Remote support of container handling systems

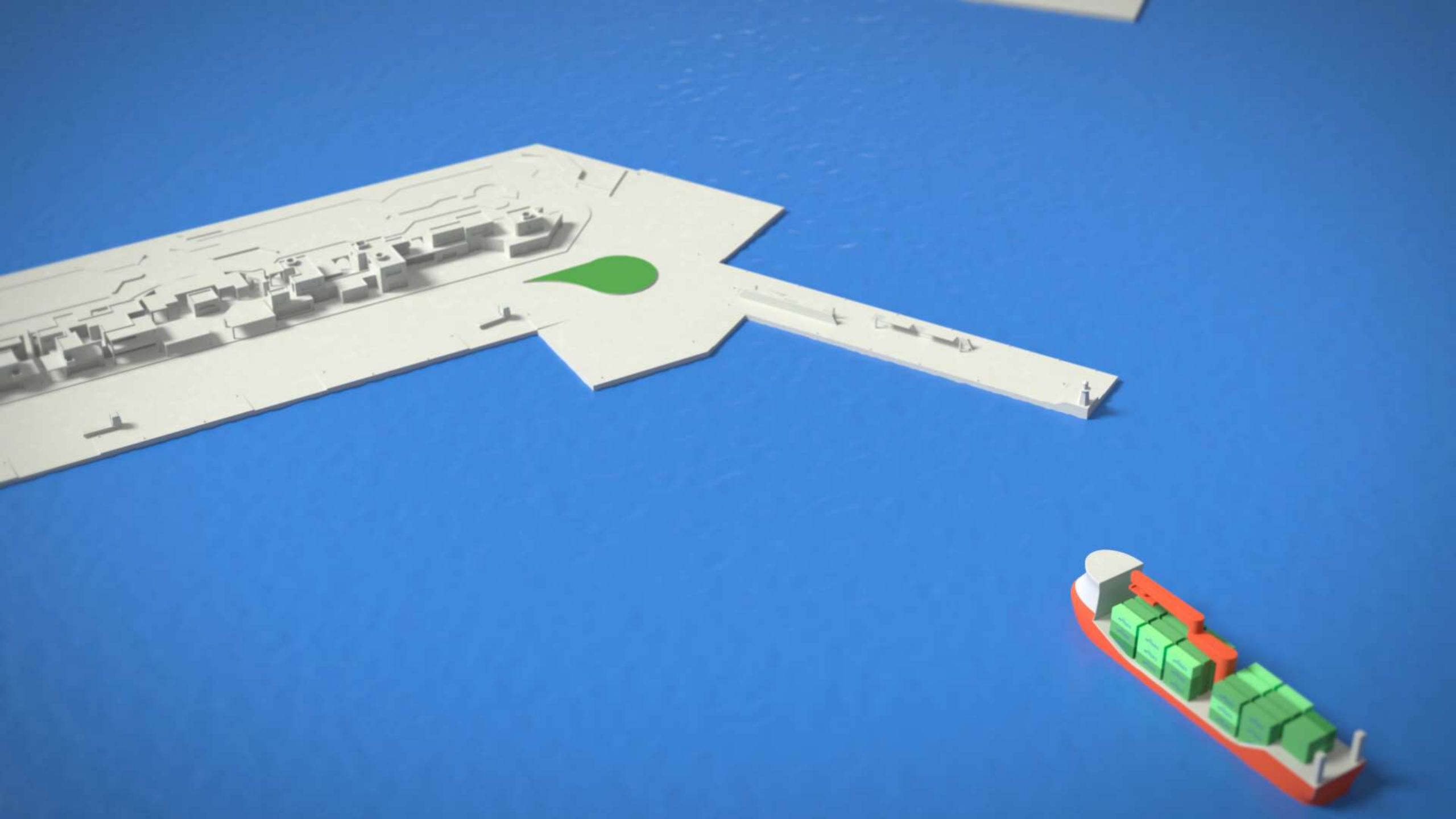
Mirjam Huis in ‘t Veld

Navigating the Future of European Waters with Autonomous Innovation

