Intelligent Operator Support for Shore Control Centers

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How to support remote operators in their supervision of dozens of autonomous operations in the maritime industry.
Port of Rotterdam, NL

Port of Mykonos, Greece
The future we contribute to...
The future we contribute to…
Intelligent Operator Support
Support functions

Dynamic Allocation of Operations to Operators

Continuous Intepretable Risk Assessment

Progressive Disclosure

Global view

Local view

Situational view

More detail

Greater overview
Dynamic Task Allocation; Who does what?

Operation difficulty

Operator expertise & workload
Risk Assessment: Timely and interpretable notifications

- LIDAR 1 failure
  - Lacking 3D data
  - Decreased detection capabilities
  - Risk to operation safety
- Camera 2 failure
  - Missing Camera feeds
  - Decreased detection capabilities

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.
Progressive Disclosure; What to show when?
Progressively Disclosing Interactions; When to show what?
Progressively Disclosing Interactions; When to show what?
Thank you for your attention!

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