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ABS My Digital Fleet™ Expands Maritime IoT Capabilities with the PI System

SUBTITLE

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AVEVA



About ABS Digital Solutions

Leading the Digital Future of Shipping

Mission:

Chartering maritime industry's journey through digitalization and decarbonization with business intelligence solutions.

Overview:

ABS My Digital Fleet™ is the only customizable risk management platform that seamlessly integrates data to provide real-time insights for driving sustainable operations and reducing operational risks.



AVEVA



Digital Partnership: ABS and ABS Digital Solutions

About ABS

Safety and Excellence

Mission:

To serve the public interest as well as the needs of our members and clients by promoting the security of life and property, and preserving the natural environment.

Overview:

- Founded in 1862 as Not-for-profit
- 5,000 employees across 70 countries
- ISO 9001 and 14001 Certified
- 11,800 vessels totaling 270 mgt currently classed ABS
- Over 1,200 new construction ships under survey

About ABS Digital Solutions

Mission:

Chartering maritime industry's journey through digitalization and decarbonization with business intelligence solutions.

Overview:

- Founded in 2000, 200+ Team members globally – 50+ in 2023
- 200+ customers and 12%+ global fleet: Off Shore, Blue water, Brown water
- Broad solution portfolio across operations, commercial, and risk:
 - Nautical Systems: Fleet management and operations
 - MyDigital Fleet: Operational Risk, Vessel, Voyage, and Environmental Optimization
 - Elgos: Electronic logbooks

Industry Drivers

- IMO and European decarbonization regulations are driving change, risk, and opportunity
- Industry reacting with need for new tools and data:
 - Avoid risk & Ensure compliance
 - Maintain/Improve margins
 - Realtime data access for decision making
- Result:
 - Explosion of new tools
 - Data acquisition and analytics
 - Systems interoperability



How is ABS Digital Solutions helping?



How do I holistically monitor & improve my operations?

- Integrated vessel risk model & Operational risk rating
- Reduced fuel consumption
- CII calculations, tracking, forecasting, and what if analysis
- Improved on time performance
- Equipment health monitoring and improved maintenance

My Digital Fleet Capabilities

My Dashboard



Fleetwide operational visibility to support rapid decision making

Daily Fuel Monitoring



Track and trend daily fuel oil consumption across the fleet

Equipment Monitoring



Track and trend running status of critical equipment across the fleet

Environmental Monitoring



Track and trend emissions and waste streams across the fleet

Voyage Planning & Tracking



Voyage deviation status to support early intervention and meet decarbonization goals

