



KONGSBERG

Effective Maritime Surveillance: Innovation and Collaboration for Security



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From deep sea to outer space

A modern product portfolio



The world is changing – so are we

A global business agile to geopolitical changes





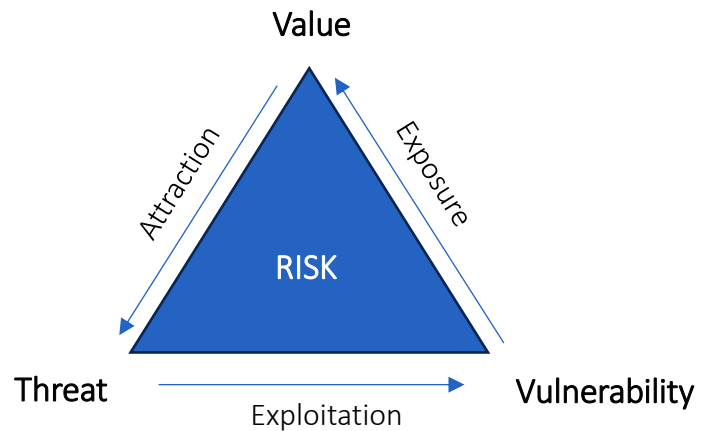
A Strategic Overview

Understanding risk and threat

- Long timelines
- Complex picture
- Gathering over time

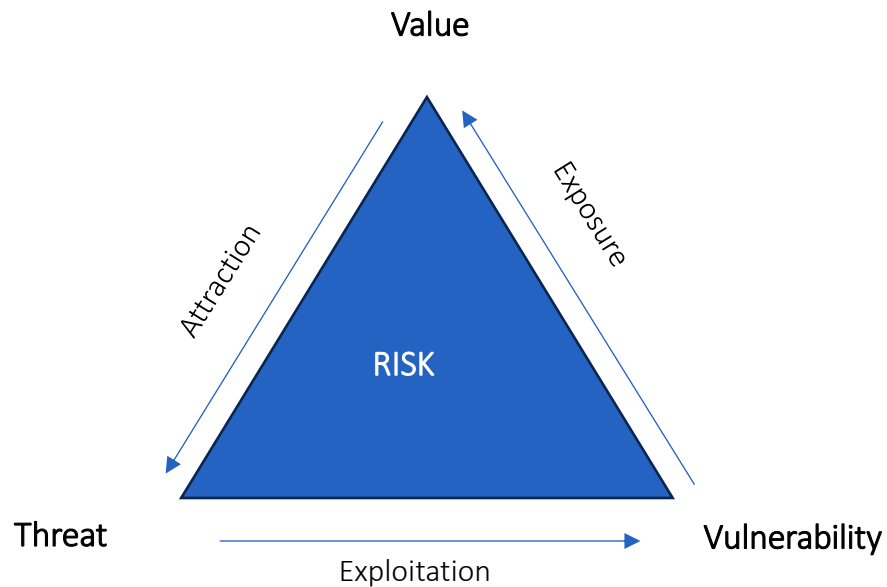
Cross Nation dependency.

