

Det er typisk norsk å være god

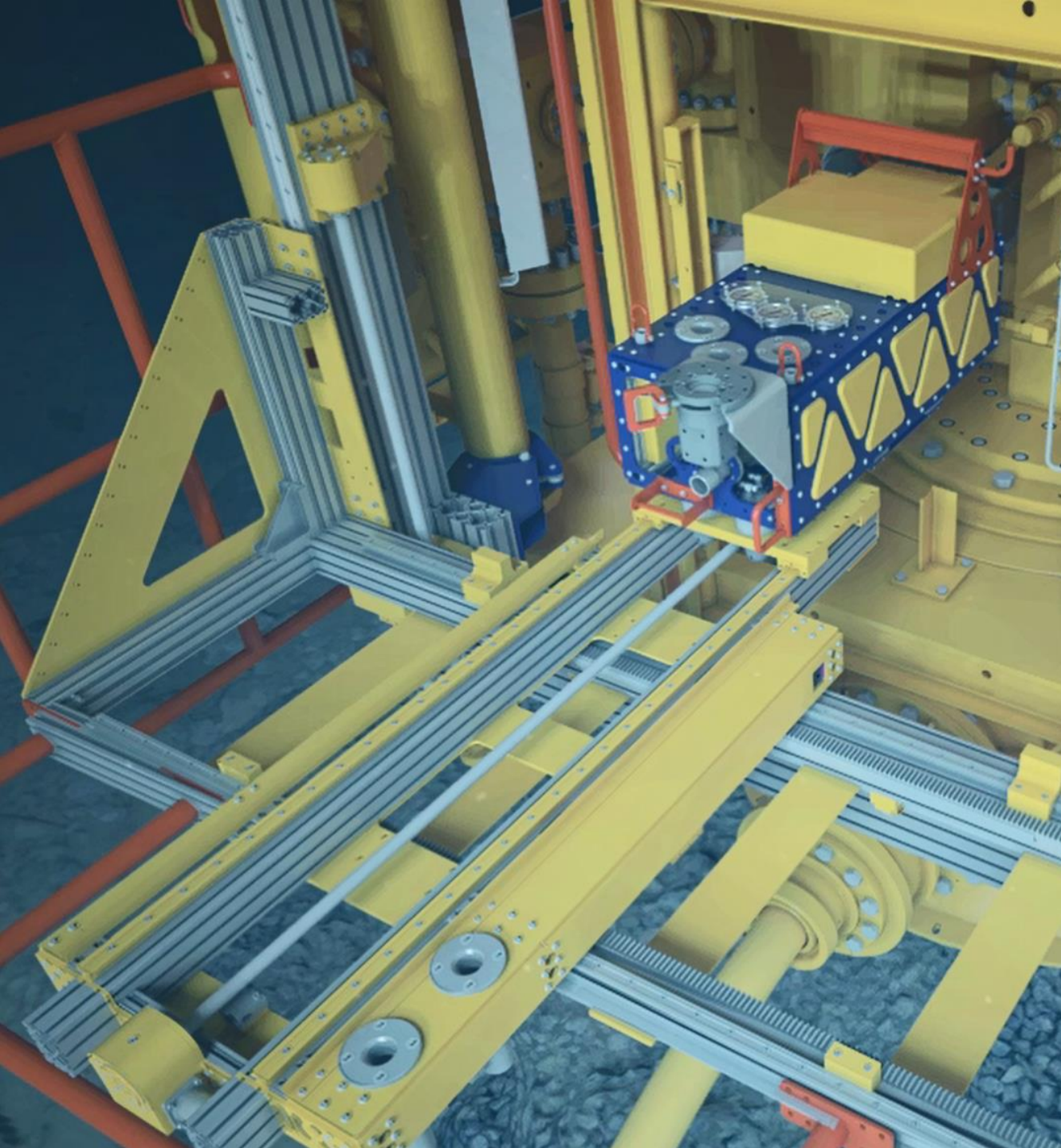
FFU 2025

Christian Knutsen

30.01.2025



SUBSEA



«*Det er typisk norsk å være god*»

Erfaringer fra å være et lite selskap på norsk sokkel til å bli en global leverandør.

Er vi gode?

Den nye oljen?

Hva er framtiden?

Er det jeg som burde stå her?











*Det er typisk
norsk å være
god*



Rike og late



Stolt historie



? ? ? ? ? ?



Børskrakk, boligkrakk og bankkrise



1987

- ★ På Black Monday, 19. oktober 1987, inntraff et stort børskrakk i USA.



20%

- ★ Dagen etter falt Oslo børs med nesten 20 prosent. Verdier for 30 milliarder kroner forsvant. Bunnen ble nådd i desember. Børsen brukte halvannet år på å hente seg inn.



1988

- ★ I 1988 begynte boligprisene å synke. Børskrakket ble til et eiendomskrakk. Med et rentenivå opp mot 16 prosent, var det mange som ikke klarte å betale boliglånene sine.



16%

- ★ Bunnen ble nådd i januar 1992. Boligprisene hadde da falt med 30 prosent siden 1987.
- ★ Krisen forplantet seg videre til en bankkrise, fordi folk ikke klare å betale ned lånene sine.
- ★ Bankkrisen begynte i 1988 i de tre bankene Sunnmørsbanken, Tromsø Sparebank og Sparebanken Nord. Innen 1991 var bankkrisen blitt riksdekkende.



1992



- ★ Staten måtte gå inn og redde flere av landets største banker. Krisen var over i 1992

