



# Sustainable Business Concepts in Subsea

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GCE Ocean Technology 18.02.2021

# Company profile

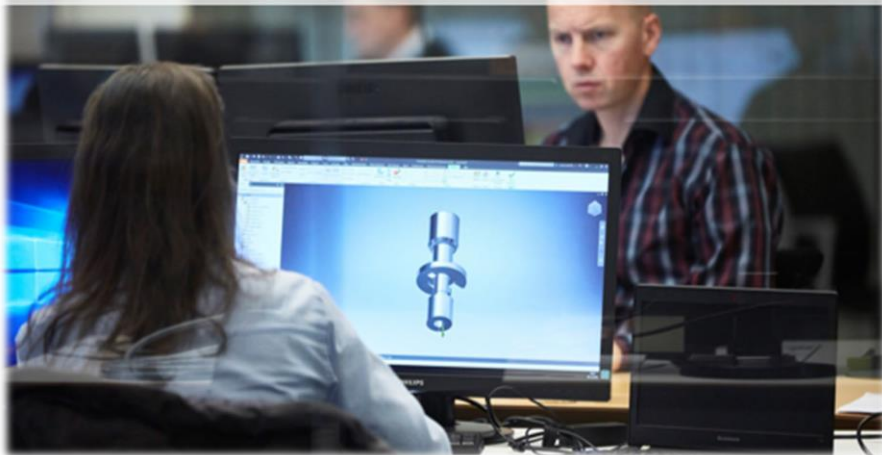
CCB Subsea was founded in 2016 as a system-independent supplier of Subsea & Drilling services to O&G operators and rig owners

- 40 employees; Man/adm, Engineers, Supervisors and Mechanics
- Management team and Sr. Subsea Engineers with operator experience
- Main office and workshop at Ågotnes
- Workshop facilities along the coast:
  - Vestbase, Florø
  - Vestbase, Kristiansund
  - Helgelandsbase, Sandnessjøen
  - Polarbase, Hammerfest
  - Kirkenesbase, Kirkenes



# Services

Engineering & Design



Maintenance, testing, modification, fabrication & rental



Studies



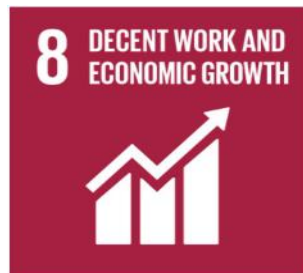
Subsea supervising & Offshore Operations








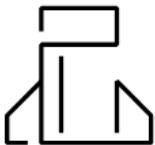
# Business Development

- Sustainable development is a key driver for businesses
- Opportunities with new technology
- Changed customer preferences

CCB Subsea's sustainability goals:



