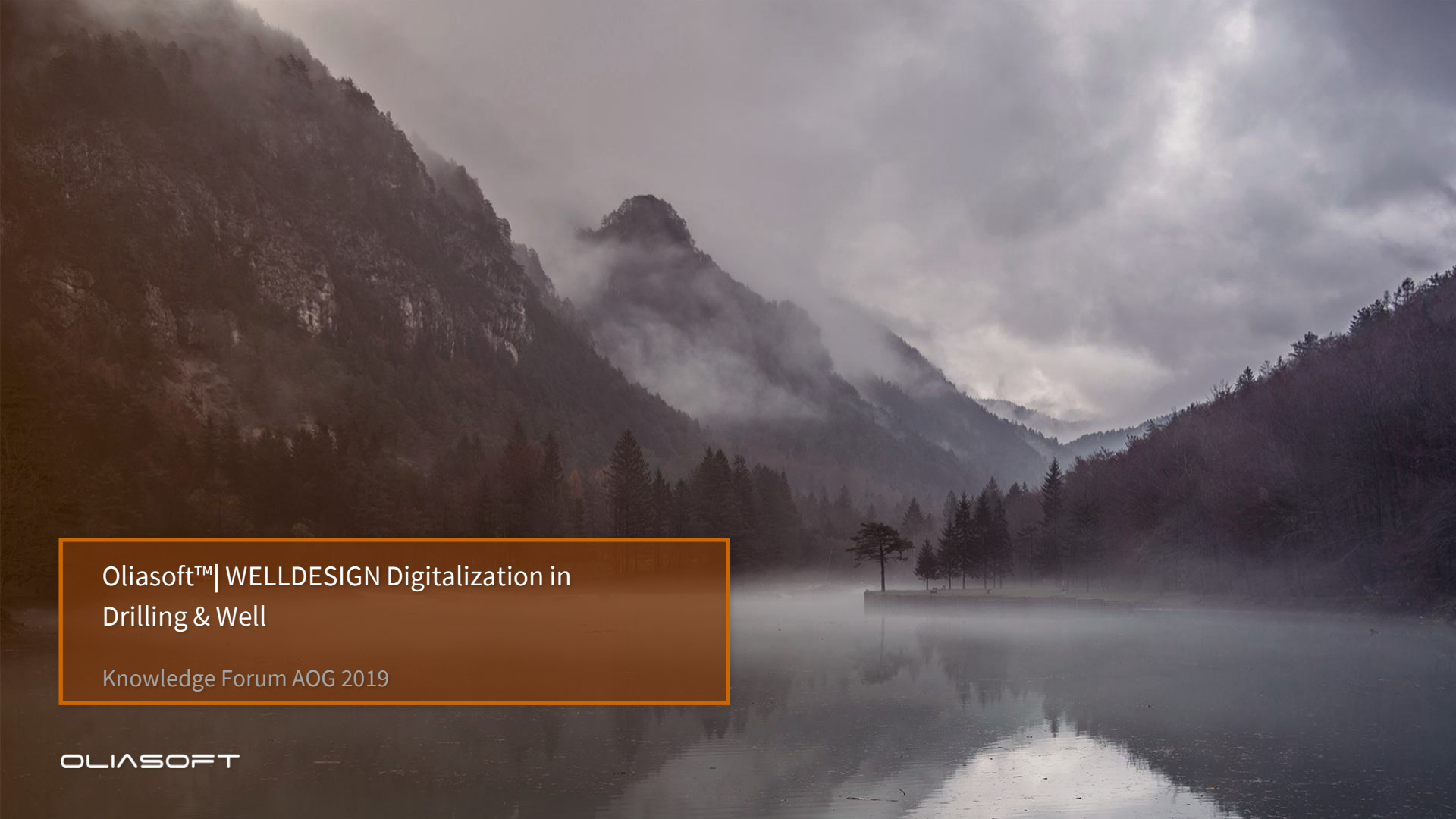


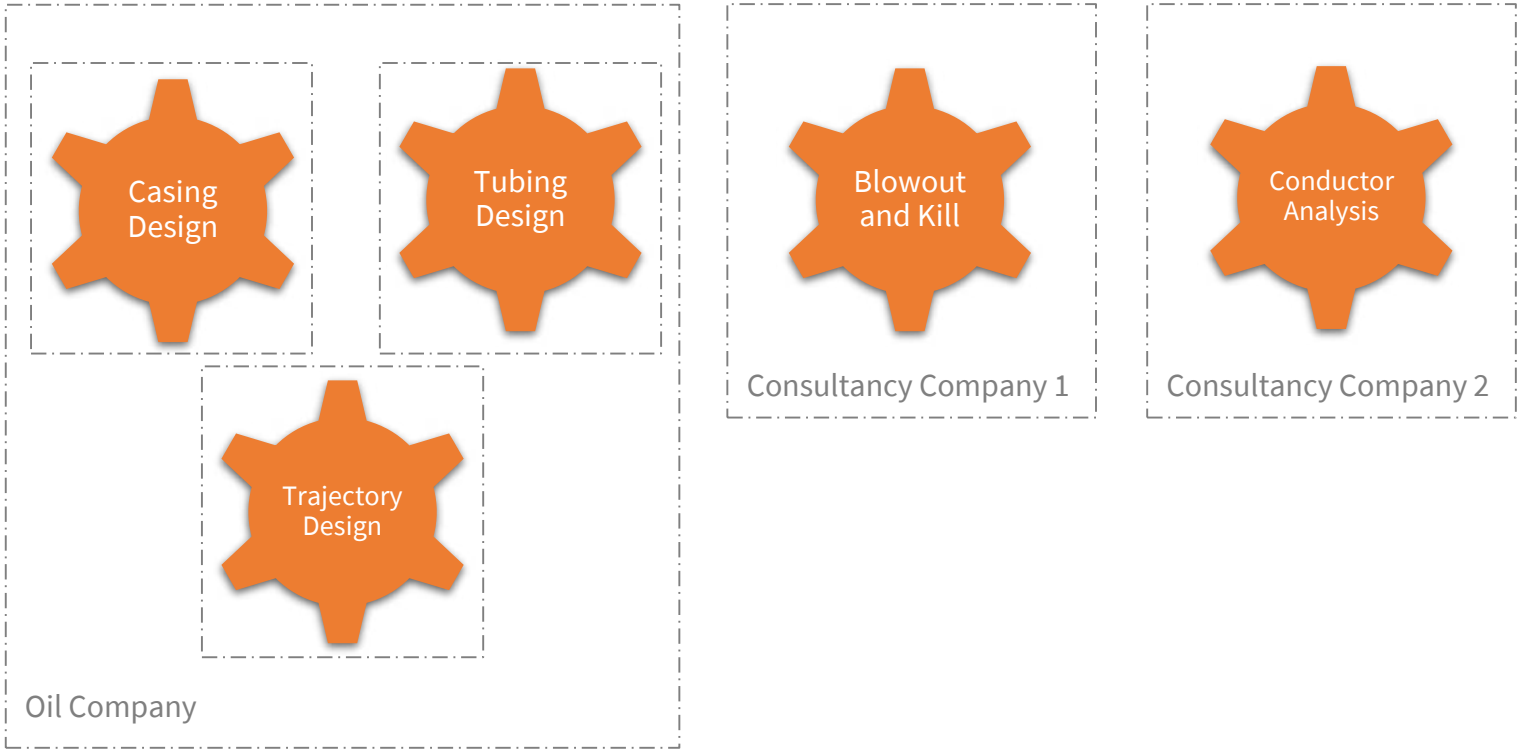
Oliasoft™| WELLDESIGN Digitalization in Drilling & Well