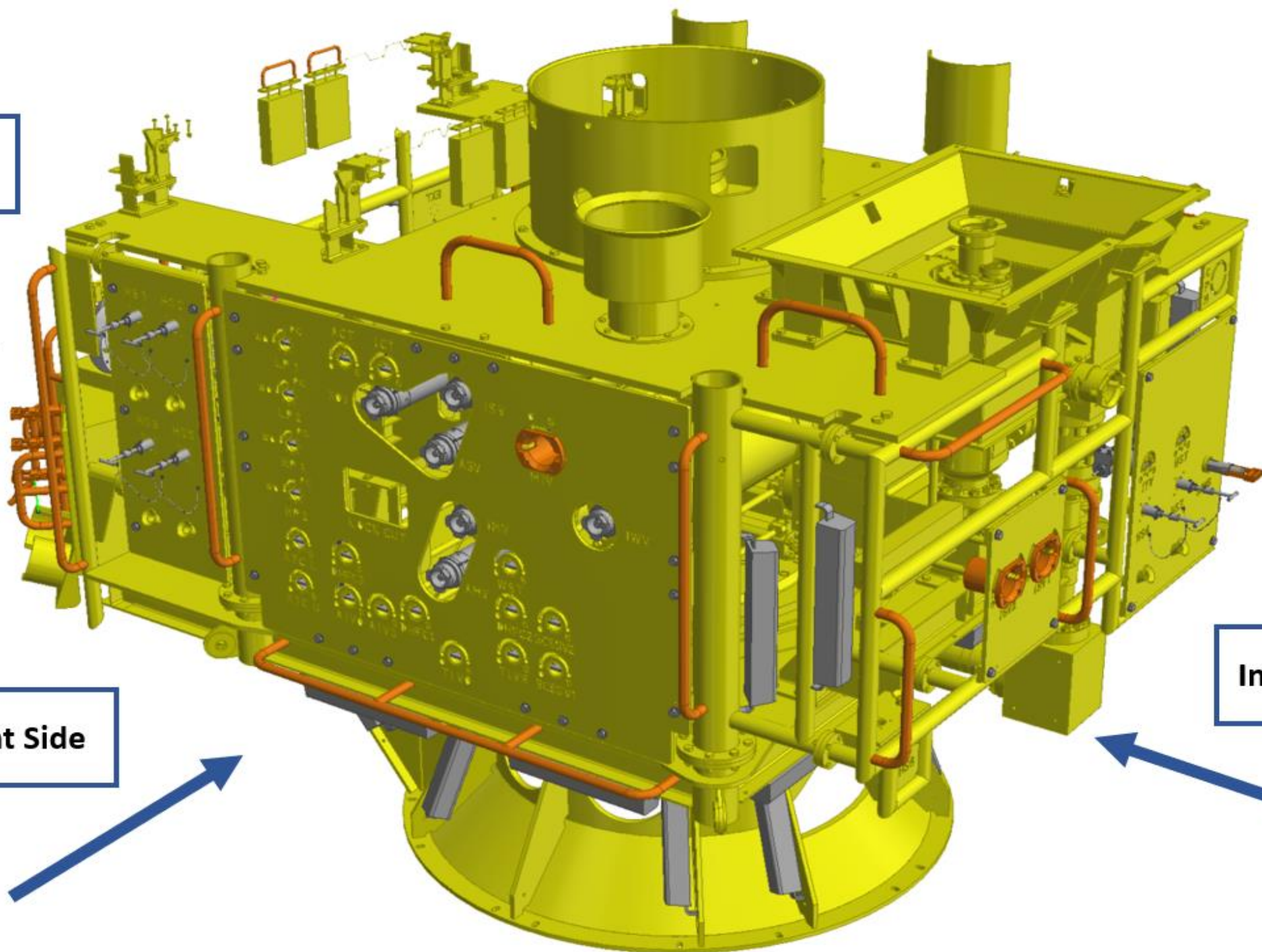


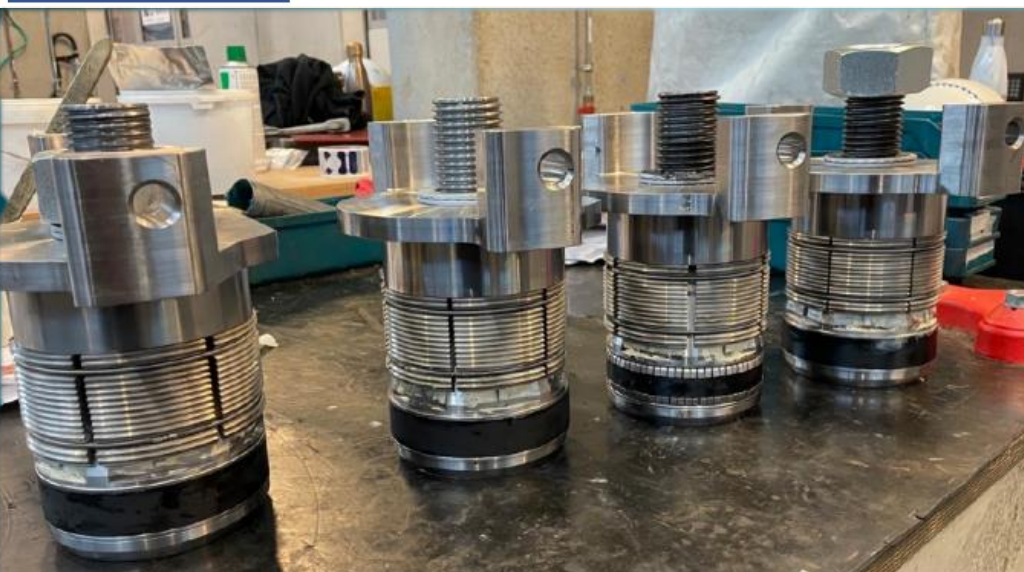
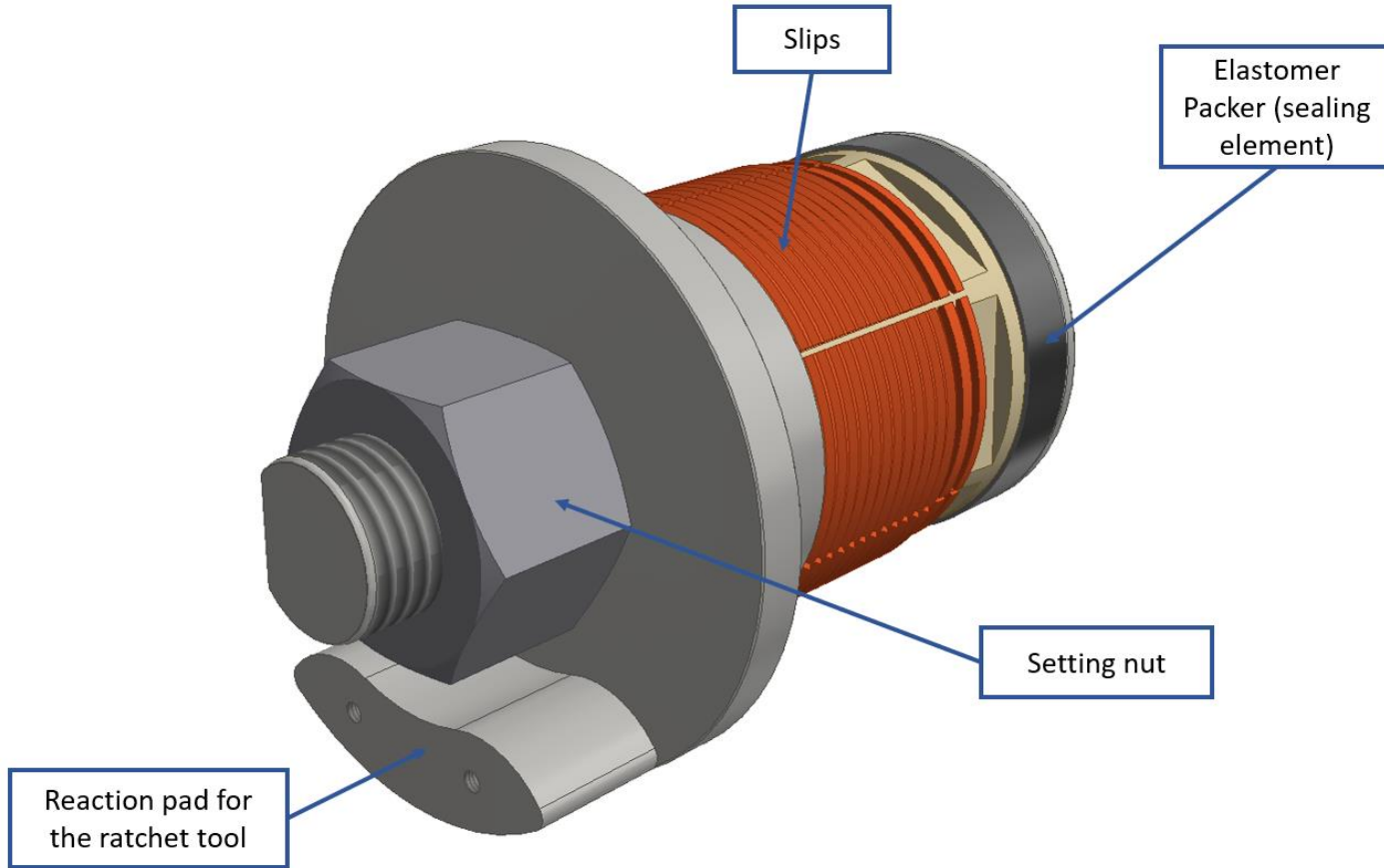


