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Statoil - Research and Technology (R&T)

Fabiano Lobato

Statoil

Shaping the future of energy

Competitive at all times

Transforming the oil and gas industry

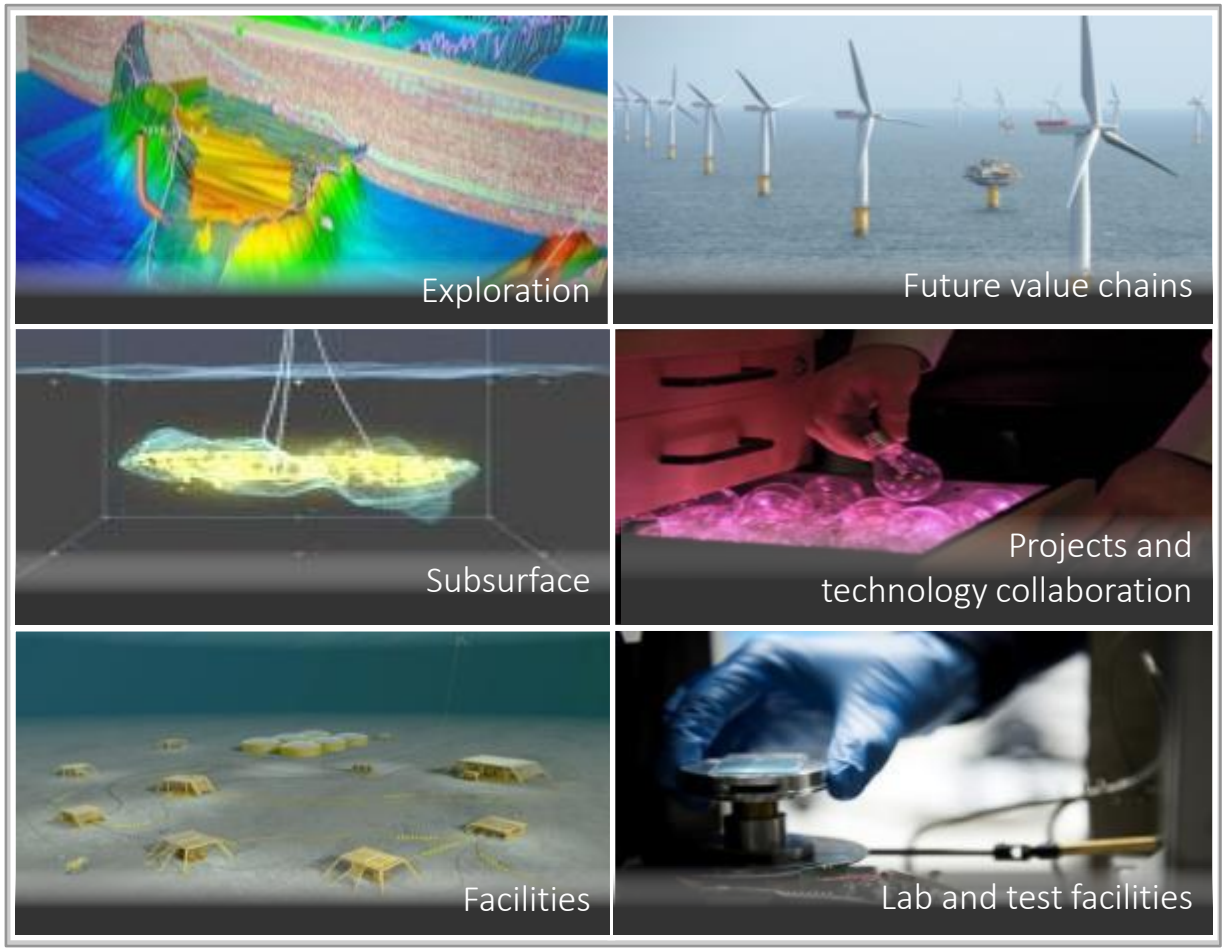
Providing energy for a low carbon future