Knowledge Forum AOG 2019

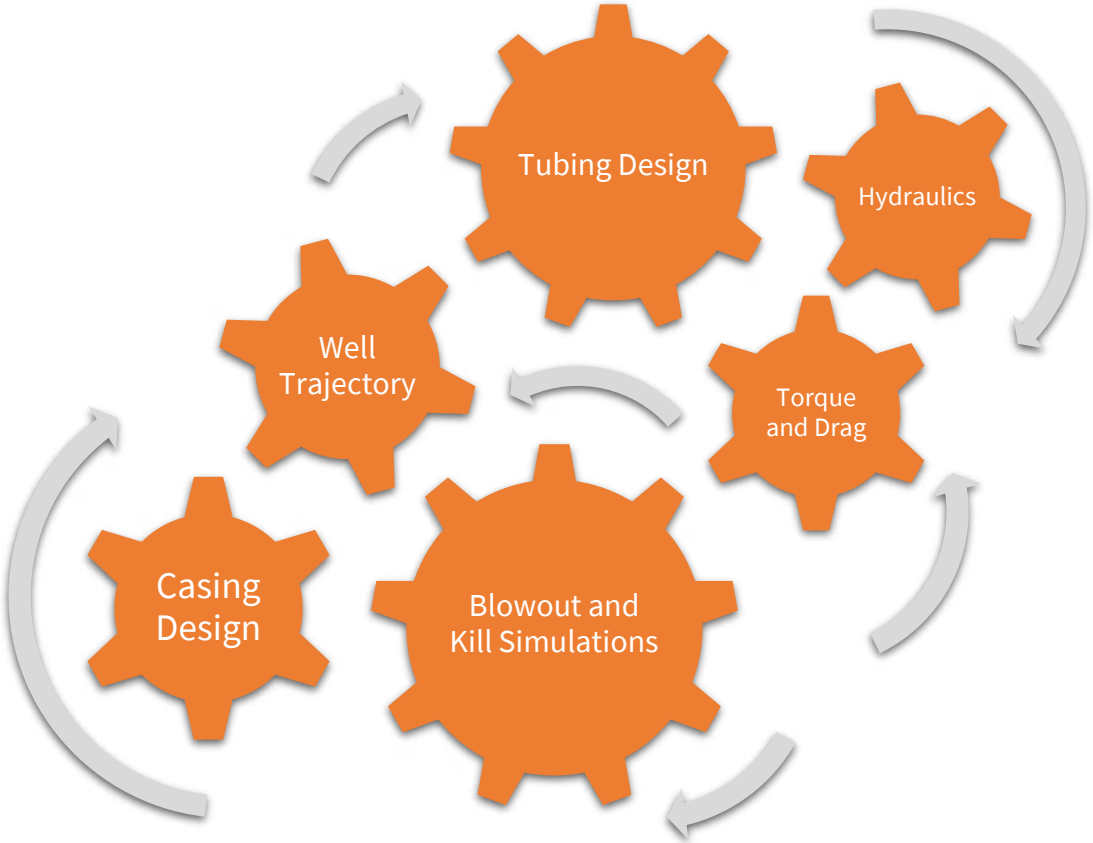
OLIASOFT

Digitize the oil industry by including all well design calculations in a cloud based web application

