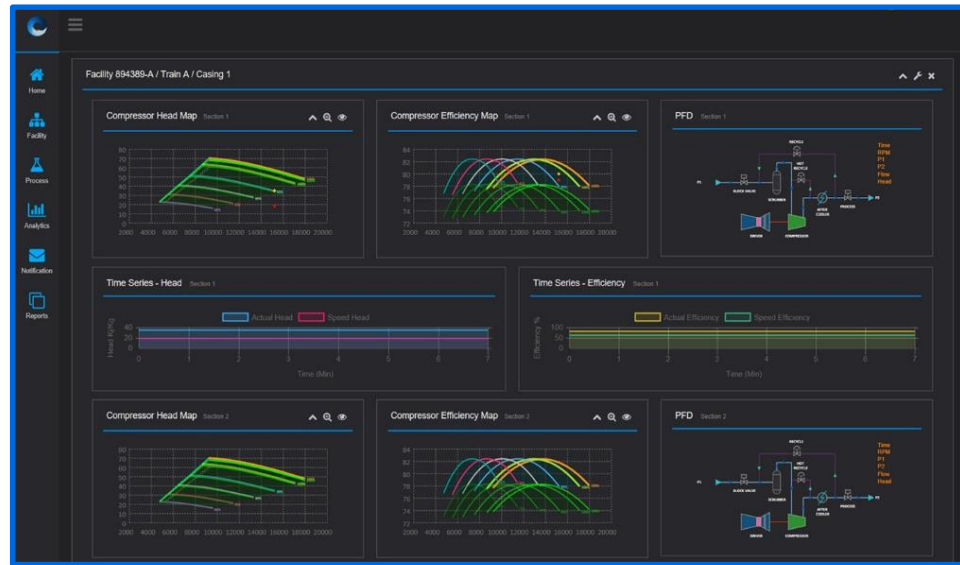


UPSTREAM
Gas production, gas lift,
gas injection, gas export

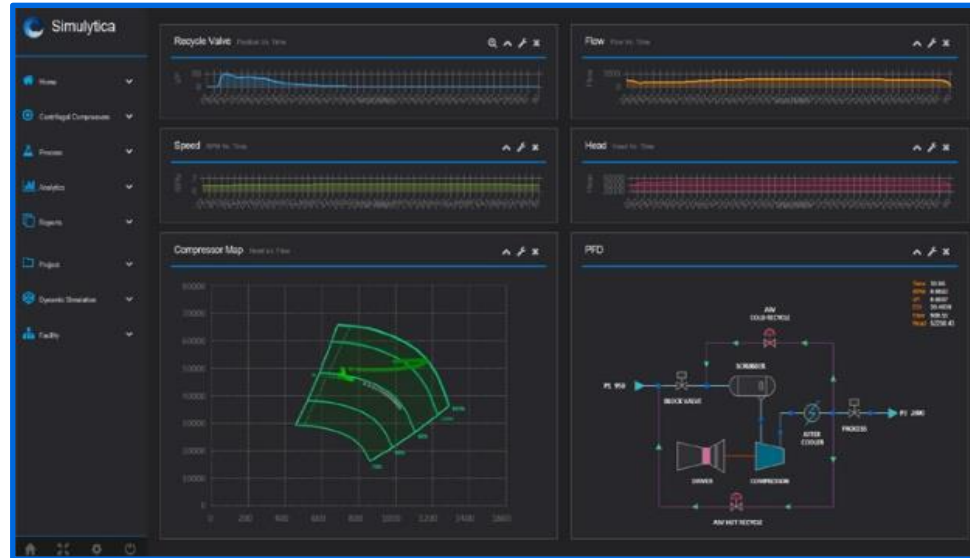
MIDSTREAM
Compressor stations,
gas storage

