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The ExplorePlan (DELFI) Journey

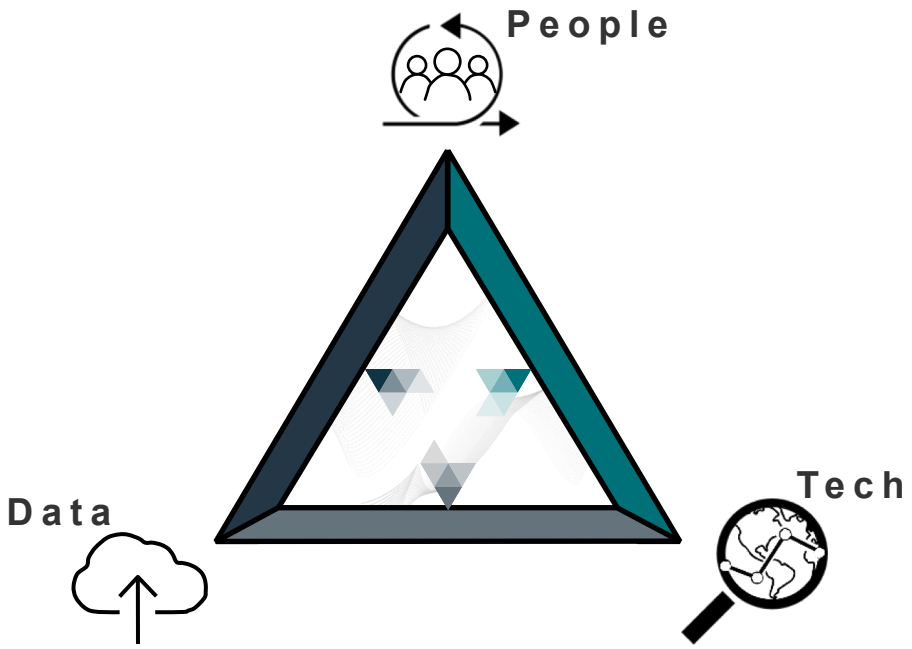
Boosting the Discovery of New Exploration Opportunities

SIS Forum 2019

Markus Geiger (Equinor – Advisory Role)
Charlotte Fraser, Claire Castagnac (Schlumberger – Technical execution)

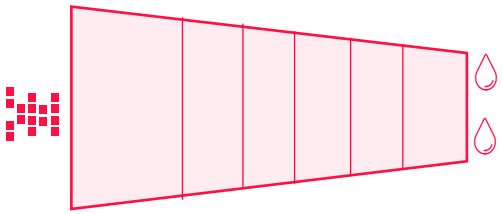
DIGEXP talk 14.45, Room 1

Equinor | A Leading Digital Explorer



- **More** business opportunities
- **Increase** efficiency in the value chain
- **Capture** better acreage
- **Improved** success rate
- **Delivering** profitable, high quality resources
- **Boosted** moral and motivation!

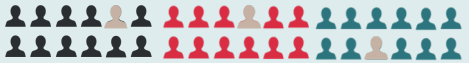
Exploration Process | Pain-points



Consequences

- Sub-optimal decisions due to time loss and incomplete data foundation
- Knowledge decays & loss

Teams/Leadership

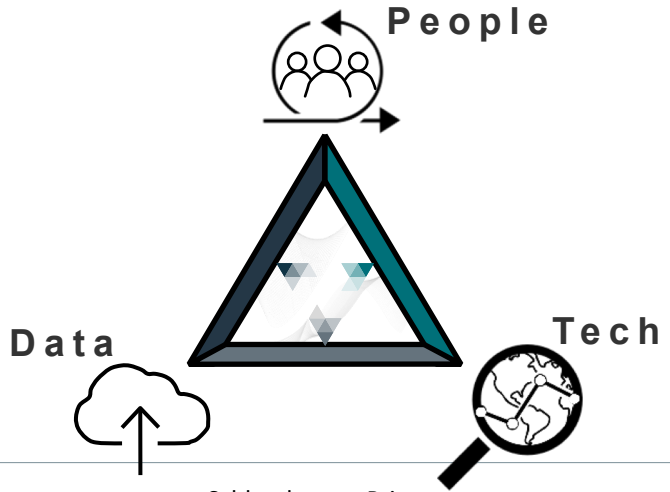


- Insufficient communication
- Unclear roles and responsibilities
- Individual interpretation of requirements
- Knowledge moves with people

Data and Information Pool

Data is ….

