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simulation  
knowledge  
profit

# Flow Assurance Studies

**Assure and maximize the operation of your production system  
minimizing risks**

## Benefits

- Avoid production shutdowns and downtimes
- Reduce flaring episodes
- Save Capex in expensive thermal-resistant materials
- Optimize sequences for wells start-up and shutdown
- Save in inhibitors consumption
- Plan ahead for production contingencies
- Assess environmental risk

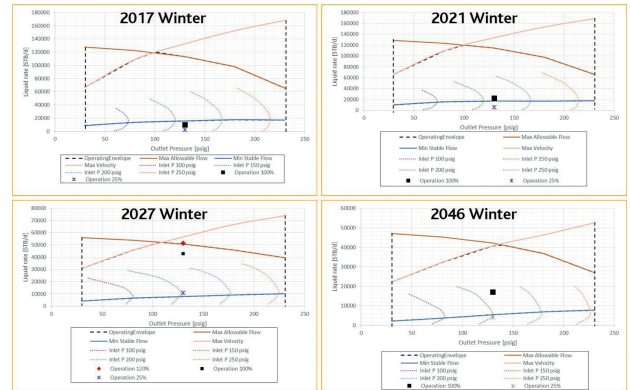
## Functionalities

- Steady State analysis of forecasted production envelopes
- Hydrate prediction, inhibition and mitigation
- Slugcatcher sizing by transient analysis of normal operation to determine slugs frequencies and volume size
- Dynamic analysis of pigging scenarios
- Determination of topside compressor power and heating/cooling requirements
- Holistic simulation (pipelines + processing facilities) to optimize operating procedures

## Multiphase flow simulation provides insights into key operational conditions

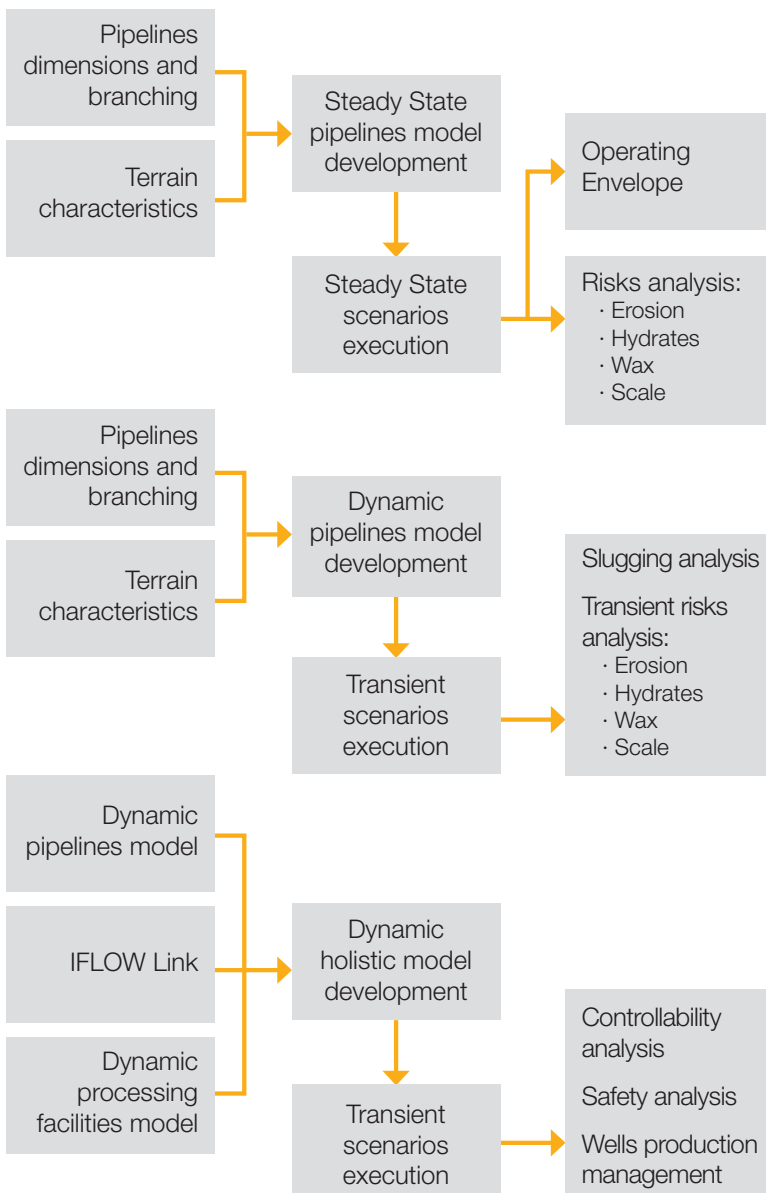


Size slugcatcher and define its control strategy based on rigorous multiphase simulation



Operating envelope determination for several production scenarios

## Workflow



## Follow-up projects

- IFLOW acquisition
- Flare System Analysis
- Operator Training System
- Operations and Maintenance Support

## Case studies

Scan this code to see our latest case studies list

