

# Share today, invest in tomorrow

Virtual Inventory is a digital solution  
for sustainable material management





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# Changing a mindset, striving for efficiency

The NCS operators focus on efficiency, standardization, and cost savings across all areas. To create a new and forward-looking offshore oil and gas industry, companies unite to maximize the value and strengthen the competitiveness of NCS and its representatives. Through collaboration, we want to achieve robust material management and the possibility to reduce the total cost and size of inventory.



## Sustainability

- Responsible consumption and production
- Standardization
- Digitalization



## Environment

- Climate Goals
- Efficient resource and energy consumption



## Competitiveness

- Exploration
- Development
- Operating costs optimization

# Resolving challenges

The challenges the operators face are similar and result in costly routines. A silo-based mindset, dispersed tools, lack of common standards for proper material management lead to radical excess of inventory, environmental and regulatory non-compliance, and over-expenditures.



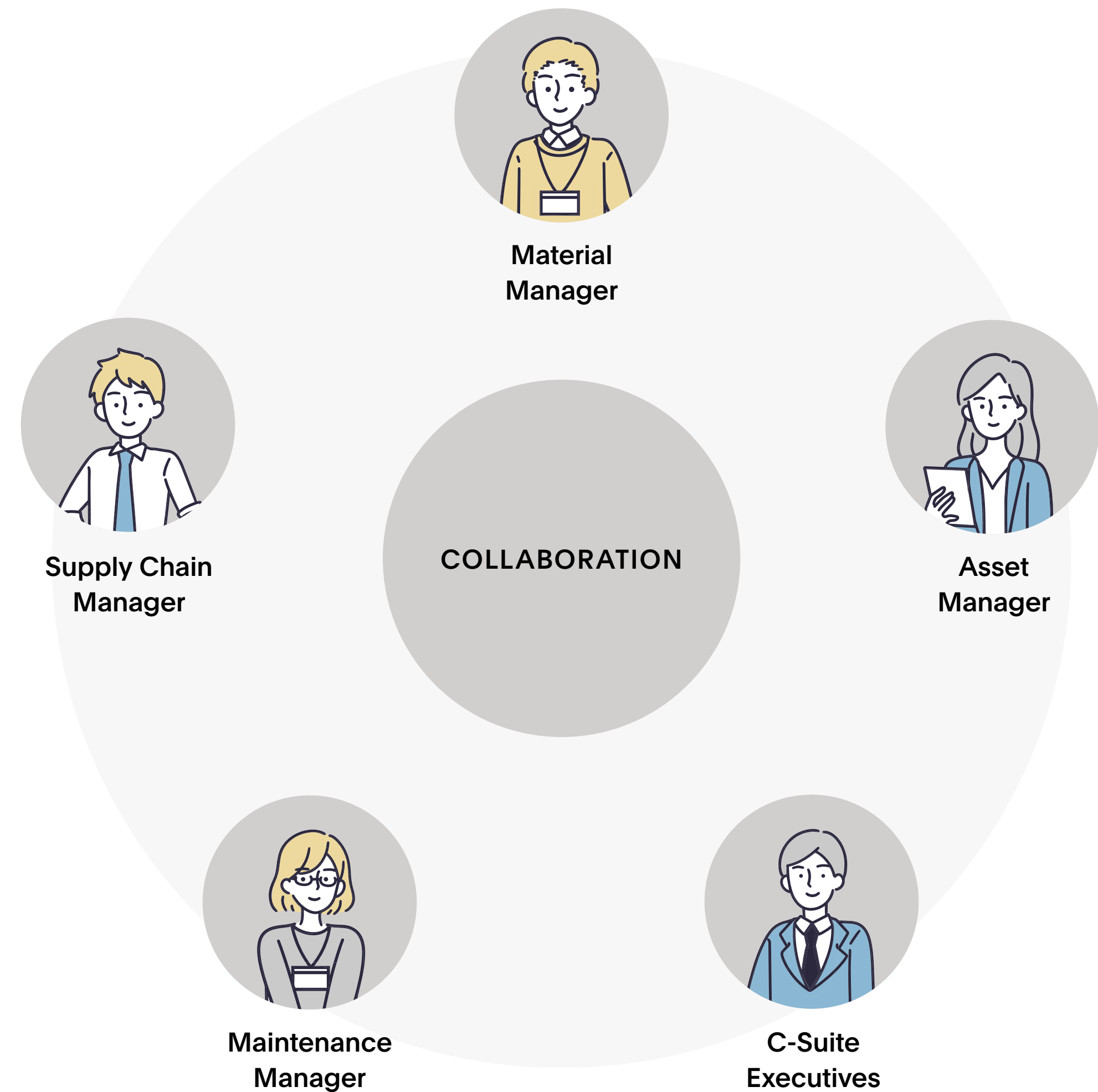


**Thinking  
about people**



# Thinking about people

We care! We have joined efforts to find an ultimate solution that helps to resolve our common challenges through interparty collaboration. People working on NCS can now avoid operational silos and handle material management efficiently contributing to a new sustainable digital community.





