



Statoil

FFU Seminar 28 January

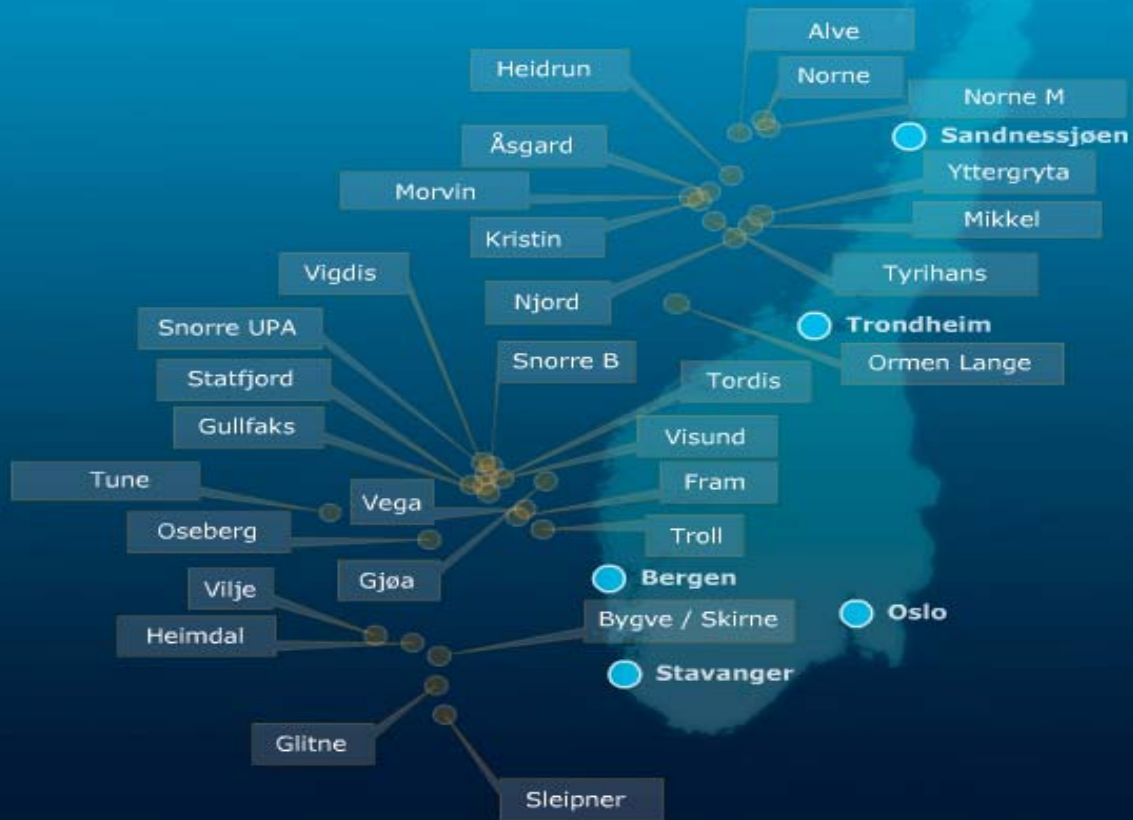
Januar 2011

Subsea Operations w/Ove Kallestad

Subsea Introduction

SELECT THE FIELD YOU WANT TO EXPLORE

 Information

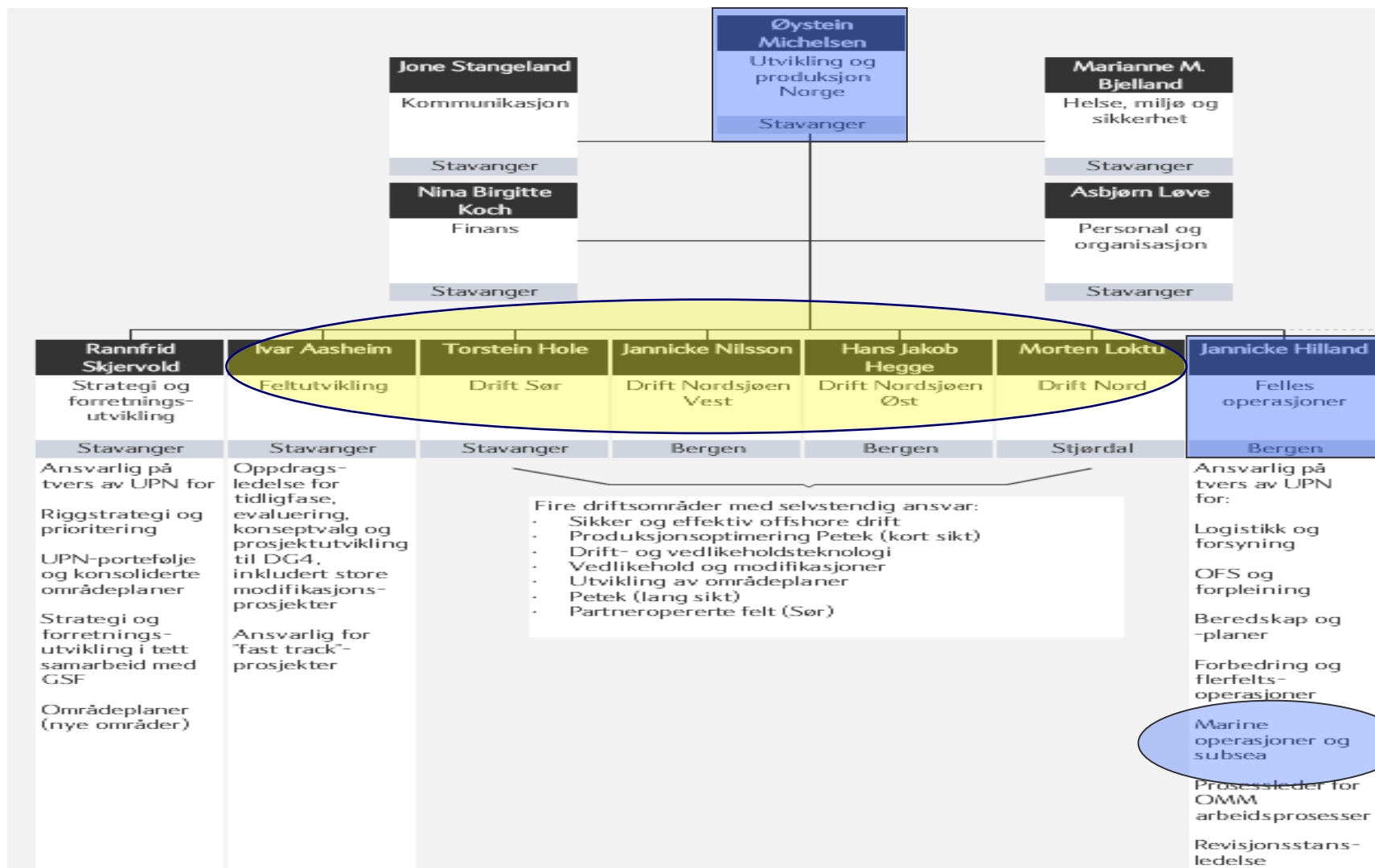


Q Well - USA



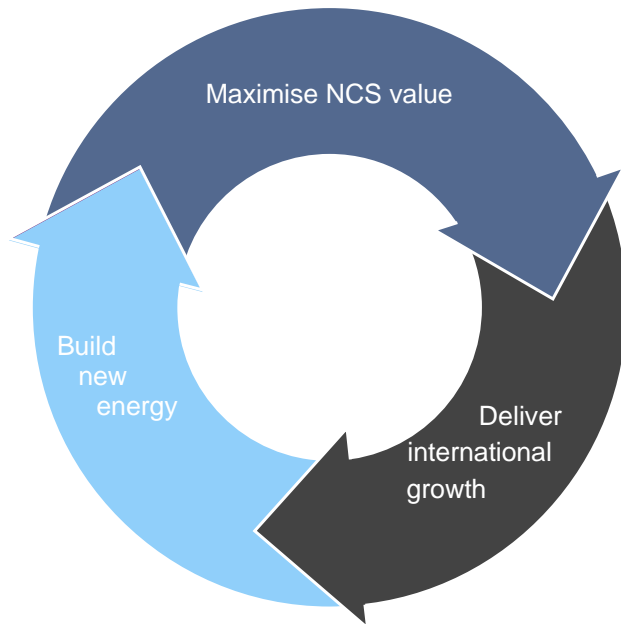
Lufeng - China

Organisasjonsstruktur Utvikling og produksjon Norge



Our strategy for continued growth

Business strategy



Growth themes

Gas value chains

Longer



Deep water

Deeper



Harsh environments

Colder environment



Heavy oil

Colder processing



Positioning to meet future challenges



Åsgard Minimum Flow (Midgard)