- difficult to find
- non-searchable, neither referenced nor indexed
- hidden behind applications
- not single source & different formats



Platforms and Applications

Fragmented Tool landscape

- Multiple applications (no one big picture!)
- No contextual flow (how did we get here?)
- No decision capturing (why was that done?)

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ExplorePlan | A one-stop-shop for Exploration

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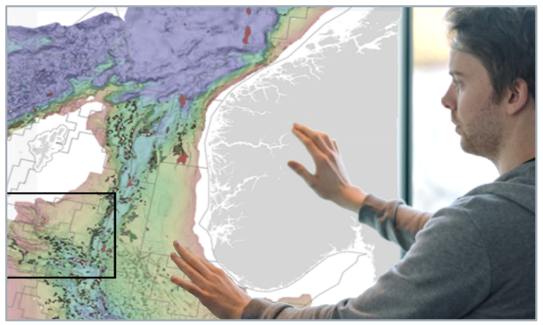
Mission Statement

A hydrocarbon exploration management tool that plans, tracks and facilitates the creation, iteration and maturation of new and existing opportunities in the exploration funnel

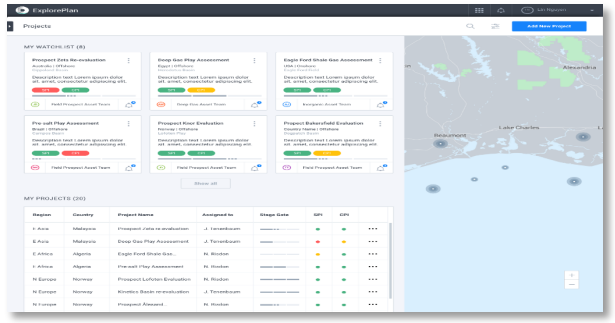


- **Projects**
- **Data Discovery**
- **Opportunity Inventory & Assessment**
- **Knowledge Board**

ExplorePlan | Components and Goals for Phase 2

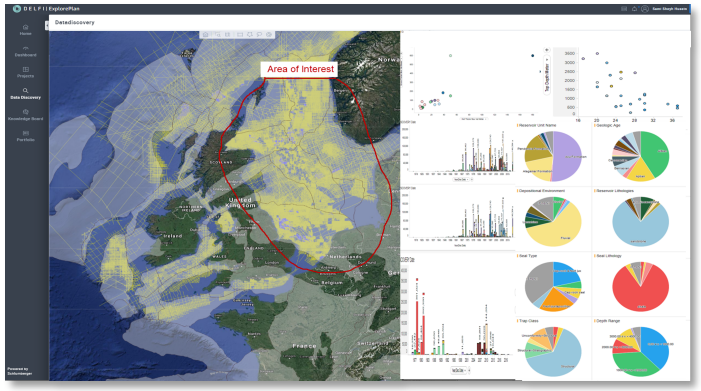
Project

- Subsurface projects planner: overview, including project types, team and tasks
- Defines and manages decision gates: milestones, deliverables



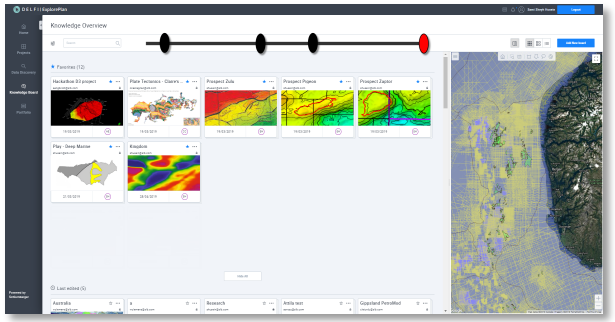
Data Discovery

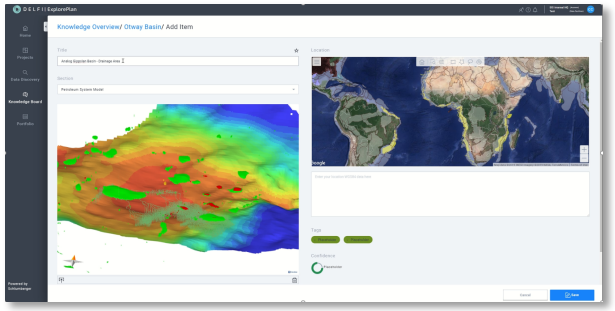
- Smart search and shopping basket
- Data analytics to quality control data