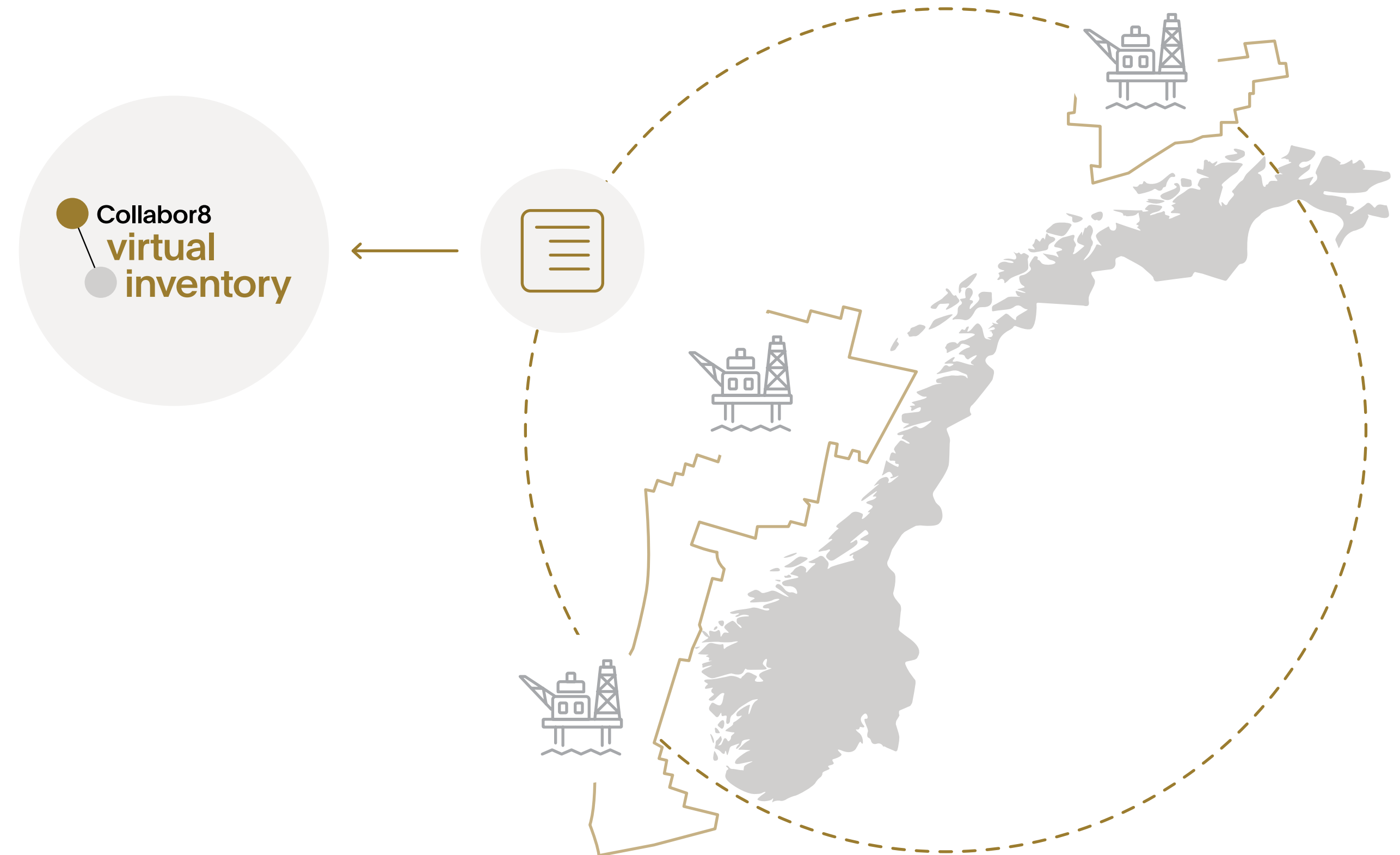
**Making  
the difference!**



# Making the difference

**Virtual Inventory** is a single platform for material management aiming to strengthen collaboration in the NCS Ecosystem and enable synergies between services in the Norwegian Oil & Gas portfolio.

