

Heimdal Spare Parts storage

Offshore Norge Decom seminar
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Outline. Handling the Heimdal Spare Parts storage

Background

Why?

What did we do?

Who does it?

Special measures to boost internal sales.

Results. Current status.

Lessons Learned



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Spare parts on an Offshore platform

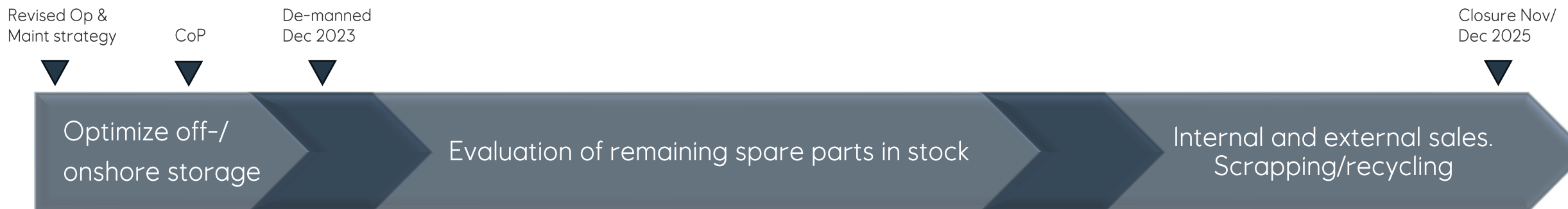
- Spare parts on the platform
 - The parts are needed immediately to maintain safety and production/operation. Will follow the platform to shore
- Spare parts in onshore storage
 - General spare parts that can be used on many platforms
 - Delisted from Heimdal
 - **Platform specific spare parts owned by the platform/licence**



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Background

- **Revised Operation and Maintenance strategy** implemented in last phase of operation
 - Optimization of Offshore and Onshore spare part storage
- **Cease of Production (CoP)** on Heimdal August 2023
- **Plant de-energizing** and pipeline cleaning
- **Shut-down.** De-manning 10th of December 2023
- **Evaluation and handling of remaining spare part storage** after de-manning
 - Internal and external sales, scrapping/recycling



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Why?

- **Spare Parts Inventory Represents Significant Value**
- **Inventory costs money, both offshore and onshore.** Early optimization is crucial as it simplifies future tasks.
- **There is potential for other licenses to take over parts,** including those that may be difficult or impossible to source. This could potentially save us from future modification projects.
- **Environmental benefits by avoiding scrapping parts,** including reducing the CO2 footprint associated with producing new components.



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Guidelines for selling and scrapping, in prioritized order

1. Internal sale:

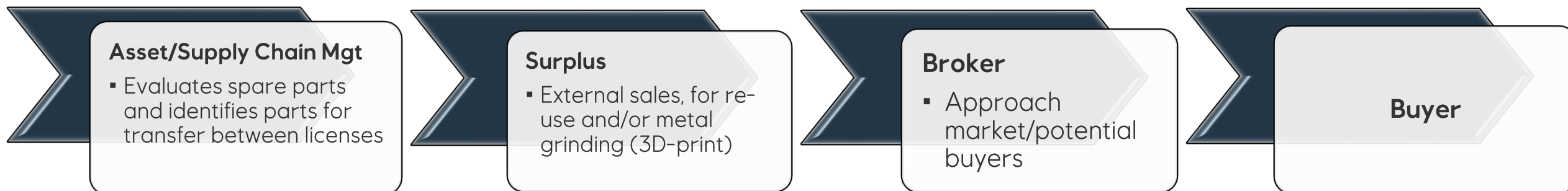
- Operator prioritize to sell surplus material to other licenses that have the same material tagged to their installations in SAP.

2. External sale

- Operator surplus department sells externally according to ordinary processes regulated by government.
- This process handles both external sale for re-use, and sale for metal grinding (3D print).