Current Well Design Process



Oliasoft WellDesign™ - Integrated Cloud Engineering



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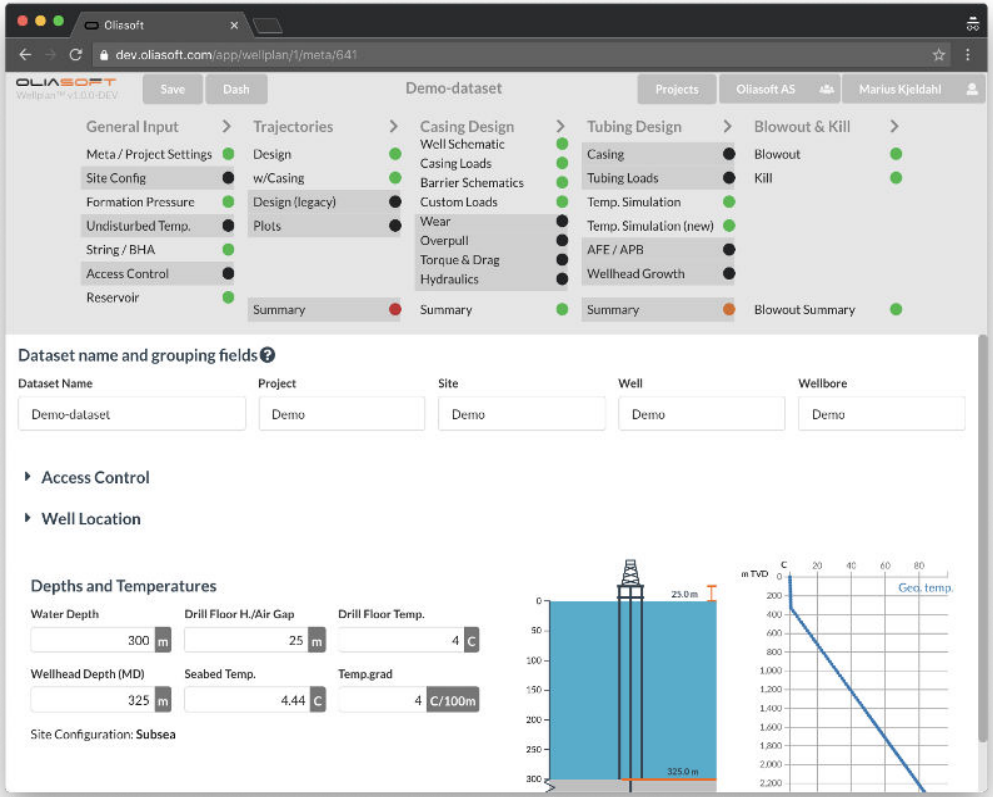
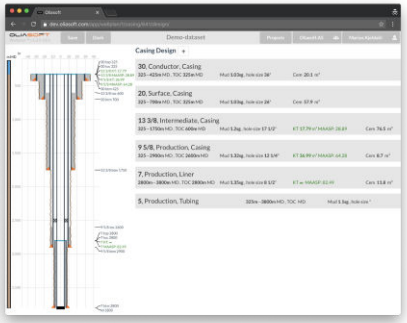
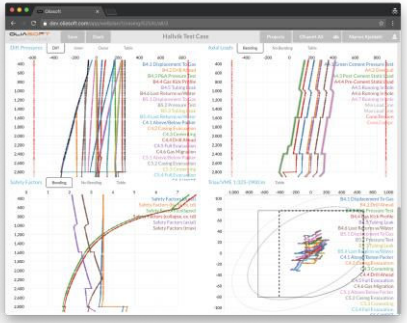
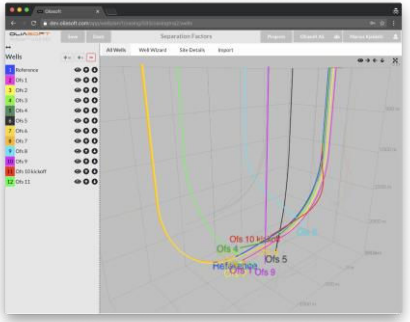
Next Generation Well Design









How we achieve this

Experienced Team

A combination of oil and software industry experts together with PhDs in mathematics and physics

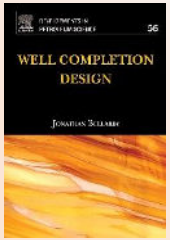
Demanding Clients

Oliasoft WellDesign™ is being tested in cooperation with Equinor, Aker BP, Chevron, OMV + 17 other oil companies

Research Institutions

Partner up with world leading institutions and organizations with extensive knowledge and experience

Domain Expert



Domain expert Jonathan Bellarby and Canmore Consulting are responsible for advanced stress calculations in Oliasoft