Working actively with our license partners to realise a subsea wet gas compression solution



Gulfaks 2030

Start-up of wet gas compressor testing at Fusa this summer

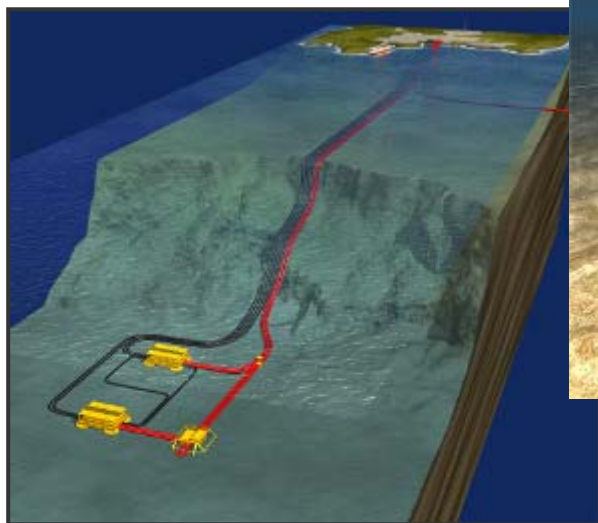


Flow and separation conditions for heavy oil

Large scale test facilities ready for start-up early 2011 for Peregrino and Mariner/Bressay

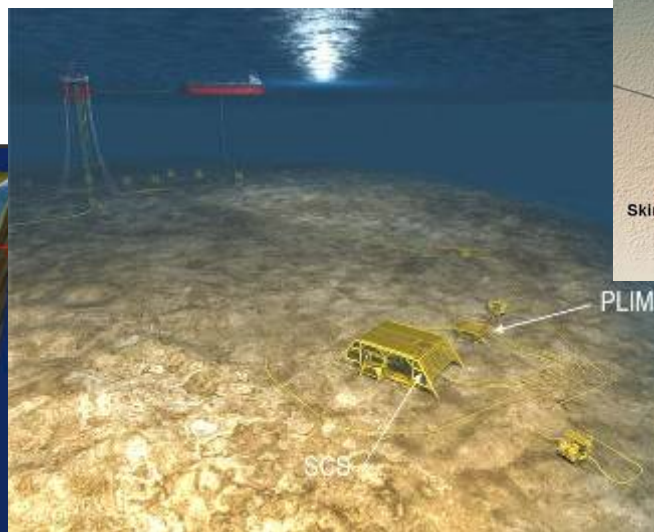
Subsea compression

Positioning to meet future challenges

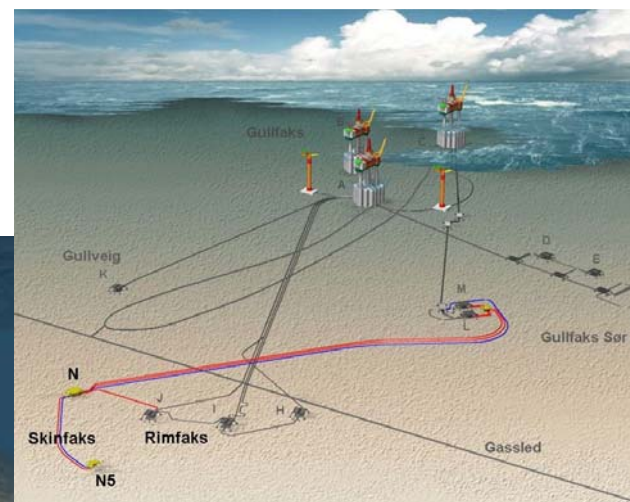


Ormen Lange

Operated by Shell



Åsgard



Gullfaks 2030

What are the alternatives?

