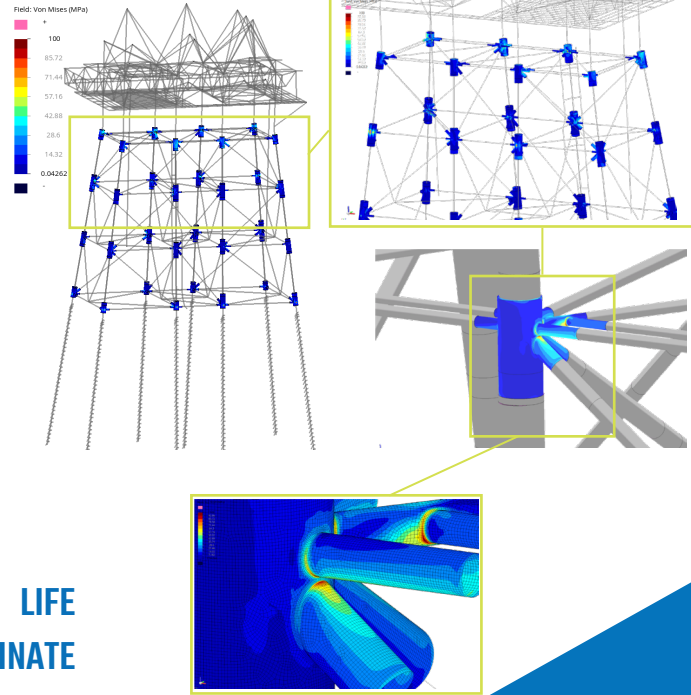




ROYAL DUTCH SHELL: UNLOCKING 20 YEARS OF STRUCTURAL CAPACITY FOR SHELL OPERATED ASSET IN THE NORTH SEA.



“AKSELOS GIVES ESSENTIAL INSIGHTS IN EXTENDING ASSET LIFE FOR FIXED PLATFORMS IN THE UK SECTOR. ITS ABILITY TO ELIMINATE CONSERVATISM IN A TIMELY MANNER, IS EXPECTED TO HELP EXTEND OPERATIONS OF OUR PLATFORMS IN THE NORTH SEA BEYOND THE YEAR 2035.”

Shell Structural Integrity Lead

THE CHALLENGE

Shell operated assets are situated in the UKCS Southern North Sea (SNS). The challenge for Shell is to operate these fixed platforms beyond their original design life in a safe and sustainable way.

THE SOLUTION

Using Akselos Integra solution in collaboration with LIC Engineering and Shell Technical group, a digital twin was created of the platform.

The resulting model, provided an unprecedented level of understanding of the real structural life of the fixed platform. The Akselos software gives a new level of engineering diagnostics using a new physics-based approach to Finite Element Analysis that has come out of MIT Technology under exclusive license with Akselos.

ASSET TECHNICAL INFORMATION

- 📍 Location: Southern North Sea
- 🏭 Production: Oil & Gas
- 🕒 Age of the asset: 50 years
- 🕒 Predicted life extension: 20 years

SOLUTION BENEFITS

- 🛡️ Safe Asset Life Extension
- 🔧 Optimized inspection and maintenance
- ⏸️ Reduce unplanned downtime
- 🔍 Enhanced fatigue monitoring
- 🌐 [How Akselos unlocked +15 years of structural life](#)
- 🌐 [Shell Ventures and Innogy Ventures back Akselos' technology with \\$10M investment](#)