Knowledge Board

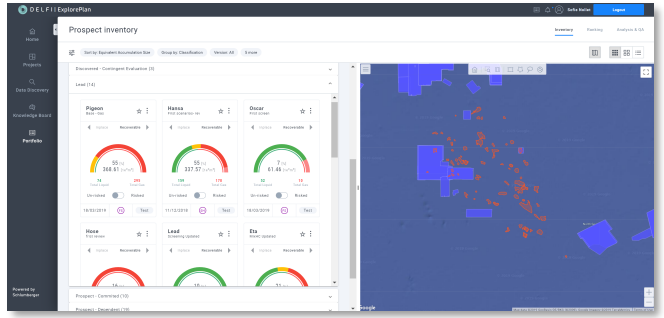
- Boards fully customizable for user type, opportunity type and technical requirements
- Board timeline and versioning (decision gates)
- Consumes any data sources (unstructured data, Petrel etc.)
- Collaborative functions for teams and reviewers
- Dynamic reports of predefined templates (documentation requirements)





Opportunity Inventory & Assessment

- Interactive interface to prospect evaluation tool (GeoX)
- Multi-scenario assessment function
- Analogue suggestions for probability distributions
- Auto-populate parameters from analogous prospect assessments
- Interactive analytics of prospect parameters from a portfolio selection



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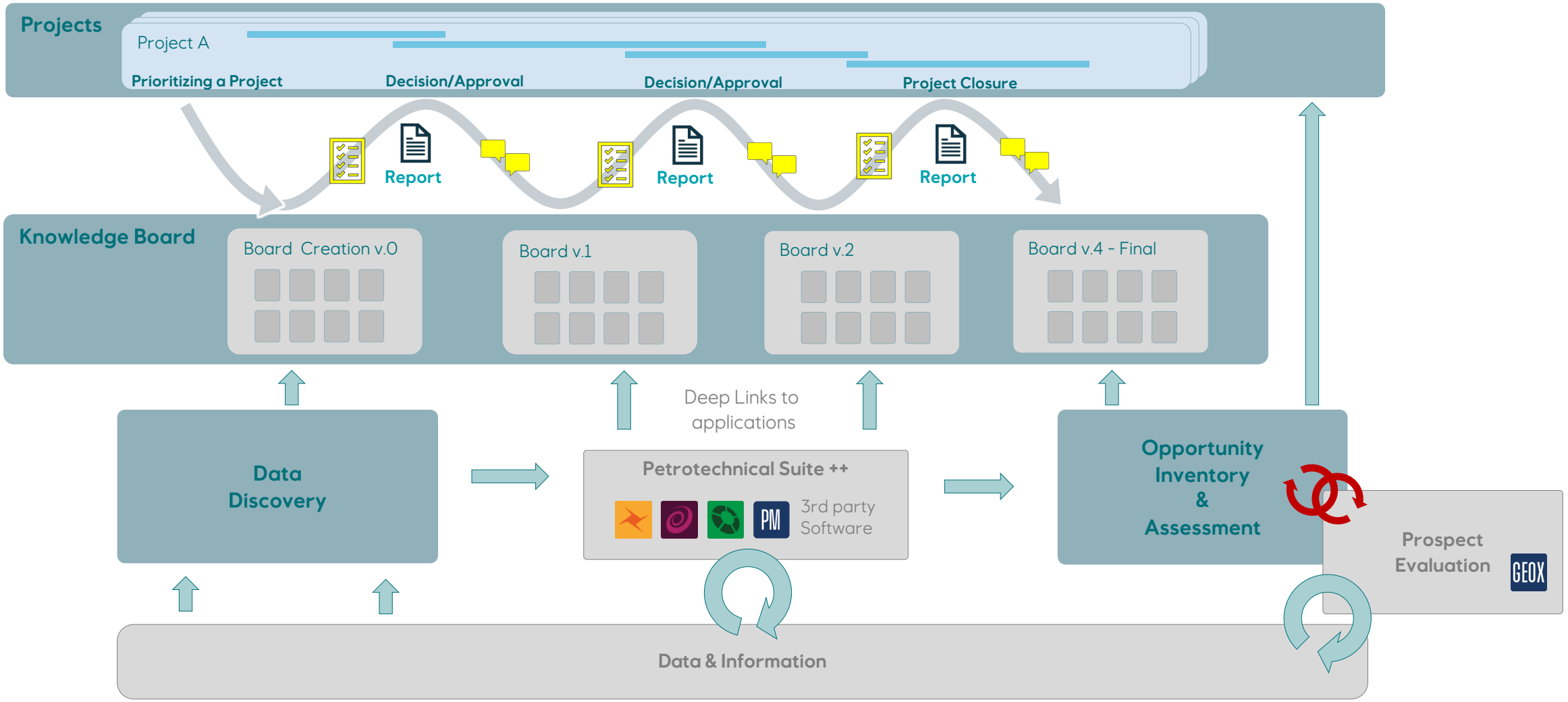
ExplorePlan | Information Streams and Interfaces



