

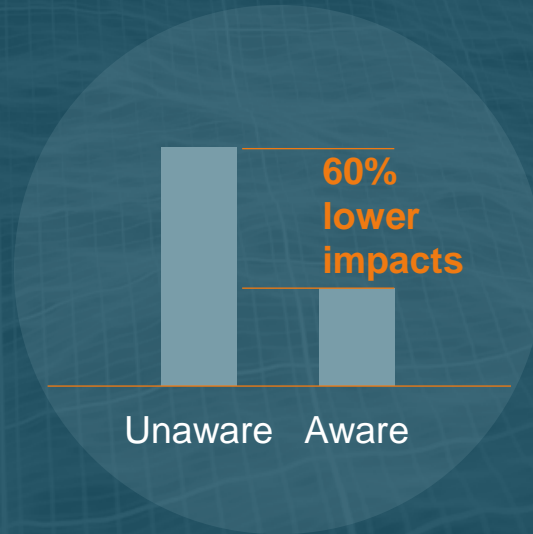
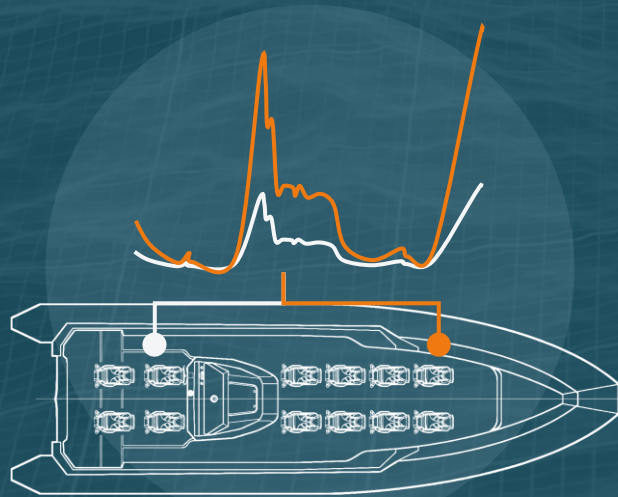



HEFRING
MARINE

*HighSpeedBoat
OperationsForum*

INTELLIGENT DECISION SUPPORT
FOR PROFESSIONAL BOAT OPERATIONS

9TH JUNE 2023



“Heard her spine break on a boat trip” 

6-9x greater g-force in **Bow** than in **Stern**

Lower impacts from behaviour change

Hefring Marine founded in Dec 2018



Intelligent Marine Assistance System (IMAS™)

- | On-board AI-powered digital captain assistant
- | Provides guidance to optimize safety and efficiency
- | Collects and processes all vessel data
- | Continuously improves and evolves with the fleet
- | Easy to install, maintain and use



Up to

25% lower fuel use and CO2 emissions

70% lower recorded g-force impacts

20% savings on insurance premiums



HEFRING
MARINE

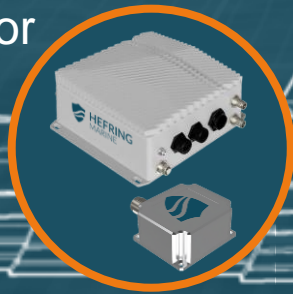
A white line drawing of a boat hull, shown from a side profile. The hull is long and narrow with a pointed bow and a flat deck. A circular callout is overlaid on the hull.