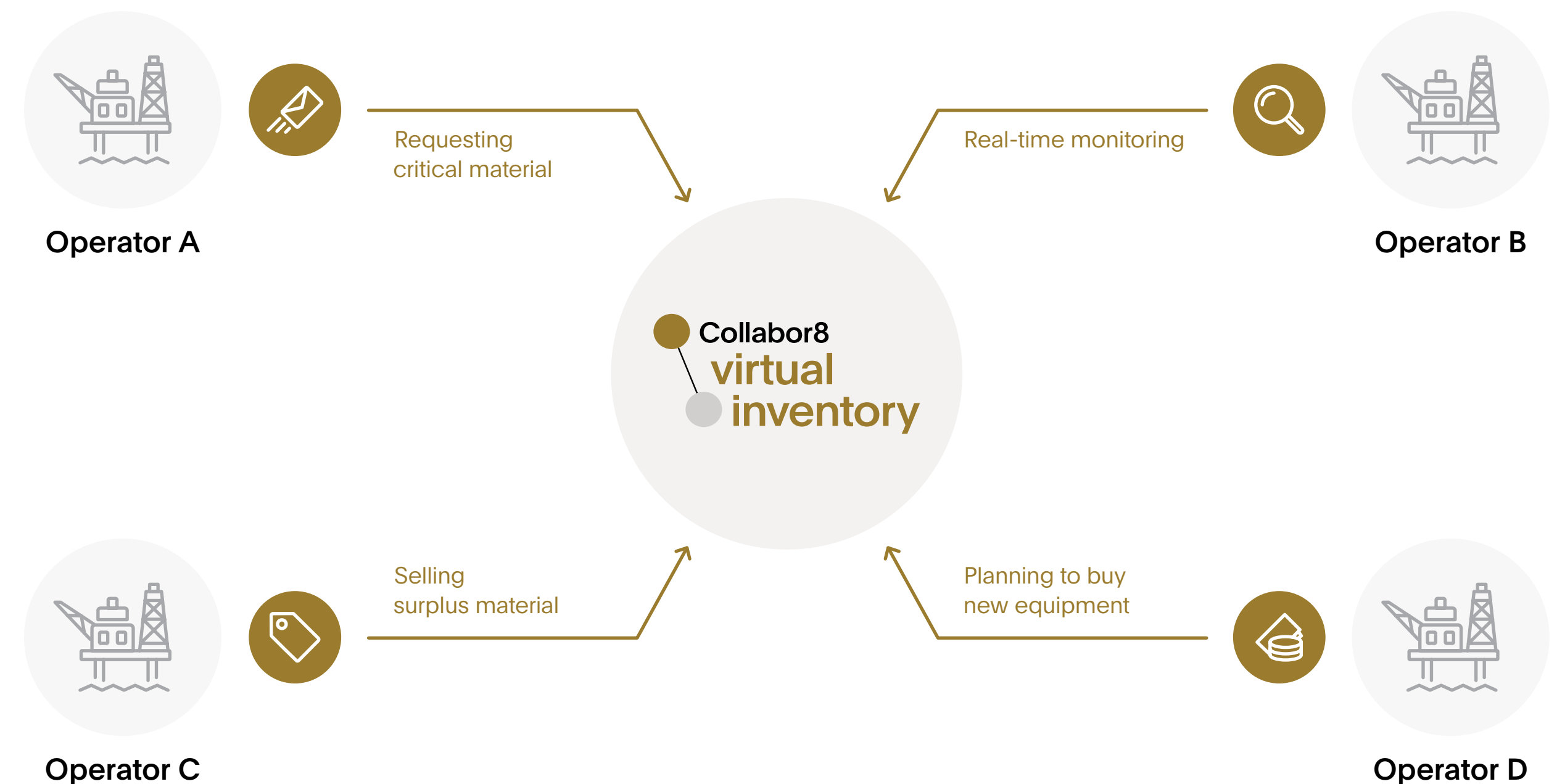
 Watch video





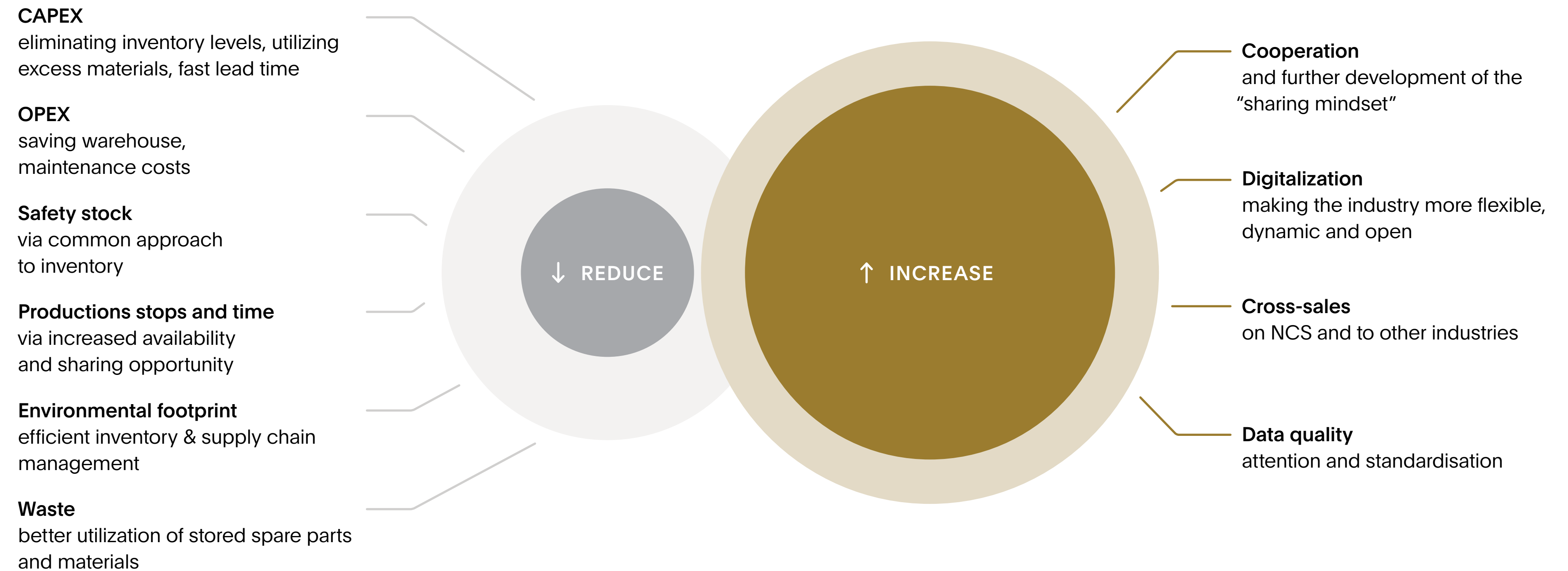
# Holistic approach to collaboration

From now on, operators can access high-quality data available in the Virtual Inventory to find all needed information about tools, spare parts, and equipment already in stock from other operators, and buy or borrow necessary items. In this way, Virtual Inventory facilitates a broader approach and contributes to the reduction of inventory levels and an increase in overall productivity.





