FDPlan
Driving a culture of openness

SIS Global Forum
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12th June 2019
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

- **Openness – 3rd Party Apps**
- **Collaborative Framework**
- **Cloud Architecture**
  - Unlimited Hardware
- **Data Ecosystem**
- **Automation**
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.
Success through collaboration

**Orchestration**
+ Case Mapping.
+ Risks & Opportunities.
+ Decision Mapping.

**Data Ecosystem**
+ Stores.
+ Entitlements.
+ Federated Searching.

**Cloud Architecture**
+ Simulation Hardware.

**Analytics**
+ Visualisation.

**Detailed IPM**
+ RESOLVE
+ GAP
+ INTERSECT
+ MBAL

**Detailed Costs**
+ Escalation.
+ FOREX.
+ Categorisation.

**Modified Commercial**
+ Australian Tax.
+ Custom Tariffs.

**FDPlan**
Success through collaboration

Project Summary

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- Project Kick-Off
- Proof of Concept
- Minimal Viable Product Functional roll-out through Q1

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.
Collaborative workflow

FDPlan

Resolve Model Gen
Run Resolve
Ingest to Data Ecosystem

Economic Framework (PEEP Model)
Costs

Integrated Analytics

Case Mapping
Study > Scenario > Decisions > Choices

Evaluation
DELFI Store
Demonstration

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FDPlan Driving a Culture of Openness

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**Enhanced Decision Quality**
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**Technology Collaboration**
- Data Ecosystem + Detailed IPM
- Cloud Architecture + Costs
- Analytics + Commercial

(Schlumberger logo and Woodside logo with FDPlan text)
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)
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Questions

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