IMAS
HELM



HEFRING
MARINE

Control Unit
and Sensor



IMAS Helm
Interface



Compatible with

Raymarine

GARMIN

SIMRAD



HEFRING
MARINE

Recorded and collected data

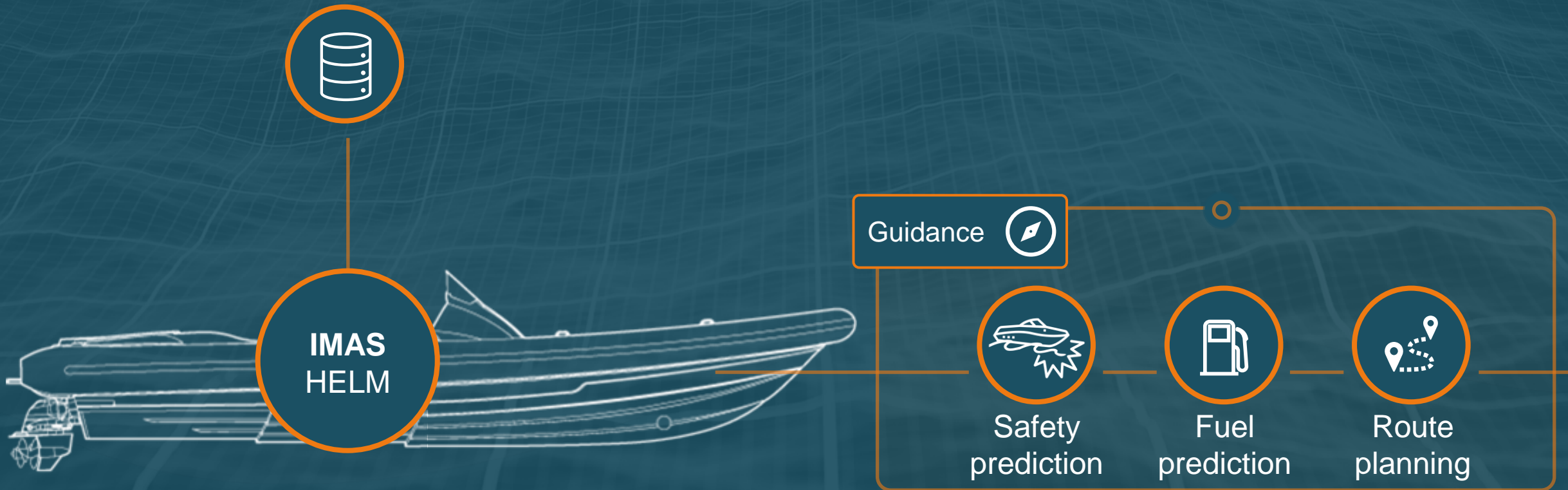


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- Speed optimization
- Time vs fuel savings
- Impacts & vibrations
- Route & heading