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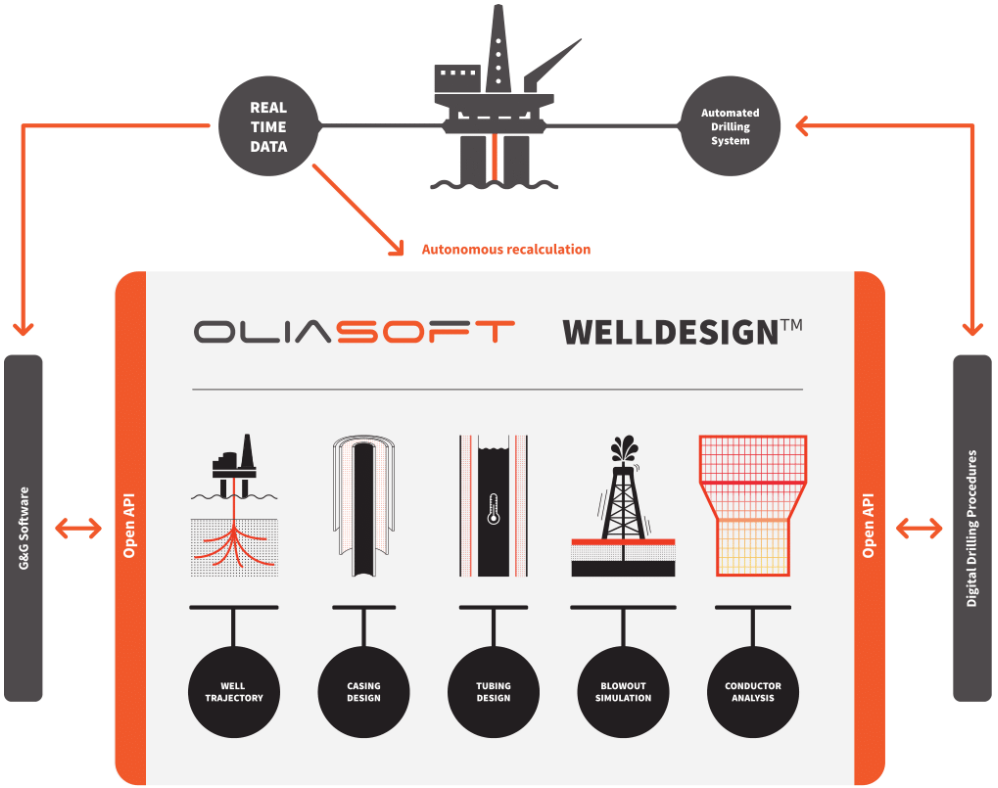
Digital Technology – Connecting the Dots

Oliasoft WellDesign™ in a Digital Environment

- Machine-to-machine communication with any other application through open API
- Output of digital operation procedures for use by rig robotics
- Automatic re-calculation of the full calculation chain during operation based on real-time data



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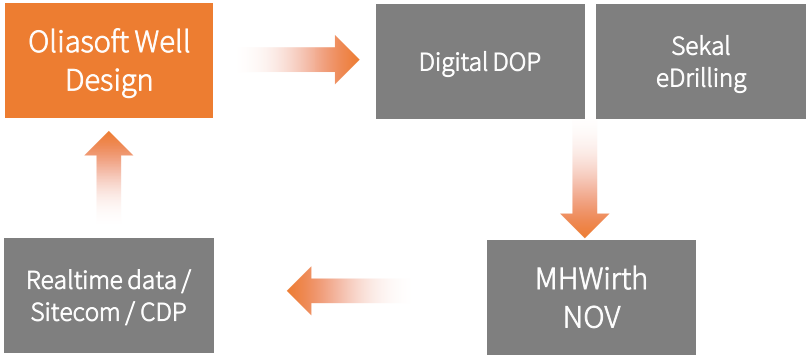
Use case 1 – Enabling Autonomous Operations

Use case

Enable autonomous drilling through digital operation procedures

Value objective

Enable automatic re-calculation of well design and well integrity in order to achieve autonomous drilling operations



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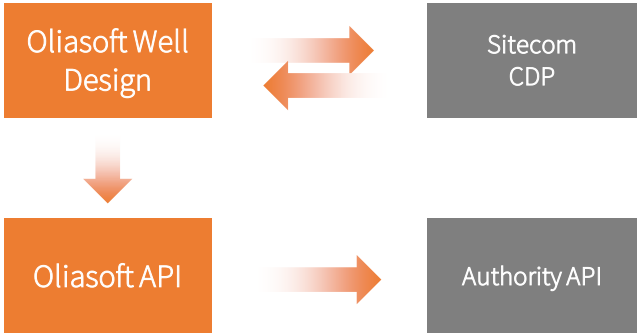
Use case 2 – Automatic Daily Drilling Report Generation and Authority Reporting

Use case

Automate large parts of the daily drilling report generation and reporting to authorities

