



Longer, Deeper, Colder

– Technology as an enabler for growth

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# Longer, Deeper, Colder

- Technology an enabler for growth







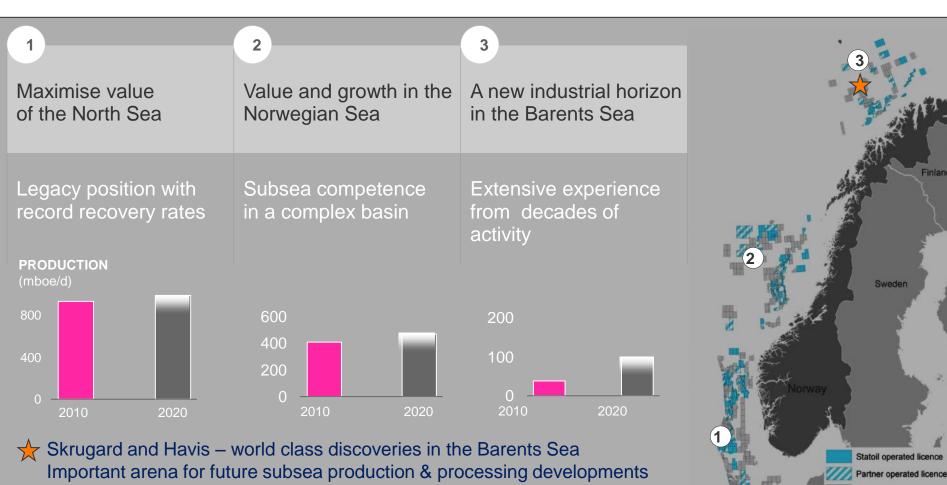


## A technology focused upstream strategy



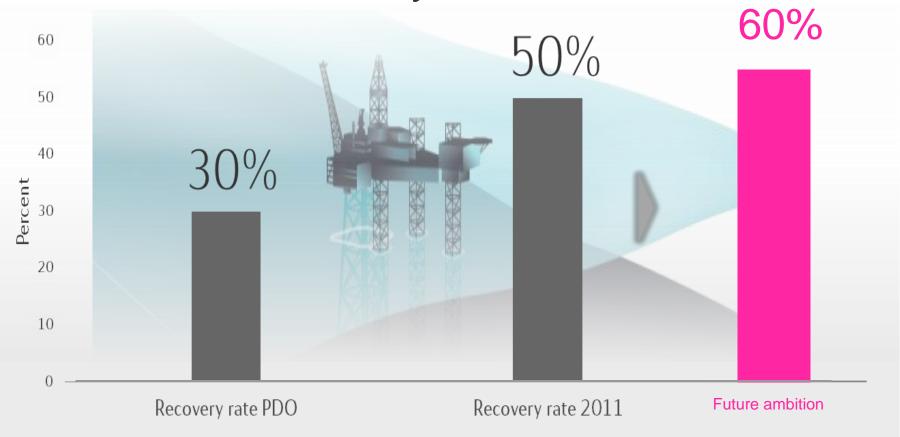


## Revitalising the NCS with high value barrels





## World class oil recovery rate



Average for Statoil's operated fields on NCS PDO: Plan for development and operations



## Cat B – The recovery machine

- Optimised for heavy intervention and light drilling in existing wells
- Developed to improve oil recovery
- Increased cost and time efficiency
- Integrated third party services





# Asgard subsea compression

#### Value creation:

Increased recovery from Midgard and Mikkel estimated to 280 Mboe

#### Technology step:

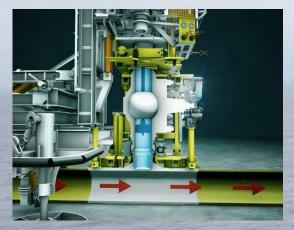
Substantial recovery and lifetime increase for other technology users (gas fields)

Courageous decision:
Pioneering work aiming at subsea factory

Illustration: Aker solutions



# Hot-tap operation





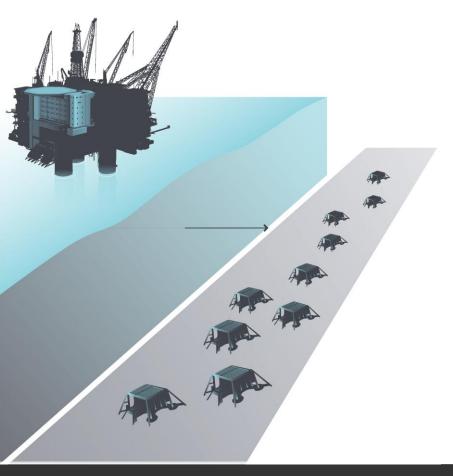
- · World record for Asgard subsea compression
- Installation of retrofit hot tap tee on Midgard pipeline with full gas flow
- Technological breaktrough with great savings potential for Statoil





