



Decommissioning for Southern North Sea Asset

Asset Visualisation | Case Study



Introduction

This case study examines how a leading oil and gas company utilised asset visualisation to enhance its decommissioning strategy.



Traditionally, decommissioning planning relied heavily on technical drawings, field maps, and spreadsheets to visualise assets and plan removal operations. However, these conventional methods often fell short in providing a comprehensive and intuitive understanding of the infrastructure and its interdependencies.

In response to the limitations of traditional planning methods, a leading oil and gas operator in the Southern North Sea, embarked on a project to enhance their decommissioning processes through asset visualisation.

The goal was to leverage the visual asset data to create a digital twin of their offshore asset, enabling offshore and onshore stakeholders to gain a deeper insight into the infrastructure and optimise decommissioning plans.

By leveraging asset visualisation, operators can optimise planning, improve safety, and achieve cost-effective decommissioning outcomes.

As assets reach the end of their operational life cycle, companies must efficiently plan and execute decommissioning activities while complying with regulatory requirements.

As the industry continues to evolve, asset visualisation is poised to play a central role in shaping the future of offshore decommissioning operations.



Project Overview

Asset:

**Un-manned satellite platform,
in the Southern North Sea.**

Project description:

Decommission the asset.

Purge existing piping and equipment, remove the topsides using a Heavy Lift Vessel, along with the removal of the jacket and subsea installations before abandoning the well.

Proposed solution:

Full asset data acquisition.

- ✓ **The survey was carried out by 1 surveyor**
- ✓ **Over a 2 day trip to the asset**
- ✓ **Delivered within 1 week to the client**

Project Outcome

The visual data provided by ZynQ 360 allows stakeholders to **identify any hazardous areas on the platform, identify equipment for removal and recycle, and plan job tasks before visiting the platform.**

Collaboration with external stakeholders and vendors is improved through easy access to the visuals and data within the ZynQ visualisation software.

By adopting ZynQ, our client was able to:

- Reduce travel to the asset
- Reduce PoB
- Plan offshore work campaigns (improve project execution and planning)
- Improve cost control
- Improve safety and reduce the risk of potential incidents
- Contextualise siloed asset data and information by bringing it together into one centralised, trusted platform
- Reduce their carbon footprint

zynq



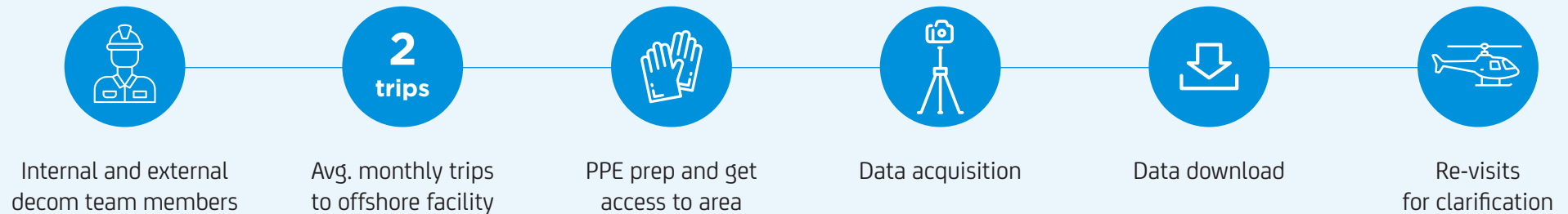
Our mission is to drive digital transformation for organisations by enabling you to visualise your assets and contextualise your data.

More effective processes lead to optimised outcomes

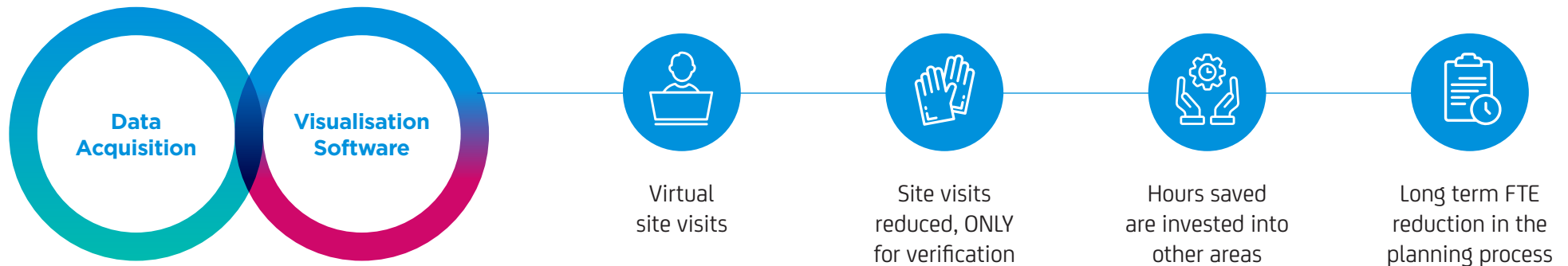
After creating a visual twin of their offshore asset with the acquired data, our client used ZynQ visualisation software to **enhance stakeholder insight** and **improve decommissioning planning**.



Client process before asset data acquisition and visualisation:



Client process after ZynQ 360 data acquisition and utilising ZynQ software:



Achieving cost and carbon savings through reduced offshore trips

By reducing offshore trips to their Southern North Sea asset, our client reported significant savings in time, cost, and carbon emissions.

Adopting the ZynQ visualisation software enabled them to plan more effectively, enhance workforce safety, and expedite project completion.

Cost savings

£15.67K
per trip

£376K
per year

Carbon savings

1.25 tonnes
of CO₂
per trip

30 tonnes
of CO₂
per year

£1K
in carbon costs
per year

Figures are based on 24 helicopter trips per year, each of 2.5 hours at an average rate of fuel burn, at 2024 carbon price of £43.45 per tonne.



Improve performance and profitability through asset visualisation

Utilising asset visualisation significantly enhances the effectiveness of operational planning.

By providing a comprehensive visual representation of your assets, it allows for more precise identification of project needs, facilitates better risk assessment, and improves the coordination of resources and tasks.

This visual approach ensures that all aspects of your procedures are clearly understood, leading to more informed decision-making and efficient execution.





**Innovative Digital Solutions
to Visualise your Asset**

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