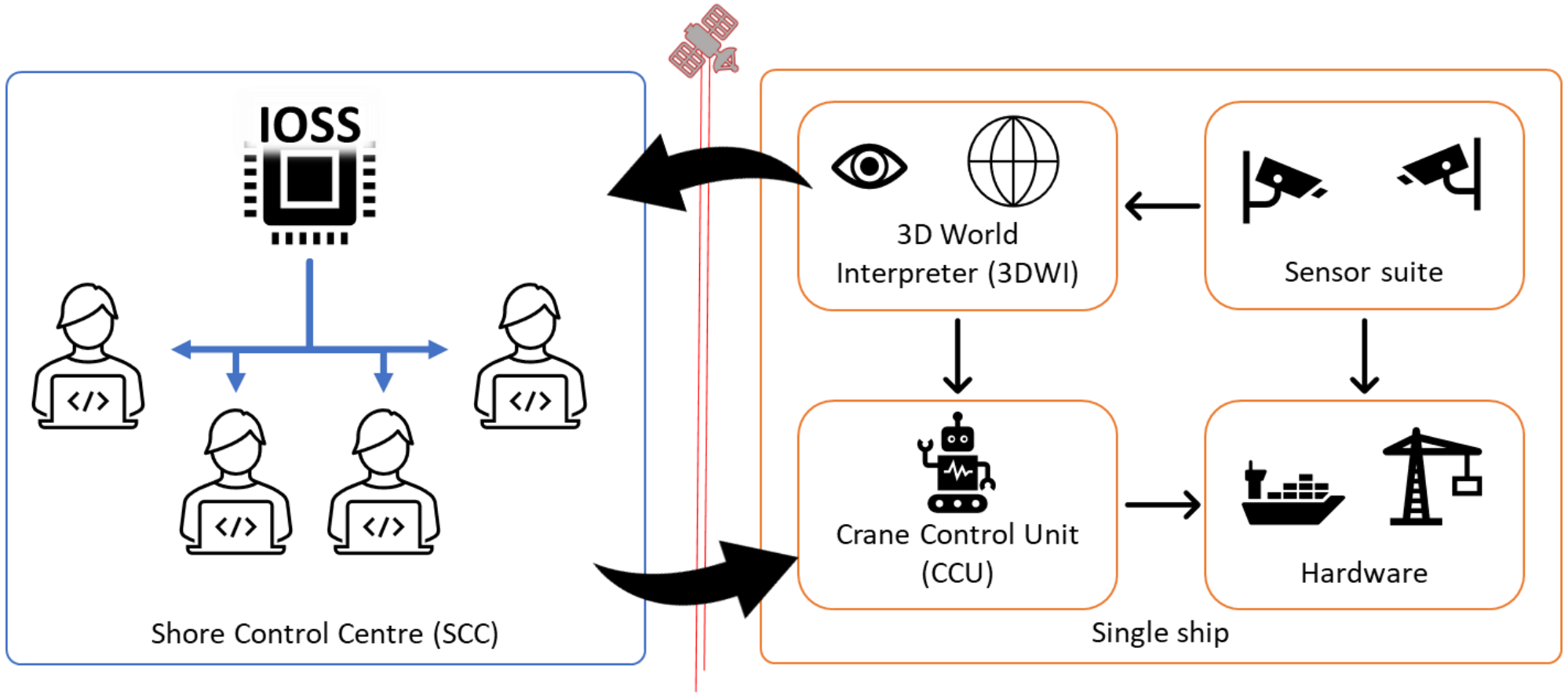
7 November 2023, Rotterdam

These projects have received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