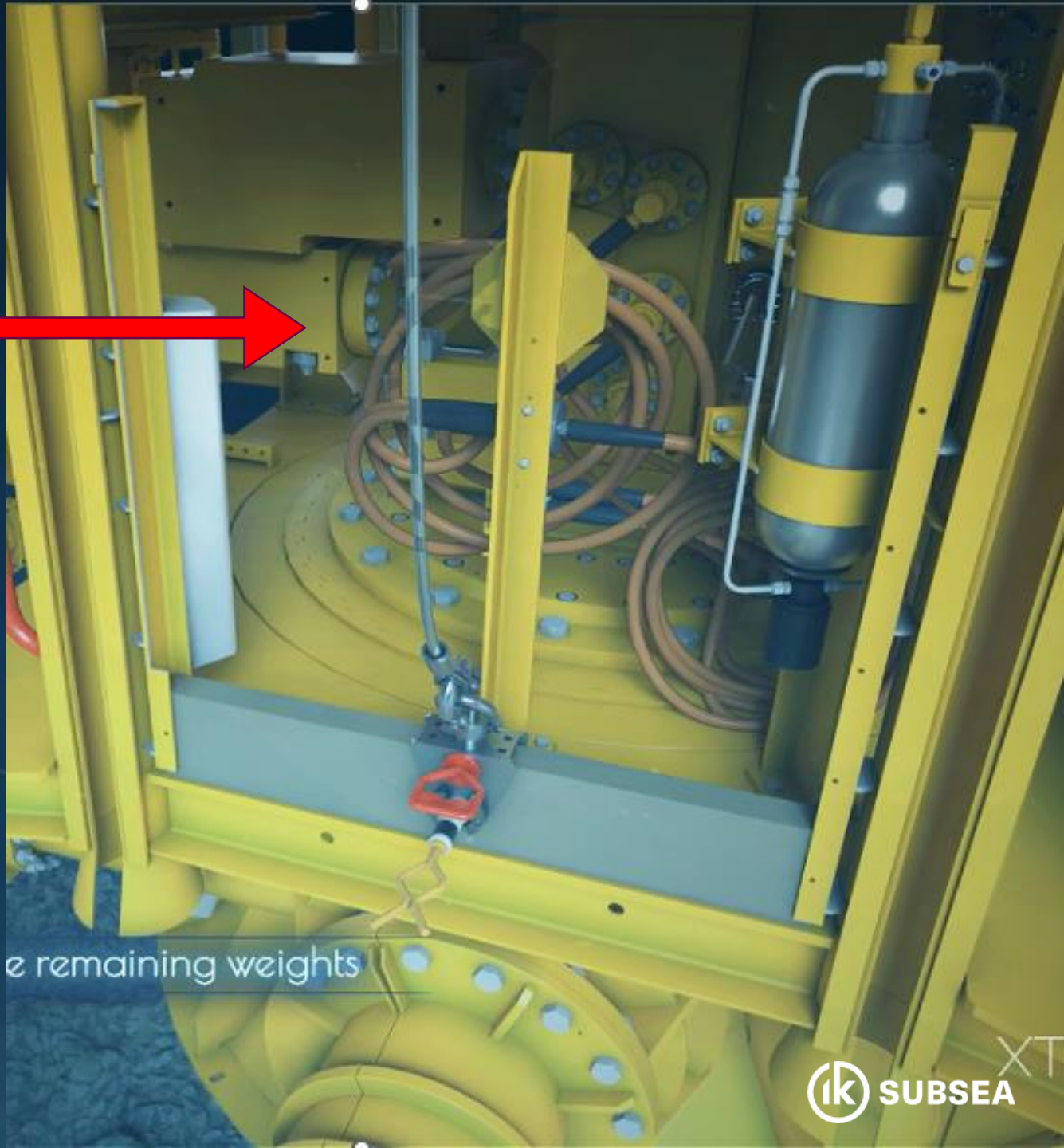
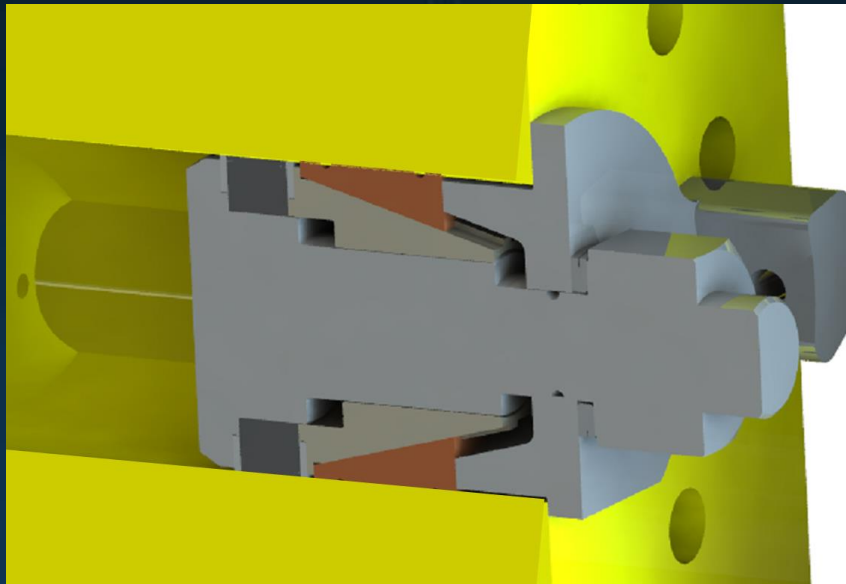
Annulus Side

