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Maximising value from the NCS

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Innovation

Subsea technology - enabler for growth



1986
Gullfaks
First subsea
short oil
wellstream
transfer



1999
Åsgard
Complex
subsea
development;
advanced
flowline
concepts



2006
Kristin
High pressure,
high
temperature



2007
Tordis
Subsea water
removal &
injection, oil &
gas boosting



2007
**Ormen Lange /
Snøhvit**
Long range
subsea to shore
in deep / "arctic"



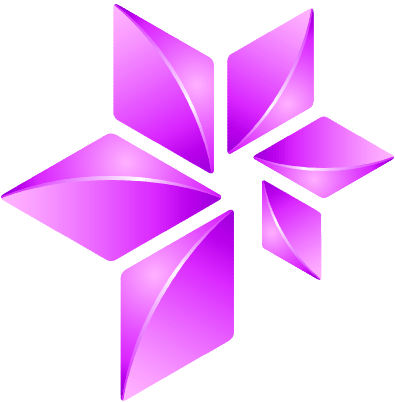
2009
Tyrhans
Subsea raw
seawater
injection



2011
Åsgard
Subsea gas
compression

*beslutningsdato

Congratulations, Pectoro!



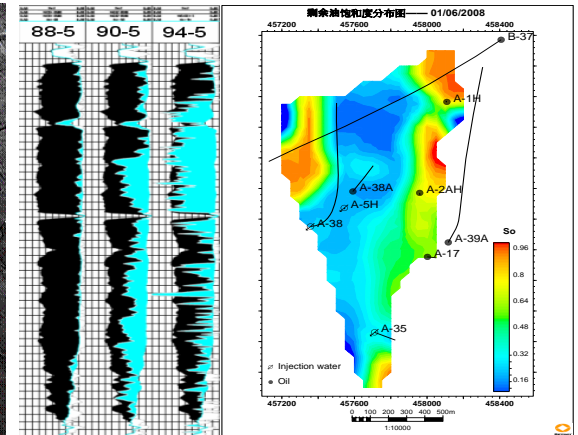
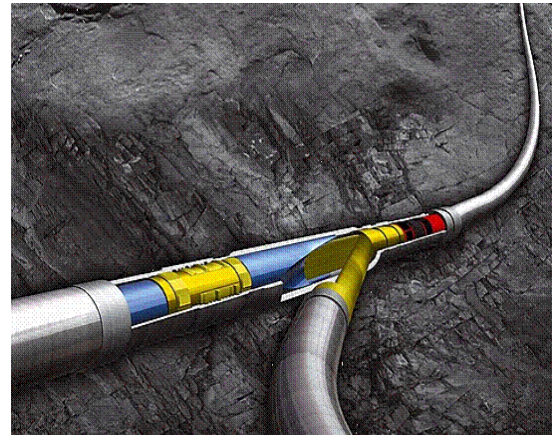
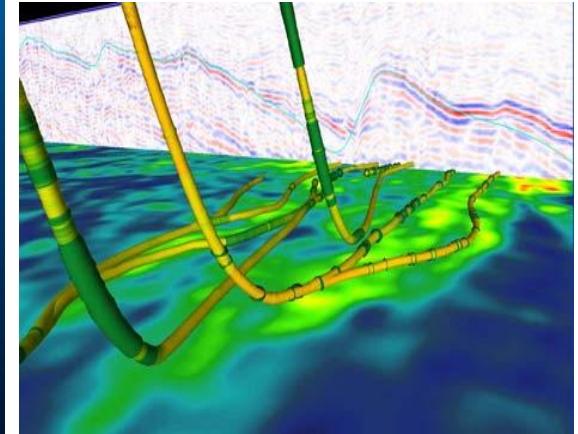
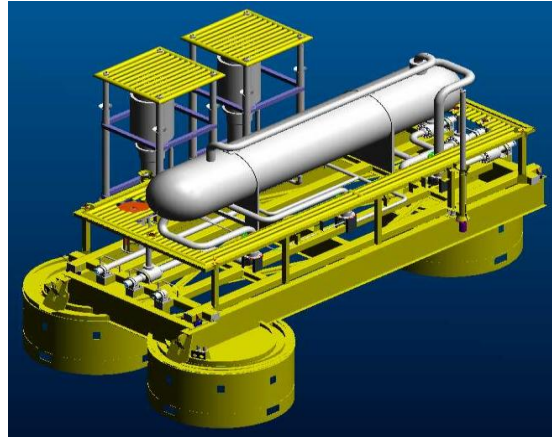
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Increased recovery

– examples of ongoing technology development

- Compression
- Permanent 4D seismic
- Drilling
- Well interventions
- Low salinity pilot at Heidrun
- Flow diversion pilots at Heidrun, Snorre and Gullfaks