DOWNSTREAM
Refineries,
petrochemical plants

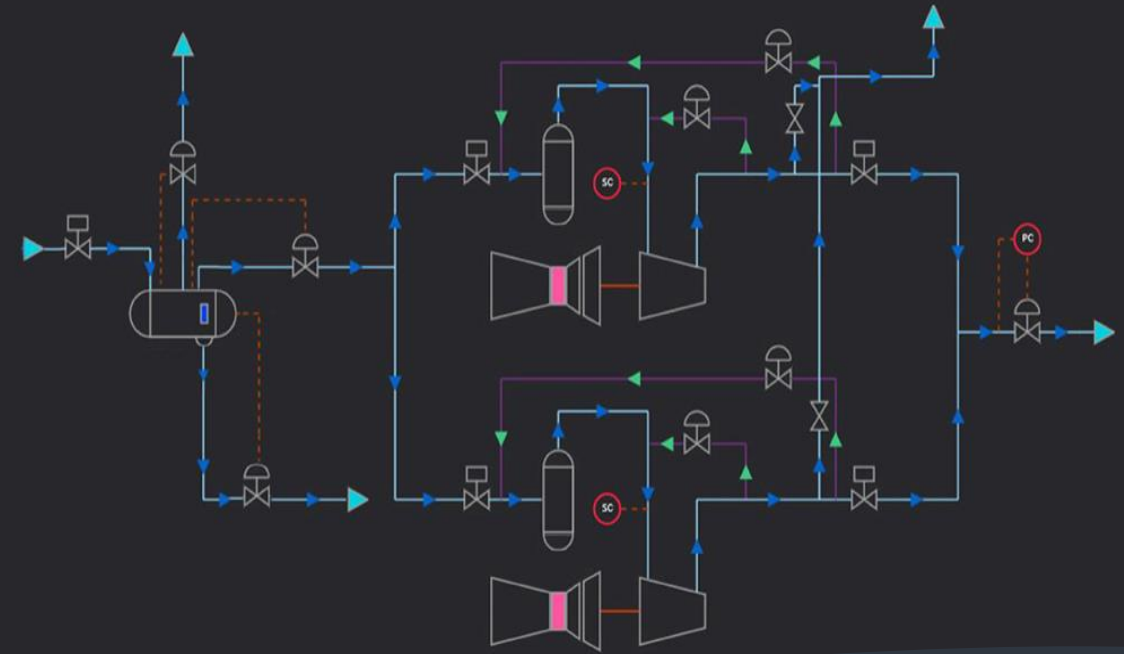
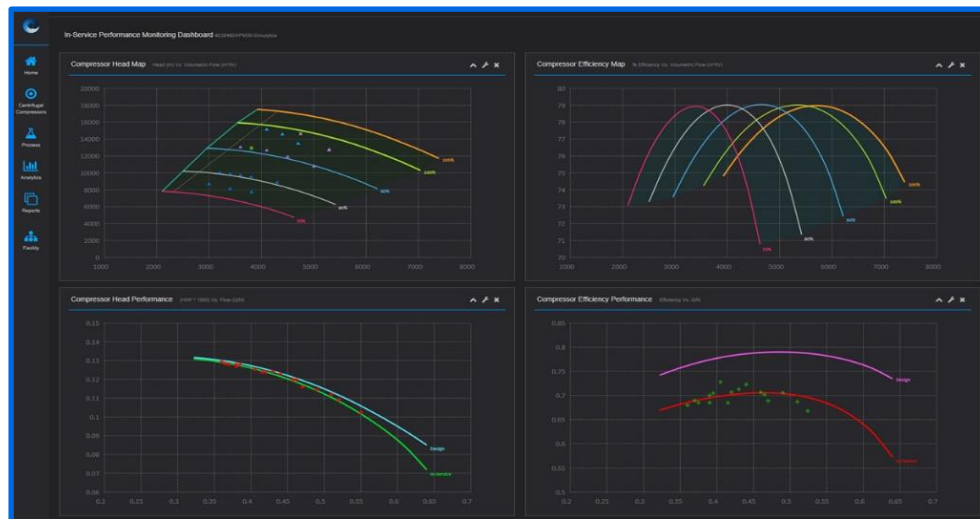
SIMULTYCA MONITOR