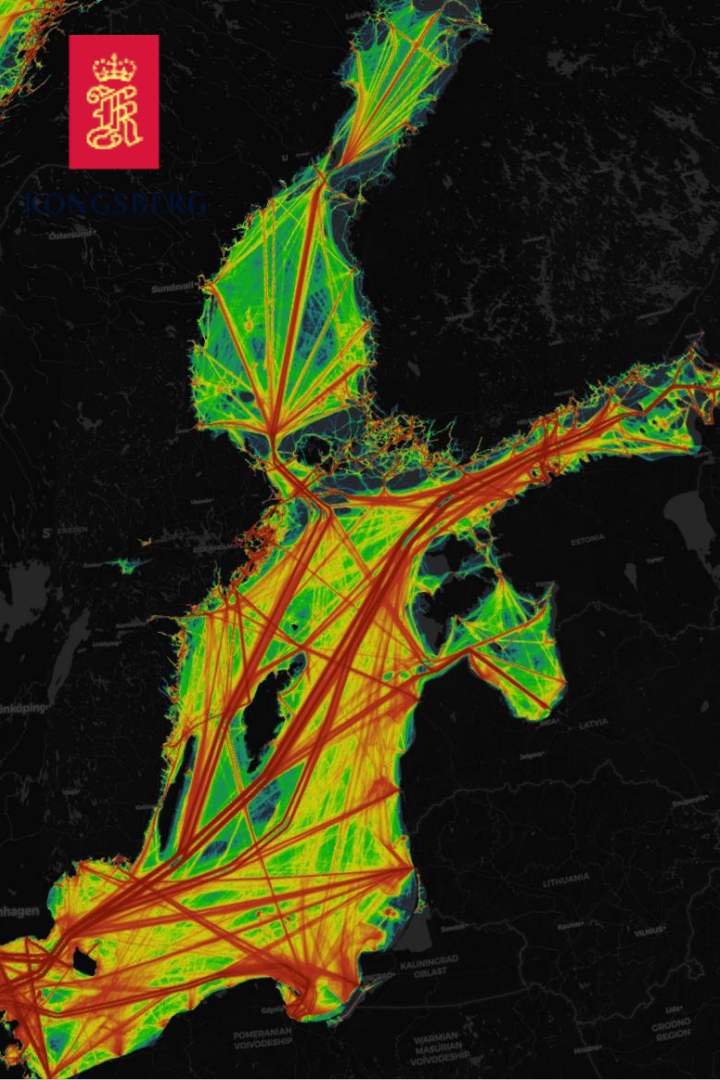
- Energy
- Communication
- Coordination





A Strategic Overview





How to Overcome the complexity

Surface

- Long-term continuous data collection
- Pattern recognition
- Transit Lanes anomaly detection

Sub Surface

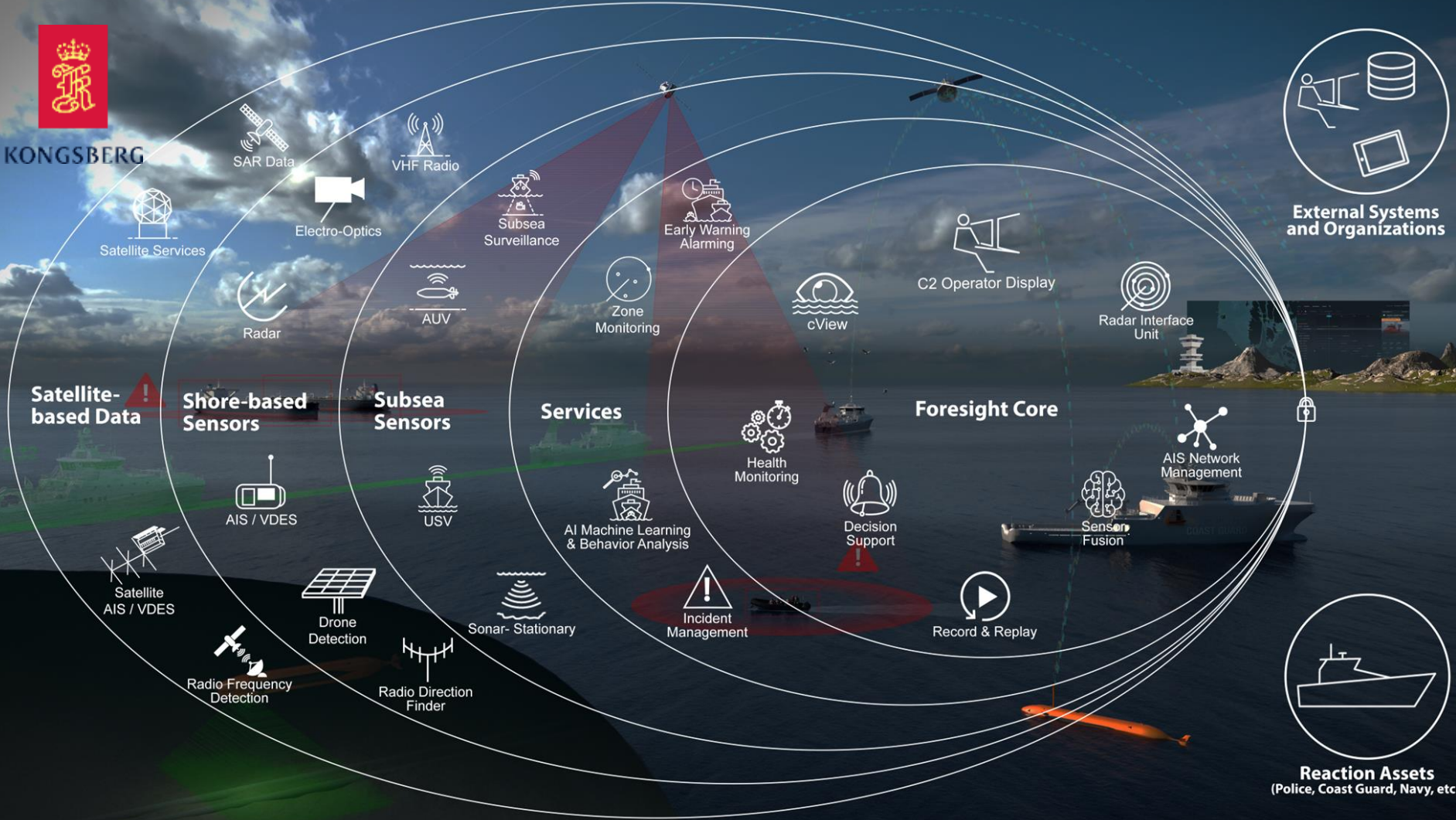
- What is the normal situation?
- Revisitation times
- Change detection

The role of technology:

- integrated systems and (automated alert functions).
- Integration of vessel data and history into the surveillance system.
- Integration and visualization of vessels associated with increased risk.