# Identity

Kategori	Differensiering	Identitet
<p>Hva vi er</p> <p><b>Ocean Tech and Services</b></p>	 <p><b>DET UNIKE</b>  Det viktigste kjøpsargument  BÆREFRAKTIGE LØSNINGER VED GJENBRUK OG DELING  PÅ TVERS AV SYSTEM (OEM) OG EIERLISENS/OPERATØR</p> <ul style="list-style-type: none"> <li>• Innovasjon for gjenbruk av eksisterende utstyr ved re-komplettering eller på nye brønner/green field</li> <li>• Optimalisering for eksisterende felt/brown-field</li> <li>• Kompetanse og kapasitet til å utføre spesialprosjekter</li> </ul>	<p><b>Hvem vi er</b>  Hvilket forhold folk har til merkevaren CCB Subsea og viktigste grunnen til at folk ønsker å ha et forhold til oss</p> <p>Vi er:</p> <ul style="list-style-type: none"> <li>• Kompetent</li> <li>• Innovativ/kreativ</li> <li>• Lokal/CCB</li> <li>• Unge</li> <li>• Lean</li> <li>• Kort responstid</li> <li>• Levering på tid og kost</li> <li>• Disruptive</li> <li>• Fleksibel</li> </ul>
<p>Rolle</p>	 <p><b>DIFFERENSIERINGER</b>  Hva er sammenligningskriterier?</p> <ul style="list-style-type: none"> <li>• Tilbyr både til Subsea &amp; Drilling</li> <li>• Kosteffektiv</li> <li>• Innovativ</li> <li>• Multi-skilled / god ressursutnyttelse</li> <li>• Uavhengig, cross-vendor</li> <li>• Fleksibel og tilgjengelig (basene)</li> <li>• Skalerbar forretningsmodell</li> </ul>	<p><b>Vår 'brand' personlighet</b> (hvilke kundeopplevelser ønsker vi å skape?)</p> <ul style="list-style-type: none"> <li>• Spiller kunden god</li> <li>• Løsningsorientert</li> <li>• Utfordrer</li> <li>• Uavhengig</li> <li>• Samarbeidsorientert</li> <li>• Pålitelig</li> </ul>
 LEADER  CHALLENGER  PIONEER <p>Vår rolle innen kategorien</p> <p><b>CHALLENGER &amp; PIONEER</b></p>	 <p><b>HYGIENE FAKTOR</b>  Krav for hele kategorien</p> <ul style="list-style-type: none"> <li>• Profesjonell / seriøs</li> <li>• Kvalifisert, tilfredsstillende krav</li> <li>• Kvalitet / system</li> <li>• Effektive metoder</li> <li>• God informasjonsflyt – før, under og etter et kjøp</li> </ul>	<p><b>COMPETENT  CREATIVE  BALLPLAYER  SUSTAINABLE</b></p>

# Vision & Values



## VISION & VALUES

Our vision drives us in challenging the industry to focus on circular economy:

**MAINTAIN – SHARE – REUSE – UPCYCLE – RECYCLE**

With circular economy services at the core of our business, we are PIONEERS in our industry.

In CCB Subsea, we put our clients first and deliver on quality and time. We challenge existing solutions and use our innovative capabilities to develop more sustainable ones. We believe in success by cooperating closely with our clients and specialist partners. Developing disruptive solutions for a better tomorrow, makes us happy pioneers!

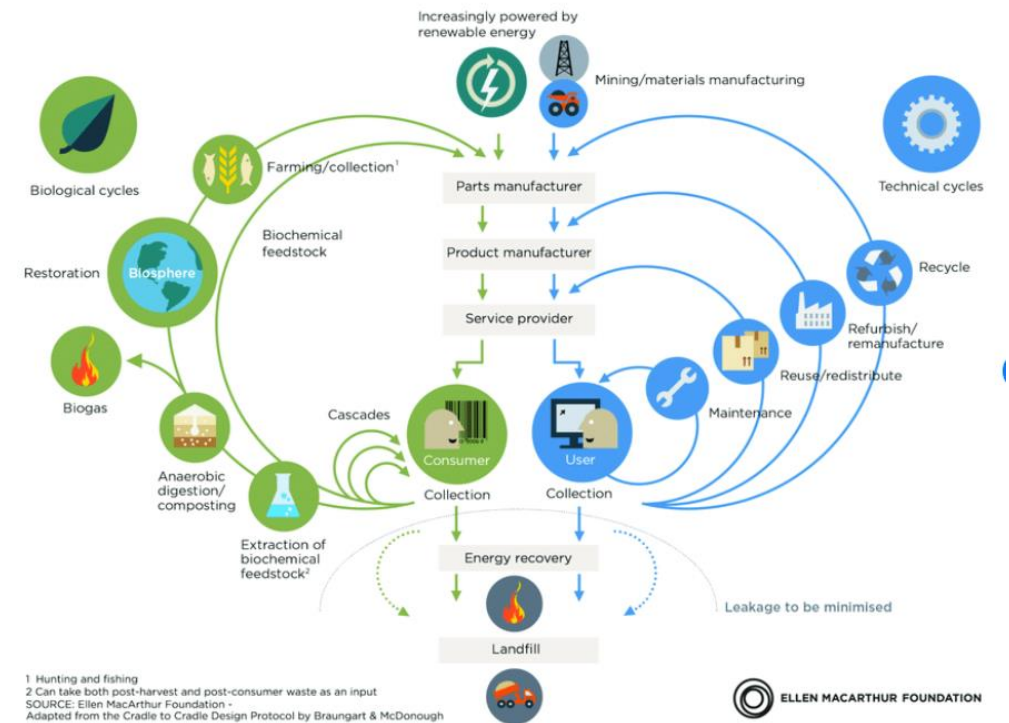
Finally, our people covers a diversity of skills, competence and personalities which makes us CCBS!

