

SeaCOP for Port Applications

Kristin Collier Valle
2023

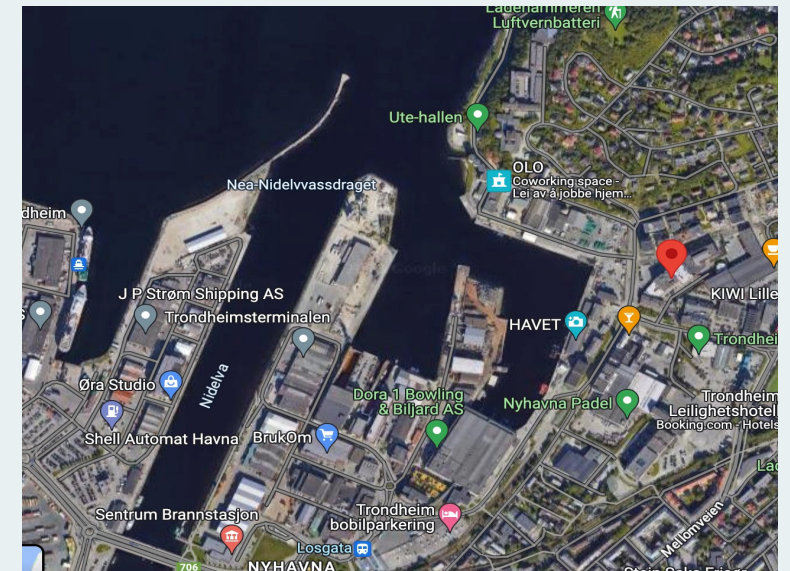
Ports and terminals all over Europe are implementing stricter environmental requirements

Fictive case: Documentation of compliance with environmental requirements related to bunkering of fuel in the Port of Trondheim

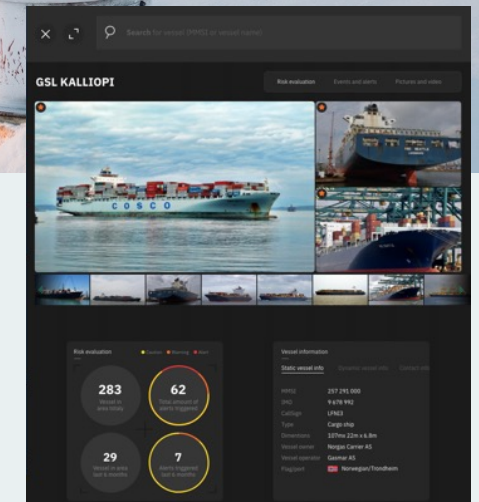
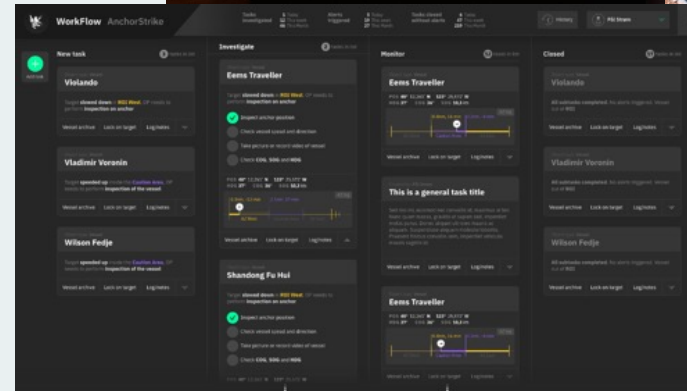
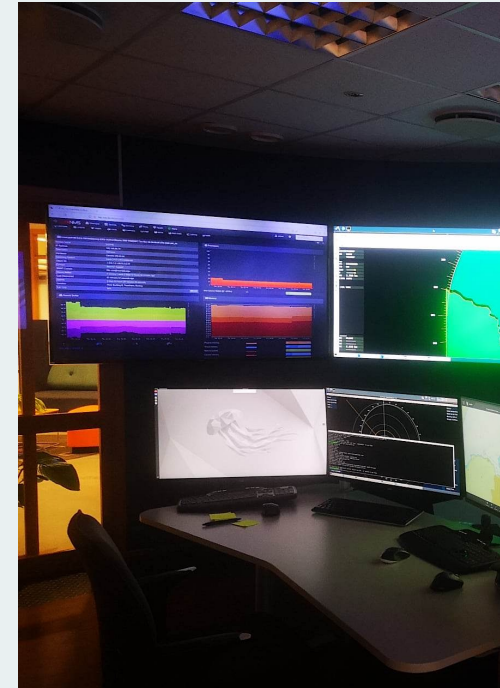
Location: NORBIT Aptomar, Stiklestadveien 1, 7041 Trondheim