We deliver

- Research and technology implementation

- Technical services
- Specialist advisory services

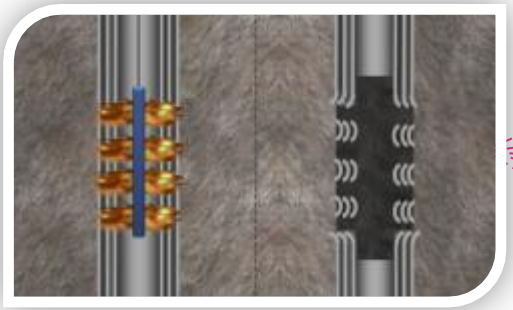
Research and technology areas



Shaping the future | Innovate and accelerate

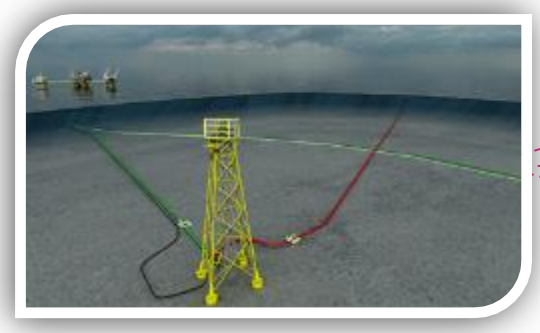
- Simplify and standardize to stay competitive at all times
- Radical and innovative solutions to transform the industry
- Technologies to provide energy for a low carbon future

Plug and abandonment: Explosives and termite



Statfjord
Oseberg
Gullfaks
Troll
…

Unmanned production platform and subsea boosting & compression



Åsgard late life, Snøhvit
Tyrihans, Norne
Grane Nord, Krafla

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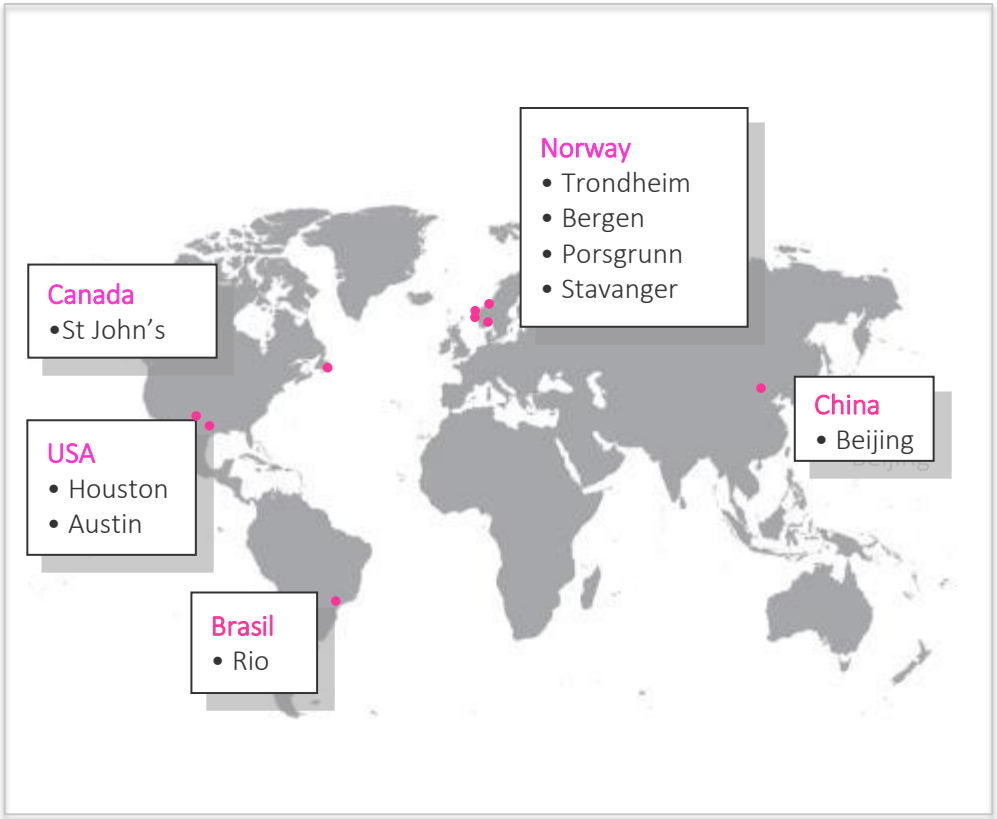
Global research with high activity in Norway



- 2016 Research and development activity level: NOK 2.7 billion
- Ambition: ~50% used externally with academia, research institutes and suppliers