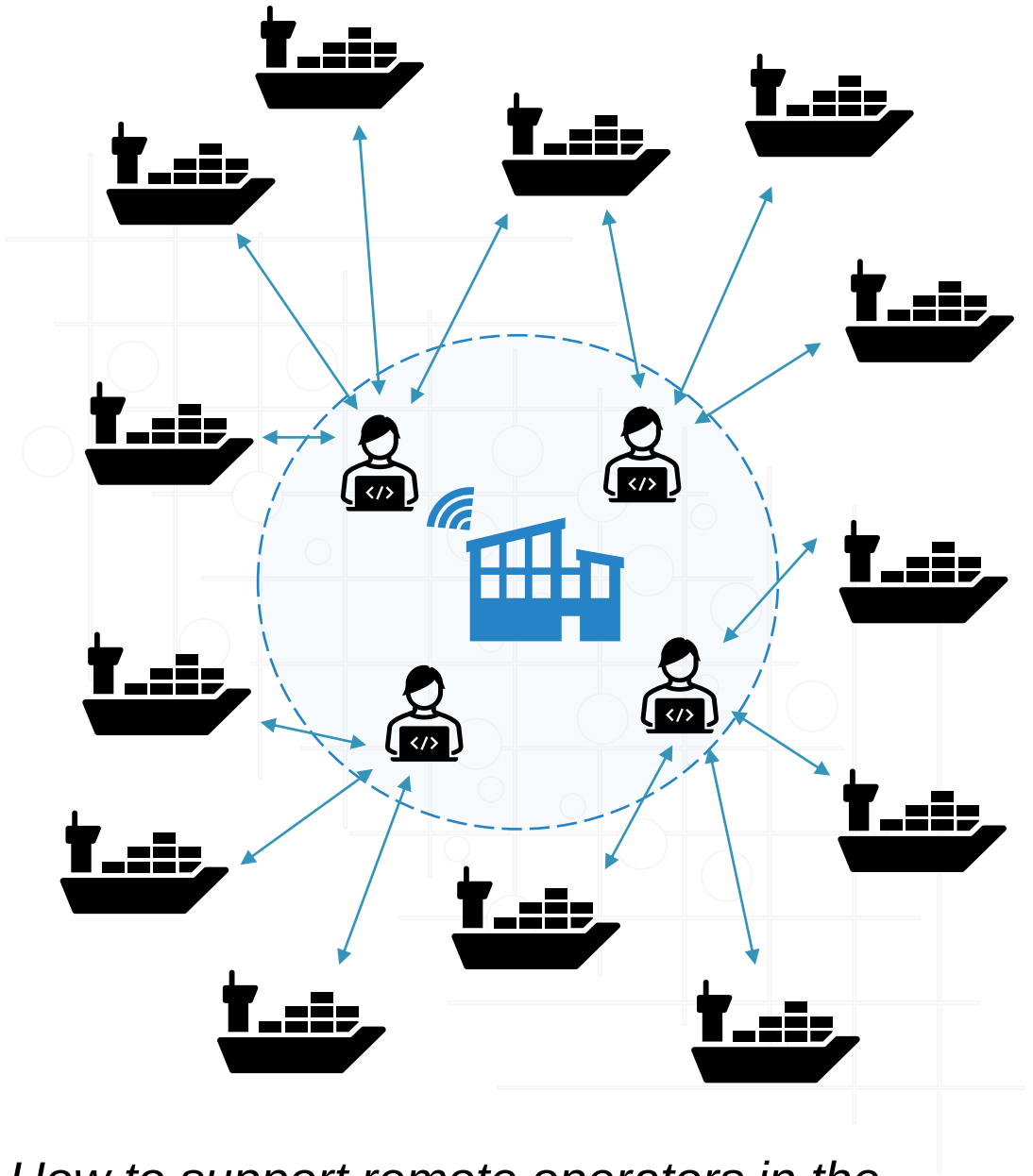
To help protect your privacy, PowerPoint has blocked automatic download of this picture.