# One step forward to achieving goals





# Real-life examples

## ● Skarv

*The Skarv license had an urgent need to acquire proximity sensors for its compressors to avoid production losses. It would take several weeks to deliver this item from the supplier, but another operator had a surplus inventory of the required product and could share it within 24 hours. In this way, Skarv avoided downtime with a potential income loss calculated at NOK 18-84 million for the operator and its fellow licensees.*





# Real-life examples

## ● Alvheim

*The Alvheim license needed spare parts for a pump to avoid a potential production shutdown. These components were identified within 12 minutes after the submission of the request. Alvheim received the required parts in less than a day after the posting on the VI platform. Meanwhile, the delivery time from the supplier was estimated to be nine weeks.*

*This collaboration avoided potential downtime not only for the Alvheim license but also for the tied-back Bøyla, Volund, and Vilje fields.*



# Real-life examples

## ● Eldfisk

*A circuit board was required for the Eldfisk fire-alarm system. Equinor responded to the request within six minutes and fetched the component from an offshore installation by helicopter within a day. The board was installed offshore on Eldfisk within four days, saving the licensees 12 weeks of the delivery and installation time which they would otherwise face if ordering from the supplier.*



# Virtual Inventory walkthrough



# Virtual Inventory request types

The process / entity within the VI system that allows buying an item is called a request. Each Request is based on one type of item with a specific location of a specific operator (owner). The Request in the VI system can be:

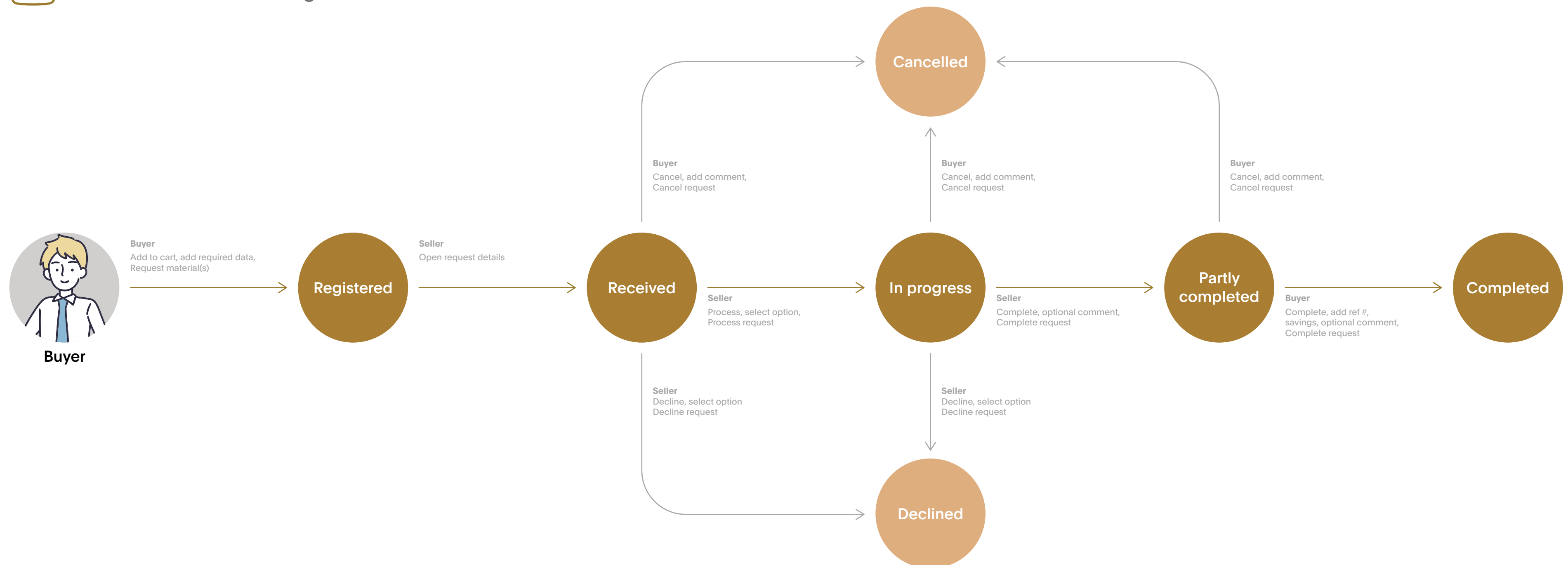
<b>Regular Request</b>	Based on inventory item from the VI system.	Criticality: any. Recipients: one.
<b>General Request</b>	Based on requester free input or on inventory item from the VI system.	Criticality: not high / highest. Recipients: multiple.
<b>Critical Material Request</b>	Based on requester free input or on inventory item from the VI system.	Criticality: high and highest. Recipients: multiple.