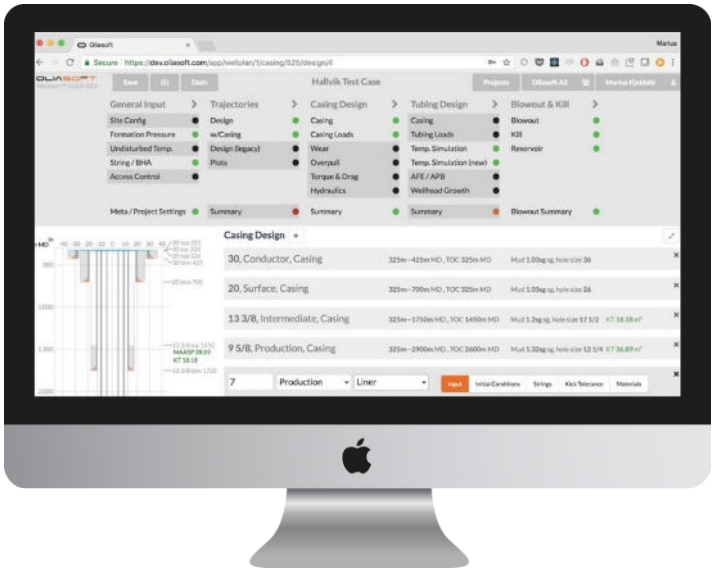


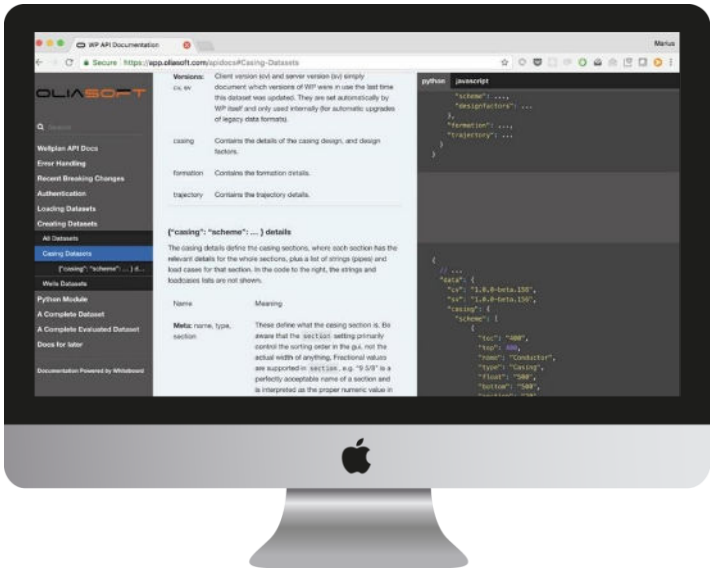
Value objective

Automatically generate most of the necessary items in the DDR based on plan (WellDesign) and realtime data (Sitecom, CDP etc).
Automatic reporting and validation to authorities.

Digital solutions– Endless possibilities

Oliasoft Build Software for Humans and Machines





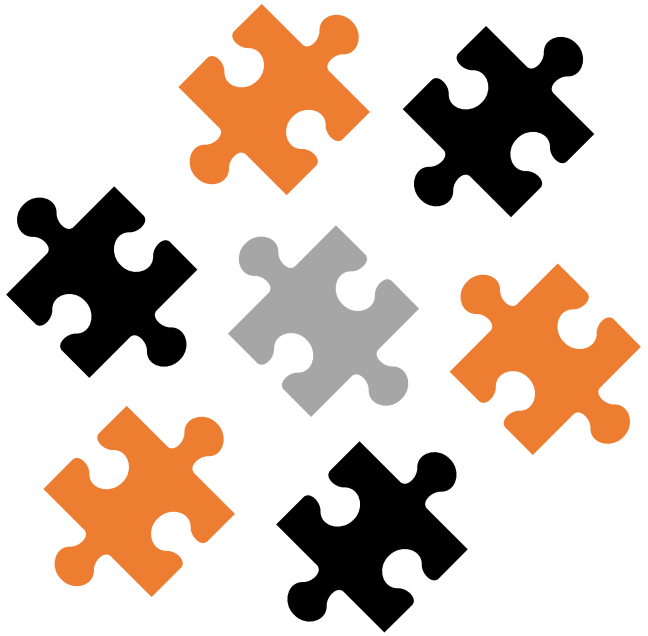
Integrate Oliasoft Modules in Your Own App

Puzzle philosophy

All modules and calculation engines in Oliasoft WellDesign™ are available through documented REST APIs

This allows advanced users to integrate any part of Oliasoft into their own third party applications