3. Scrapping:

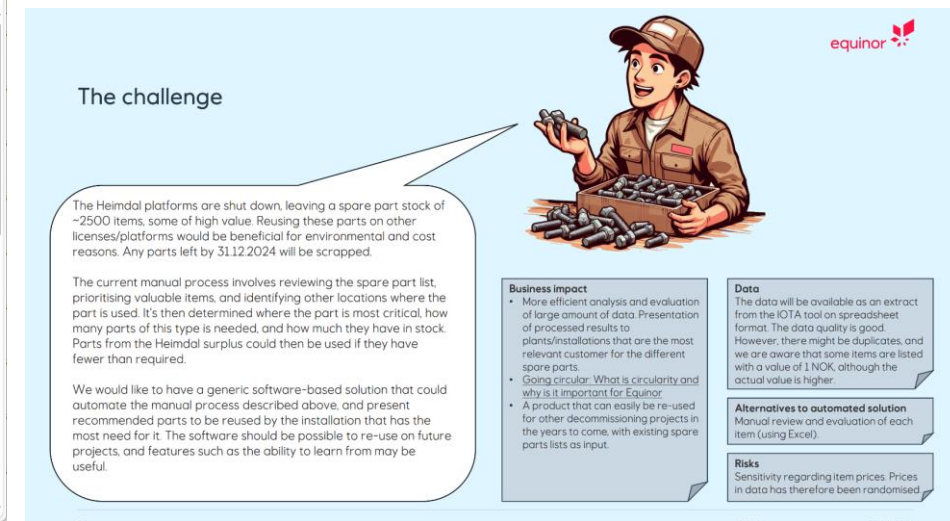
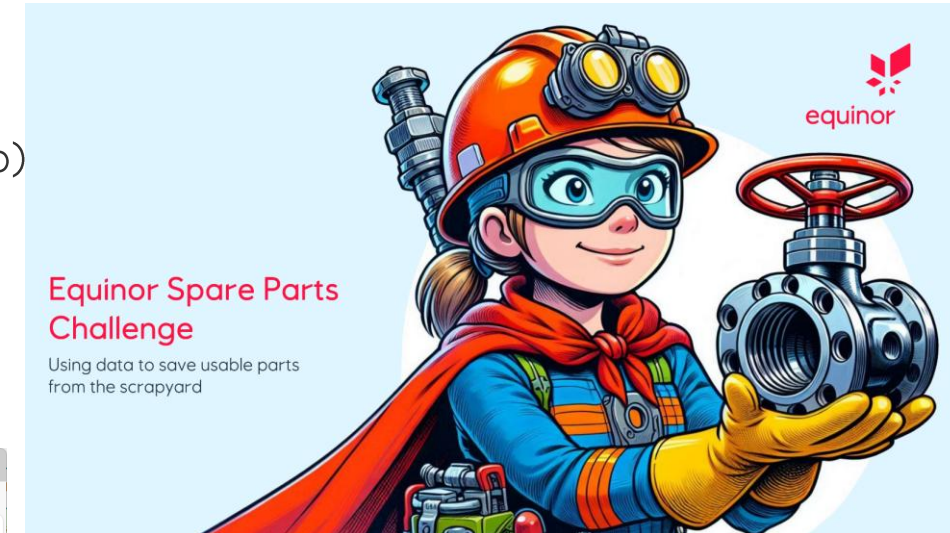
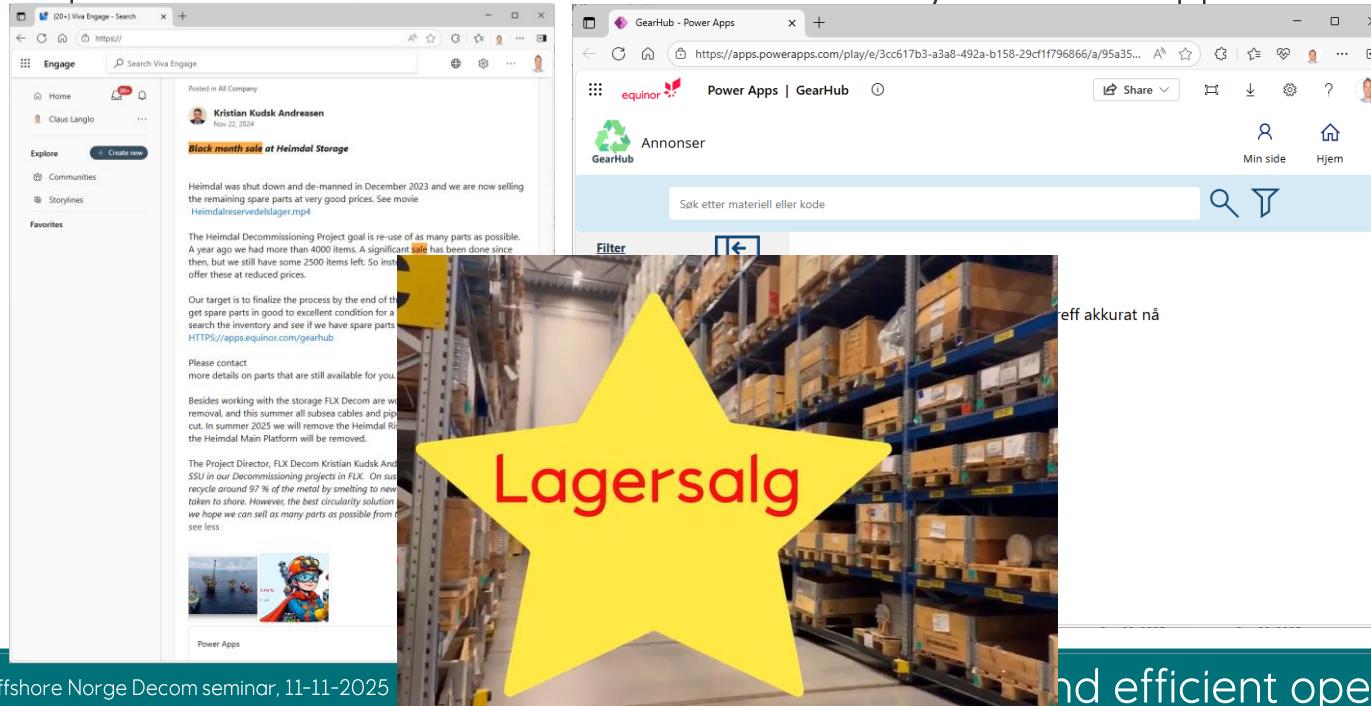
- In cases where none of the above is possible, parts are sent for scrapping/recycling