# Regular request flow

An item for internal selling / sharing can be requested by a buyer from another operator company to purchase (see scheme below). It is crucial to add savings from a successful deal so the buyer will specify numbers before request completion if possible.

 Watch the walkthrough

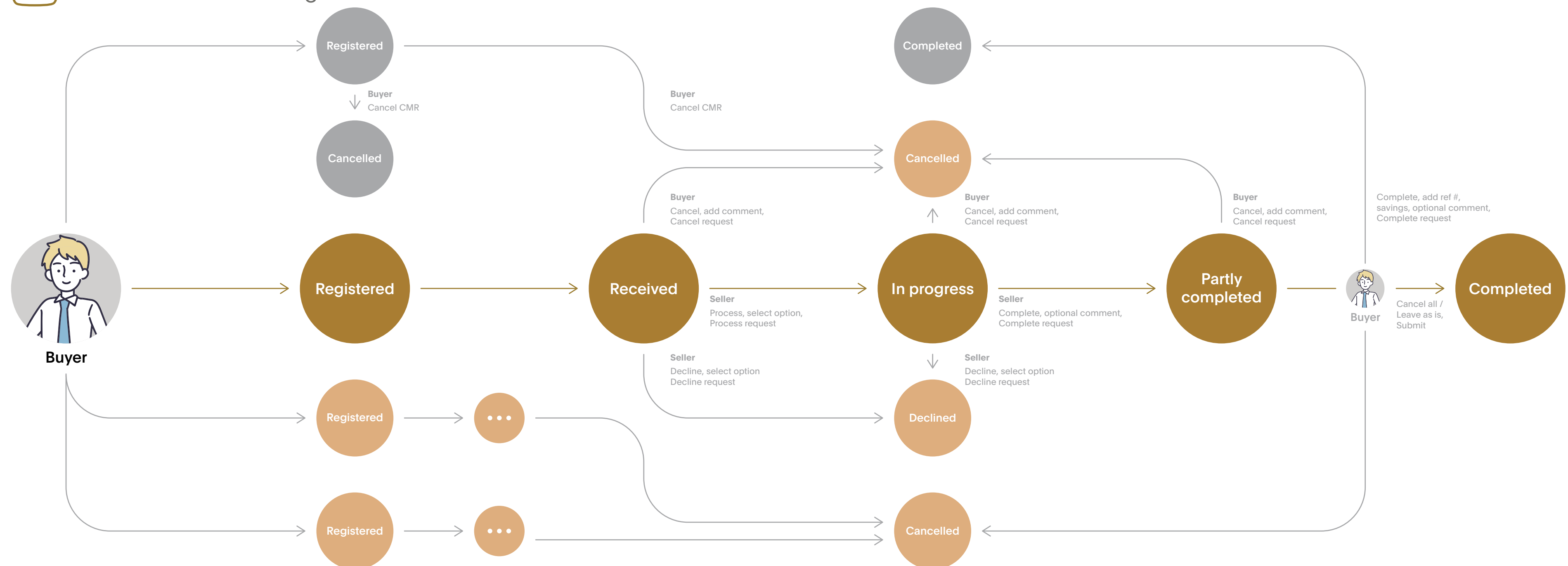




# Critical material request

Critical material request — based on requester free text input or on inventory item data from the VI system, criticality is “Production loss within 1-2 weeks” or “Immediate production loss”, multiple recipients. **CMR can be created:** a) within the VI using the CMR button; b) outside of the VI using the external CMR form, the request will be added to the VI for internal handling.