**COMPETENT – CREATIVE – BALLPLAYER – SUSTAINABLE**

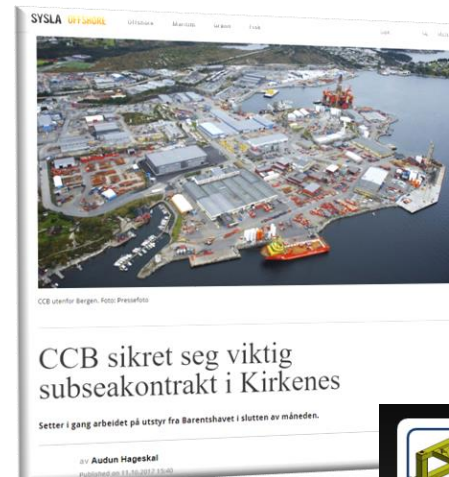


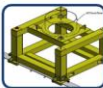






# Theory – Circular Economy (CE)

“... keep products, components and materials at their highest utility and value at all times ...” (EMF 2013)



# Maintenance & Repair



 <b>Delivery of offshore inspection with DNV GL Design Verification Report. Shell</b> <ul style="list-style-type: none"><li>•Design and deliver testskid</li><li>•DNV GL DVR according to DNV GL OS-E-101</li><li>•Eurocode 3, Design of steel structures</li></ul>	 <b>Tordis. Equinor</b> <ul style="list-style-type: none"><li>•Prepare Choke module RT</li><li>•Replace Choke module</li><li>•GE/Normand Ocean</li></ul>
 <b>Recertification. Shell</b> <ul style="list-style-type: none"><li>•HXT adapter for RLWI</li><li>•With accessories</li><li>•DNV GL RP E-101</li></ul>	 <b>Welding of conductors. Equinor</b> <ul style="list-style-type: none"><li>•Weld bottom connector to conductor</li><li>•NORSOK M-601, TR0048</li></ul>
 <b>Delivery of WO umbilical. Equinor</b> <ul style="list-style-type: none"><li>•Supply of finished product</li><li>•TR3572, TR2381, SAE J517, SAE J343</li></ul>	 <b>Separation and refurb of wellhead and conductor pulled from exploration well. AkerBP</b> <ul style="list-style-type: none"><li>•Separate conductor and wellhead</li><li>•Reburb and weld swage</li></ul>
 <b>Urd Svalø G-02 H. Equinor</b> <ul style="list-style-type: none"><li>•Pulling of ETC</li><li>•Seven Viking</li></ul>	 <b>Recertification. Shell/OKEA</b> <ul style="list-style-type: none"><li>•TRT for VXT system</li><li>•With accessories</li><li>•DNV GL RP E-101, API 6A</li></ul>
 <b>Asgard K-2 Demob of WOS. Equinor</b> <ul style="list-style-type: none"><li>•Demob of EDP, LRP, SFT</li><li>•Testing of WOCM</li></ul>	 <b>Delivery of hangoff kit. Equinor</b> <ul style="list-style-type: none"><li>•Concept and design</li><li>•Deliver</li><li>•API 7K</li></ul>

# Sharing Platform



“The O&G industry at large sits on a vast and costly portfolio of first class subsea equipment”

*NOROG Sharing economy project*

# SubQuip

12  
operators

47455  
items

+500.000  
part no.