Front Side

Injection Side



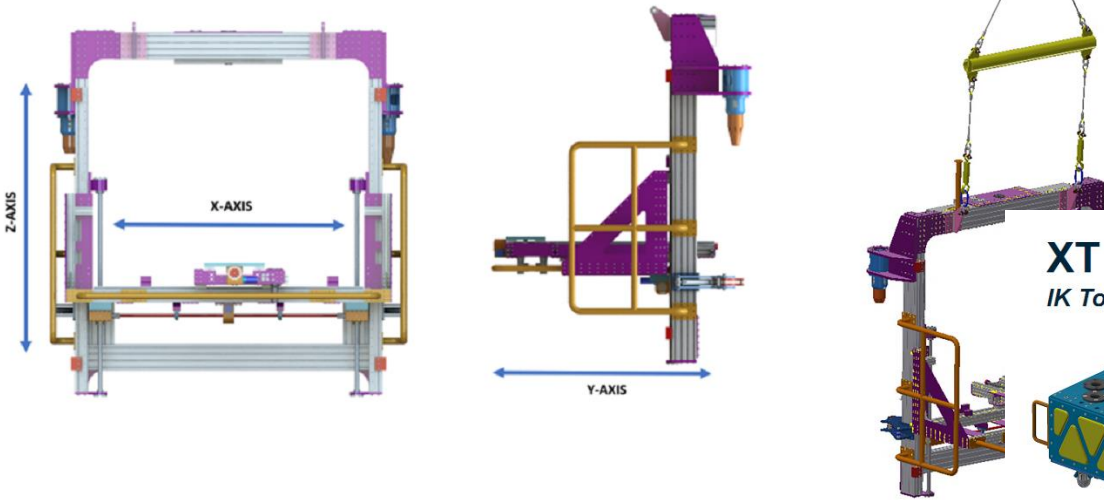




e remaining weights

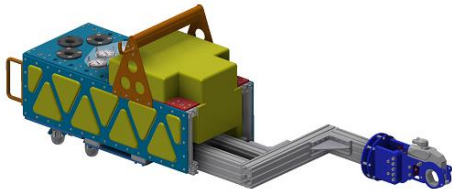
XT Flange Repair Equipment

Main Intervention Frame

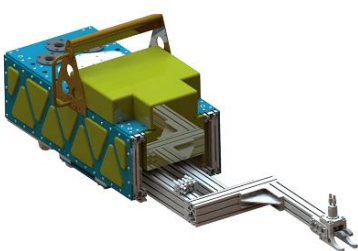


XT Flange Repair Equipment

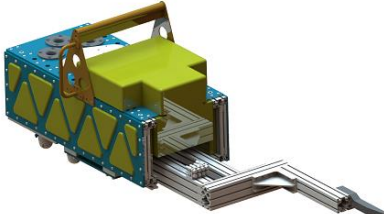
IK Tooling Suite - Continued



ool



Multipurpose Tool c/w Gripper



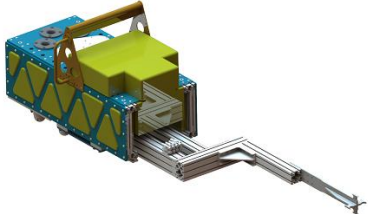
Multipurpose Tool c/w Wedge

XT Flange Repair Equipment

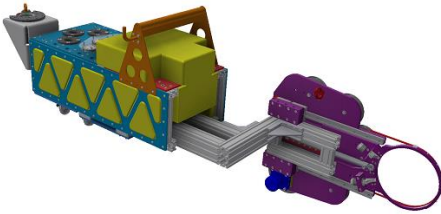
IK Tooling Suite



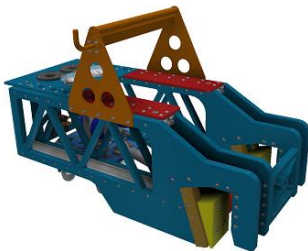
Tube Cutting Tool



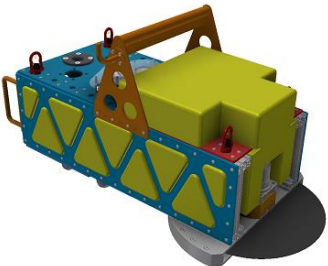
Multipurpose Tool c/w Hook



Diamond Wire Cutting Tool



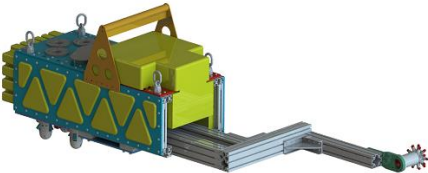
Weight Removal Tool (Not to be Used)



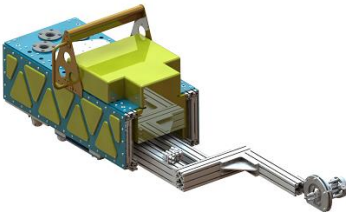
Disc Cutter Tool (Not to be Used)



