

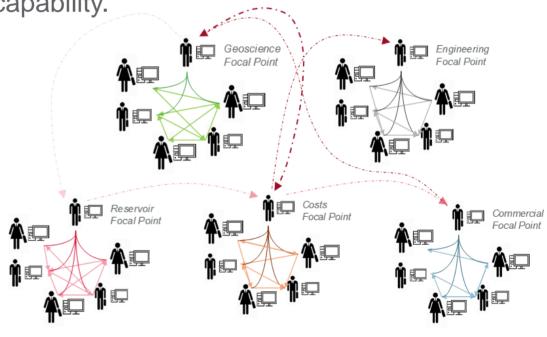
FDPlan Motivation

Industry wide problem

Large multi-disciplinary oil and gas projects suffer from:

- + Siloed workflows.
- + Auditability and data trust.
- + Complex processes dependent on capability.

It takes months to move opportunities through decision gates due to multiple interfaces, especially during appraisal/concept select stage



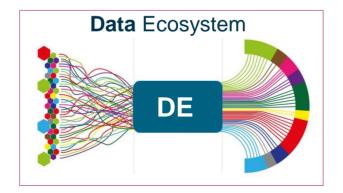


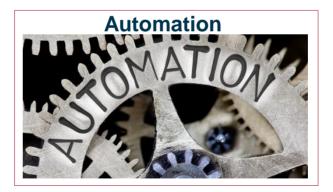
Key Enablers













FDPlan Motivation

DELFI Cloud-based-solution

FDPlan addresses these problems by providing

- + A collaborative environment to aid decision support.
- A simple interface to drive rapid scenario screening.
- Automated scenario evaluation through extensible workflows.
- + Openness including connectivity to 3rd party tools (PETEX) and access to DELFI data (APIs).

FDPlan has potential to **reduce** end-to-end forecasting **time** by **70%** with instantaneous economics for a wide range of subsurface development scenarios.



FDPlan Value

Commercial production optimisation

+ Longer term production optimisation using multiple scenarios to avoid short-term gain for long-term pain.



Instant Economics

+ Organisation wide integration enables instant economics evaluation.



Enhanced Decision Quality

+ Optimal concept selection across multiple scenarios aids understanding risks as well as opportunities for value creation.





Schlumberger

Orchestration

- Case Mapping.
- Risks & Opportunities.
- Decision Mapping.

Data Ecosystem

- Stores.
- Entitlements.
- Federated Searching.

Cloud Architecture

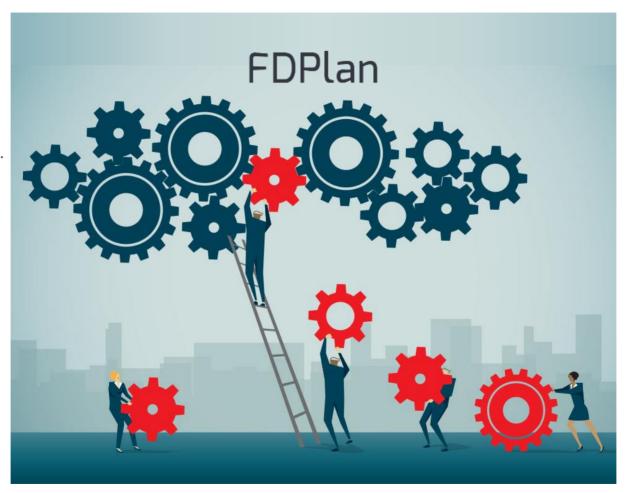
Simulation Hardware.

Analytics

Visualisation.



Success through collaboration





Detailed IPM

- RESOLVE
- GAP
- INTERSECT
- MBAL

Detailed Costs

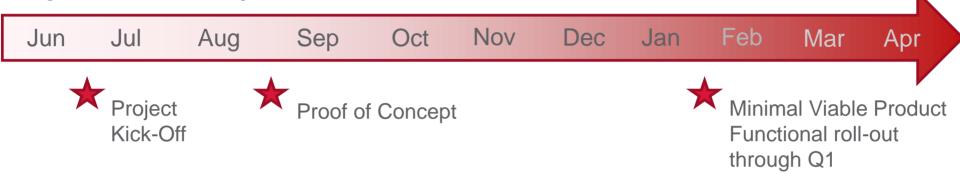
- Escalation.
- FOREX.
- Categorisation.

Modified Commercial

- Australian Tax.
- Custom Tariffs.

Success through collaboration

Project Summary



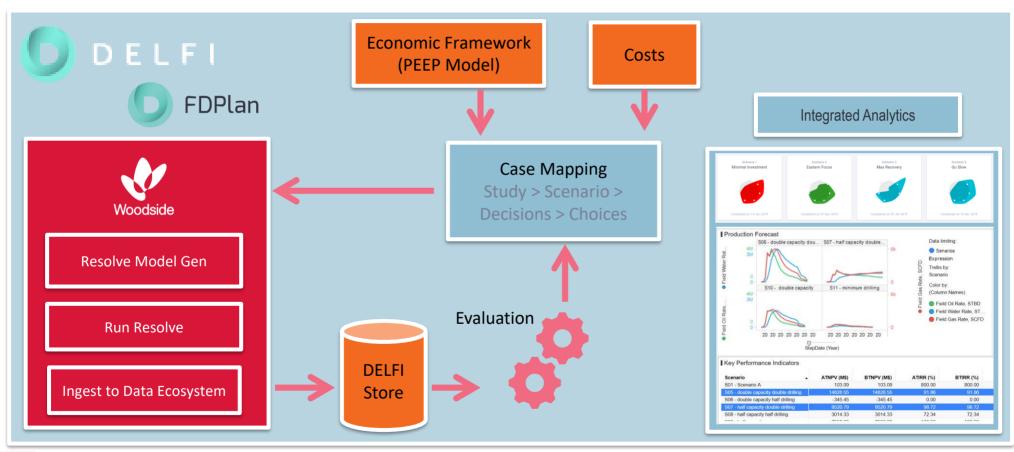
Proof of concept for customised workflows achieved in 2 months

- Data auditability with immutable information in DELFI.
- + Enablement of multidisciplinary collaboration.
- + Minimal data manipulation.
- + Simplified user interface for scenario selection.