### Accelerate production and reduce cost

#### Subsea standard catalogue



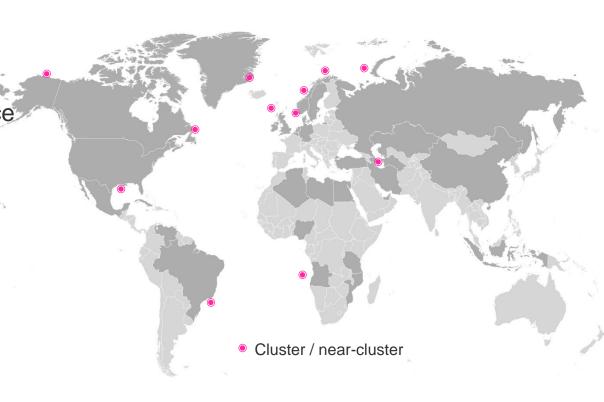
- Standardised to meet fast-track project schedule requirements
- Configurable from "bare bone" to "high functionality" solutions
- Cost effective to enable development of marginal fields
- Based on proven technology to reduce project risk
- Compliant with technical requirements



# Build material positions in 3-5 new offshore business clusters\*

Achieve materiality over time

 Below ground excellence and above ground governance





<sup>\*</sup>Cluster is an integrated business system with a portfolio of assets in a geographically confined area

#### **ANGOLA**

## A key growth platform for Statoil

#### Track record



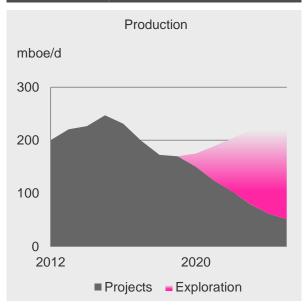
- Around 20 years of operation
- Partner in seven producing fields
- 1/3 of our international output
- Approximately 200,000 barrels of equity production per day

#### 2011/2012 delivery



- · Pre-salt exploration acreage access
- Pazflor start-up and ramp-up
- Kizomba Satellites start-up
- CLOV field development
- PSVM

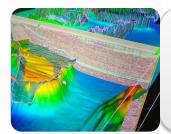
#### Long term materiality



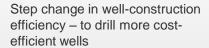
- · Attractive exploration acreage
- Execute on the Kwanza pre-salt potential
- · Secure rig capacity
- Drill ready prospect
- · Build operator organization

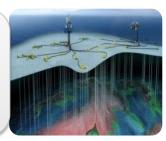


# Statoil's focused technology efforts



Leading in seismic imaging and interpretation – to increase discovery and recovery







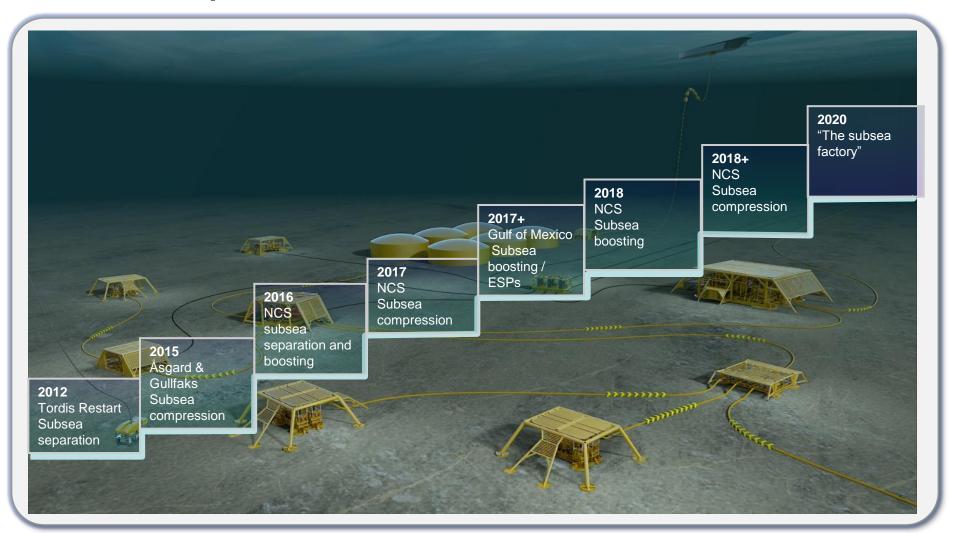
Pushing reservoir characterisation and recovery to the next level – to maximise value

Taking subsea longer, deeper and colder – to accelerate and increase production





# Roadmap for the future



Statoil