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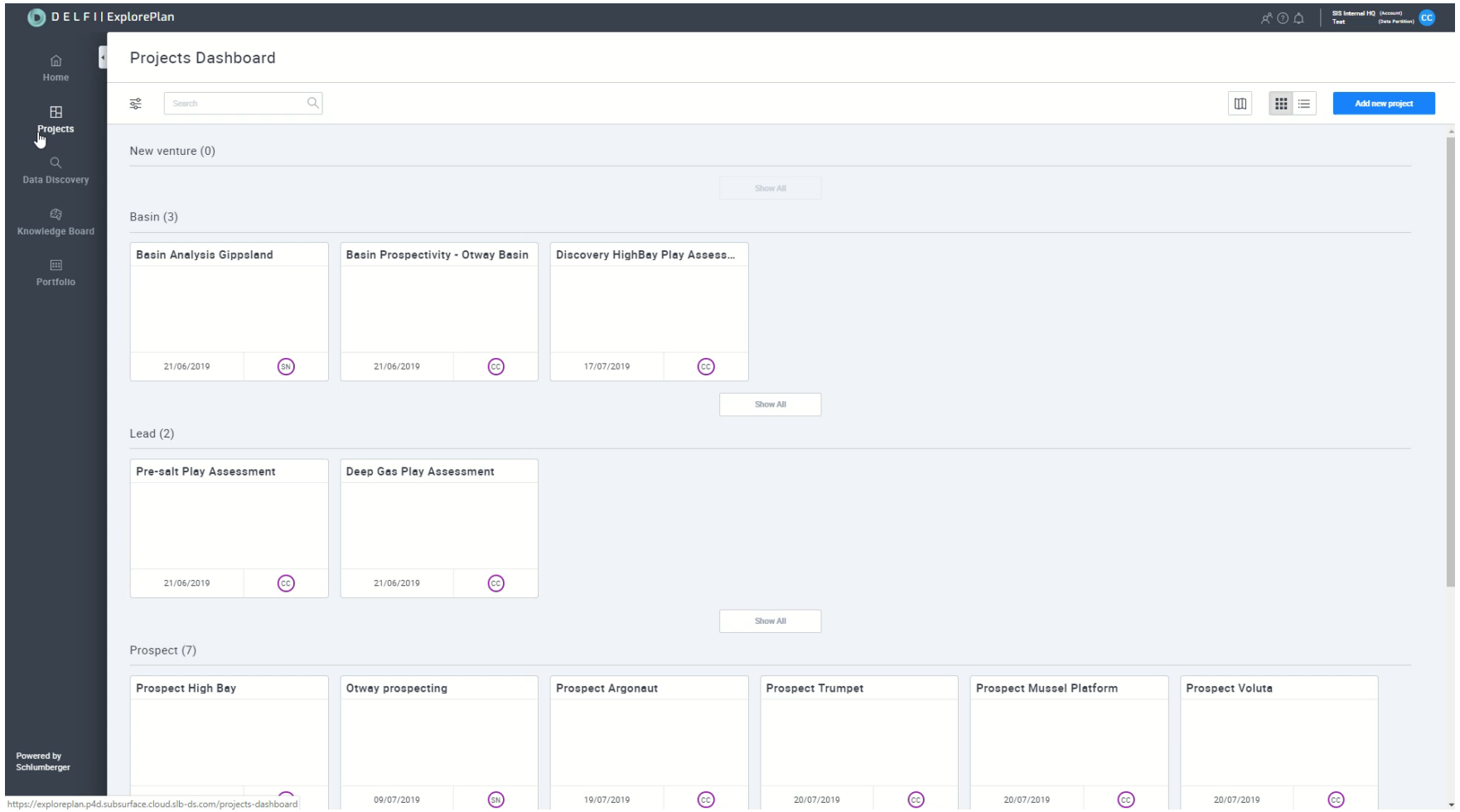