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Satellite-based Data

Shore-based Sensors

Subsea Sensors

Services

Foresight Core

External Systems and Organizations

Reaction Assets
(Police, Coast Guard, Navy, etc.)



SAR Data



VHF Radio



Subsea Surveillance



Early Warning Alarming



Zone Monitoring



cView



C2 Operator Display



Radar Interface Unit



Satellite Services



Electro-Optics



Radar



AUV



AIS / VDES



USV



Health Monitoring



Decision Support



Sensor Fusion



AIS Network Management



Satellite AIS / VDES



Drone Detection



Sonar - Stationary



Incident Management



Record & Replay



Radio Frequency Detection

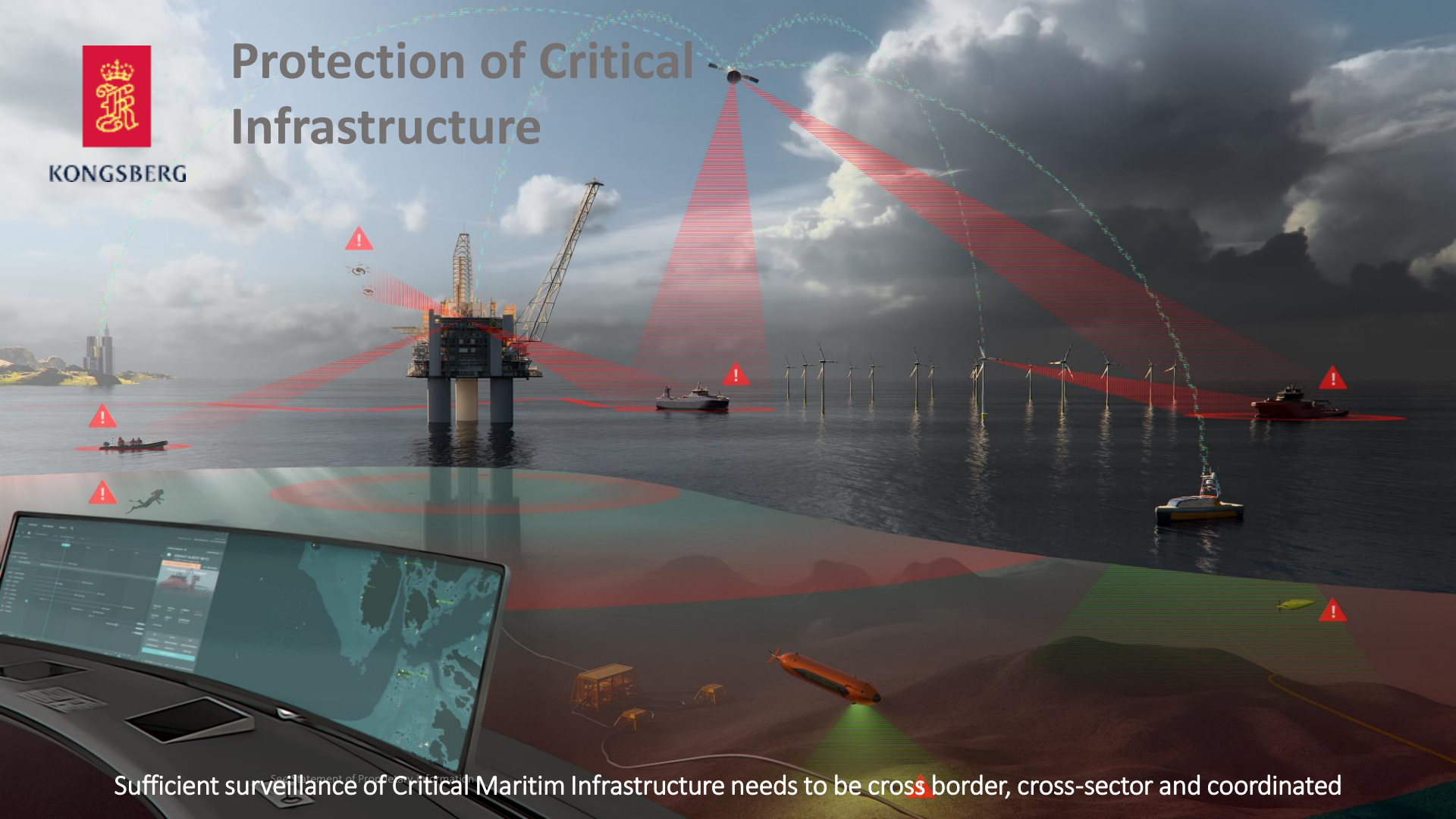


Radio Direction Finder



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Protection of Critical Infrastructure



Sufficient surveillance of Critical Maritim Infrastructure needs to be cross border, cross-sector and coordinated

Thank you!

Protechting people and planet