

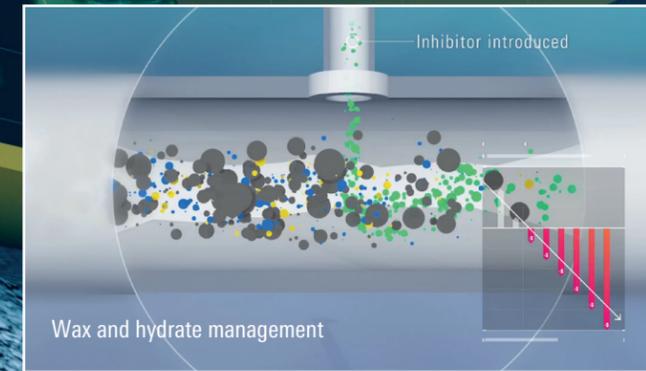
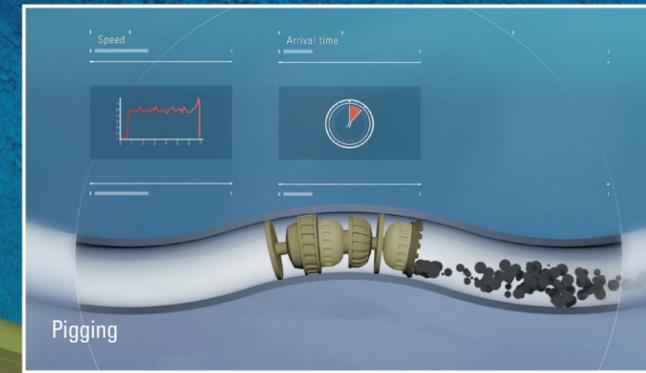
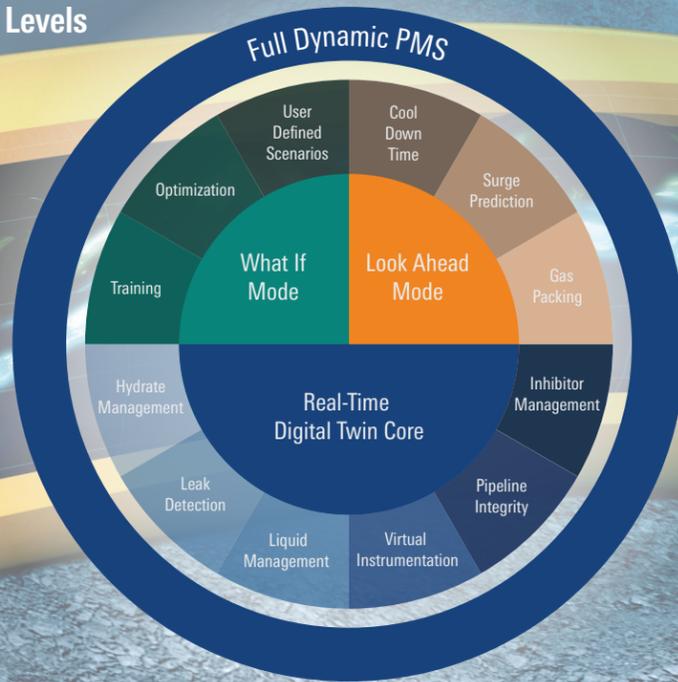
OLGA Online

Dynamic Production Management System

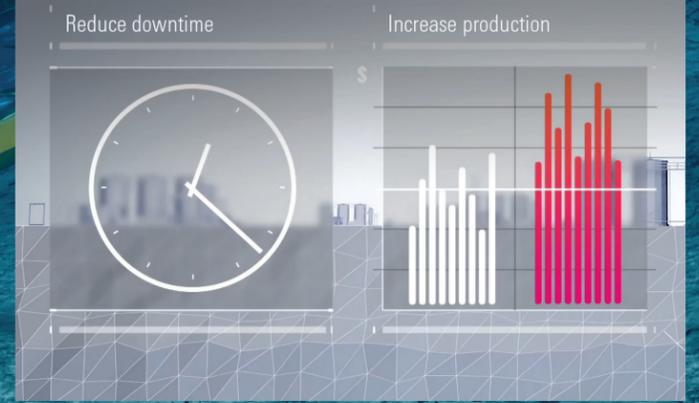
Real-time multiphase flow assurance technology designed to grow with your operational needs.

