Day 1, June 4

09:00 | Plenary session. A reflection on the state of digital transformation in oil & gas

- 10-year challenge: How has digitalization changed the oil & gas industry in the last decade? How will it change the industry over the coming decade?
- The economics of digital transformation in oil & gas - estimating the return on investment. Is digitalization living up to its promise?
- Digital maturity model – the main pitfalls at each stage, and strategies to overcome them. How to diagnose and fix stagnant digital transformation
- Operator’s keynote: leading company-wide digital transformation - from idea to digital innovation at scale

10:30 | Networking break

11:15 Digital leaders panel. The art of digital strategy execution

- Scaling up digital initiatives in oil & gas. Weighing the benefits and organizational feasibility of scaling up successful pilots, setting up the right technology ecosystem, and choosing the right pace
- Lessons learned from leading a large-scale change management programme in oil & gas. Strategies to overcome cultural resistance, attract new talent & upskill the existing workforce, and how to make transformation sustainable over time
- Young leader’s view. Sharing career transition experience - key differences between working at oil & gas and tech companies

Discussion: Delivering the promise of digital transformation

- Setting up the right metrics, incentives and performance management processes to support change
- Best practices in prioritizing a transformation road map. How to differentiate great digitalization initiatives from mediocre ones
- The role of each company’s department in digital transformation
- Defining the framework for diagnosing stagnant digitalization

11:15 Deconstructing the infrastructure enablers of digital transformation - cloud, edge computing, 5G

- Cloud advancements. Realising the full business value of Cloud and associated services (HPC, ML, data lakes) in all aspects of the oil & gas value chain
- Edge computing - new opportunities for real-time monitoring and analytics. Understanding architectural considerations of edge computing deployment
- 5G network infrastructure as a critical enabler for digitalization in oil and gas. Emerging use cases, costs estimates and opportunities
- A proactive approach to cyber-security - understanding and preventing security threats of evolving IT/OT integration, cloud advancement, edge connectivity
13:00 | Lunch

14:00 | New partnership models in oil & gas. Driving the industry forward through collaboration

- Digitalization partnerships between oil & gas operators - setting up the framework for sharing competencies and technology of large-scale digital transformations
- Transforming existing business models and discovering new models in oil & gas. Where to start?
- When the whole is greater than the sum of its parts - case-study of successful cross-sector collaboration. Contribution of oil & gas operator, service company, technology and consultants
- Joint presentation: defining collaboration models with startups in oil & gas

14:00 | Democratizing data. Data management standards, best practices and tools

- Setting up industry-wide standards for collaboration. Case study on transforming the subsurface data and application landscape (OSDU)
- Enabling collaboration through a single cloud-based environment for the whole exploration & production (E&P) value chain
- Breaking data from silos and putting it into context - deep dive into benefits of data contextualization
- Digital Twin - from concept to a working model. Case study on introducing Digital Twin to increase data openness and speed of development
- Reprocessing legacy data. Best practices in maintaining and utilizing prior industry knowledge for current use with digital tools

15:45 | Networking break & exhibition circle tour

16:20 | Solving real-life case studies from the industry

In this session, four oil & gas companies will present their real-life case studies with supporting data and context. The audience will try to solve the case studies with the help of facilitators.

**Case 1:** From proof to value. How to scale a successful advanced analytics pilot project

**Case 2:** First adopter or first follower. Where to start with artificial intelligence deployment

**Case 3:** Equipping for change. How to launch a successful enterprise-wide upskill programme

**Case 4:** Investing decisions. Is an investment in the digital twin of an existing production facility worth it?

18:00 | Close of Day 1 agenda

18:30 | Boat trip

19:30 | Evening reception
Day 2, June 5

09:00 | **Startup pitching competition - The game-changers in oil & gas**

7 startups, 7-minute presentations, 7 judges

In this session, you will hear about the latest innovation in oil & gas digitalization from startups. Each company has 7 minutes to prove to the panel of judges that their solution is a true game-changer in oil & gas.

10:10 | **Time for pre-arranged 1-2-1 meetings**

10:20 | **Hosted roundtable discussion (closed)**

11:00 | Networking break

11:30 | **Micro-lessons session - deconstructing the next big things in oil & gas digitalization**

*This session includes three high-level courses of 30 minutes on AI, Blockchain and emerging technologies and their potential impact on oil & gas companies*

**Lesson 1: Artificial Intelligence is shaking up the oil & gas industry, with a diverse set of use cases across the whole oil & gas value chain**

- What is artificial intelligence, and is it for your company?
- How has technology developed in recent years?
- How to identify and prioritize which AI projects to pursue
- How to build up in-house AI capabilities?
- Understanding the ethical framework and safety implications of AI

**Lesson 2: Blockchain - the promise of distributed networks and their first use cases in oil & gas**

- Understanding blockchain
- Blockchain in data sanitation
- Blockchain in supply chain transparency
- Blockchain in identification and security
- Blockchain in quality control
- Blockchain in land rights and ownership

**Lesson 3: Emerging technologies horizon - current stage, key technical challenges, approximate time frame, and opportunities for the industry**

- Asset performance management platform showcase - optimizing the performance, increasing reliability and availability, minimizing costs and reducing operational risks
- Field development and planning platform showcase - maximizing recovery with a deep understanding of reservoir
- Digital oilfield showcase - the benefits of a single environment to access different data silos
- Real-time data visualization software - enabling cross-site teams to collaborate, learn and improve overall performance
- IoT enabled asset-centric platform showcase - improve return on CapEx and OpeEx across assets lifecycle
- Digital Twin showcase - empowering system optimization and predictive maintenance
- Augmented reality showcase - improving workers’ safety and effectiveness
- Understanding the implications of 5G
- Understanding the implications of Quantum Computing
- Understanding the implications of AR/VR

13:30 | Lunch

14:30 Energy transition - rising to the new challenges of oil & gas with digital tools

- The role of data-driven technology in the energy transition. Understanding how digital technologies can contribute to reducing carbon emissions
- How to synergize investment in new technologies and energy transition
- The crisis of public perception is disrupting relations with big tech companies - how can we address this?

Discussion: Defining the role of digital transformation in the energy transition

- Investment in digitalisation and energy transition - mutually exclusive or complementary?
- How to align profitability and environmental incentives when investing in digital?
- Best practices for reducing environmental footprints with digital technologies

14:30 Artificial Intelligence (AI) - practical applications from the field. Solving large-scale business challenges

- Enabling artificial intelligence - the convergence of Big Data and High-Performance Computing (HPC)
- Applications of deep learning for geophysics: seismic acquisition, processing, interpretation and inversion
- Cutting drilling costs with AI - application of reinforcement learning in controlling drilling equipment
- Advancing predictive asset maintenance with Artificial Intelligence (AI) - reduced downtime and maintenance costs
- Artificial Intelligence (AI) for oil & gas production optimisation. Improving the reliability of well production forecasts

16:00 | Networking break

16:30 | Learning how to not fail with digital

Failure is an essential part of innovation. But it only works when the process of failure leads to learning. At conferences, we tend only to talk about success stories, and disregard our experience from failing with digital transformation initiatives.

This session aims to correct that. Three brave speakers + open mic + drinks reception = digital f*ck-ups night

17:30 | Conference close