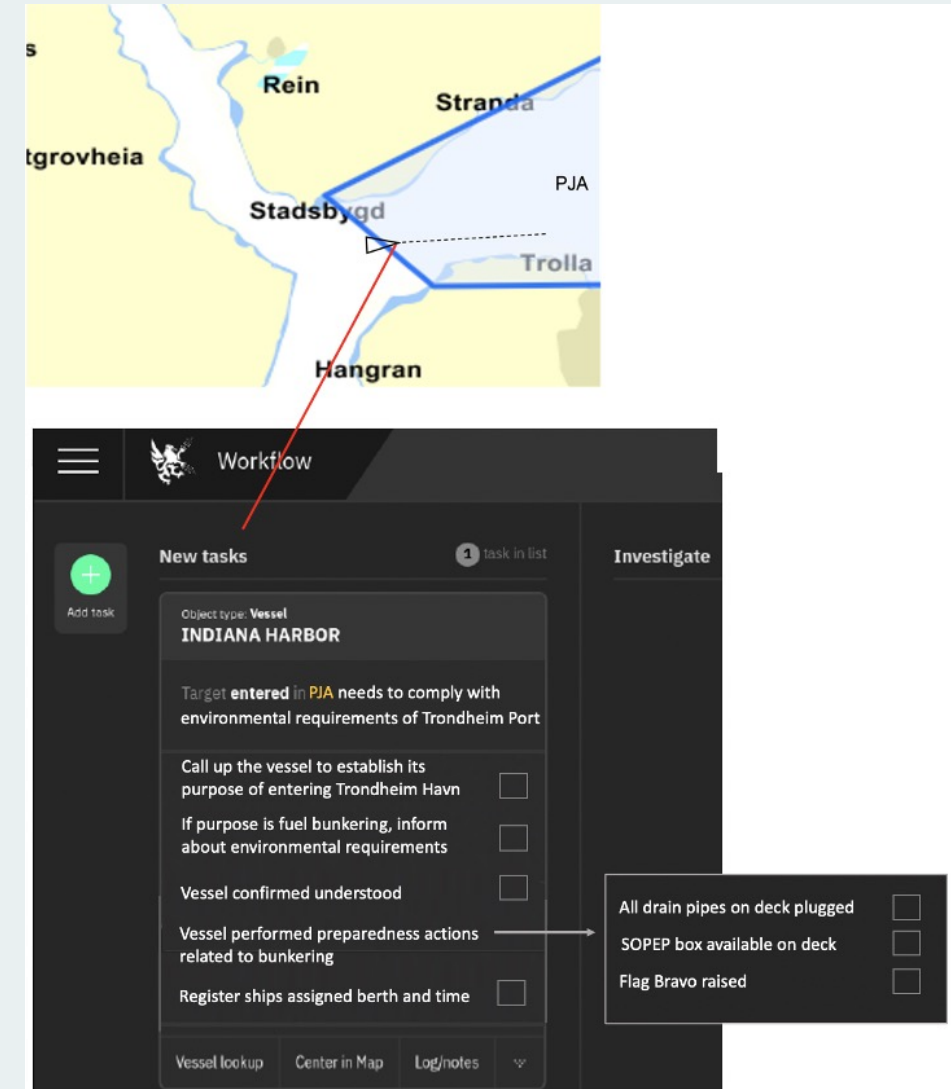
Port Jurisdiction Area (PJA)



- Operations room at NORBIT Aptomar in Stiklestadveien with:
 - SECurus
 - Radar
 - AIS receiver
 - VHF
- SeaCOP field monitoring software with:
 - Geo-fenceing
 - Workflow task manager
 - Vessel Lookup



- All ships (with AIS) that cross the geo-fence in SeaCOP, will automatically appear as new task in the Workflow Task Manager
- The following tasks on the **new task card** shall be completed by the operator:
 - Call up the vessel on VHF; establish whether the purpose of the visit is to bunker fuel
 - If fueling is the purpose, inform the vessel about compliance with new environmental requirements in Trondheim Port
 - Make sure that the vessel has:
 - Plugged all drainage holes
 - SOPEP box is available on deck
 - Bravo flag is raised
 - Register assigned pier and timepoint for bunkering from the Trondheim Port Authorities in Vessel Lookup



The operation - Investigate

- On the investigate card, the following tasks shall be completed by the operator:
- Point the IR camera (SECurus) towards the fuel hose
- Take a picture of the sea surface surrounding the vessel every 30. minutes, and one upon completed bunkering to document clean sea. These are saved as a report on the vessel in the Vessel Lookup archive
- Tick off for:
 - Completed bunkering
 - Whether the operation was clean or whether there was spillage to the sea

The screenshot displays a dark-themed user interface for an 'Investigate' task. At the top, it says 'Investigate' with a badge indicating '1 task in list'. Below this, the 'Object type' is 'Vessel' and the name is 'CG BISCAYNE'. The main task is 'Vessel bunkering fuel in PJA', followed by a 'Monitoring and documentation checklist'. The checklist includes three items, each with a circular progress indicator: 'Point IR camera on fuel hose', 'Take picture:' (with a right-pointing arrow), and 'Bunkering complete:' (with a right-pointing arrow). At the bottom of the main panel are four buttons: 'Vessel lookup', 'Center in Map', 'Log/notes', and a menu icon. To the right of the main panel is a separate checklist with five items, each with a square checkbox: 'At start of bunkering', 'After 30 min', 'After 60 min', 'After 90 min', '120 min', and 'After bunkering complete'. Below this is another section with two items, 'No spill' and 'Spill', each with a square checkbox.

Investigate 1 task in list

Object type: **Vessel**
CG BISCAYNE

Vessel bunkering fuel in **PJA**
Monitoring and documentation checklist

- Point IR camera on fuel hose
- Take picture: →
- Bunkering complete: →

Vessel lookup Center in Map Log/notes ⋮

At start of bunkering ☐
After 30 min ☐
After 60 min ☐
After 90 min ☐
120 min ☐
After bunkering complete ☐

No spill ☐
Spill ☐

The operation -In case of a spill

- If fuel was spilt and the **spill** checkbox was ticked off in Workflow, the following tasks will appear:
 - Contact the fire department: phone 110
 - Initiate video recording for documentation purposes
- All information on the bunkering will be saved on the ship in the Vessel Lookup archive, and the task can be closed when the ship leaves the geo-fence

No spill	<input type="checkbox"/>	Call 110 to report the spill	<input type="checkbox"/>
Spill	<input type="checkbox"/>	Initiate video recording for documentation	<input type="checkbox"/>

