

FlexTrack™

Full control over key data and the integrity status of flexible risers



Having well documented information at the right time can be the single most important issue in managing flexible line integrity. FlexTrack™ delivered on 4insight.io™ enables operators to have full control of their flexible line system as an easy-to-use digital service.

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 ownership, 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

- Easy access to both design and operational data, enabling better decision support
- Enables control of high risk failure modes through continuous processing of dynamic data
- Secures early warning of progressing failure modes with high confidence trending of performance indicators
- Gives valuable input to life extension
- Improves ability to make operational decisions quickly and confidently
- Ensures secure exchange of data between stakeholders
- Transforms information into insight through interaction with third party apps such as PowerBI and Python
- FlexTrack™ runs on the Microsoft Azure platform (PaaS), utilising Azure's scalability features to the full



Information Control for Better Decision Making

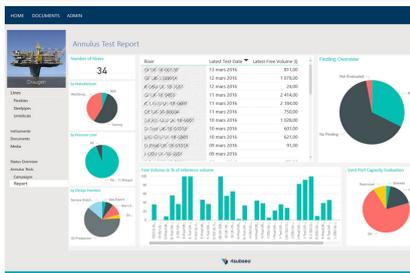
Integrity management of flexible lines and umbilicals involves several technical disciplines and sources of information. The data basis for the integrity status is often stored and managed out of context in different software systems, which makes the information scattered and inaccessible. As a result of this, status assessments are based on batch processing and review of data with 6-12 months' delay between evaluations.

Live Data Management

We believe that having well documented data managed in a context based and live system can be the single most important issue in demonstrating integrity. That is why we offer **FlexTrack™** as part of our services. The solution has been actively used by 4Subsea on all integrity management projects since 2008 and is central for e.g. Shell Norway to keep track of their flexible pipe system.

Key Features

- Interactive field layout
- Intuitive and context based dashboards powered by Microsoft PowerBI embedded
- Provides Annulus test dashboard, PA11 calculator, fatigue calculator, and weather on site information
- Live pressure and temperature data for the lines
- Historic timeline for the assets
- Utilisation of 4Subsea's digital services federation as secure access within the organisation (already in use by Shell, Statoil, GE, FMC, Sintef, and Aker-Solutions)
- FlexTrack™ runs on the Microsoft Azure platform (PaaS), utilising Azure's scalability features to the full



"In this solution we have access to technical information and expertise when we need it, since the engineering expertise is built right into the system"

Senior Subsea Engineer Arild Nybø, Shell



4Subsea is a leading provider of technology and services that help operators maintain production from subsea oil and gas fields and offshore wind farms. By combining expert engineering competence, practical experience and a digital service, we ensure the integrity of assets all the way from reservoir to deck.

The company was established in 2007 and clients include all the major oil and gas operators as well as the large suppliers of subsea equipment. 4Subsea is headquartered in Asker, Norway with additional offices in Bergen, Kristiansand, Stavanger, Macaé, and Rio de Janeiro, and with local presence in Aberdeen and Perth. More info at www.4subsea.com.

4Subsea - Share ideas, move forward

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