



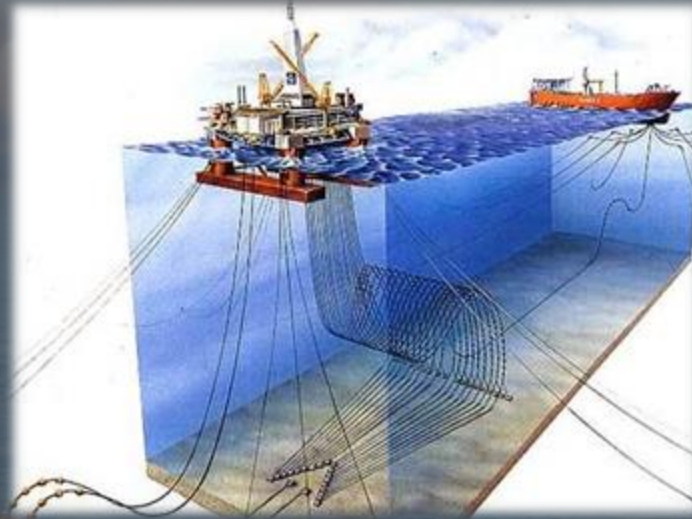
equinor

## Implementation process of UID HydroneR at Njord A

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# Implementation process of UID Hydroner at Njord A

1997 August



Njord A arrived at location and were within 2 months in production.

# Implementation process of UID Hydroner at Njord A



2013 September



Njord A has structural defects that needs attention

# Implementation process of UID Hydroner at Njord A

2015 April 23

Press release from Statoil that Njord A and B to be taken to shore for repairs.

The Njord Future project is born

# Implementation process of UID Hydroner at Njord A

2015 | October

Statoil ROV contract team establish a M1 modification request in SAP for ROV upgrade.

# Implementation process of UID Hydroner at Njord A

2016

May

Statoil ROV contract team get confirmation that Njord will be towed to Stord for repairs and that ROV scope is added.

# Implementation process of UID Hydroner at Njord A

2016 August



The Njord A platform arrived at Kværner Stord on Thursday 25 August

# Implementation process of UID Hydroner at Njord A

2016 December

The AUV ROV organization within Equinor is established

Work on a new ROV concept at Njord A begins to take shape.



# Implementation process of UID Hydroner at Njord A

2017

- Resident AUV capabilities at Njord?
- Onshore control?
- Mapping of TRL gaps to achieve TRL4+
- The Subsea Docking Station (SDS) is being conceptualized

# Implementation process of UID Hydroner at Njord A



2018

- Procurement strategy for ROV services at Njord is initiated
- Statoil rebrands to Equinor the 16<sup>th</sup> of May
- Oceaneering is awarded a feasibility study for new LARS at Njord A
- Information to all ROV service providers under frame agreement about upcoming ITT for Njord
- First introduction to Saipems Hydroner project

# Implementation process of UID Hydroner at Njord A



2019 Q1/2



- Tenders for the ITT has a site visit onboard Njord A at Stord
- Technical description for the ROV scope is in first draft
- PO to Oceaneering for new LARS at Njord
- 16<sup>th</sup> of April "Invitation notice for the request Enquiry 460455 Njord ROV" is sent to tenders

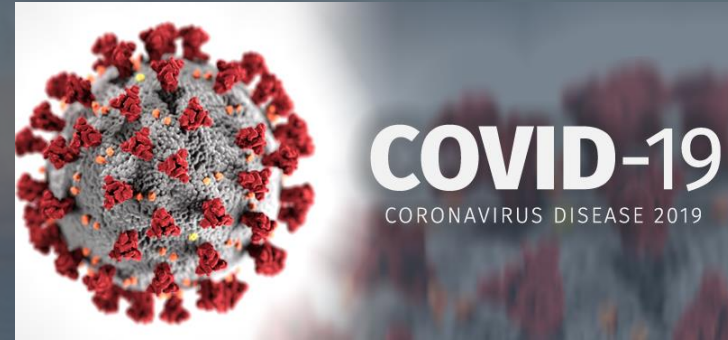
# Implementation process of UID Hydroner at Njord A



2019 | Q3/4

- Tenders send in their tender the 4<sup>th</sup> of June.
- The evaluation team reached a recommendation the 9<sup>th</sup> of August and awaits approval internally and from Njord license partners.
- September the 2<sup>nd</sup> Saipem was informed of their award.
- October the 2<sup>nd</sup> the contract was signed at TAC drone technology demonstration day.