Shore Control Centre

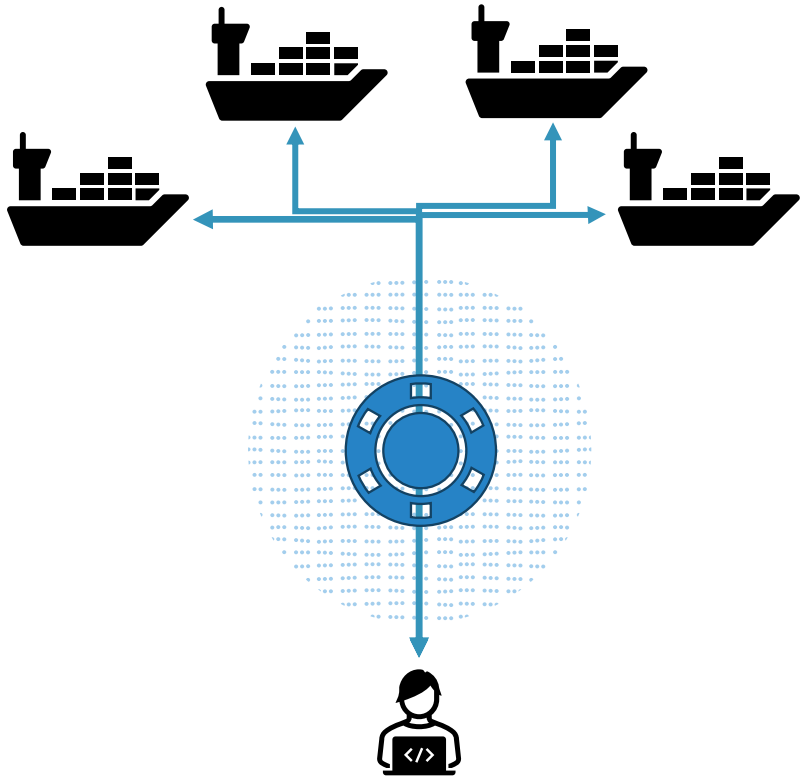


These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.



How to support remote operators in the supervision of dozens of autonomous operations in the maritime industry?