Production transparency for operational excellence.

OLGA Online Service Levels



- Reduce your production downtime
- Optimize your operation and reduce your OPEX
- Make more informed decisions
- Receive advance warning of upset conditions
- Spend less time on flow simulation studies
- Global presence with domain expert support in your area



The OLGA Online system is a real-time production management system (PMS) designed with the needs of the modern production operation in mind.

Offering all you need for multiphase flow assurance, powered by the robust OLGA* dynamic multiphase flow simulator.

Upgraded for 2019, the OLGA Online dynamic production management system offers new and improved functionality. Features can be added as required to keep your costs representative of project scale.

Used on over 50 projects worldwide. Used by the world's leading operators.

The OLGA Online system uses live production data to produce real-time flow assurance and operational insights, accessed through a web browser. This advanced PMS provides operational decision support to control room operators and enables engineers to optimize production.

With the OLGA Online system, you have highly specific capabilities to predict the multiphase flow behavior of your well and pipeline network. Its predictive nature ensures accurate results during changing production and field conditions. Due to its modular structure, the PMS can be tailored to your exact needs with utmost flexibility, depending on number of wells, pipelines or complexity of your production system.

The OLGA Online system is supported by Schlumberger experts globally. It is the only web-based solution to facilitate integration with multi-location and multi-domain expertise.

Load snap-shots into the OLGA simulator to perform more detailed engineering studies.

Real-Time Digital Twin Core

At the heart of the OLGA Online system is the Real-Time Digital Twin Core—a real-time representation of your pipeline and well production. The Real-Time Digital Twin Core calculates and reports your pipeline pressures, temperatures, flow rates, holdup profiles and other key production parameters, from everywhere within your system at any time. These variables can be reviewed live or at any historic point.

What If Mode

Working offline, you can use the What If Mode to change the input variables to perform multipurpose 'what-if' simulation studies to understand how changes to your operating conditions will impact your operating efficiency and determine the exact configuration for optimum performance. Additionally, the Web Scenario Tool enables you to create, save, load and edit your simulation scenarios.

Look Ahead Mode

Understand what will happen to your flow over time using the Look Ahead Mode (LAM) to identify where action is required, early. Starting from current operating conditions, you can run forward-looking dynamic simulations, to forecast future production parameters and potential upsets, and receive advisory suggestions to keep your operation at optimum levels.

The OLGA Online system uses live production data to produce real-time flow assurance and operational insights, accessed through a web browser.

Leak Detection System

The OLGA Online Leak Detection System (LDS) detects leaks in pipelines and networks using real-time data from the field control system or production historian. The LDS is applicable to both single and multiphase flows. This is achieved by comparing field pressure and flow transients with results from the OLGA simulator coupled with statistical and mathematical algorithms. In addition, advanced pattern recognition logics are used to solidify the solution accuracy.

Life Cycle Approach

Snap-shots can be loaded into the OLGA simulator for you to perform more advanced engineering studies of your production system. Through this life cycle approach, you can close the gap between centralized support and operations at asset level.

OLGA Online

Dynamic Production Management System

- Real-time virtual metering and instrumentation (Digital Twin of the field)
- Optimized production and uptime
- Expanded operating envelope
- Key events notifications (leaks, hydrates, surges, etc.)
- Calibrated models with field conditions for import into the OLGA simulator
- Web Scenario Tool for planning operations efficiently
- Automatic monitoring and reporting

