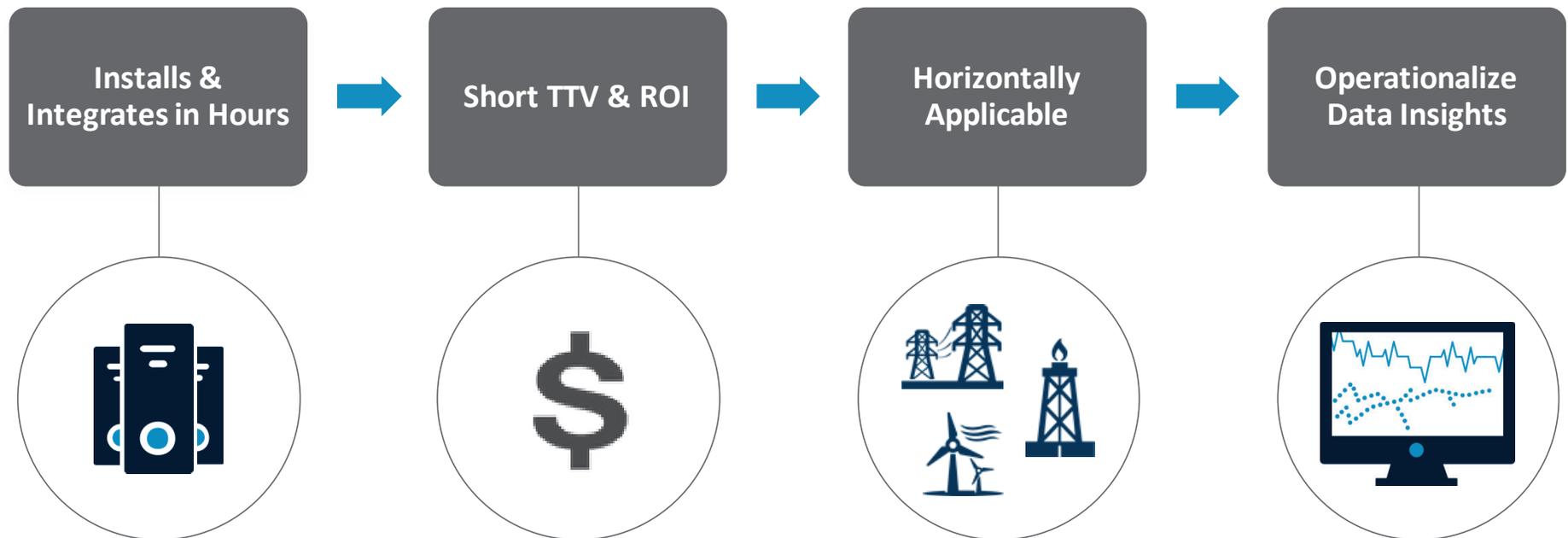


Advanced Analytics for Optimizing Asset Performance in the Energy Industry

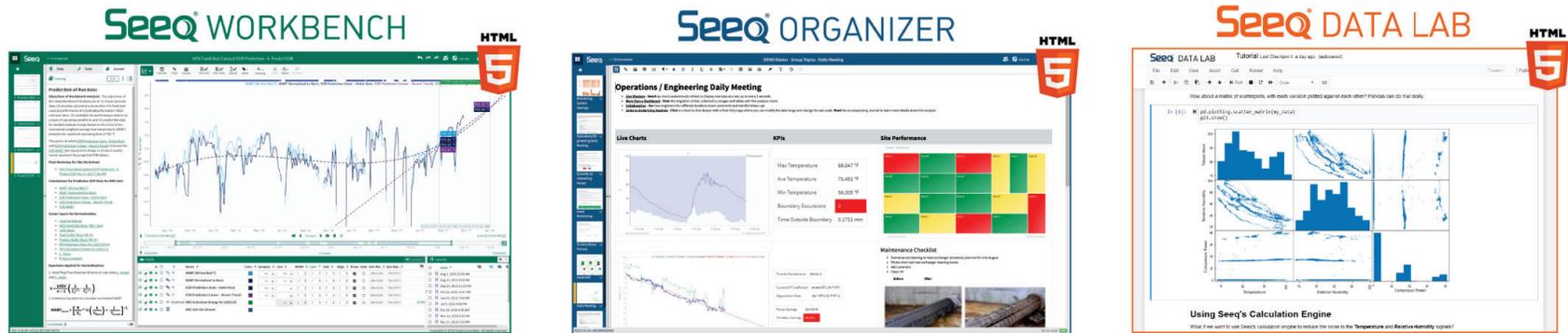
Kenneth Smith, Account Executive

What is Seeq

Seeq is an advanced analytics application purpose-built for time-series data that empowers engineers and other SMEs with self-service tools to improve operational performance



Seeq Architecture



Seeq Server
On Premises or In the Cloud



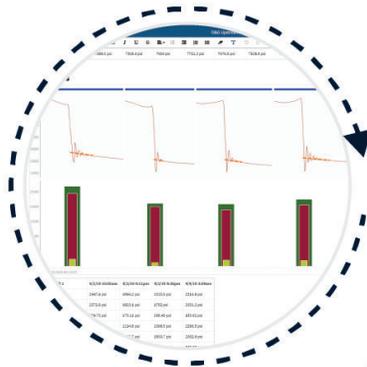
Integration Options

- tableau
- Spotfire
- Power BI
- PI Vision by Ovation
- PowerPoint, Excel
- R, C
- java, MATLAB