AkerBP

ConocoPhillips

DNO  
EST. 1971

Shell

equinor

NEPTUNE  
ENERGY

OK  
EA

petoro

REPSOL

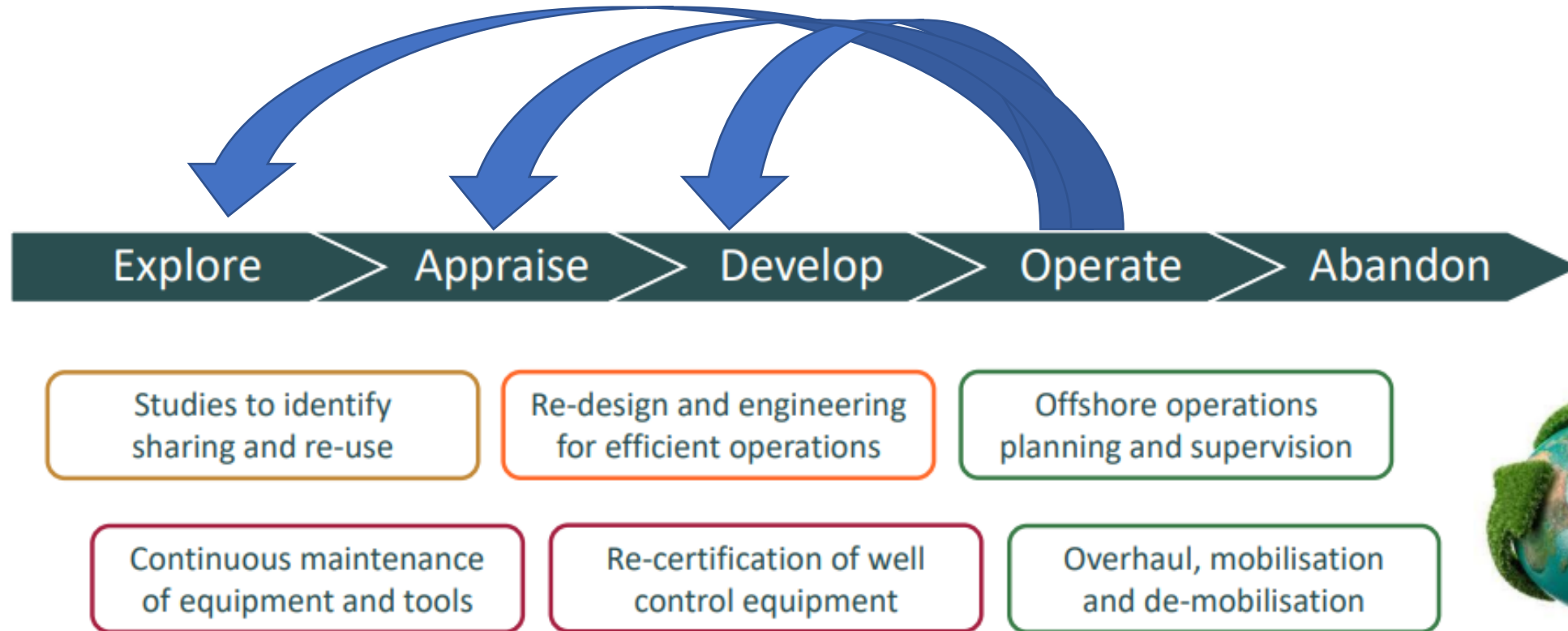
Lundin  
Petroleum

SPIRIT  
ENERGY

vår energi

wintershall dea

# Engineering & Redesign for Reuse



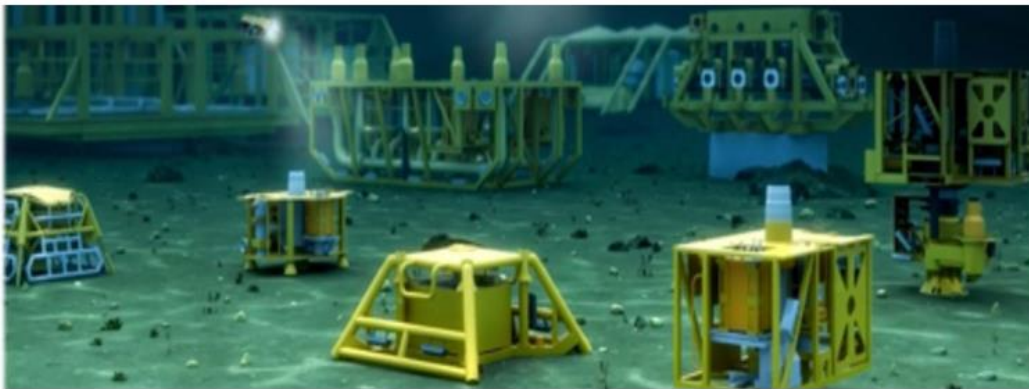