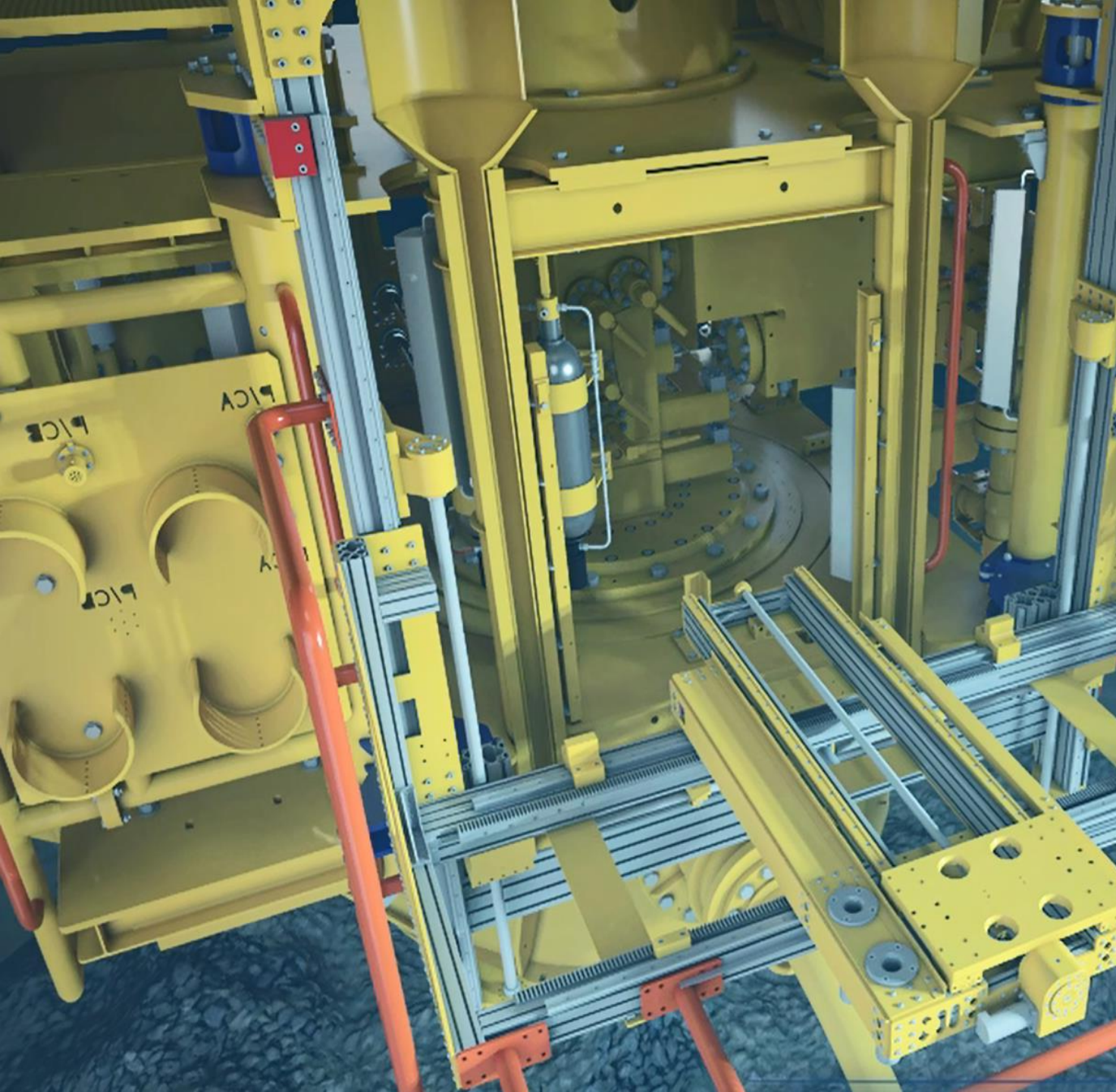
Multipurpose Tool c/w Emergency Cutter



Cleaning Tool



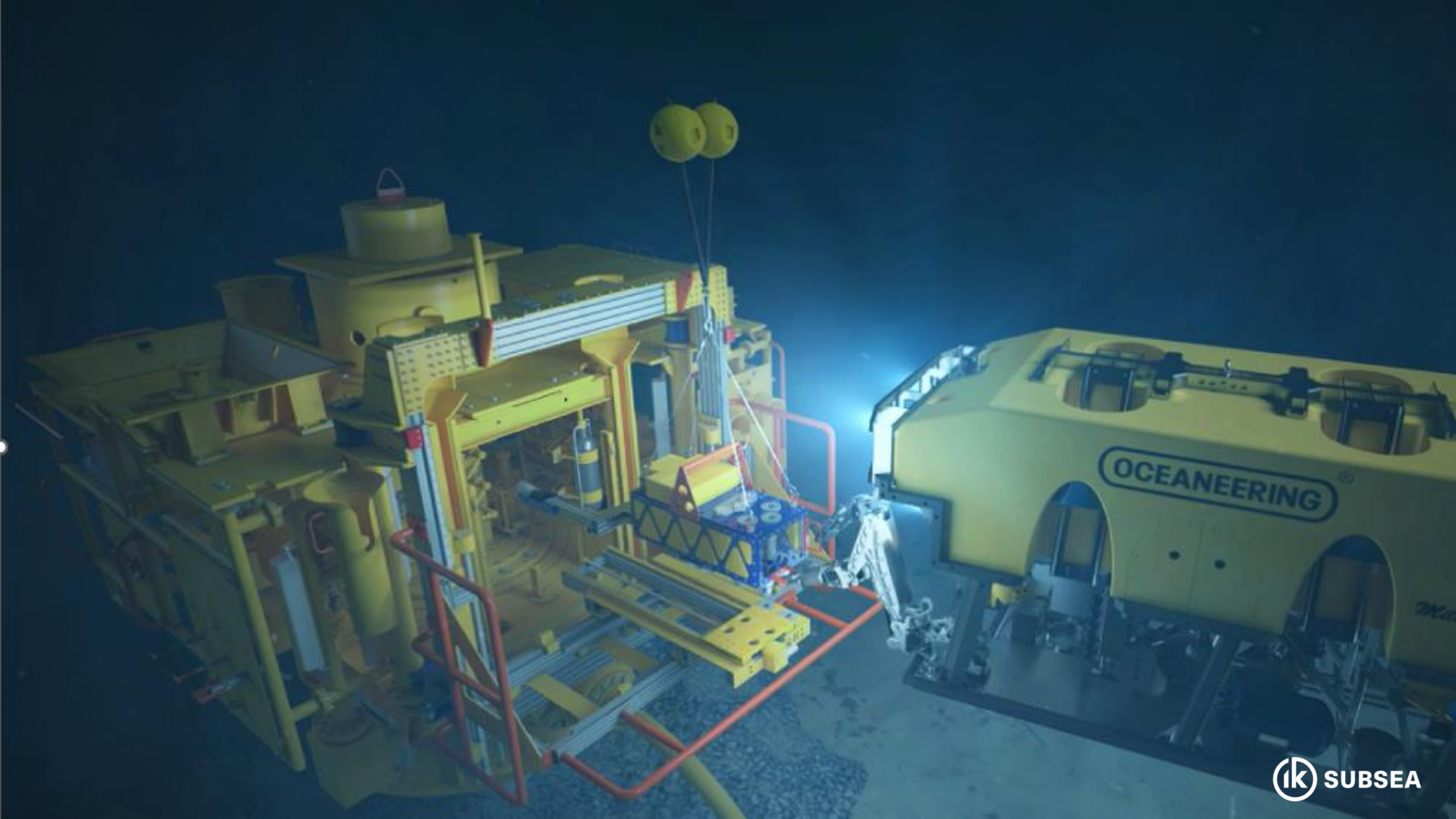
Multipurpose Tool c/w Caliper

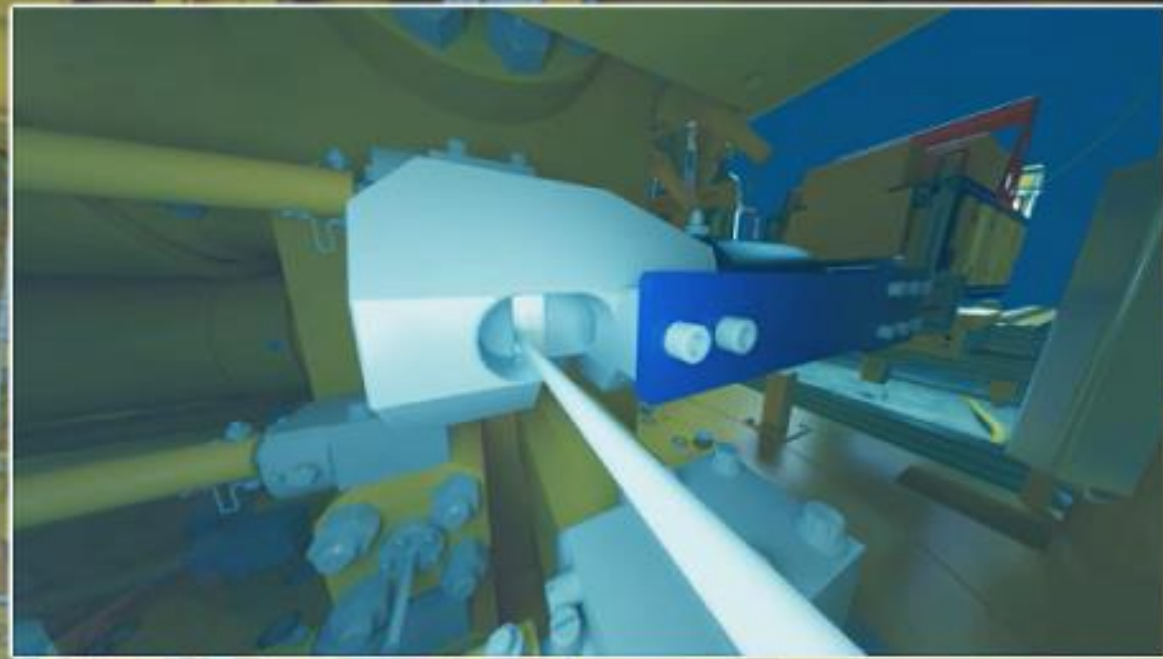






Pipe pusher tool retrieved from basket and landed on tooling main frame

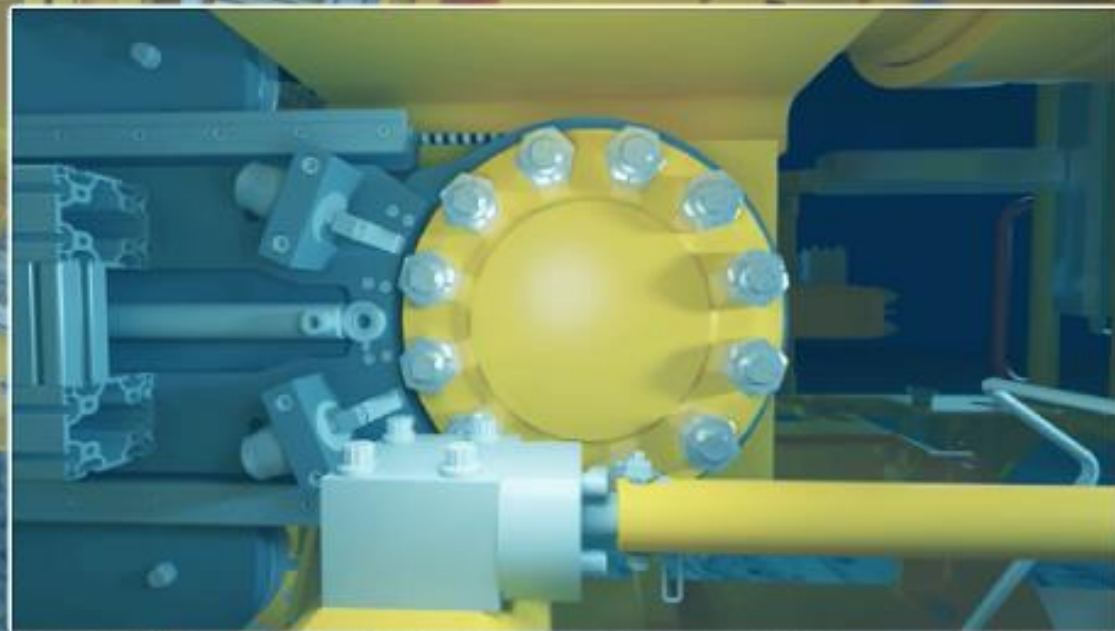




line cut



Diamond wire saw retrieved from basket and landed on tooling main frame



Latches engage



maneuvered into position in front of bore

The Result

In-situ repair successful –
avoiding pulling Xmas Tree

New technology designed, tested,
qualified and manufactured

Tool suite including cut and
removal

Leaking flanges successfully
plugged

System Integrity restored and
tested

Flawless execution



Jarle Marius Solland	Aker BP
Stian Samuelsen	Aker BP
Maria Sund Solli	Aker BP
Jørgen Aubert	Aker BP ASA
Arild Tyssealand	AkerBP
Torbjørn Digernes Rossela	AkerBP
Jarle Holmelid	April Media
Roger Andersen	Argus Remote Systems AS
Terje Skogheim	AS Hurum Plastindustri, avd TRØNDELAG
Aslak Tunheim	Ashtead Technology AS
Thomas Pedersen	Ashtead Technology AS
Jan Narve Bore	Ashtead Technology AS
Bjørn Kalland	Beluga Subsea AS
Jostein Reinsnos	Beluga Subsea AS
Debora Amanda Silitonga	Blue Logic AS
Håvard Rød	Blue Logic AS
Eirik Kloster Jacobsen	Blue Logic AS
Lars Gunnar Hodnefjell	Blue Logic AS