Vessel Performance Monitoring



Drive proactive maintenance and ROI evaluation in real time

My Alerts



Actionable alerts sent directly to your inbox



ABS DS isn't alone: Powered by Partner Data

Asset Risk Management

Expand asset risk model with additional factors



Decarbonization

Expand operational insights to reduce carbon footprint and voyage costs

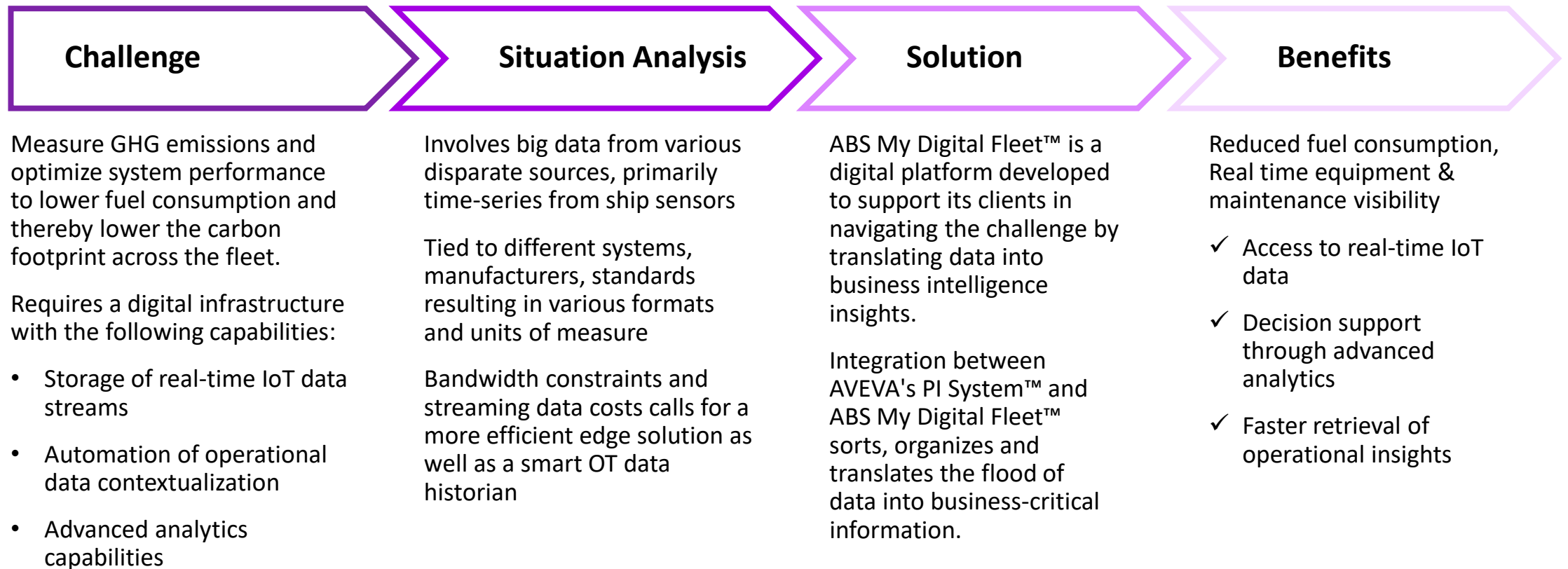


Data Infrastructure

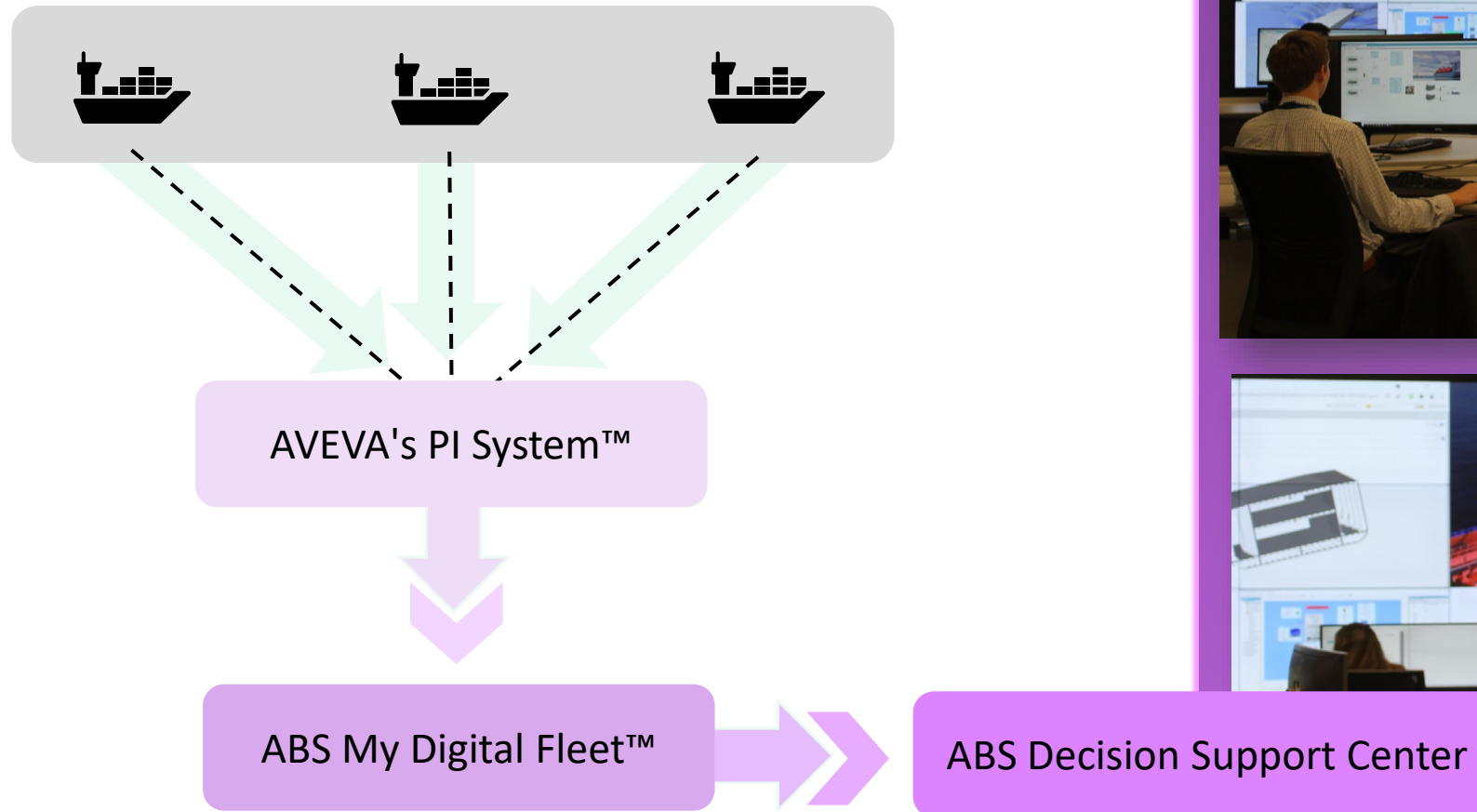
One-stop shop for digitalization minimizing entry barriers