Applications can be used as components in a larger digital puzzle



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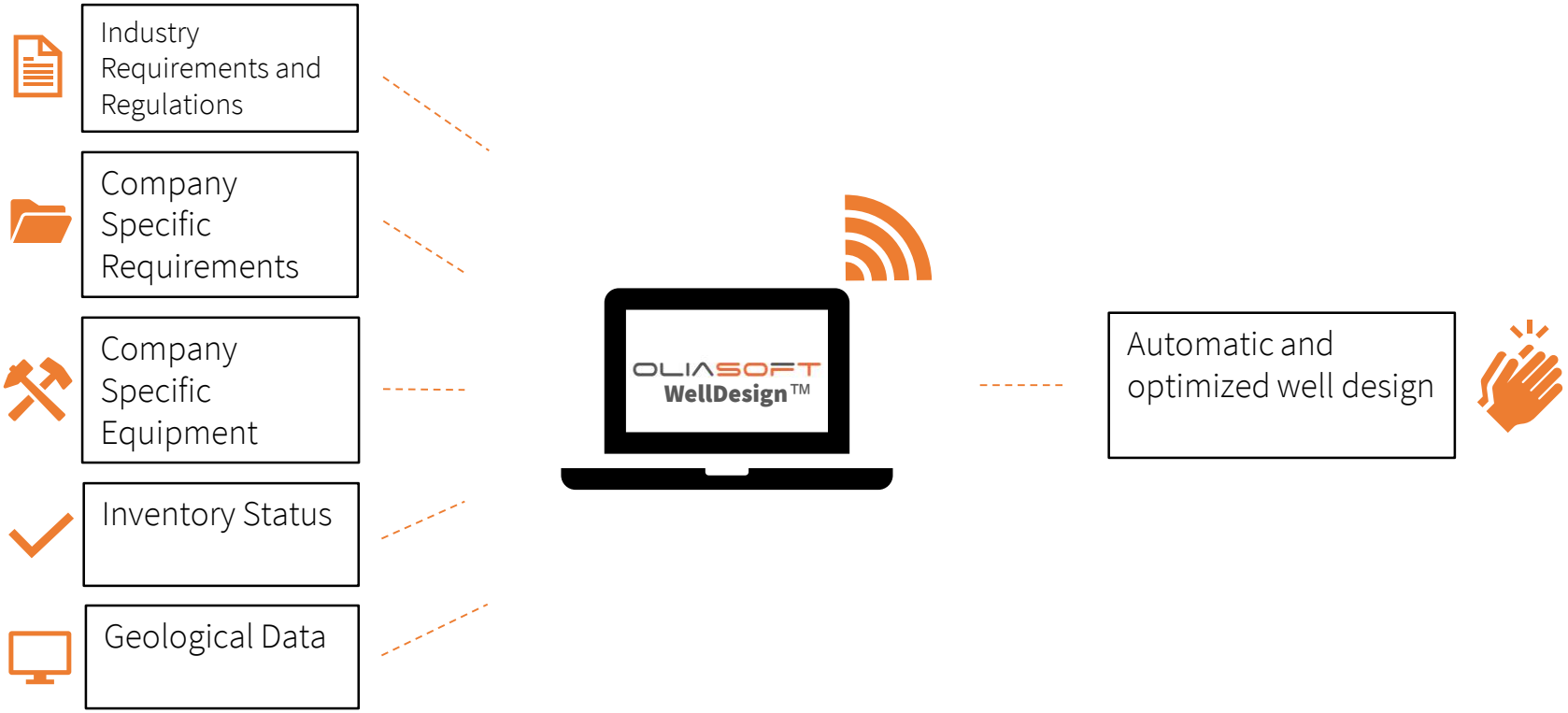
Future Well Planning With Digital Technology



Why Is Our Solution Unique?