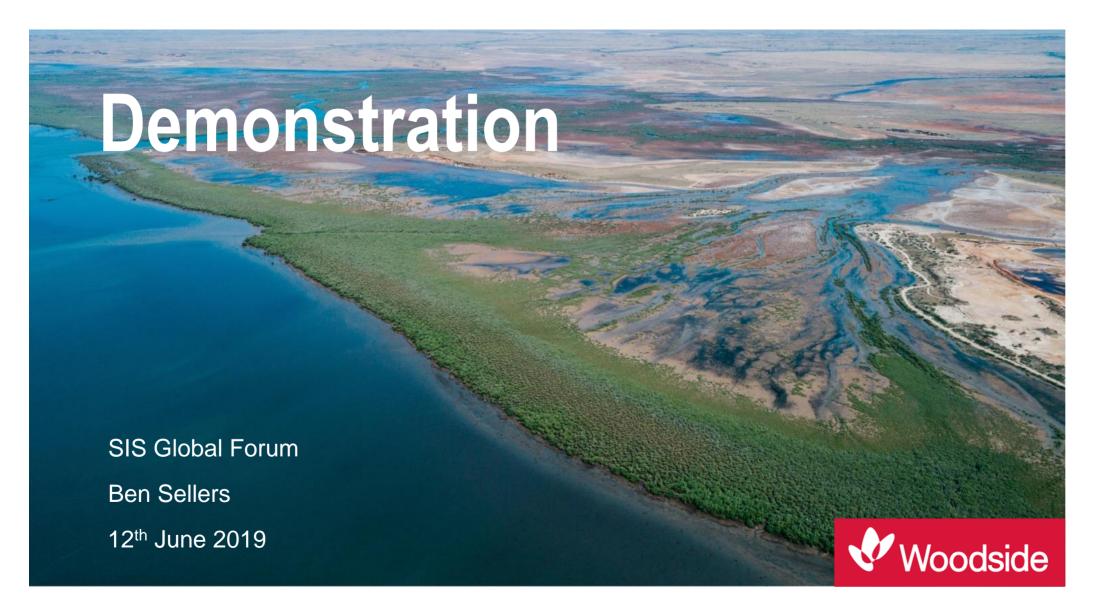


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Collaborative workflow







FDPlan Driving a Culture of Openness

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Commercial Production Optimisation

Longer term production optimisation using multiple scenarios to avoid short-term gain for long-term pain.

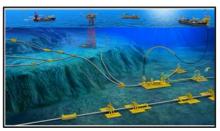


- **Detailed IPM** Data Ecosystem
- Costs Cloud Architecture
- Commercial Analytics



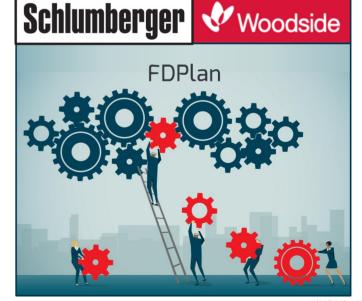
Instant Economics

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FDPlan Driving a Culture of Openness

Schlumberger and Woodside Collaboration

- + **Openness** DELFI Openness enables connectivity to third party applications and capability to consume DELFI Application Program Interface (APIs).
- + Data Ecosystem DELFI Data Ecosystem is utilised to build custom automated evaluation workflows.
- + Collaborative Framework FDPlan provides simplified user interface for scenario creation and evaluation.
- + **Automation** Automated end scenario evaluation will drive rapid screening of potential development scenarios. Proof of concept achieved for automated evaluation of development scenarios through open and extensible workflow.











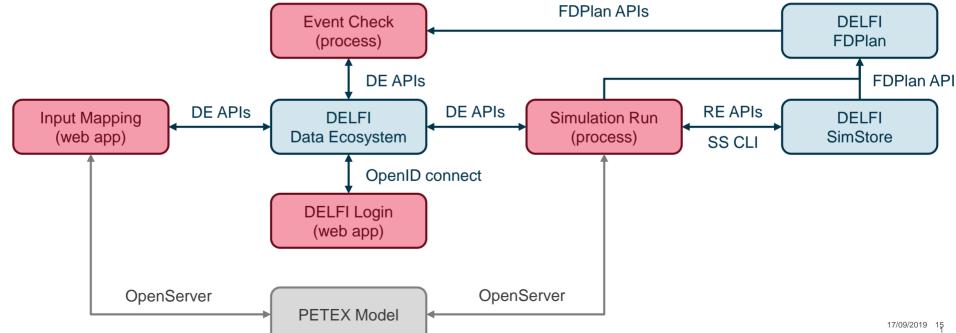


FDPlan Modified Workflow

Architecture

- 1. Event check Check FDPlan scenarios (automated)
- 2. Input mapping map FDPlan decisions to simulation inputs
- 3. Simulation run Configure and run simulations (automated)









Summary

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