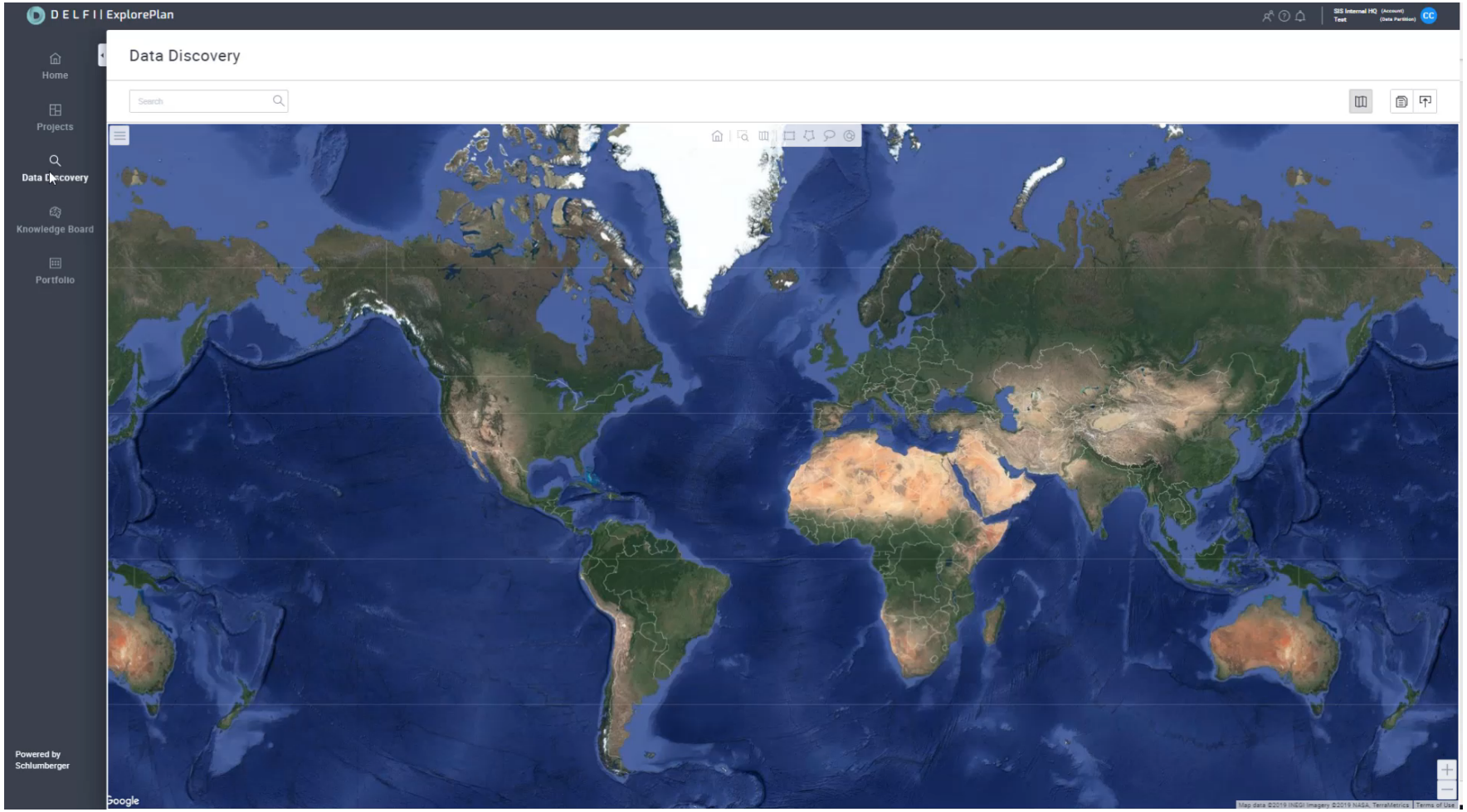
ExplorePlan | Projects