SIMULTYCA ANALYTICS



SIMULTYCA PREDICTIVE ANALYTICS



Digitalisation **Solutions**
For machinery and process plants in the
oil & gas and process industries



Augmented Reality



Cloud & Mobile



Analytics



Advanced Visualisation





Convert field data into a measure of the bottom line



Empower teams and fast-track decision making

- ✓ Make data, visualisations and diagnostics available to multiple teams in multiple locations.
- ✓ Save time by providing trouble-shooting teams with the information they need to pin-point causes of problems.
- ✓ Run "what if" scenarios for present and future process conditions.
- ✓ End speculation and misspent CAPEX by predicting production increases achievable by different improvement options.



MONITOR

Track the performance of machinery and process plant with **Simulytica Monitor**

TECHNOLOGY

- MODERN SYSTEMS ARCHITECTURE.
- CLOUD AND MOBILE DEVICE SUPPORT.
- SECURE DATA ACCESS LAYER.
- INTEGRATED ARCHITECTURE.
- ROBUST ENGINEERING ANALYTICS.
- IIOT SUPPORT.
- ADVANCED VISUALISATION 2D/3D AR/VR.
- COLLABORATIVE PLATFORM.
- USER-EXPERIENCE DRIVEN DESIGN.
- READILY INTEGRATED WITH LEGACY SYSTEMS.

transform big data into meaningful insights

Simulytica leverages big data in an intelligent way

Raw plant data does not indicate machinery performance or how close its operation is to capacity-limiting factors.

Simulytica combines data handling, thermodynamics, machinery science and intelligent algorithms to convert raw data into meaningful and enabling performance metrics.

Combining this with condition monitoring measurements in intuitive and advanced visualisation allows problematic issues to be identified quickly.

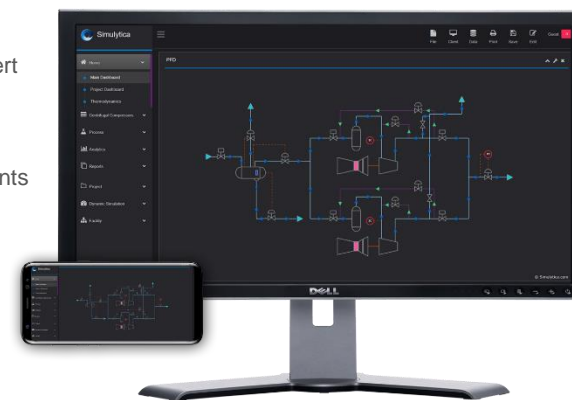
Simulytica facilitates the monitoring of normally/frequently unmanned facilities

- Instant access to facility data from anywhere.
- Continuously monitor data in real-time or batch.
- Run analytics to review unexpected field measurements and make informed decisions.
- Reduce number of unnecessary visits.
- Ideal for normally/frequently unmanned offshore installations, gas compressor stations or gas storage facilities.

MODERN TECHNOLOGY SOLUTIONS SPECIFICALLY DESIGNED FOR OIL & GAS AND PROCESS PLANT APPLICATIONS

Deliver an enhanced understanding of your equipment health and asset capability

- Review and analyse historical or live data.
- Gain insights in seconds.
- Utilise metrics each designed to suit the requirements of different teams across your company – from asset control rooms to headquarters.
- Enhance understanding at all levels of detail, from health of one compressor section to the maximum production rate of the overall facility.



Extensive domain expertise

- Machinery performance & analytical calculations based on years of experience in turbo-machinery, design, selection, operation and trouble-shooting.
- Extensive track-record in software systems architecture and development with advanced modelling, analytics and visualisation for the energy industry.



ANALYTICS

Determine the causes of performance losses and relate to equipment condition with **Simulytica Analytics**



PREDICTIVE ANALYTICS

Transform big data into facility productivity maps and improvement action plans with **Simulytica Predictive Analytics**