Category A and B - Increased recovery from subsea wells



Ambition:
Increase subsea
recovery



Category A



Category B

Fast track project development

- Earlier production – reduced costs
 - 50% reduced development time and 30% reduced costs for sub sea installations
- 5 projects in production next 2 years
- New production from ongoing projects ~70.000 boe/d i 2014

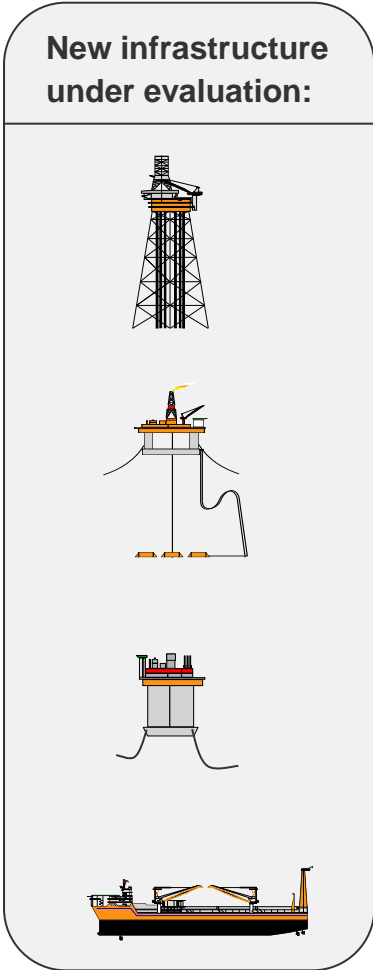
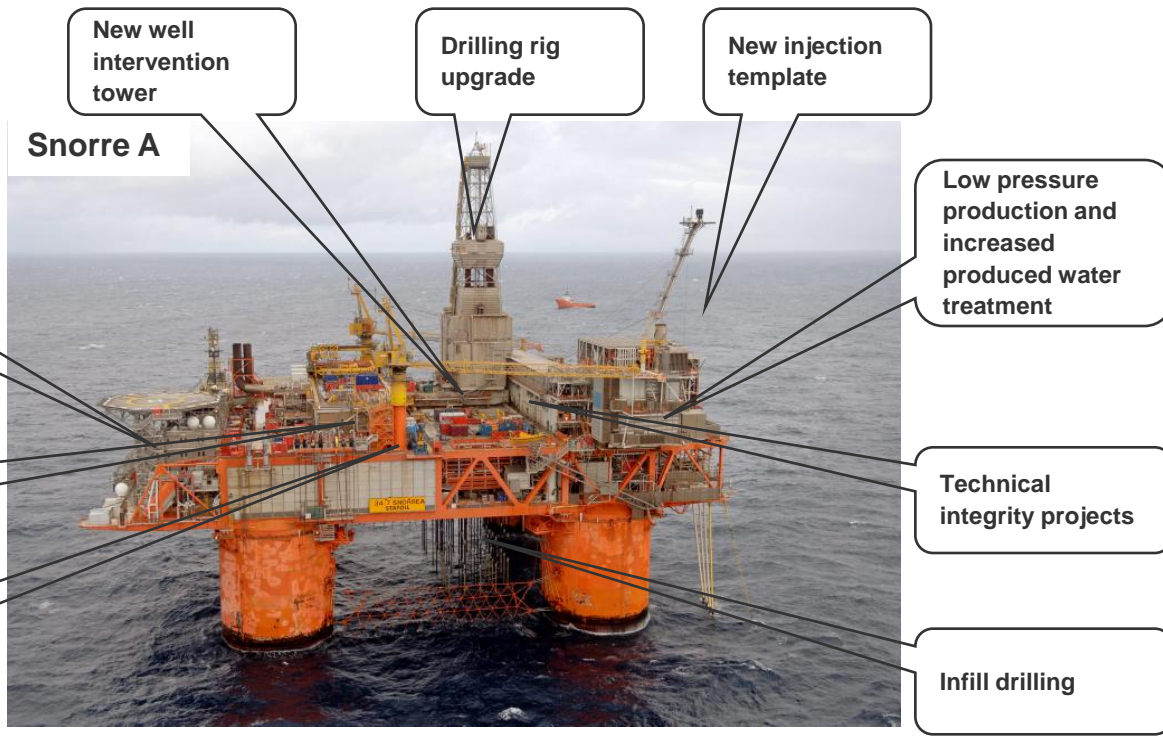
Fast track projects

Smørbukk NØ (2010)	Katla (2011)
Visund Sør (2011)	Visund Nord (2011)
Vigdis NØ (2011)	Vilje Sør (2011)
Hyme (Gygrid) (2011)	Gamma/Harepus (2012)
Fossefall/Dompap (2011)	Snorre B Template (2012)