Torbjørn Gundersen	Blue Logic AS
Harald Urdal	Blue Logic AS
Eilin Ulversøy	Blue Logic AS
Else Malmin	Blue Logic AS
Knut Henrik Jordal	BSA Offshore AS
Åsmund Voster	Butler Solutions AS
Åsmund Voster	Butler Solutions AS
Sigurd Falmår	Butler Solutions AS
Magnus Lindberg	C-Tecnics Norway AS
Maren Madland	C-Tecnics Norway AS
Scott Younger	C-Tecnics Norway AS
Rune Høyvik Rosnes	Deep C
Vegard Jørgenvåg Bjerkest	Deep C Solutions AS
Sigbjørn Svendsen	DeepOcean
Helge Austerheim	DeepOcean
Petter Sørensen	DeepOcean
Oddvar Bjotveit	Deepocean
Kjetil Valle Bringaker	DeepOcean
Trond Hagland	DeepOcean AS
Ragnhild Brekke-Brandtzø	DeepOcean AS
Lene Okkerstrøm	DeepOcean AS
Jarle Rygg	DeepOcean AS
Sindre Torsteinsen	Deepocean AS
Patrick Ungvary	DeepOcean AS
Helge Gausvik	DeepOcean AS
Johnny-André Spangberg	DeepOcean AS
Mats Ekstrøm	Depro AS
Jonny Østvand	Depro AS
Kåre Stokkeland	Depro AS
Oyvind Lorgen	ECOSubsea
Torbjørn Hansen	Ecosubsea AS
Thomas Nygaard	Eelume AS
Vidar Løtveit	Elmotor AS
Svein Vareberg	Elmotor AS

Ørjan Røed	Energy X AS
Jan Kåre Bredal	EnergyX AS
Oskar Vatland	Envirent AS
Arian Ødegård	Envirent AS
Stine Vea	Envirent as
Nils Magnus Ekeland	Envirex AS
Leon Ravndal	Envirex AS
Vera Susanne Nilsen	Envirex Group
Malin Sofie Leirvik	Envirex Group
Iris Giladi	Envirex Group AS
Georg Johnsen	Equinor
Arnstein Lid	Equinor
Helge Haugvaldstad	Equinor