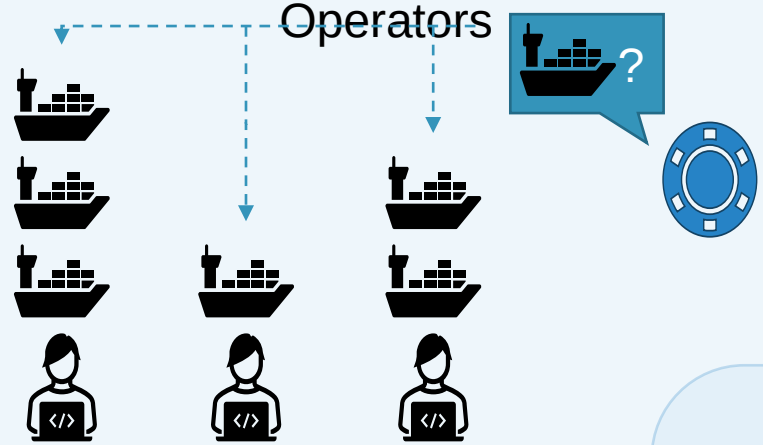
Intelligent Operator Support



These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

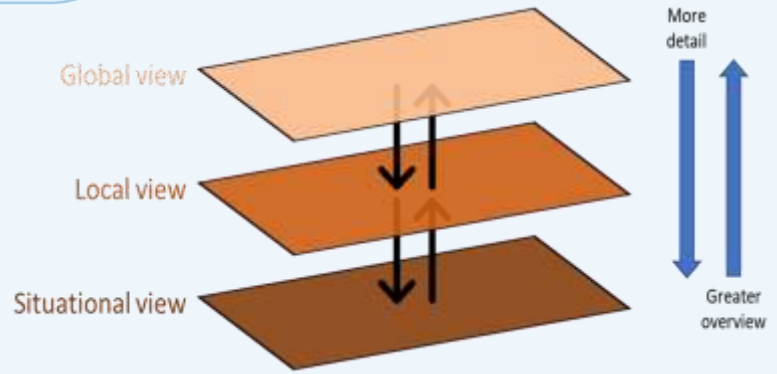
Support functions

Dynamic Allocation of Operations to Operators