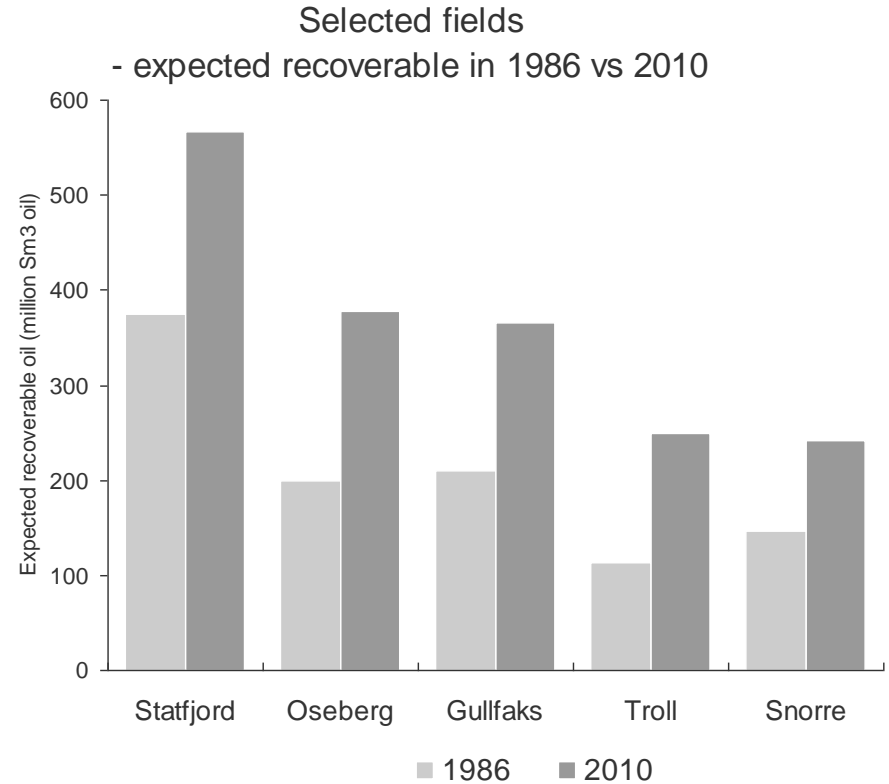
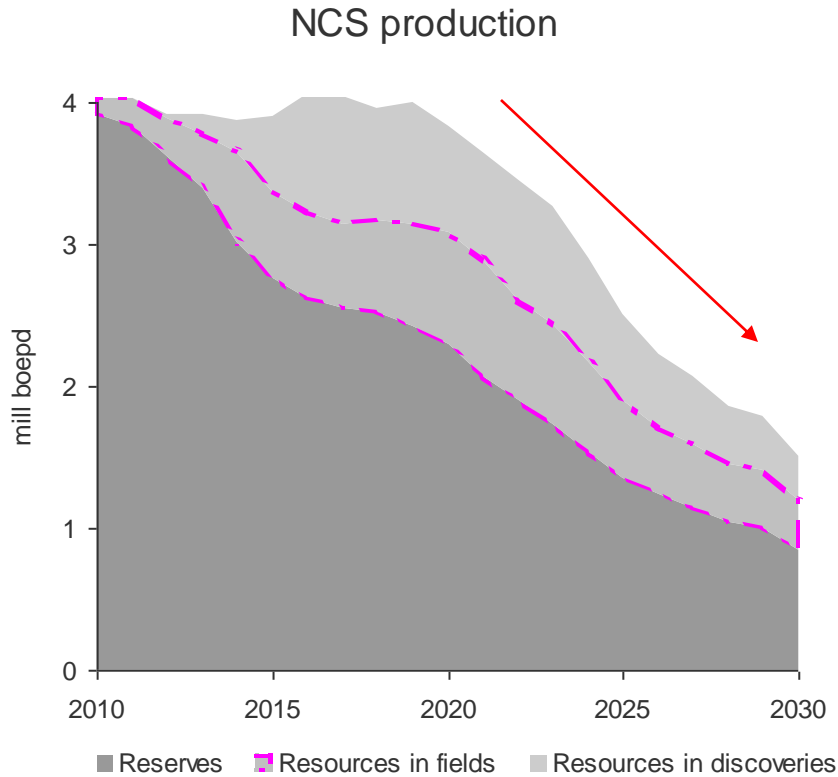


Developing and making Snorre robust in a 2040 perspective

- executed and planned projects for improved HSE and increased recovery



Increased recovery is important, but not sufficient



Source: NPD

Thank you

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SVP DPN

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