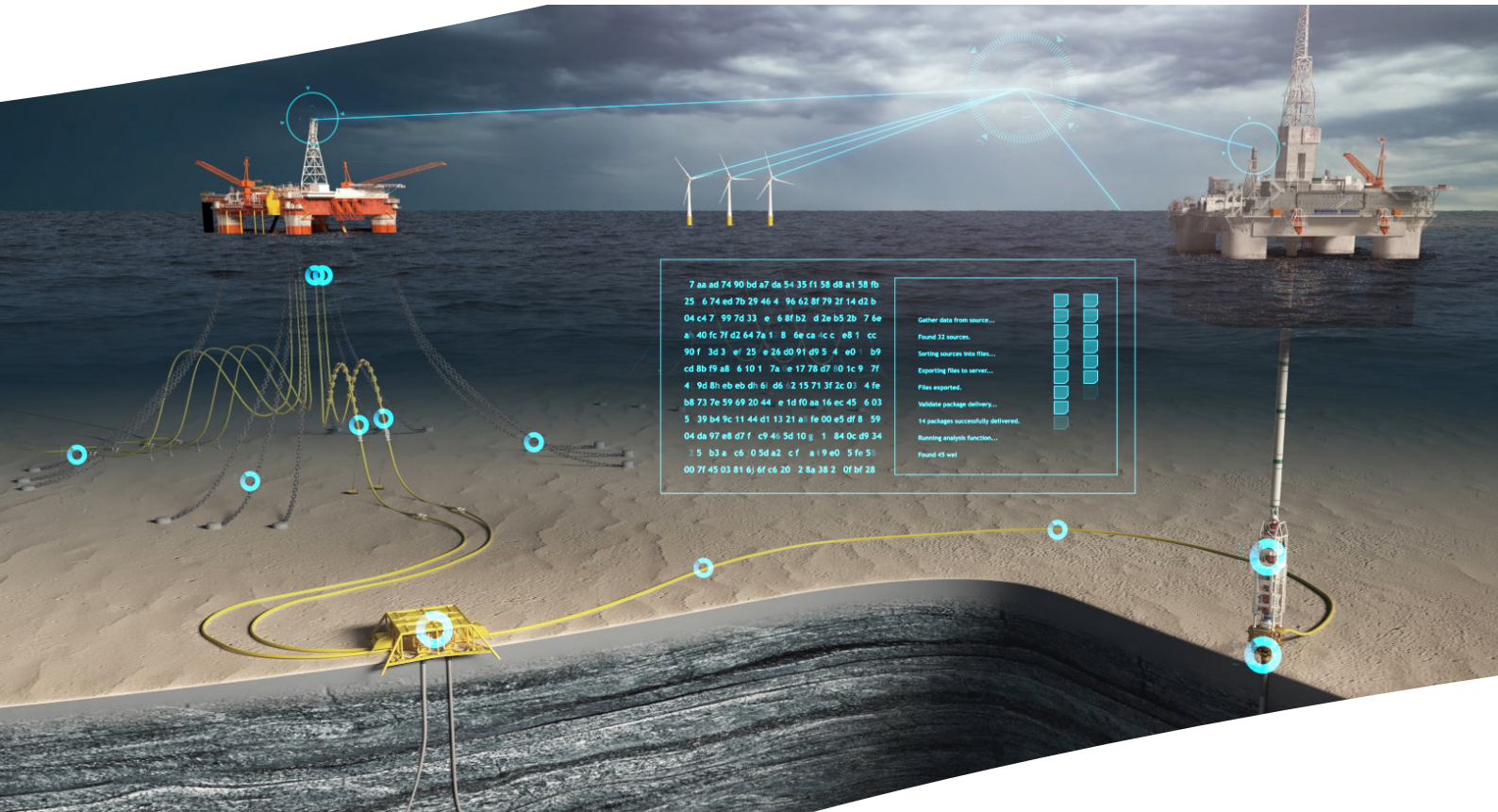*4subsea*

DataReservoir.io™

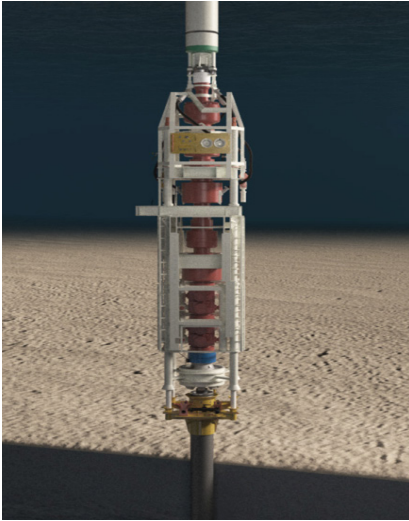## *Empowering your engineers with improved data anlytics*

Data is a strategic asset, and DataReservoir.io™ allows for seamless data access and sharing of time series data. This enables your engineering teams to focus on creating insight and value with improved analytics, an important edge in this data driven era of engineering.

4Subsea's digital service 4insight.io™ provides key decision support to onshore and offshore personnel for Oil & Gas and Offshore Wind operations. We deliver Digital Twins designed to help operators improve data quality and manage the owner-ship, security, sharing and use of data, while at the same time reducing operational costs and risk. With 4insight.io™ the operators can "know it before it happens" – and act accordingly, thus preventing costly repairs or production shutdown.

KEY BENEFITS

- Secure and safe – use your organisation's own authentication processes to access data
- Frictionless data access and sharing between team members in the organisation
- Understands many protocols and formats – one simple interface to interact with many data storage solutions
- Ensures consistent formatting across all your data
- Advanced Python API for native experience
- Comprehensive streaming & IoT support; OPC UA, AMQP, MQTT protocols supported out-of-the-box
- On-demand push/pull of data
- Basic REST API for advanced integration with other systems

Making DataReservoir.io™ Available for Engineering Teams

Many of our own digital products and services are already powered by DataReservoir.io™. We are now sharing this powerful solution with others who also believe in the value of data driven engineering. The engineering teams can work with and share time series data to create new insight and increased business value.

Analytics and Machine Learning Using Your Own data

With DataReservoir.io™ operators can ingest and store data generated from IoT devices on a user-friendly interface, and with access to in-house time series databases. DataReservoir.io™ also enables for analytics and machine learning projects using your own data. Furthermore, you can build both simple and advanced engineering processing pipelines using your own time series data.