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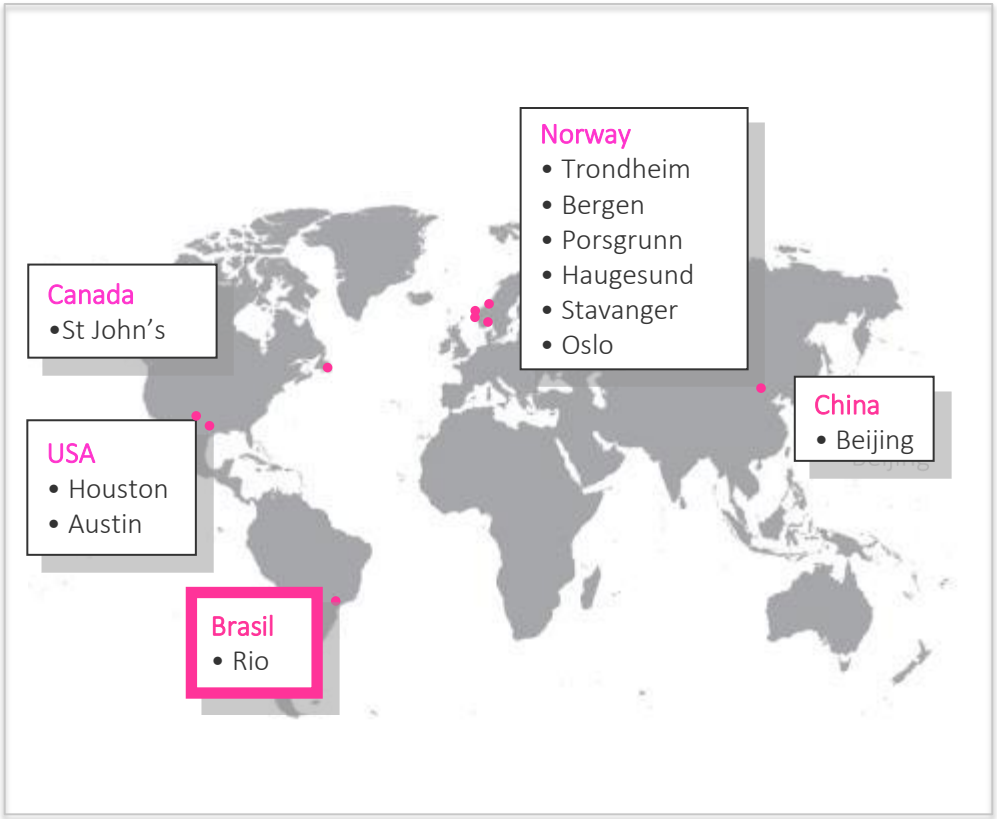
Global research with high activity in Norway



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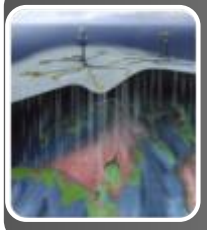
Statoil´s Research Center Rio Strategy

Exploration

Exploration and Reservoir Characterization

Subsea

Deep Water Subsea Factory

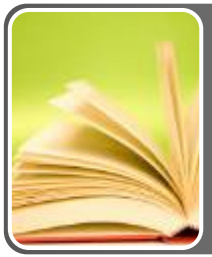


IOR/EOR

Oil Recovery for Heavy Oil and Mature Fields

CO2 Management

Air Emissions and CC(U)S



Special Projects

Educational Program and Industry Development

DEFINING

The Subsea Factory

Factory building blocks

BROWNFIELD FACTORY
FOR INCREASED RECOVERY

SIMPLIFIED BOOSTING | SIMPLIFIED COMPRESSION | WATER SEPARATION & INJECTION | POWER DISTRIBUTION | INTERVENTION

SUBSEA-TO-HOST FACTORY
FOR DE-BOTTLENECKING

SUBSEA FIELD CENTRE | GAS TREATMENT | SEA WATER INJECTION & TREATMENT

EXTENDED REACH FACTORY
FOR LONG TIE-BACKS

LONG DISTANCE OIL TRANSPORT | HIGH CAPACITY BOOSTING

DEEP WATER FACTORY
TO ENABLE 3000m PRODUCTION

ARTIFICIAL LIFT | COMPACT SEPARATION | DEEPER INSTALLATION & IMR** | DEEP WATER RISERS | DEEP WATER PIPELINES

R&T Focus in Brazil

** IMR – Inspection, maintenance and repair

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Collaboration

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Closing Remarks

- Strong business cases
- Optimization and cost efficiency solutions in new projects
- Collaborative environment and maximize standardization
- Short term implementation
- Local content creation

Thank you

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