Guidance



Safety
prediction



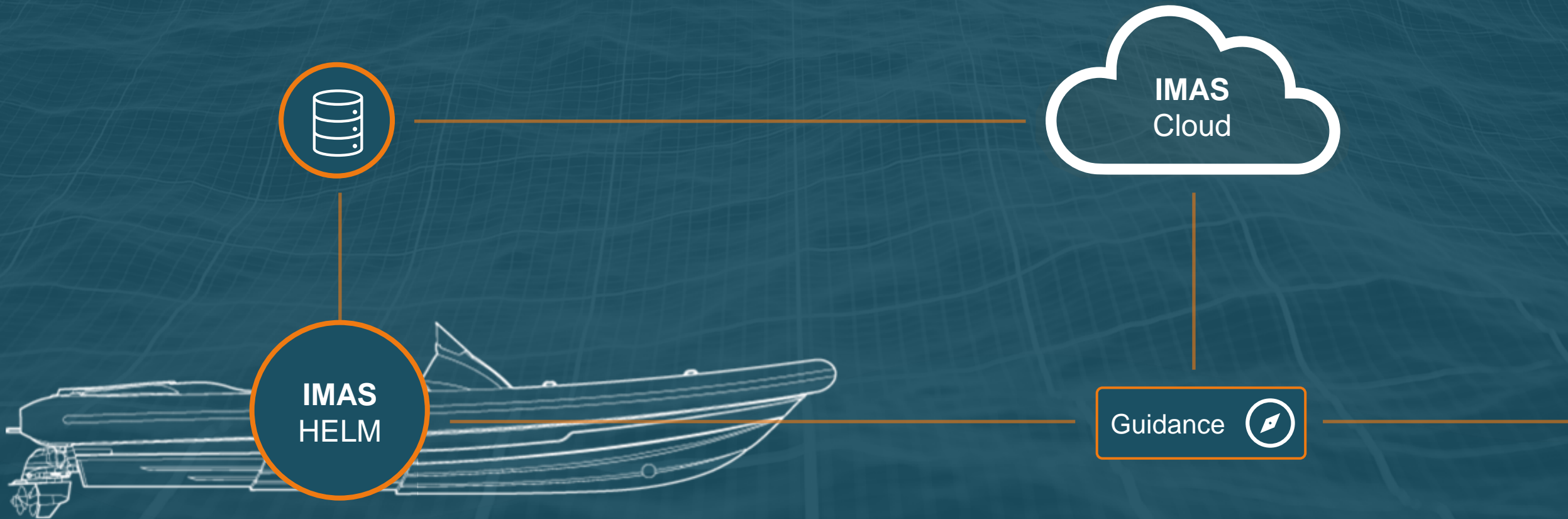
Fuel
prediction



Route
planning



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- Monitoring 
- Analytics 
- Reporting 



IMAS Console





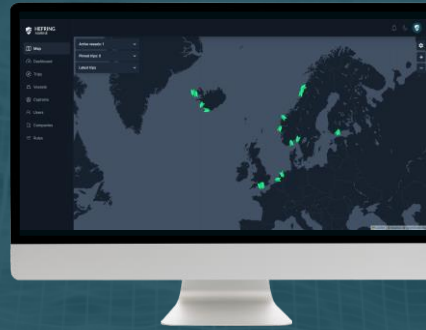
HEFRING
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Monitoring 

Analytics 

Reporting 

IMAS Console



- Live location & route
- Status & statistics
- Rules & alerts





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Monitoring 

Analytics 

Reporting 

IMAS Console



- Visuals & insights
- Dashboards & trends
- Trips, vessels & captains



IMAS
HELM



Guidance 



- Monitoring
- Analytics
- Reporting

IMAS Console



- Data reports
- Captain logs
- Data storage



IMAS
HELM



Guidance



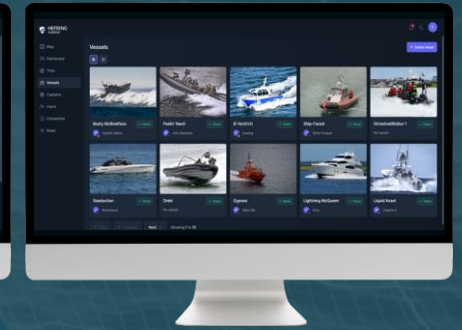
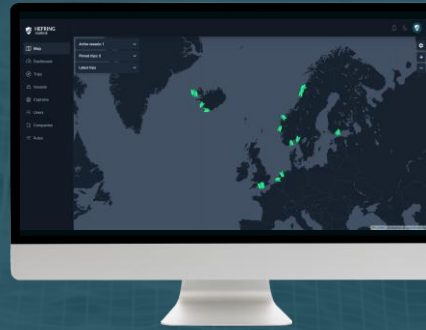


HEFRING
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Monitoring 

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IMAS Console

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VIKING NORSAFE



Case 1: Impact exposure and safe navigation



Trip by Viking Norsafe 1

Vessel	Viking Norsafe 1	Captain	-
Start	05/04/22 12:18	End	05/04/22 14:21
Duration	2 h 3 m	Distance	35 nmi

Statistics Alerts

Key Figures

Fuel Consumption	76.6 L	CO2 Emission	206.7 kg	Average SOG	16.8 kn	Red Impacts	43
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Trip Performance

Trip Score	33	Impact Frequency	1.2	Peak Impact	7.2 g
Guidance Tracking	26.7 %	Safety Quality	42.1 %	Fuel Quality	100 %

Viking Norsafe Intelliboat Project

- | Monitoring and visualization of impacts
- | Centralized data collection and processing
- | Dangers faced by high-speed boat operators