- python

Seeq Advanced Analytics

Diagnostic

Why did it happen?

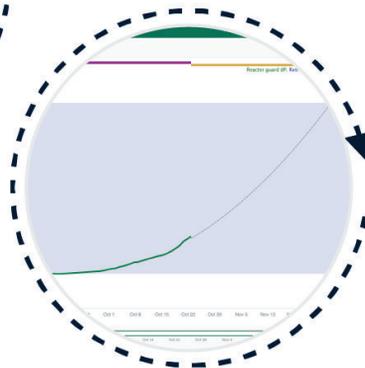


Benefits

Root cause investigations on/of historical data sets

Predictive

What will happen?

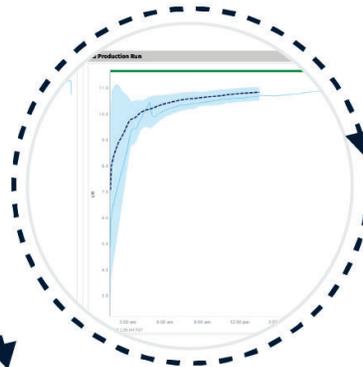


Benefits

Increase asset availability and improve batch outcomes

Monitoring

What is happening?

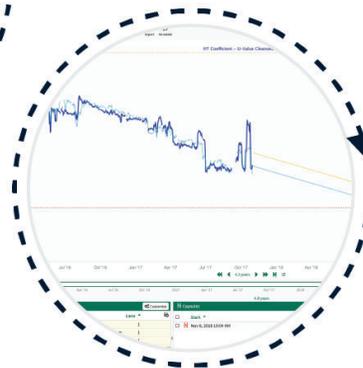


Benefits

Advisory real-time and prediction view of process and asset status

Prescriptive

What should happen?



Benefits

Evaluate options to make decisions that optimize outcomes

Descriptive

What happened?