Fixed platforms



Floating systems



Subsea to shore



Cost reduction and more efficient operations



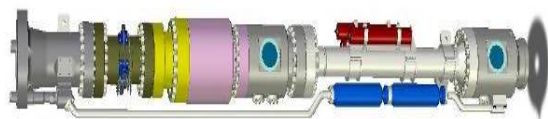
Light well intervention vessels

Potential to reduce cost of well intervention work by 50-70%



Through tubing rotary drilling

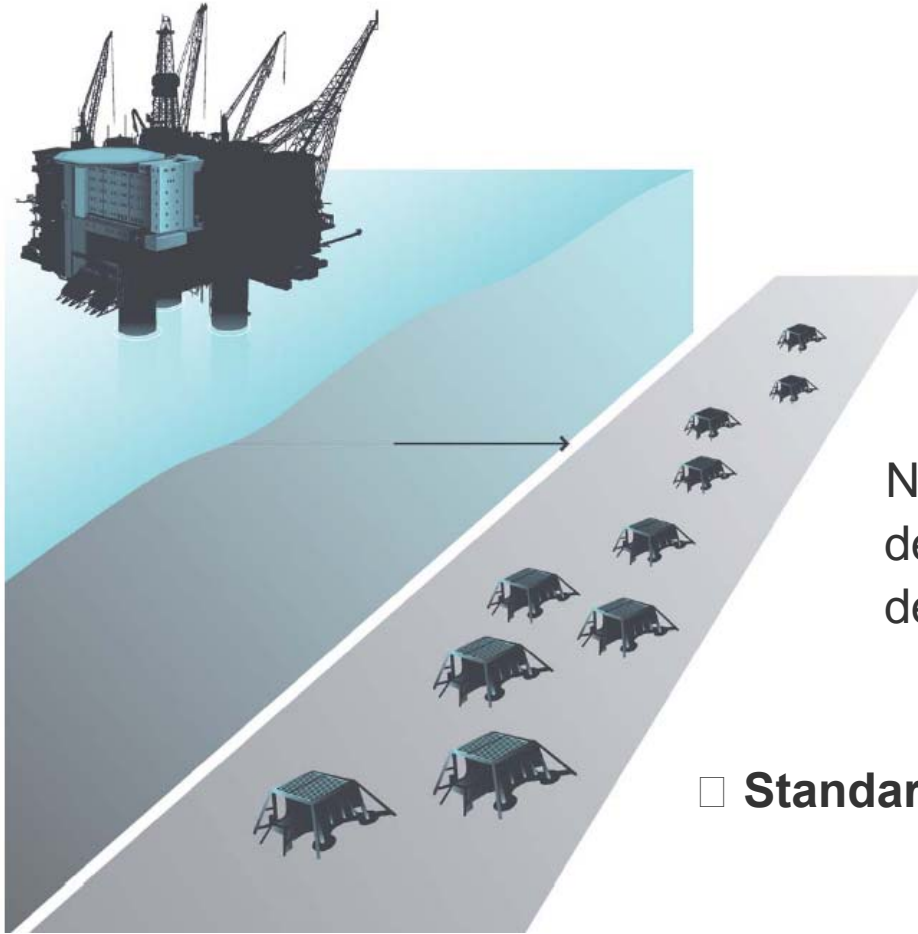
Improves oil recovery from subsea fields and reduces costs



