

nexat
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**The Network
of networks**



European Space Agency
Project: SeaNext-Port of Future



Remote & Crew-Reduced Navigation via Shore Control Center
www.seafar.eu



PORT DECARBONISATION AND ENVIRONMENTAL SUSTAINABILITY

15:00 – 16:00

Current and Emerging Solutions

Remote monitoring and control of semi-autonomous vessels

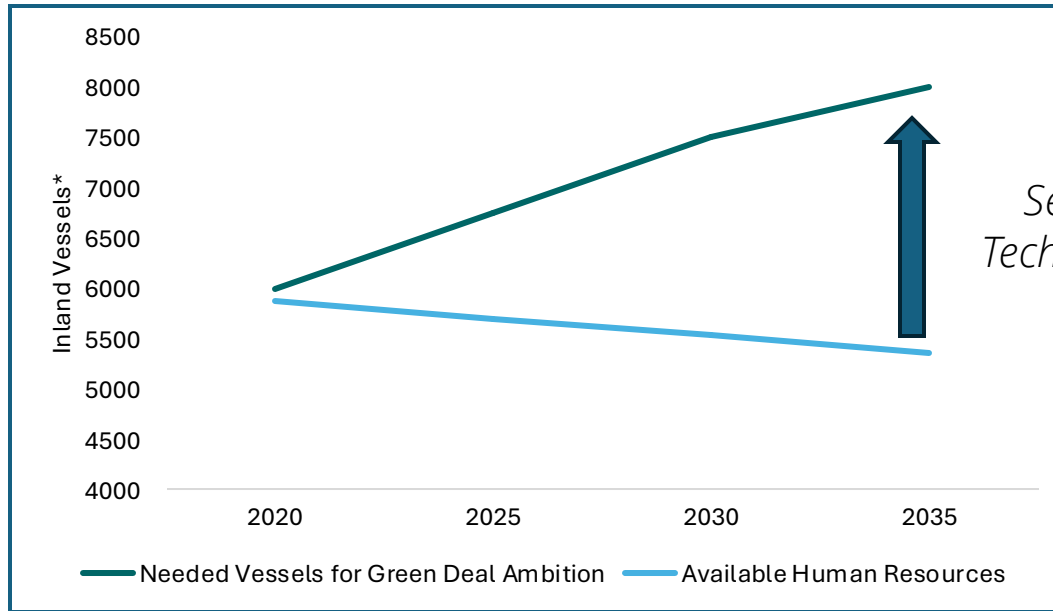
Ghazaleh Kia

Seafar NV



In association with **Redshift Associates**

Remote Monitoring and Control of Semi-Autonomous Vessels



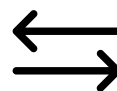
Our vision is to centralize and optimize workforce via remote operations.



Automated Solution



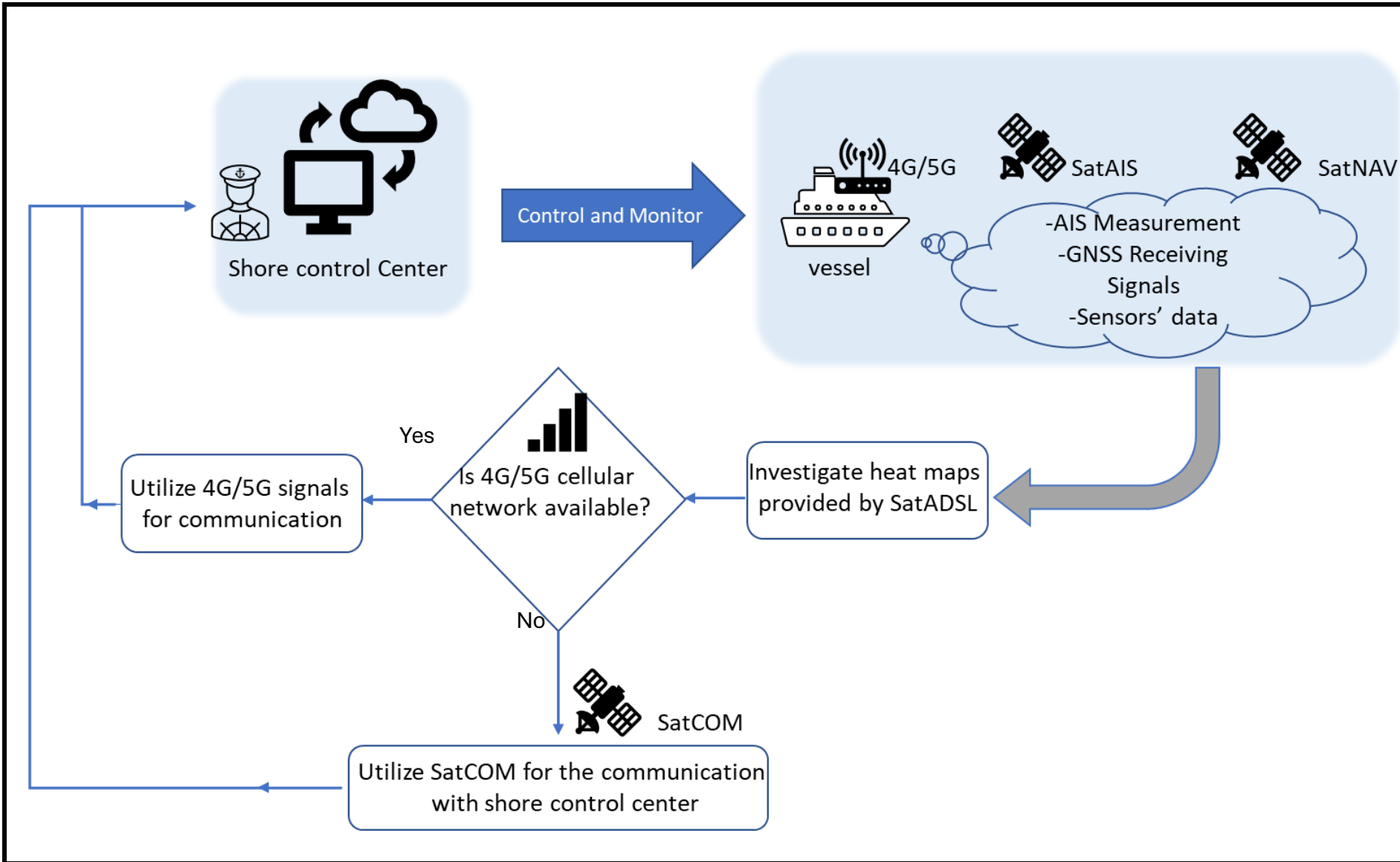
(A) Remote Control Station



(B) Secure Connectivity



(C) Seagoing vessel



Remote Monitoring

- Monitoring tools available onboard the vessel
- Human Machine Interface - Adequate Situational Awareness

Remote Control

- Vessel Control System available onboard
- Proper Interfaces in place
- Joysticks available at Remote Operation Center

Seamless Connectivity

- Terrestrial network
- Satellite Connection

Regulations

Operational Feedback