# Refurbish to Reuse

- Establish standard for refurbishment
  - Build experience
  - What is 'good enough'
- In process of initiating a JIP in cooperation with DNVGL



# Upcycle

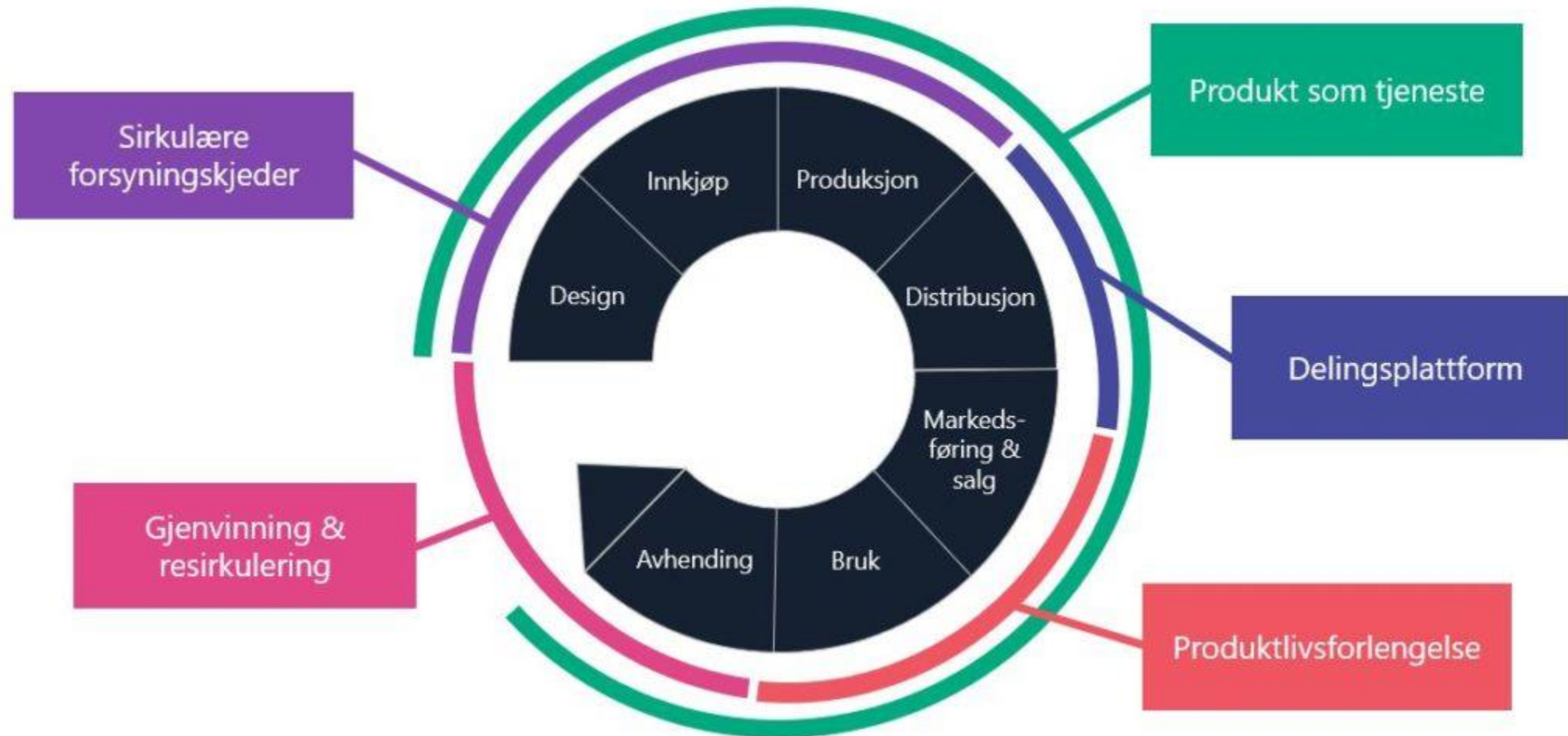
## CCB Subsea Receives Innovation Funding for new Circular Economy Concept