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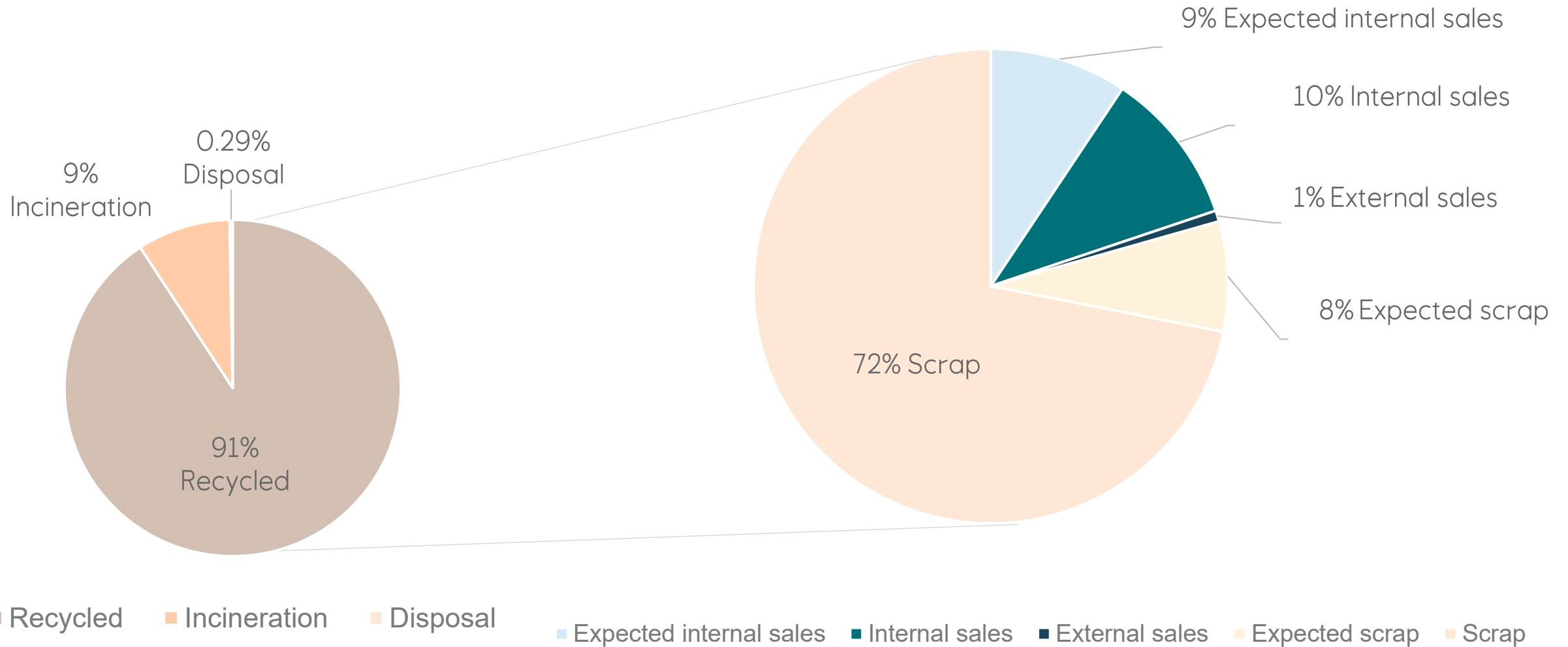
Measures to “boost” internal sales

- “Black Month sale” marketing on Viva Engage
 - Including (low-budget) film
- **Uploading parts to Equinor Gear Hub** (internal market place, similar to finn.no)
- Explore use of **Artificial Intelligence**
 - “Hackathon” competition for summer students (1 week)
 - Analyze spare parts register, and recommend transfers to other licenses
 - Impressive results, the winner team created a fully functional app