Hans Kristian Kvangardsnes	Equinor
Roger Soltveit	EQUINOR ASA
Carl Trollet	Exail
Anna Marita Braaten	Fagskolen Rogaland
Anne Mørch	FFU
Magne Grønnestad	FFU - Revisor
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Jan-Robert Lingjærde	Fox Subsea AS
Kenneth Storlid	Fox Subsea AS
Pontus Runesson	Glenair Nordic AB
Silo Hallberg	Glenair Nordic AB
Eirik Nilsen	GNT Solutions AS
Kristian Fotland	GNT Solutions AS
Steffen Andreasen	Havindustriilisynet
Oddvar Harboe-Wiig	Hycos AS
Frode Reve	Hycos AS
Cato Erga	Hytech Engineering & Service as
Anders Rydberg	Hytorc Norge AS (norway)
Sveinung Haugvaldstad	Haakonsen Marine AS
Sveinung Haugvaldstad	Haakonsen Marine AS
Øystein Stjern	IKM Gruppen AS
Ben Pollard	IKM Subsea
Morten Johan Jacobsen	IKM Subsea AS
Cato Andersen	IKM Subsea AS
Ments Tore Møller	IKM Subsea AS
Oddbjørn Gravdal	IKM Subsea AS
Tommy Oftedal	IkM Subsea AS
Tore Aarsland	IKM Subsea Motor Solutions
Jarle Madland	IKM Testing
Marius Stuvland	IkM Testing
Espen Ramsfjell	IkM Testing AS
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Geir Trengereid	Imenco AS
Johannes Moi	Innova AS
Nils Helge Sætre	Innova AS
André Støle	Innova AS
Kenneth Hauge	Innova AS
June Lunde	Innova AS
Monica Adwoa Kumi-Dart	Innova AS
Dennis Sirevaag	Innova AS
Atle Sivertsen	Inventas
Knut Nilsen	Inventas AS / konferansier
Anne Linn Olsen	Ixys AS