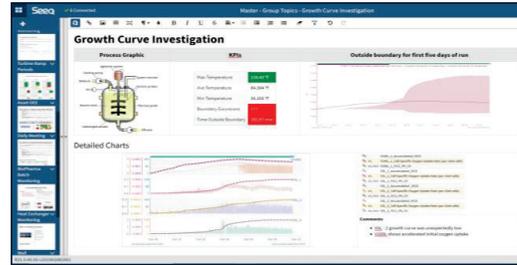
Benefits

Create and share insights to inform decisions plant wide

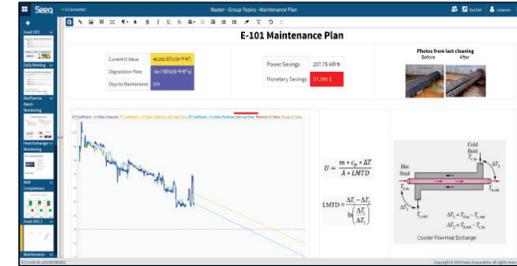
Organizer



Monitoring and Optimization Dashboards



Summary and Incident Reports



Planning and Long-Term Optimization Reports

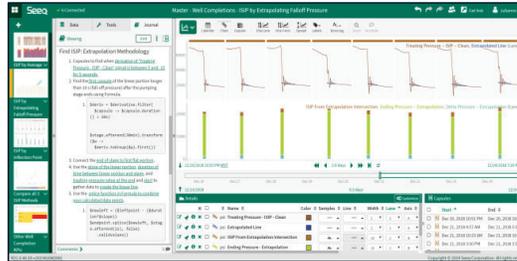


Workbench

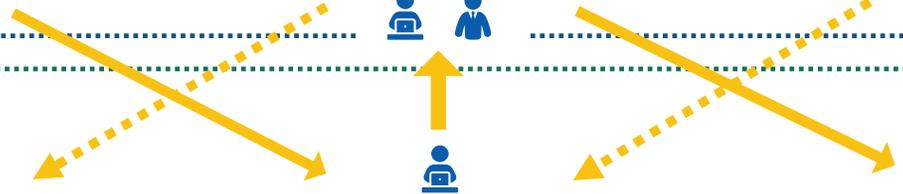
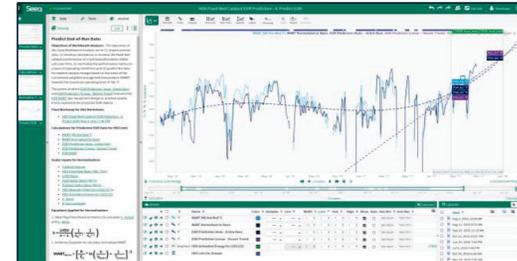
Define Targets and Operating Windows



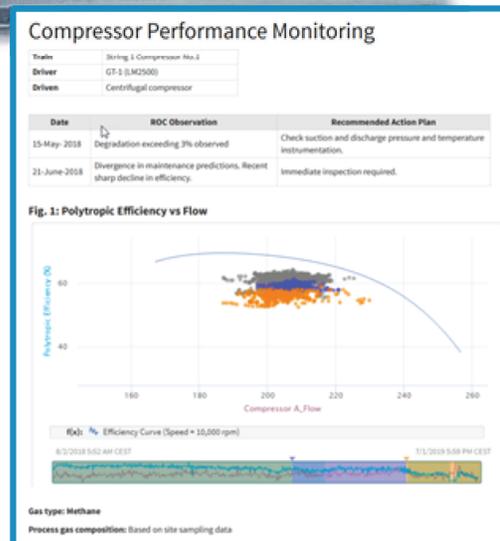
Investigate Root Cause



Predict and Analyze Scenarios



Compressor Health Monitoring and Maintenance



CHALLENGE

- Inability to detect and anticipate compressor performance issues can lead to unplanned shutdowns, loss of revenue, and environmental/safety threats



SOLUTION

- Identify leading and lagging indicators of compressor health
- Continuously monitor multiple compressor health variables to detect poor performance and mechanical degradation



RESULTS

- Enables proactive engineering assessments
- Helps to identify risks and prioritize maintenance activities
- Reduces likelihood of catastrophic failure, saving costs due to lost production and engineering time