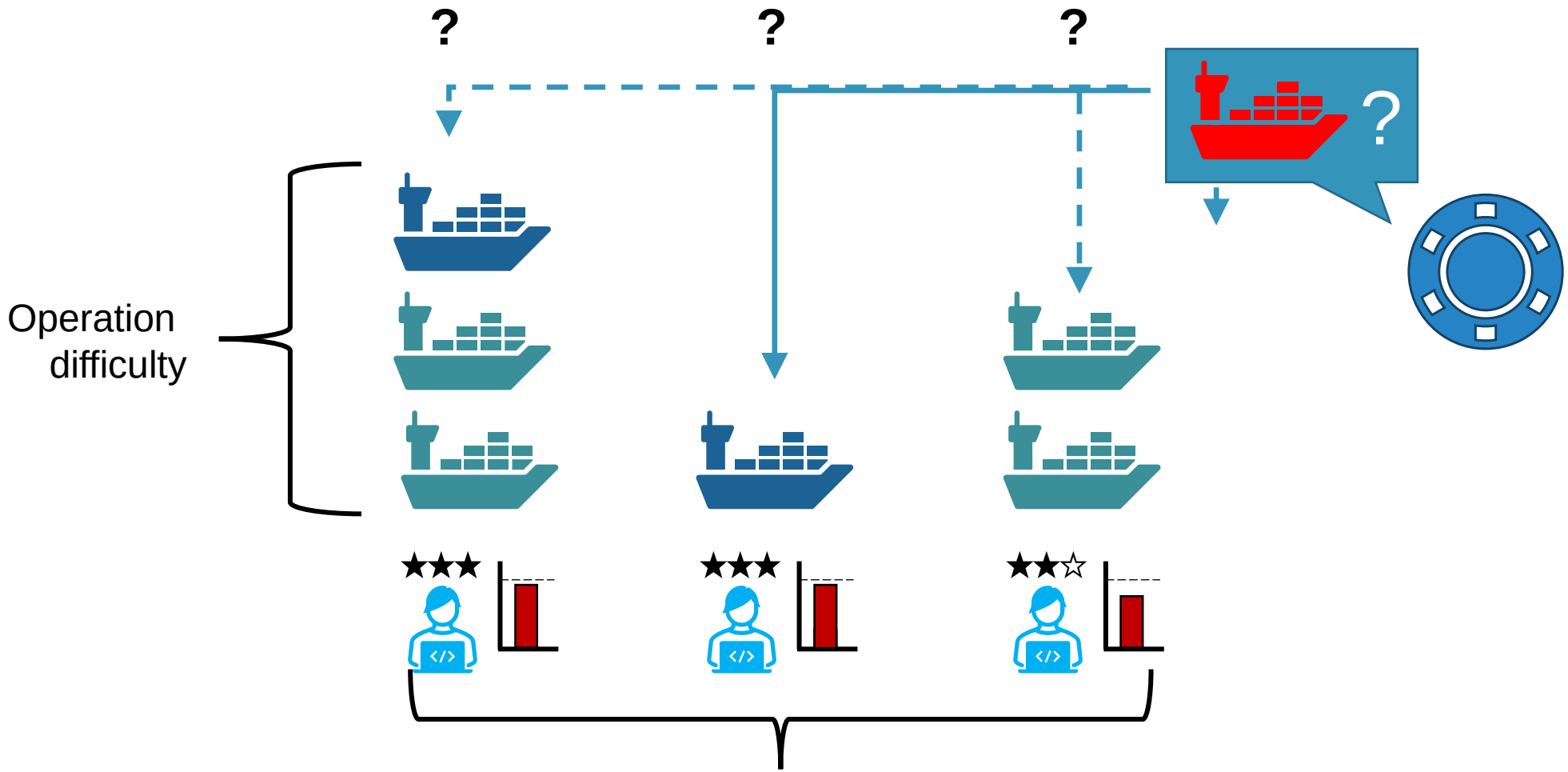
Continuous Intepretable Risk Asse

Progressive Disclosure



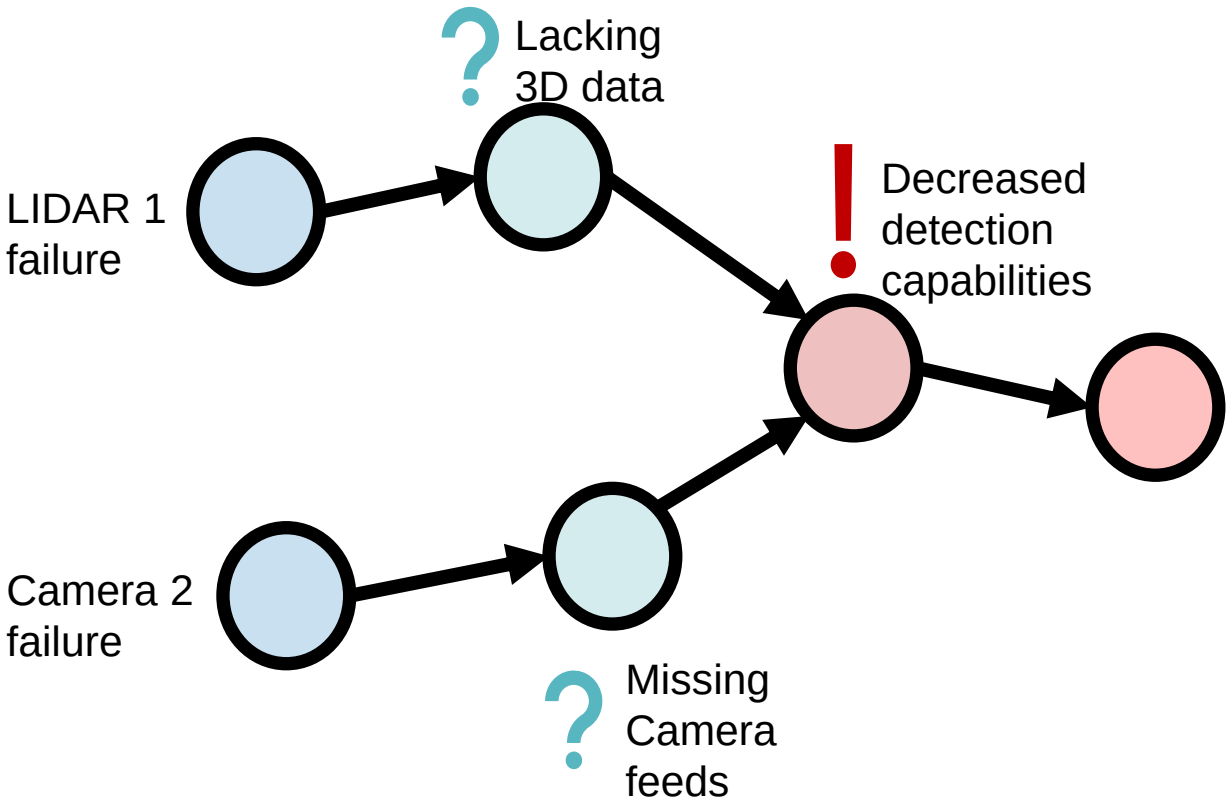
These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

Dynamic task allocation: Who does what?