ExplorePlan | Data & Analogues discovery environment



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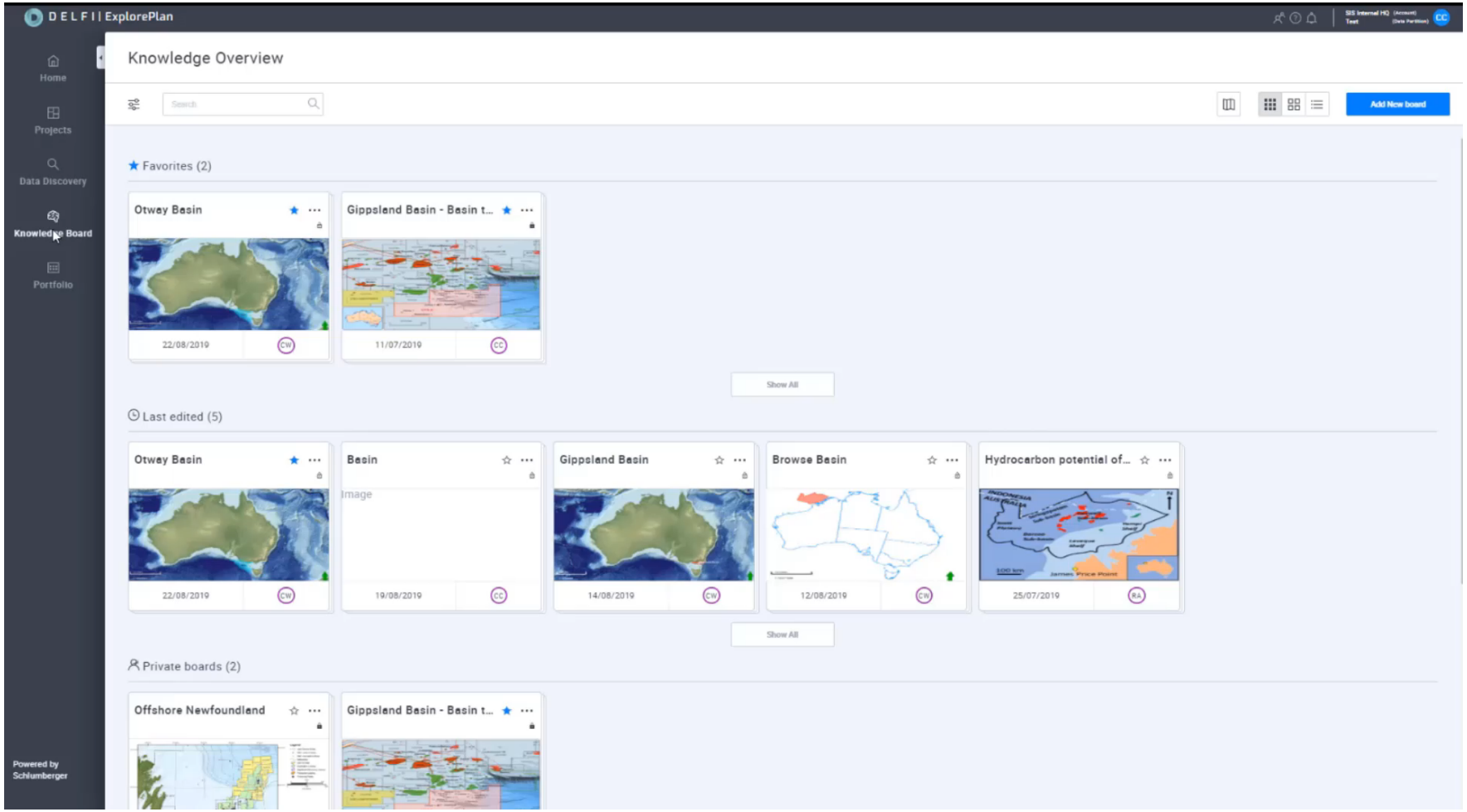
ExplorePlan | Knowledge Board