VIKING
NORSAFE



Case 1: Impact exposure and safe navigation



Other examples

- | Evaluating behaviour of ROG



- | Using visualization of impacts

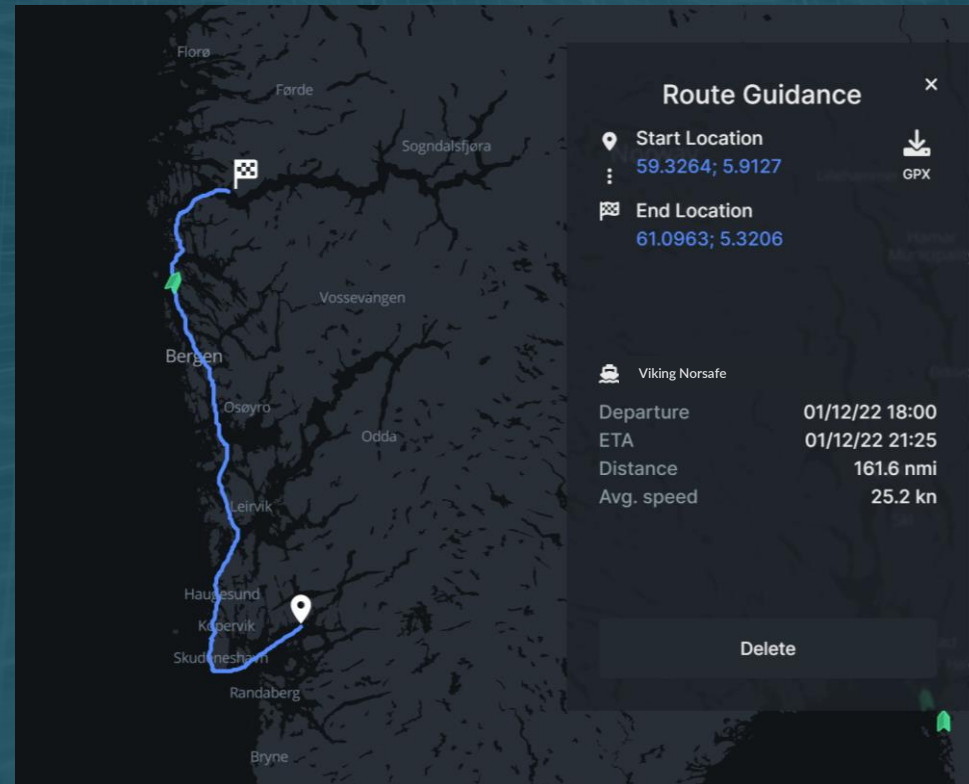
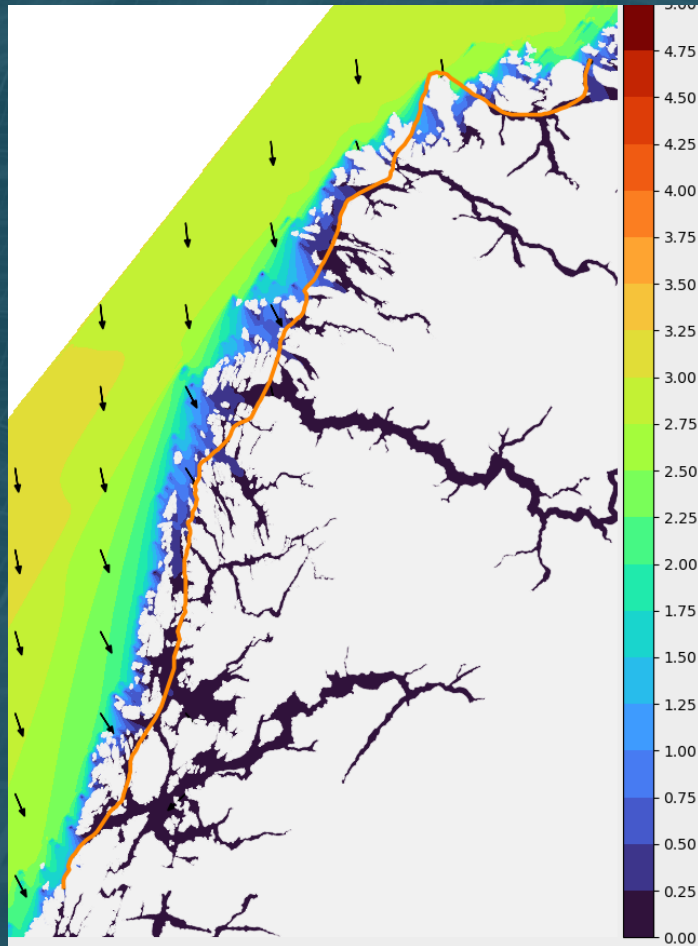