System conversion kit HXT to VXT to enable reuse and upcycling of permanently installed subsea equipment



# Summary CE Business Model

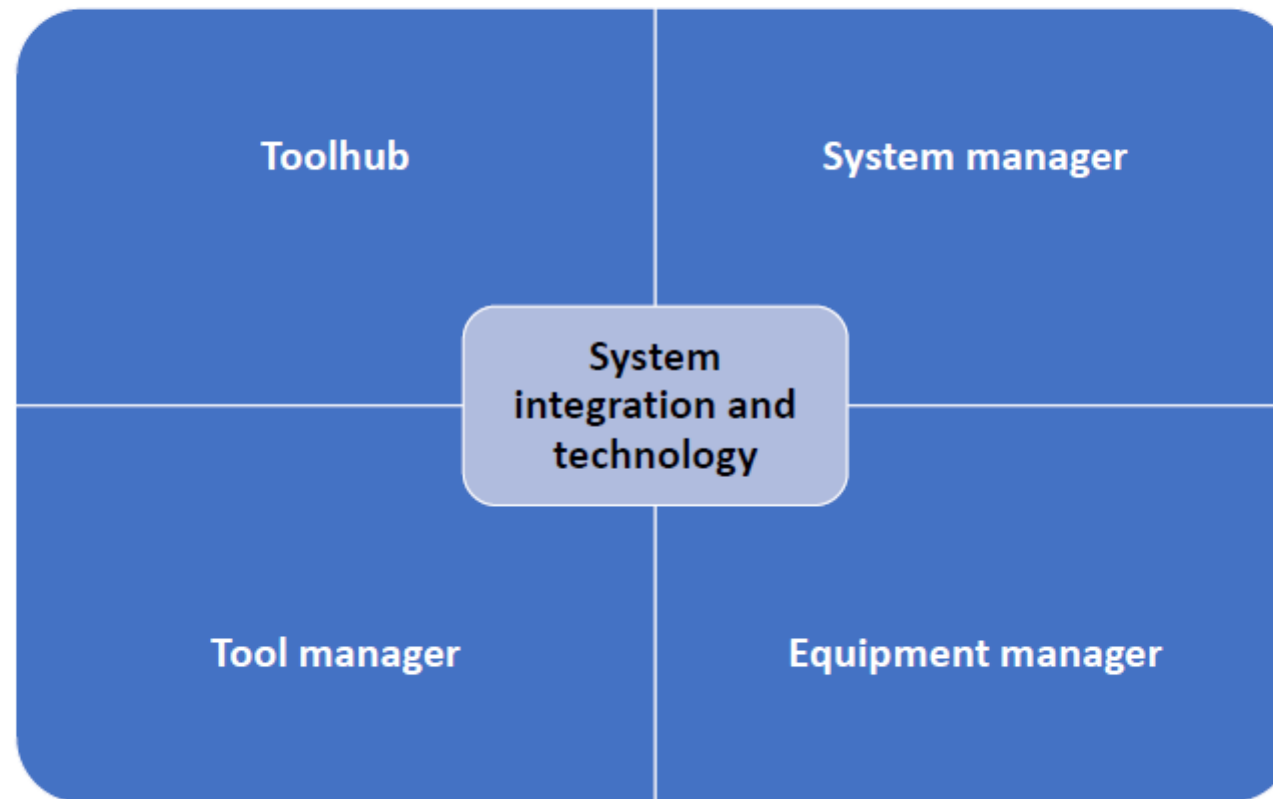


# Product as a Service



Increase access and utilisation of tooling

Simplify operational planning



Reduce maintenance, administration and transport

Extend service life

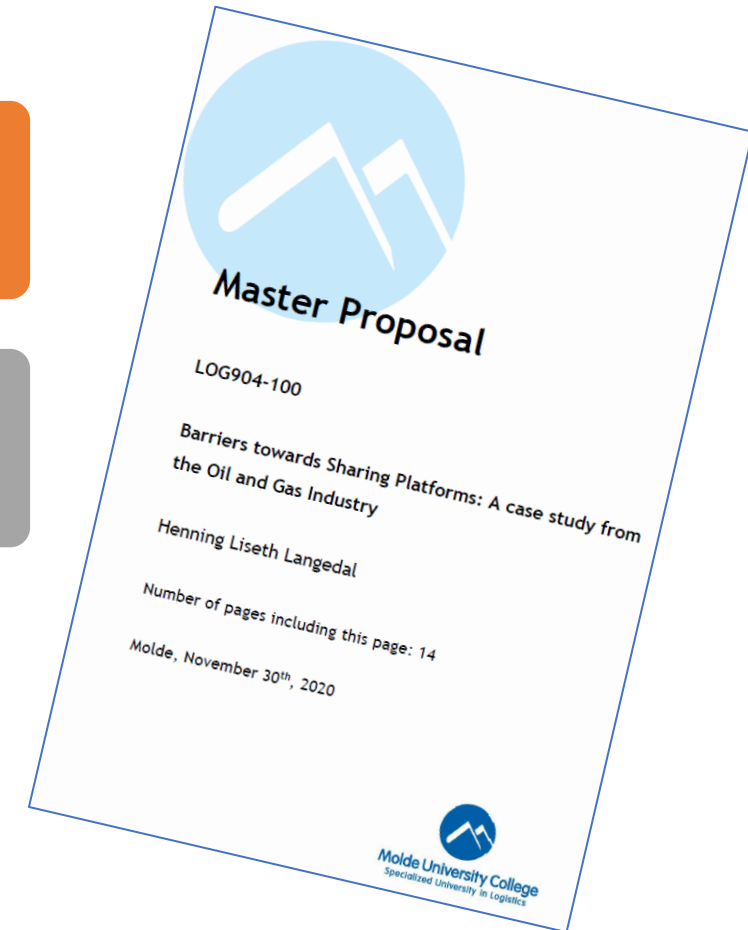
# Barriers towards Sharing Platforms

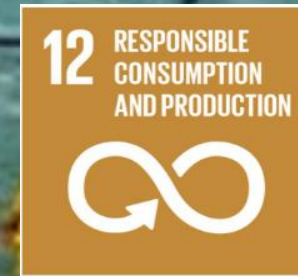
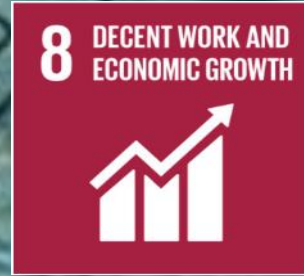


What are the barriers towards implementation of a sharing platform in the oil and gas industry?



How can the identified barriers be overcome in order to realise the potential of a circular economy?





Thank you for contributing to  
a sustainable development

[www.ccbsubsea.com](http://www.ccbsubsea.com)

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