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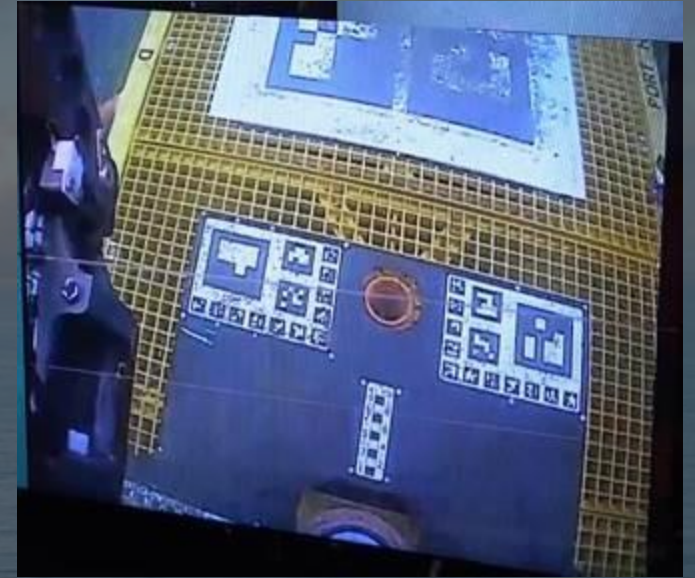


2020 Q1/2

- Corona affects the progress for the first time
- April the first delay of sail away for Njord, new target March 2021
- PO for the SDS and gravity base is issued Bluelogic
- Njord ROV LARS delivery from Oceaneering is nearing completion

# Implementation process of UID Hydroner at Njord A

2020 Q3/4



- The installation of the Kystdesign WROV at Njord is ongoing
- The TAC SDS is shipped to Trieste for testing towards the Hydroner
- Manual docking by the Hydroner is achieved.
- The need for an active gripper connector between UID and SDS has started, to include magnetic homing.
- Covid is still in effect

# Implementation process of UID Hydroner at Njord A



2021 Q1/2

- Covid is still in effect, the Norwegian borders close in January
- Design basis for the 2kW Gripper Connector is ready
- FAT of the SDS and gravity base
- Location of placement of SDS under Njord is approved

# Implementation process of UID Hydroner at Njord A



2021 Q3/4

- Covid is still in effect, the Norwegian borders close in January
- Design basis for the 2kW Gripper Connector is ready
- FAT of the SDS and gravity base
- Location of placement of SDS under Njord is approved
- Placed PO for the 2kW Gripper Connector
- SDS shipped to Trieste for integration testing
- SDS gravity base is installed at Njord field the 7<sup>th</sup> of August



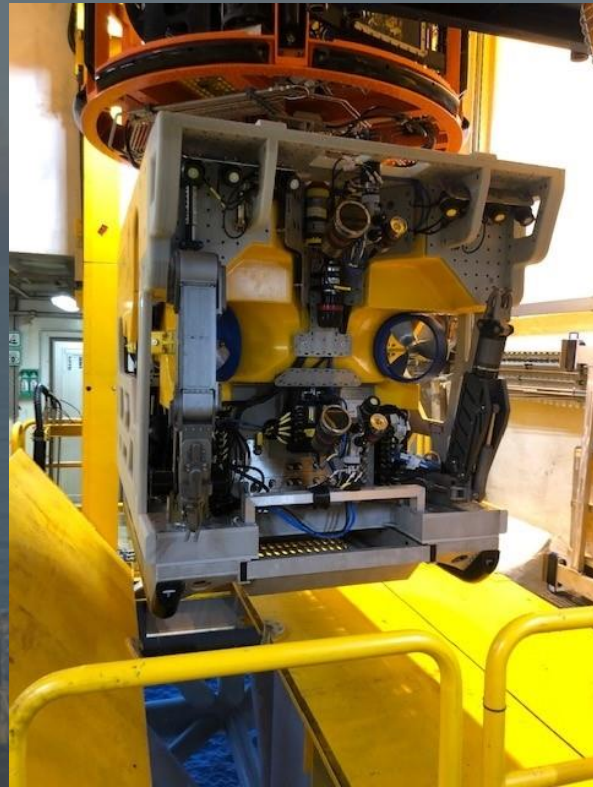
# Implementation process of UID Hydroner at Njord A

2022 Q1/2

- The 21<sup>st</sup> of February Njord leaves Stord for sea trials
- The 8<sup>th</sup> of March Saipem have a live web demo of the WROV doing test dives during sea trials
- The 22<sup>nd</sup> of March Njord sails towards the Njord Field
- The 13<sup>th</sup> of April Njord is securely anchored at Njord field

# Implementation process of UID Hydroner at Njord A

2022 August



- August the 5<sup>th</sup> Saipem arrives Njord A
- August the 15<sup>th</sup> Saipem completes the CAT for the WROV

# Implementation process of UID Hydroner at Njord A

2022 September



- September the 30<sup>th</sup> Saipem completes the CAT for the Hydroner in Trieste