Magne Hatteland	Ixys AS
Vidar Kro	Ixys AS
Petter Bergli	Ixys AS
Sigmund Sevattal	Ixys AS
Erlend Apeland	Ixys AS
Sebastian Hennig	Ixys AS
Johan-Monart Røkenes	JAMES WALKER NORGE AS
Roy Henriksen	Kolos
Atle Gran	Kongsberg Discovery AS
Tore Osvald	Kongsberg Discovery AS
Ørjan Enoksen	Kystarbeid AS
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Geir Ove Steinsvåg	Kystdesign AS
Oddbjørn Gudmundsen	Kystdesign AS
Knut Ståle Storesund	Kystdesign AS
Tore Kallevik	Kystdesign AS
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Siv Holgersen Gramstad	MacArtney Norge AS
Bjørn Tormod Akselsen	MacArtney Norge AS
Paul Økland	MacArtney Norge AS
Jan Inge Hellesmark	MacArtney Norge AS
Tor Gunnar Alvestad	MacArtney Norge AS
Søren Kristiansen Schrader	MacArtney Norge AS
Åsmund Voster	MECHMAN AS
Avid Langeland	MECHMAN AS
John Sverre Gundersen	MobiDeck AS
Stian Førre-Wold	MobiDeck AS
Jan Olav Olden	MobiDeck AS
Torstein Storaas	MobiDeck AS
Kenneth Langerud	Nexum Engineering AS
Jarle Salte	Nexum Engineering AS
Gisle Brekkå	NOR
Jim Roar Andersen	NOR Offshore Rental
Ketil Horn	Nortek AS
Kjerstin Hauge	Norwegian Offshore Rental AS
Arnt-Ove Osaland	Norwegian Seals AS
Rolf Røssland	NUI AS
Kristian E. Johnsen	NUI AS
Kim Løseth	NUI AS
Thea Mohn	Ocean Installer AS
Janne Vatne	Ocean Installer AS
Adrian Hetland	Ocean Installer AS
Gustavo Bayer	Ocean Installer AS
Agha Artzer	Ocean Installer AS
Monica Quitzau	Ocean Installer AS
Jørgen Apeland	Oceanneering
Reidar Nedland	Oceanneering
Kenneth Solbjør	Oceanneering
Sindre Bokneberg	Oceanneering
Kim Ivar Døving	Oceanneering
Nils Helge Sætre	Oceanneering
Sondre Harjo	Oceanneering
Sindre Dalseth	Oceanneering AS
Torleif Carlsen	Oceanneering AS
Marcella Sarmiento	Oceanneering AS
Sebastian Sudmann	Oceanneering AS
Sander Søreide	Oceanneering AS
Andreas Aasbø	Oceanneering AS
Kjersti Ollestad	Oceanneering AS

Siril Nossun	Oceanneering AS
Farishta Asadi	Oceanneering AS
Kjell Osland	Oceanneering AS
Jan Anton Fjermestad	OceanOne AS
Leif Johan Flornes	OceanOne AS
Lilja Fure Olafsson	OceanOne AS
Thea Kleiberg	OceanOne AS
Kristian Gjelstad	OceanOne AS
Gavin Innes	OSCAS
Felix Gorbatshevich	PaleBlue AS
Lise Borgen Tonstad	Proserv AS
Peter Erkers	PXGeo Norway AS
André Solstrand	Reach Subsea AS
Vebjørn Bauge	Reach Subsea AS
Svein André Waage	Rental Technology & Services (RTS)
Roger Nordgård	RTS - Rental Technology & Services
Lars Melkevik	RTS - Rental Technology & Services
Felix Kiss	RTS - Rental Technology & Services
Raymond Myge	RTS - Rental Technology & Services
Alexander Rossebø	Saga Subsea AS
Tor Alme	Saga Subsea AS
Christian Gade	Saga Subsea AS
Njål Bragstad	Saipem
Stian Aanensen	Scanmudring
Frank Ludvigsen	Scanmudring AS
LARS EYVIND SCHIERDEN	Scanmudring AS
Glenn E. Albrigtsen	SH Group Norway
Sveinung Øhrem	SINTEF Ocean
Sveinung Johan Øhrem	SINTEF Ocean
Torggrim Skaustein	Stinger Technology
Bjarte Langeland	Stinger Technology AS
Bjarte Langeland	Stinger Technology AS
Truls Munch-Ellingsen	Stinger Technology AS
Thomas Ringen	Student
Joar Haaland	Subsea 7
Kirill Kozel	SUBSEA 7 NORWAY AS
Ola Brun	SUBSEA 7 NORWAY AS
Arthur Jan Pettersen	SUBSEA 7 NORWAY AS
Knut Sigmund Lende	SUBSEA 7 NORWAY AS
Vegard Risa Reisæter	SUBSEA 7 NORWAY AS
Andreas Torstensen	SUBSEA 7 NORWAY AS
Theresa Beer	SUBSEA 7 NORWAY AS
Morten Haugen	SUBSEA 7 NORWAY AS
Stian Morel	SUBSEA 7 NORWAY AS
Ida Kjerstine Bekvik	SUBSEA 7 NORWAY AS
Jørgen Olsen	SUBSEA 7 NORWAY AS
Christian Watne	SUBSEA 7 NORWAY AS
Torstein Meling	SUBSEA 7 NORWAY AS
Vidar Aasgård	Subsea Composite Solutions AS
Vidar Grindheim	Subsea Composite Solutions AS
Kåre With	Subsea ToolPool Nord
Helge Sverre Eide	Subsea USB
Tor Eivind Selvik	Subsea7
Kai Tore Hammer	SubseaPartner
Pål Meyer	SubseaPartner AS
Ryan Lumsden	Saab Seaeeye

3 Operatører
5 Internasjonale
5 Marine kontraktører
60 Spesialist firmaer

Odd Rune Frostestad	TDW Offshore Services
Hallgeir Foss Alsvik	TDW Offshore Services AS
Henry Ekeland	TDW Offshore Services AS
Vidar Bredholt	TechnipFMC
Roger Hagen	TechnipFMC TechnipFMC Norge AS
Mohamed Jaidane	The Polymath Company
Ståle Mæland	TIOS AS
Morten Rasmussen	TIOS AS
Bruce Hardy	Tritech (Norwegian rep Innova)
Rolf Sporkel	TSC Subsea
Johannes Dahl	TSC Subsea
Sverre Brattelid Stige	Uia Submerged (Student fra Uia)
Torstein Ringheim	Uia Submerged (student fra Uia)
Tomas Aas-Hansen	Uia Submerged (Student fra Uia)
Daniel Matre	Uis Subsea
Tore Heradstveit	Uis subsea
Thomas Meyer	UNPLUGGED
Kim Tommy Humberstad	UNPLUGGED
Silje Aase	Vår Energi
Kjartan Garnes	Vår Energi
Stig Hjorth	Vår Energi ASA
Arild Jenssen	Vår Energi asa
Susan Hoang	Vår Energi ASA
Asbjørn Tunheim	Vår Energi ASA
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Espen Andersland	Witec AS
Thomas Nærland	Witec AS
Arnfinn Nergaard	Æresmedlem
Dag Ringen	Æresmedlem
Jørn Haugvaldstad	Æresmedlem
Jørn Bolstad	Aarbakke Innovation AS
C-Kore Qyntia Pikar	

Konklusjon

Hadde Gro rett? Ja

Er vi blitt late? Nei

Har vi blitt rike? Ja

Har vi den nye oljen? Ja

Men husk gammelt ordtak!

Du skal ha en sterk rygg for å tåle gode dager