VIKING NORSAFE



Case 1: Impact exposure and safe navigation



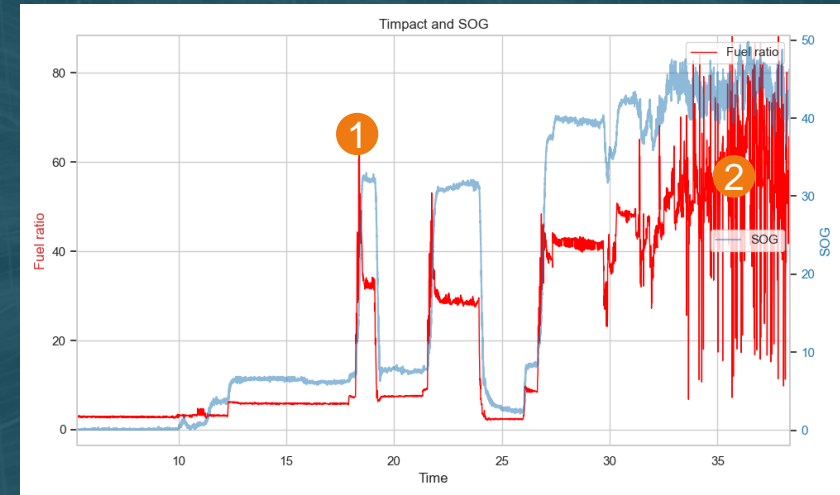
- | Safe navigation with AI generated route
- | Depth, scalability and adaptive COG decisions



Case 2: Monitoring exposure and fuel optimization

RS Ambulance vessel monitoring

- | Impacts for analysis of safety and crew comfort
- | Dual-sensor setup for different purposes
- | Customizing rules and alerts for monitoring
- | Analysing fuel consumption