These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

Risk Assessment:
Timely and interpretable notifications

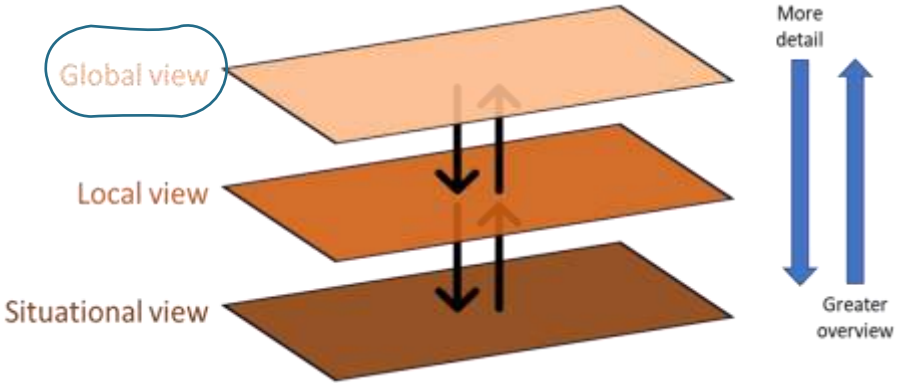


Higher risk to physical harm due to decreased detection capabilities caused by several sensors failing.

At next port, contact the local port authorities to review LIDAR 1 and Camera 2.

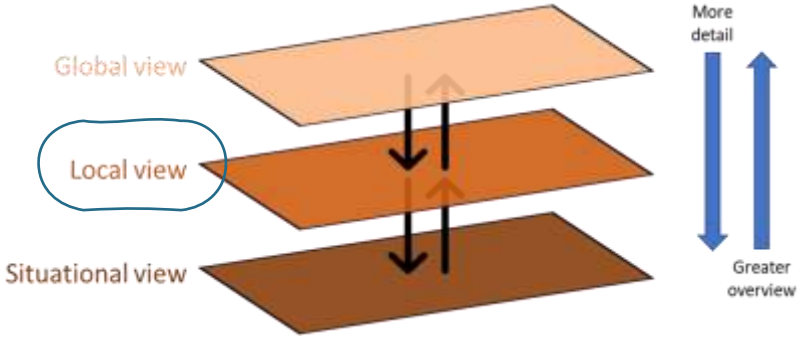
These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

Progressive Disclosure: What to show when?



These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

Progressively Disclosing Interactions: When to show what?

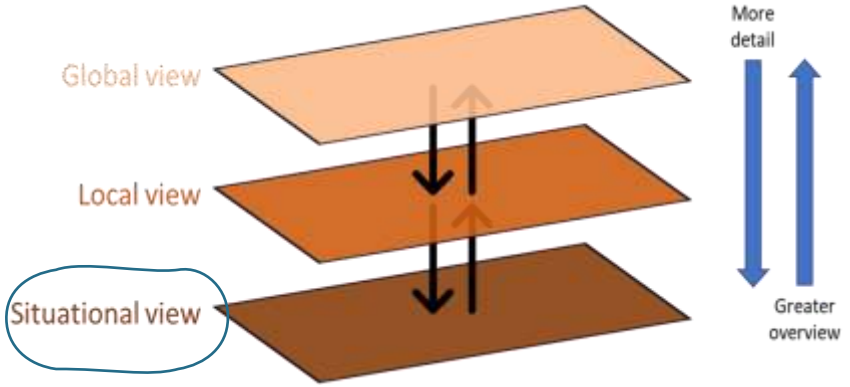


These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

Progressively Disclosing interactions: When to show what?