Use Case #1 - Teams Without In-house Storage Solution

- DataReservoir.io™ collects and stores data from internal and external sources
- Team members can access data from all sources as soon as they are collected
- Team members can feed back new data to the DataReservoir.io™ and share their findings with other members.

Use Case #2 - Teams With In-house Storage Solution

- Large organisations with their in-house data collection and storage systems can still benefit from DataReservoir.io™
- Single point of integration for complex systems
- Use DataReservoir.io™ as a gateway and benefit from excellent Python APIs
- Your organization decides what to share – and with whom. Data ownership and governance stays with you!
- Team members can access data as soon as they are made available
- Team members can feed back new data to the DataReservoir.io™ and share their findings with other members

Use Case #3 - Streamlined Pipelines

- Collect data from any source and forward it to automated calculations
- Add value to data through your algorithms and methods.
- Your team of engineers have readily access to the same data
- Data can be manually interrogated immediately by your team of engineers
- New algorithms can be developed and fed back to your system

4subsea

4Subsea is a leading provider of technology and services that help operators optimise energy production from subsea oil & gas fields and offshore wind farms. We combine domain expertise with data analytics and digital services to maximise lifetime of assets, reduce operational cost and optimise future projects through data-driven design.

The company was established in 2007 and clients include the major energy operators as well as the large suppliers of subsea equipment. 4Subsea is headquartered in Asker, Norway with additional offices in Bergen, Kristiansand, Stavanger, Rio de Janeiro, and Aberdeen. 4Subsea is a company in the Subsea 7 Group. More info at www.4subsea.com.

4Subsea - Share ideas, move forward