Category B

Increased and accelerated production from subsea wells

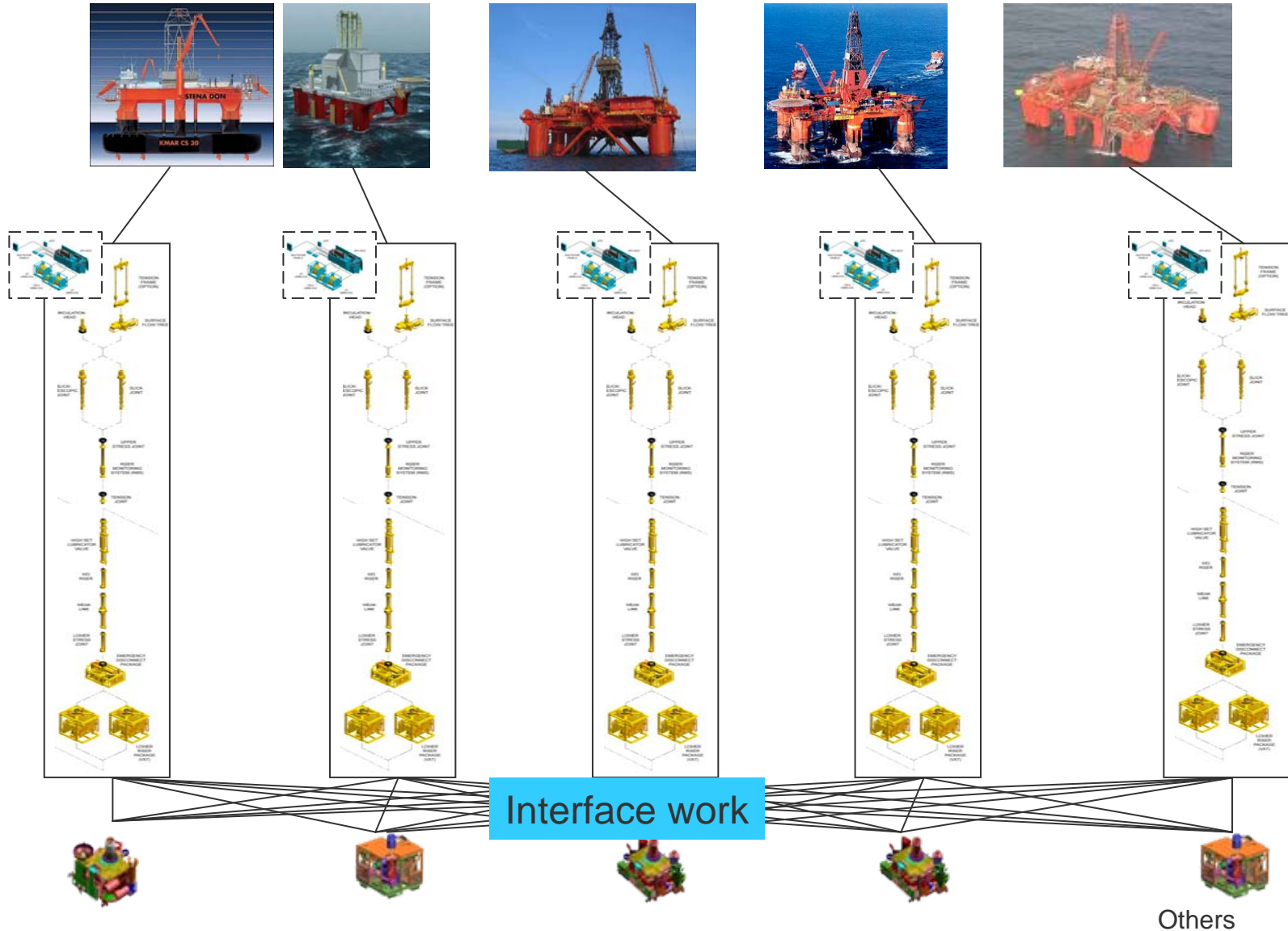
From customisation to standardisation



Need for industrialised field development processes for profitable development of marginal fields

- **Standard catalogue for field developments**

Potential future NCS - Several rigs – one type tool



Statoil's technology strategy



Best subsurface visualisation



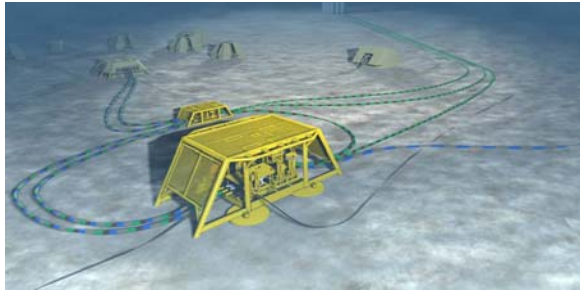
Maximise recovery by locating bypassed oil