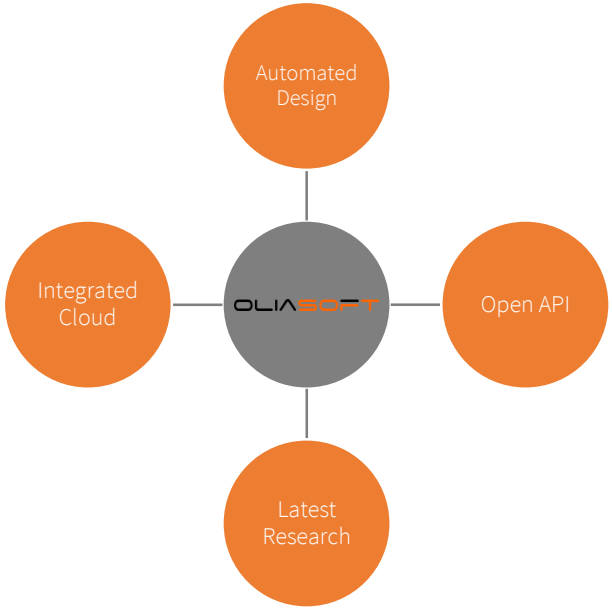
What Makes Oliasoft WellDesign™ Unique?

Open API – Machine-to-Machine Communication and Real-time Updates of Design During Operation

Latest Research Included – Constant Implementation of Updated Calculation Methods

Integrated Cloud Engineering – One Source of Data in a Modern Web Application

Automated Work – Optimize Well Design Processes and Save Valuable Time



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Questions?

Contact
Linda Saether
Oliasoft
linda@oliasoft.com

Digitized Infrastructure – everything will be connected

Big data, AI etc will optimize business processes

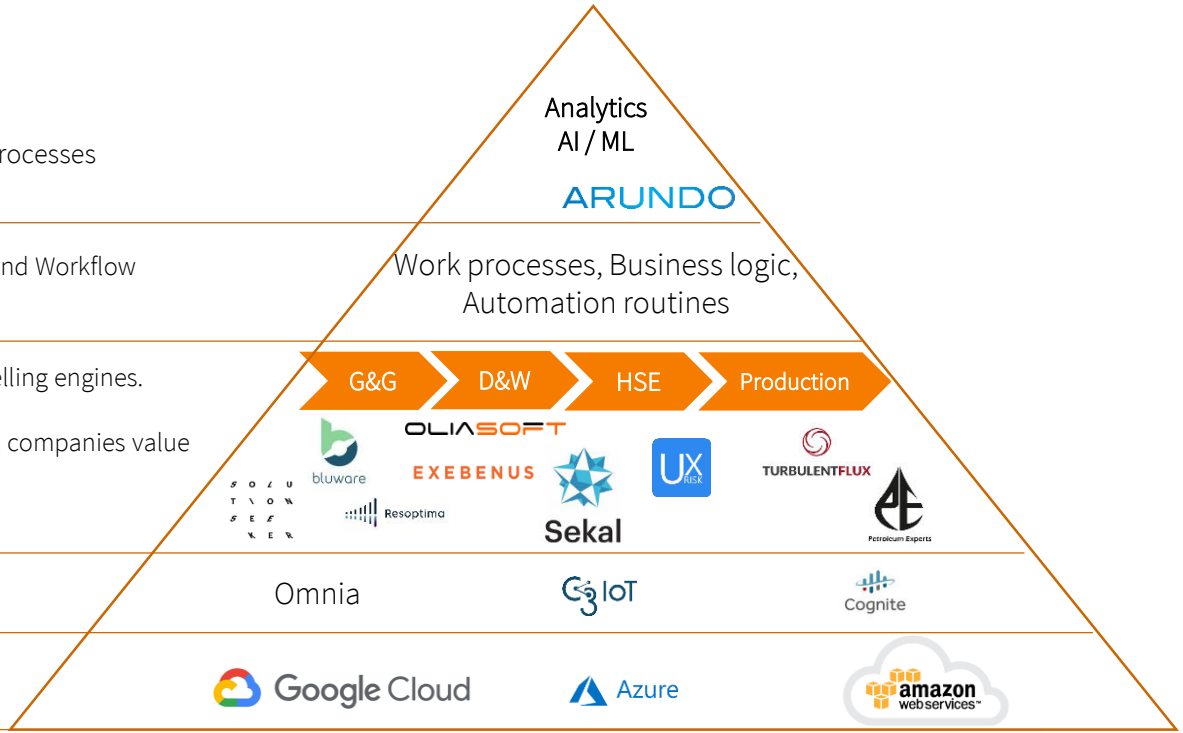
Oil Companies own / control; Data, APIs and Workflow

Calculation engines, Simulators and Modelling engines.

Domain specific applications executing oil companies value chain – data is shared and work processes automated

Data lake

Platform



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