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2023

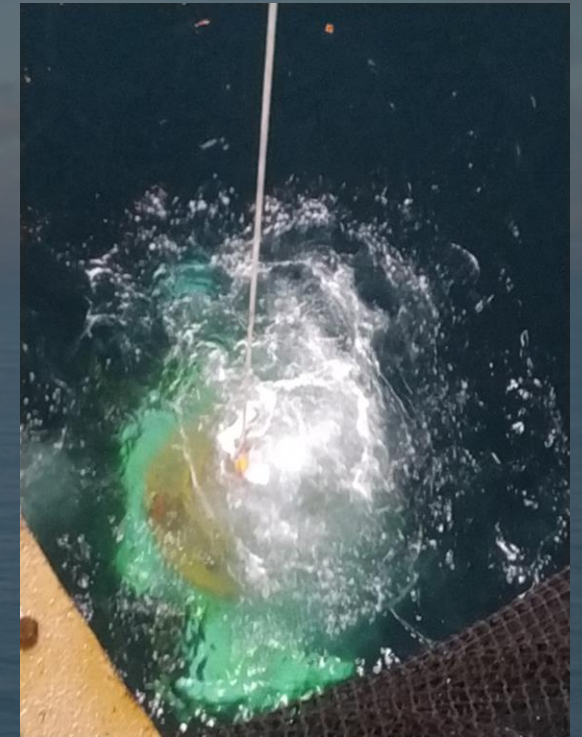
July

- SDS was installed at Njord July the 3rd, being the first offshore field to receive an SDS

# Implementation process of UID Hydroner at Njord A

2023

July



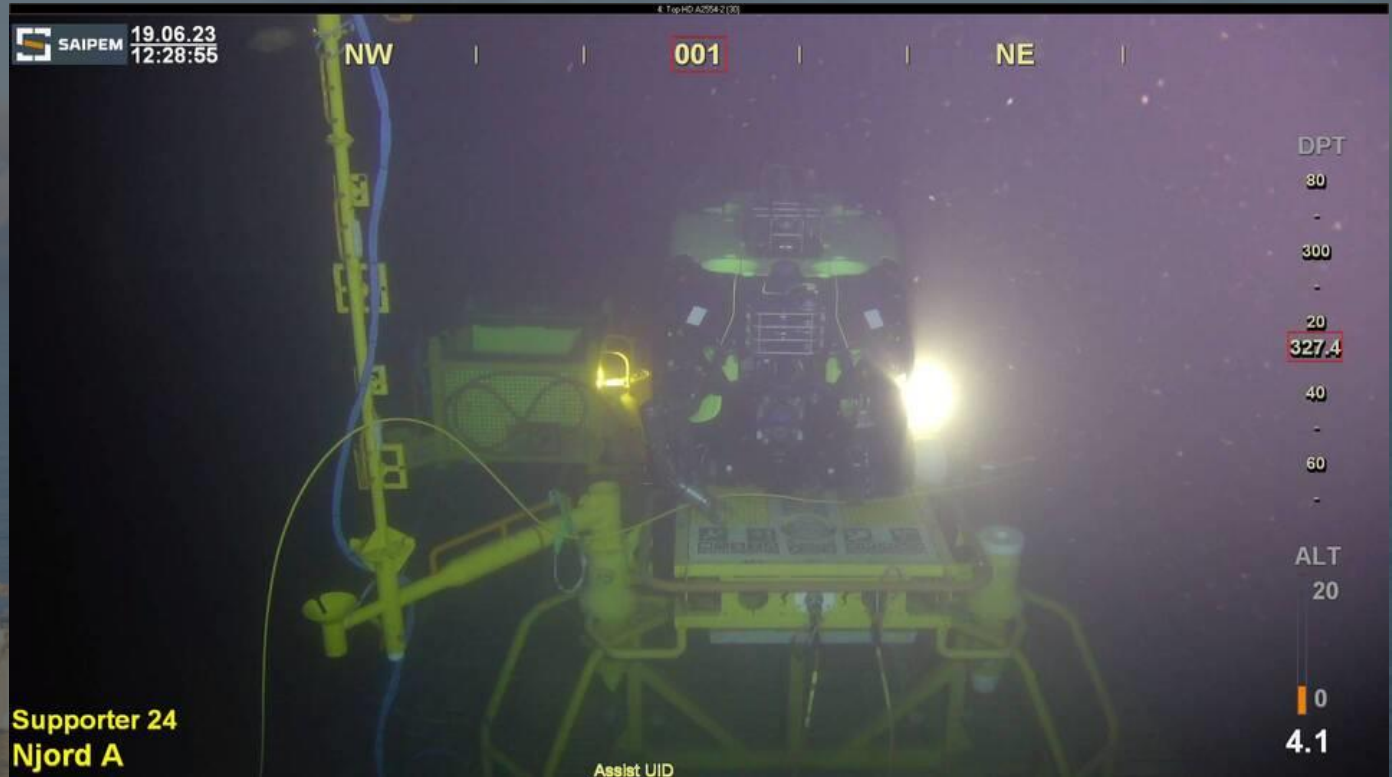
- The 18<sup>th</sup> of July the Hydroner was launched to sea at Njord.



# Implementation process of UID Hydroner at Njord A

2023

July



- The 18<sup>th</sup> of July the Hydroner was launched to sea at Njord.

# Implementation process of UID Hydroner at Njord A

2023 December



- The 2<sup>nd</sup> of December the Hydroner was recovered after completing a 165 day long first dive

# Implementation process of UID Hydroner at Njord A

2024

2024 will be a very interesting year for the Hydroner at Njord

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