Advancing oil sand recovery



The future of drilling



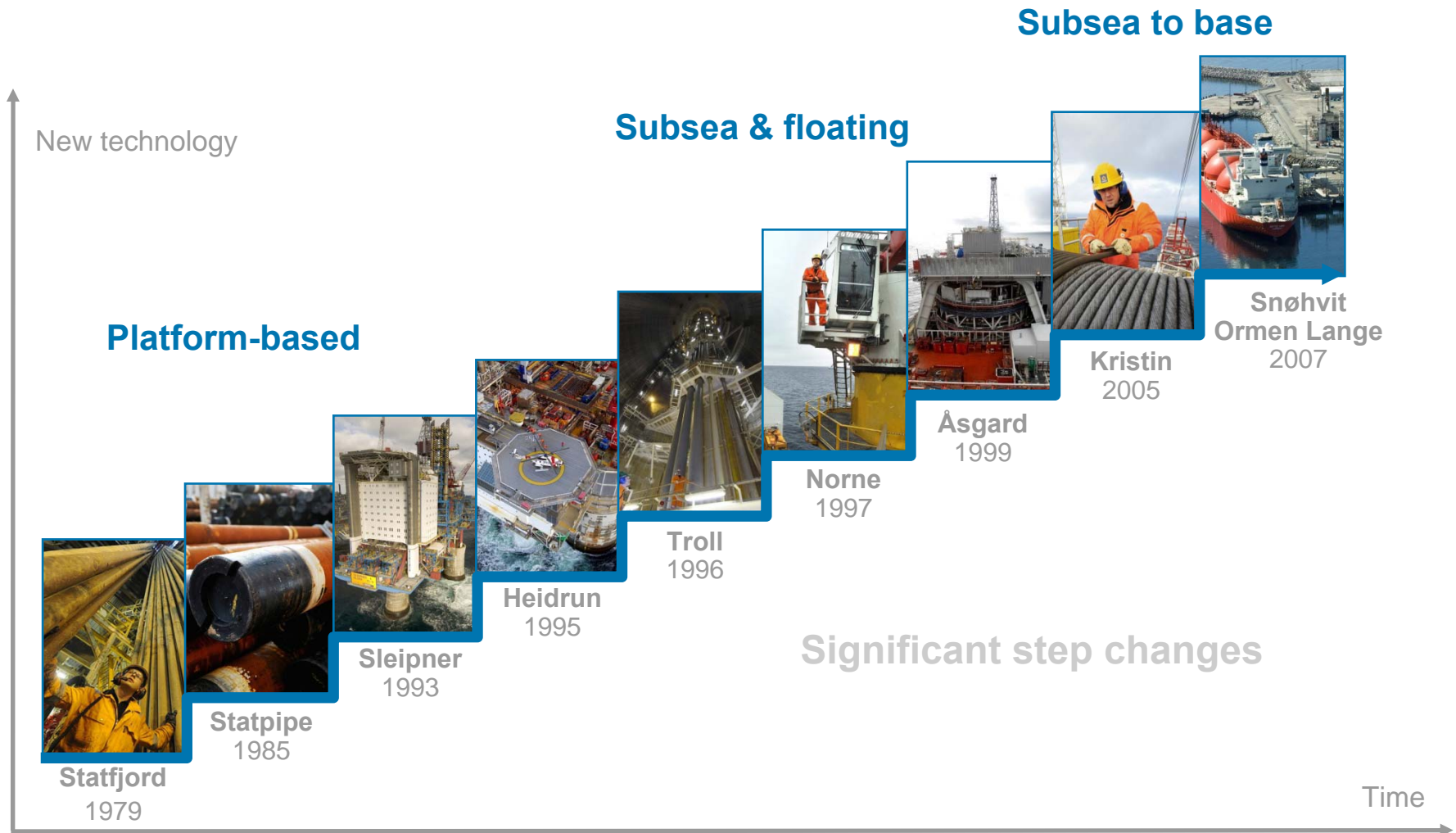
Extending subsea technology



Pioneering carbon dioxide management

North Sea Technology

A 25-year history of technology implementation



Building growth in a challenging environment

Industry trends

- The days of easy barrels are over
- Challenging resource access and increasing complexity
- Many remaining energy sources exist in harsh environments
- New techniques and technologies required for exploration, drilling and production

Growth themes

Gas value chains



Deep water



Harsh environments



Heavy oil