Case 2: Monitoring exposure and fuel optimization



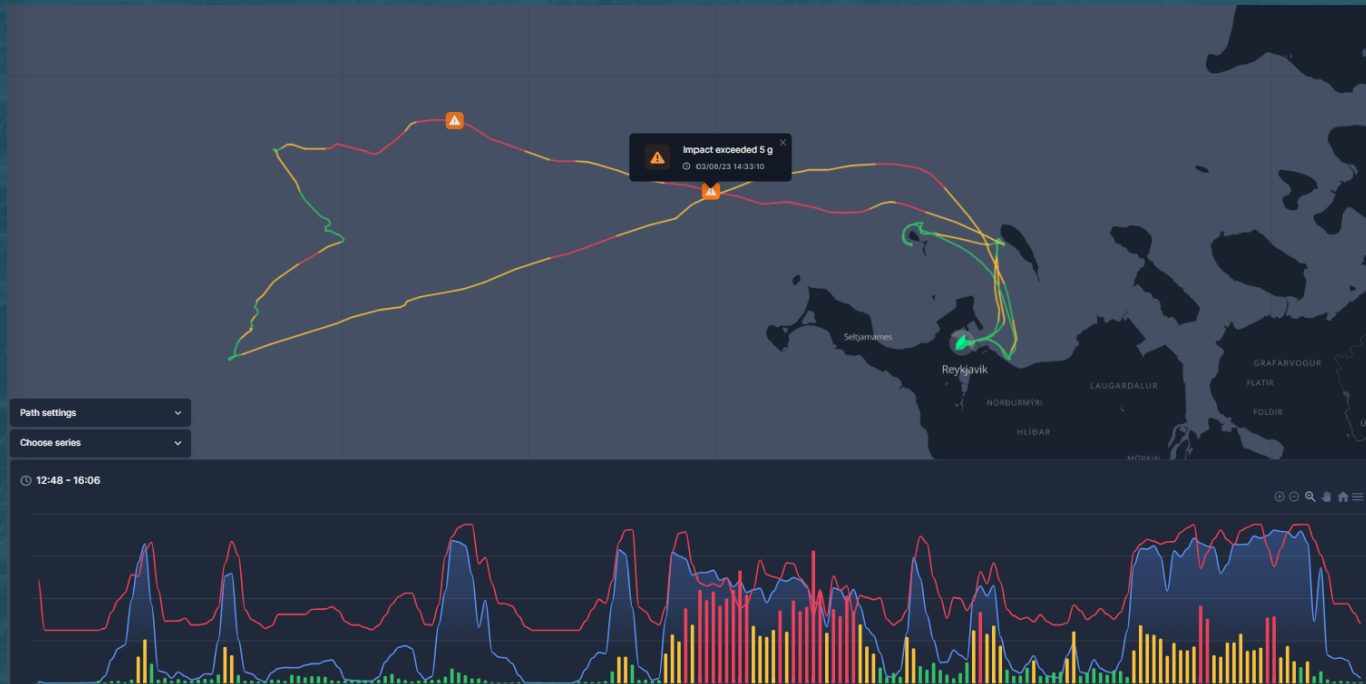
RS Ambulance vessel monitoring

- | AI-powered solution for eco-speed (FOG)
 - Savings of up to 25% - at speed and idle
- | Over time, can determine:
 - Engine maintenance needs
 - Propellers and hull fouling



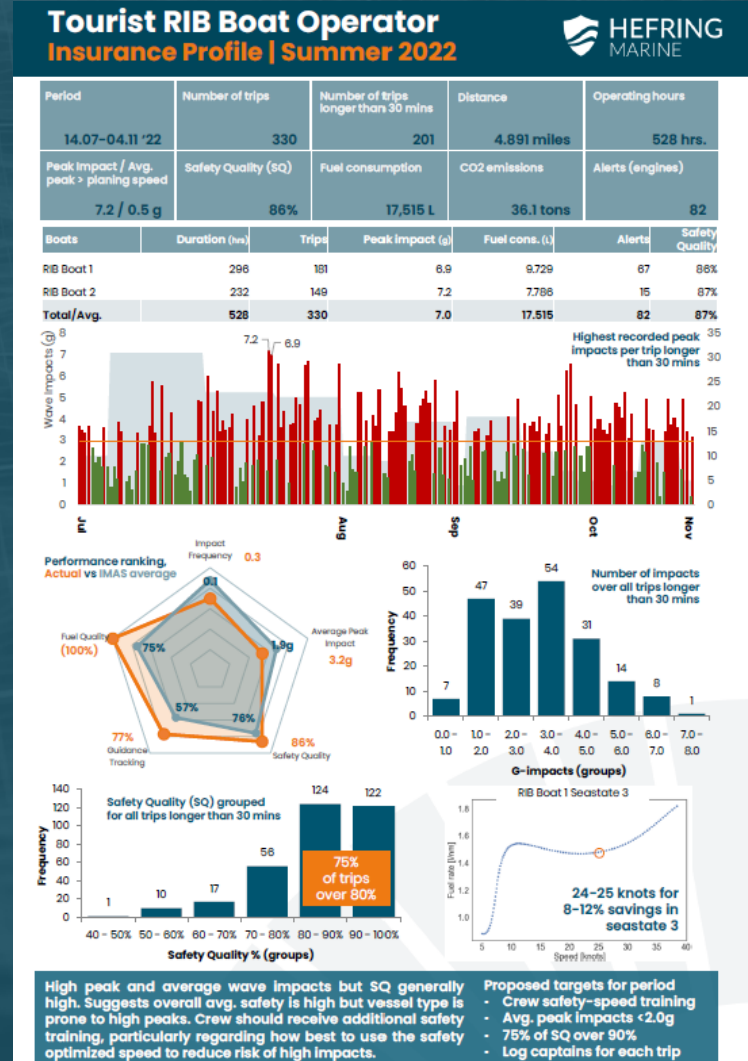


Case 3: Monitoring for premium discounts



Whale Safari Rib Boat tours

- | Collaboration with operator and insurance company
- | Tackling rising insurance premiums and operating risks
- | 20% premium discounts granted for 2022 season
 - Discount to continue with insights and metrics





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Scan QR code
to book a demo