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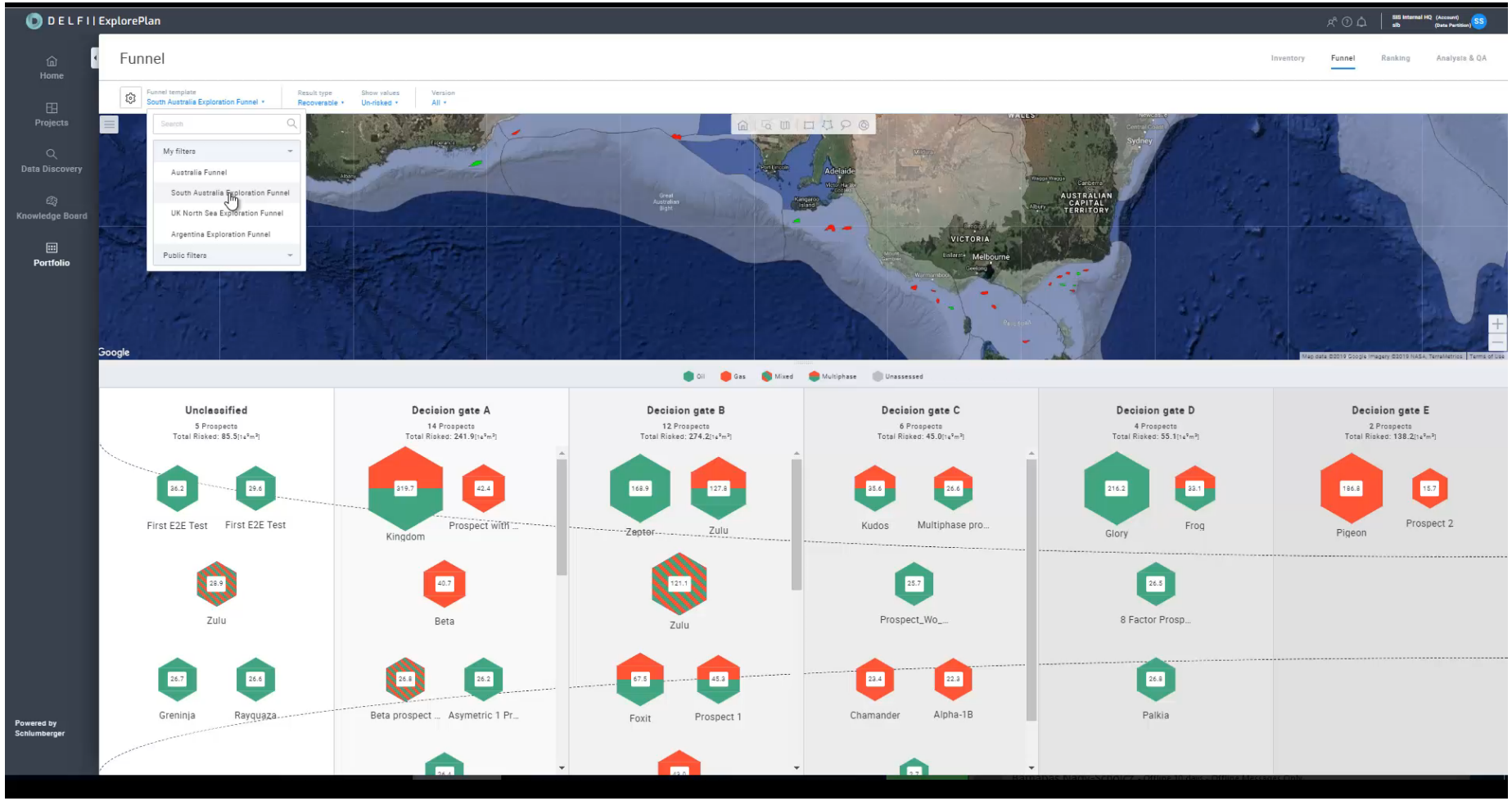
ExplorePlan | Funnel Inventory & assessment tool



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ExplorePlan | Boosting the Discovery of New Exploration Opportunities

- Work more efficiently
- Always build on knowledge, never loose it
- Make better-informed decisions
- Find more oil and quicker

The ExplorePlan Journey

SIS Forum 2019

Markus Geiger (Equinor),
Charlotte Fraser & Claire Castagnac (Schlumberger)

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