 Watch the walkthrough

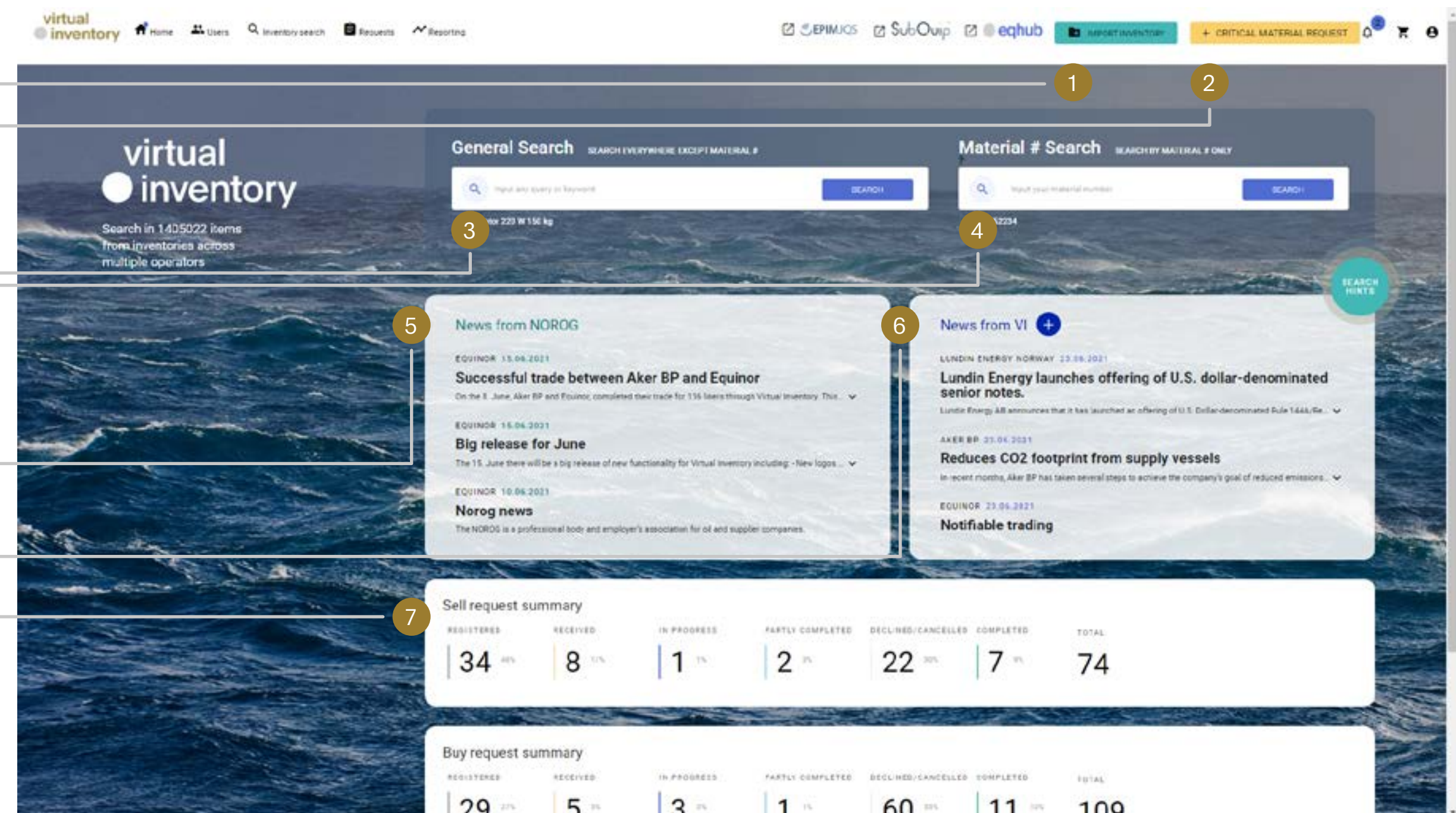




# Home page — starting point for any registered user

 Watch the walkthrough

1. Easy inventory import
2. Quick CMR request with free text input of material data
3. Fill with inventory name or other parameters
4. Type the inventory internal material number
5. Read news from NOROG about the system changes
6. Share news of your company in VI context
7. Instant monitoring board