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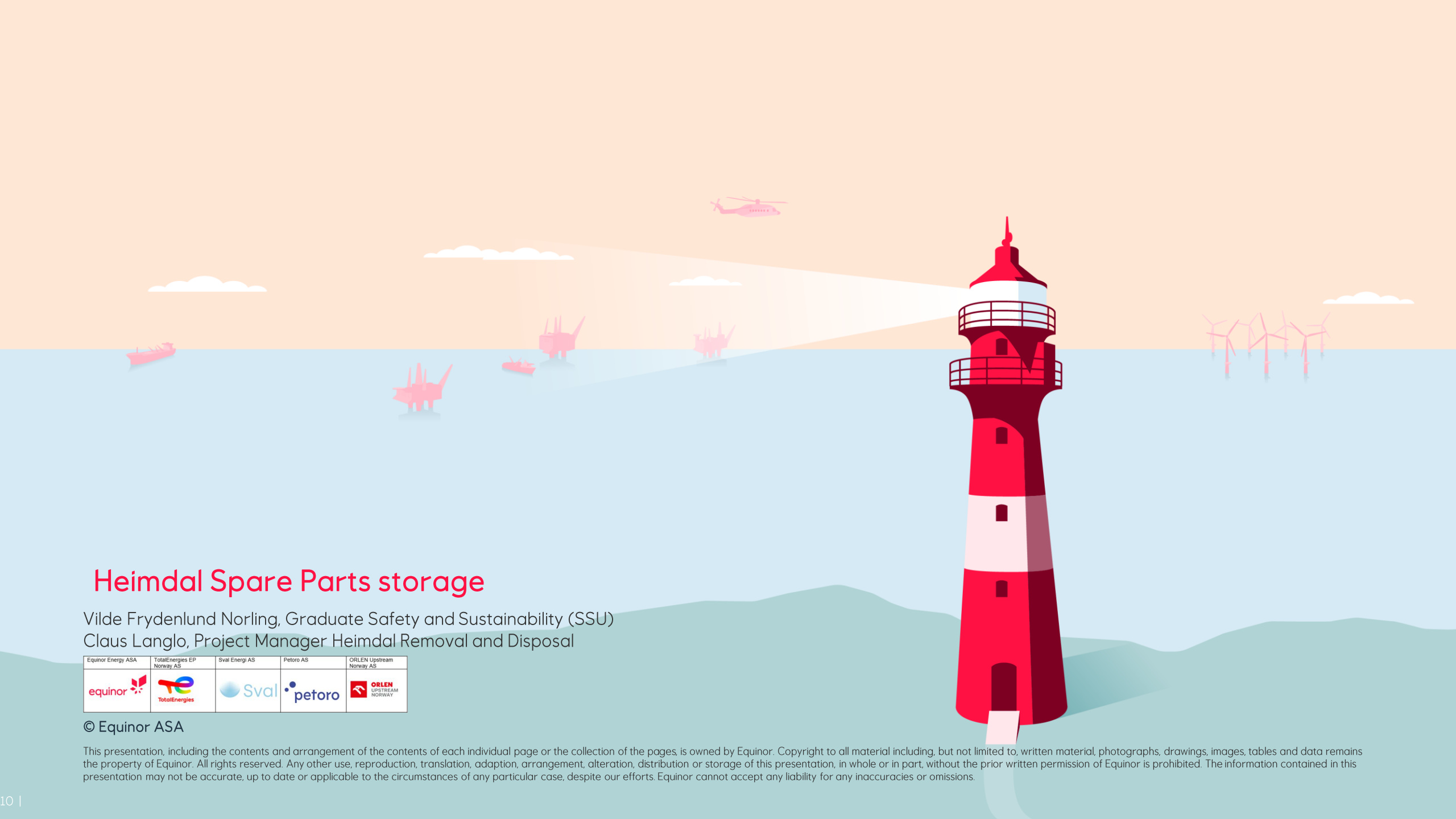
Current Status Heimdal onshore spareparts storage



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Lessons learned

- **Getting Started Early** (Definition Phase of the Project)
- **Time-Consuming Process:** Significant manual work. Opportunities for AI to assist.
- **Roles and Responsibilities. Work Process and guidelines.**
- **Marketing**
- **Challenges in External Sales:** Difficulties arise due to compatibility, documentation, and liability concerns.
- **For Heimdal, we have sold more than ever before,** but there is still room for improvement. We believe it is worthwhile to explore optimization in this area.
 - **Sales Revenue/Reduced Expenses**
 - **Opportunities for Procurement/Price for Those Taking Over**
 - **Potential in use of AI**
 - There will still be a need for human evaluations.
 - **Environmental Aspect.**
 - Potential in grinding metal parts for 3D print (additive manufacturing)



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