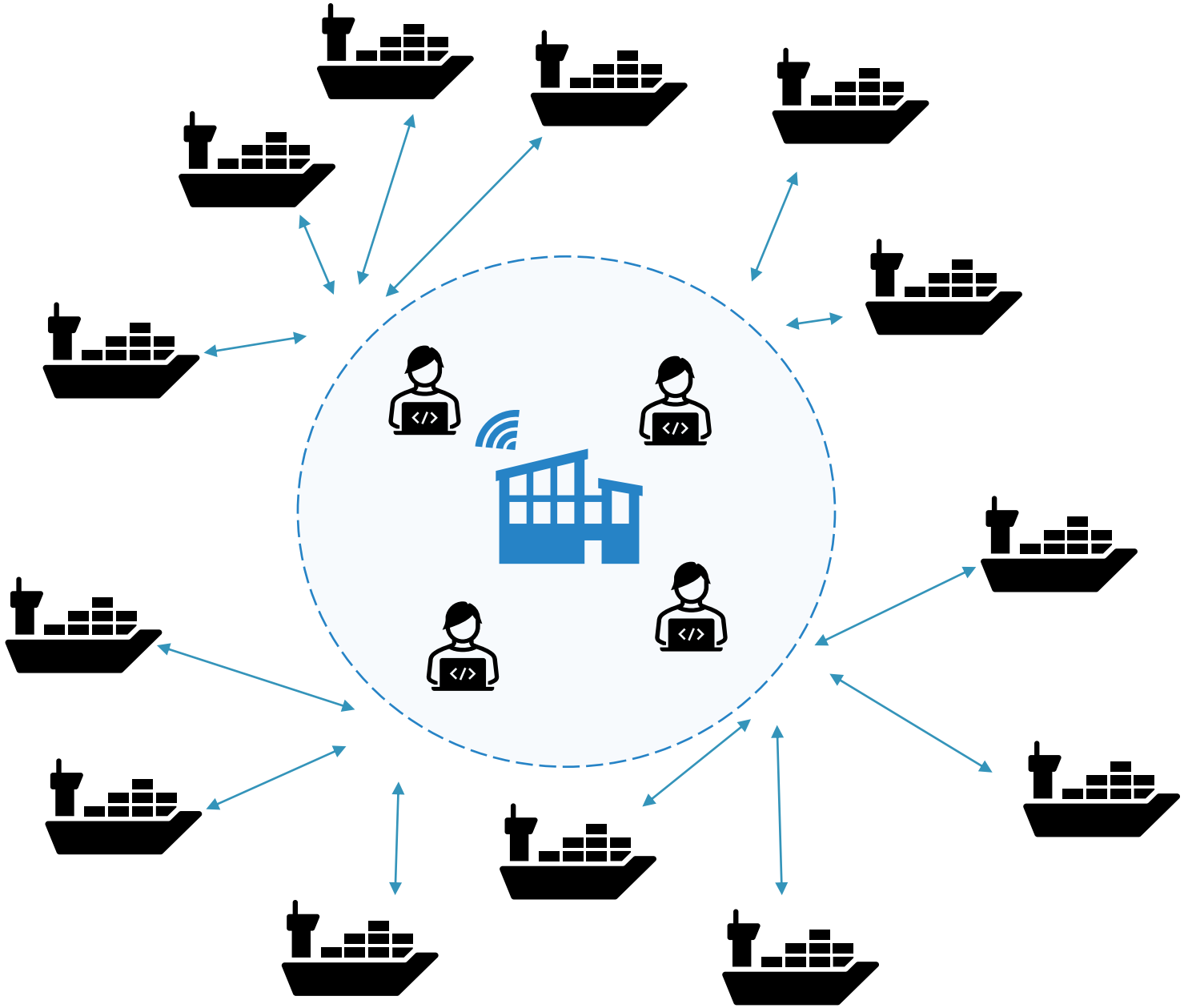
← Mykonos design

Pilot phase



These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.



These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.

Thank you

Rotterdam Ahoy

7 November 2023

These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements N° 815012, 859992, 861678.