The screenshot shows the virtual inventory home page with the following features highlighted by numbered callouts:

- 1:** Top navigation bar with links for Home, Users, Inventory search, Requests, and Reporting.
- 2:** Top right navigation bar with links for EPI/MJCS, Sub-Group, eqhub, and a button for CRITICAL MATERIAL REQUEST.
- 3:** General Search bar with the placeholder text "Input any query or keyword".
- 4:** Material # Search bar with the placeholder text "Input your material number".
- 5:** News from NOROG section, featuring articles like "Successful trade between Aker BP and Equinor" and "Big release for June".
- 6:** News from VI section, featuring articles like "Lundin Energy launches offering of U.S. dollar-denominated senior notes" and "Reduces CO2 footprint from supply vessels".
- 7:** Instant monitoring board showing Sell request summary and Buy request summary.

**Sell request summary:**

REGISTERED	RECEIVED	IN PROGRESS	PARTLY COMPLETED	DECLINED/CANCELLED	COMPLETED	TOTAL
34	8	1	2	22	7	74

**Buy request summary:**

REGISTERED	RECEIVED	IN PROGRESS	PARTLY COMPLETED	DECLINED/CANCELLED	COMPLETED	TOTAL
29	5	3	1	60	11	109



# Virtual Inventory search

There is preliminary information only on the Inventory search results page. Extended material data is available in a separate view.

1. Fill with inventory name or other parameters

2. See the whole list of the item's: Owners / Locations / Quantity

3. Create a CMR Request

4. Proceed with the regular request

5. See the full description of inventory item on a separate page

6. Use filters to narrow down the search results

The screenshot shows the 'virtual inventory' web application. At the top, there's a navigation bar with links like Home, Users, Inventory search, Requests, and Reporting. A search bar at the top center contains the text 'Input keywords'. Below the search bar, a table displays '1145 results for general term: "VALVE GT MAN"'. The table has columns for Material #, Description, Manufacturer Part #, Manufacturer, Owner, Location, and Qty. A sidebar on the right contains a 'Filter' section with expandable categories for Manufacturer, Seller, and Location. At the bottom of the table, there are buttons for 'See full overview', 'See on ESAB', 'Find supplier on ESAB', 'CRITICAL MATERIAL REQUEST', and 'ADD TO CART'. Numbered callouts (1-6) point to specific UI elements: 1 points to the search bar, 2 points to the table header, 3 points to the 'CRITICAL MATERIAL REQUEST' button, 4 points to the 'ADD TO CART' button, 5 points to the 'See full overview' button, and 6 points to the filter sidebar.





# Extended material data

There is preliminary information only on the Inventory search results page. Extended material data is available in a separate view.

1. Main inventory parameters
2. Short description
3. Long description / PO text
4. Locations of the inventory item
5. Quantity of the item in a specific location

The screenshot displays the 'virtual inventory' web application. The main search results page shows 1145 results for the term 'VALVE GT MAN'. A pop-up window titled 'VALVE, GATE:MANUAL, 4IN, CLASS 150, RF, ASTM' provides detailed information about a selected item. The pop-up is divided into sections: 'Material Information' (including Material #, Manufacturer Part #, Manufacturer, Owner, Location, and Quantity), 'Owner Information' (including AkerBP logo and contact details), and 'Material Description' (including UNSPSC Category, Material Category, and PO/Long text). The background search results table lists various valve items with columns for Material #, Description, Manufacturer Part #, Manufacturer, Owner, Location, and Qty.



# Contributors

ConocoPhillips

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Lundin  
Energy

vår energi

OK  
E&A

SPRIT  
ENERGY

wintershall dea

REPSOL

NEPTUNE  
ENERGY

OMV

Shell

equinor

Norsk olje&gass





# Become a part of the Virtual Inventory community



[www.virtualinventory.no](http://www.virtualinventory.no)

