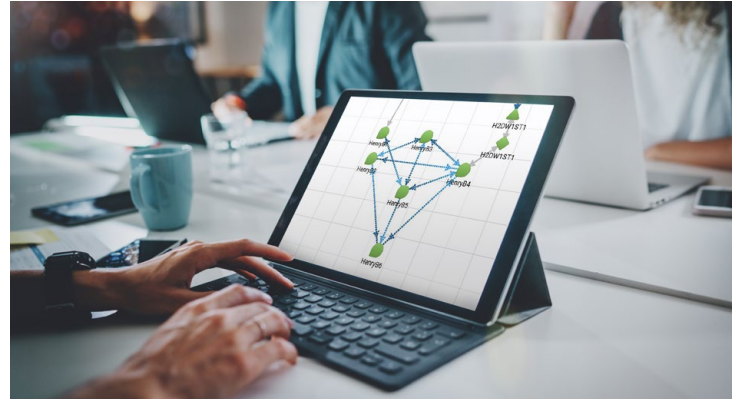


# INTEGRATED PRODUCTION MODELING

Previso is next generation Integrated Production Modeling software, featuring compositional gas forecasting that models the pressure dependency of the entire extraction, production, and distribution system, from multiple reservoirs, wells, subsea pipelines, compressors, and separators, to the market.



# MAXIMIZE GAS PRODUCTION WITH COMPREHENSIVE PRESSURE SENSITIVE FORECASTING

## RESERVOIR AND SUBSURFACE

Complex modeling capabilities within the software automatically incorporate reservoir pressure, depletion, and well designs into predictions and resulting deliverability. With Previso's intelligent modeling, your teams can perform multi-disciplined evaluations with accuracy.

### Material Balance Reservoir Modeling

Undertake material balance calculations across multiple, connected reservoirs including aquifers and incorporate history matching and calibration workflows for the development of overall potential and composition.

### Well Modeling

Incorporate well modeling including specification of well type, integrate vertical lift modeling/pressure drop tables and undertake nodal analysis across the wellbore for the generation and calibration of decline curves for reservoir flow analysis.

### Automatic Type-Curve Generation

Import reservoir simulator files to generate pressure rated performance curves (type-curves) from Eclipse for oil and gas and manage the later interpolation of potential to align with specific delivery pressure.



## FLOW ASSURANCE NETWORK SOLVER

Answer the queries, "can it be done?" and "does it physically work?" quickly and effectively with Previso's Flow Assurance Network Solver. The solver enables a petro-technical evaluation of the available throughput from the surface network and provides pressure details from the salespoints back to the wells to affect their deliverability. This results in the capability to optimize realizable production from an engineering perspective, to meet marketing goals.

Key elements of the network include:

- Flow correlations and pressure drop over pipelines for evaluation of available throughput
- Constraints, yields, extractions, and shrinkage at facilities
- Single and parallel compressors / pumps incorporating performance curve effects on capacity
- Support for multiple demand markets with prioritization, ranking and trigger effects

## SCENARIO MANAGER

The Scenario Manager allows rapid generation, evaluation and analysis of deterministic, large scale sensitivity and full probabilistic assessments for greater accuracy when determining investment possibilities.

### Generate Multiple Scenarios in a Single Model

The Scenario Manager operates as a single place to set up all scenarios and then subsequently, evaluate results across these scenarios within its dashboard and reporting capability. Previso's Scenario Manager enables:

- Single and multi-variable adjustment on a deterministic or probabilistic density function basis to drive bulk scenario and sensitivity generation in a user-friendly manner
- Orchestration of parallel evaluations of cases
- Accurate reporting and plotting dashboard, including templates and customization capability
- Seamless generation of exports into Excel™



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