Aveva and ABS DS: Driving digitalization and decarbonization



Implementation





Digital Partnership: Client Use Case Example

- **Client:**

- Leading ship operator of crude supplies in North America
- Operates tankers in the Trans-Alaskan Pipeline System (TAPS) trade, lifting crude oil in Valdez, Alaska, and discharging at ports along the West Coast

- **Scope of Work Requirements:**

- Dashboard providing real-time visibility on energy management and fuel savings initiatives
- Monthly voyage performance reporting to monitor and track cost reduction
- Configurable vessel performance model with alerts for maintenance triggers

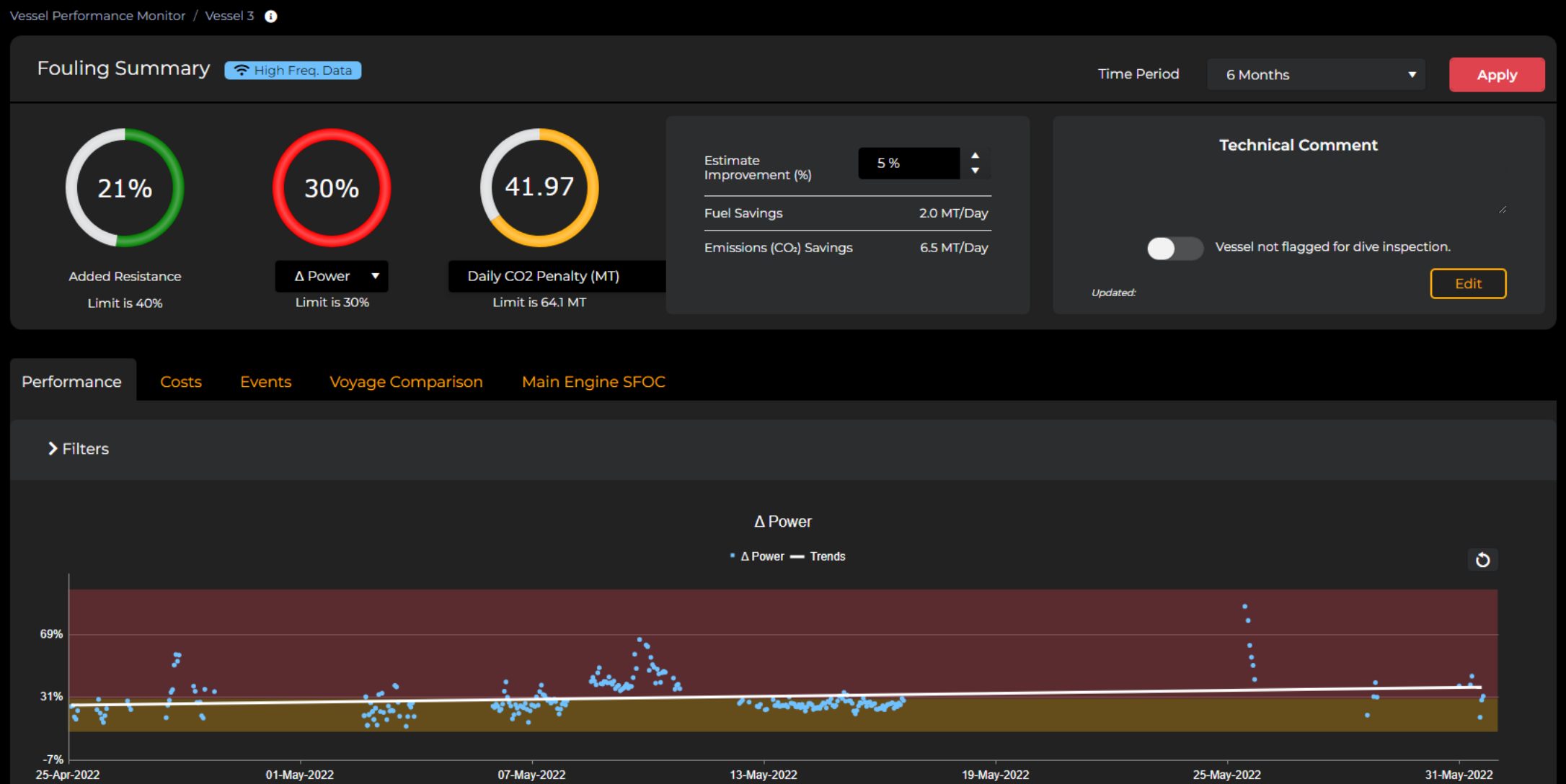
- **Solution:**

- Through the integration of ABS My Digital Fleet™ with AVEVA's PI System™, sensor data is ingested, then contextualized to support energy management, voyage optimization and condition-based maintenance

- **Business Outcomes:**

- Proactive and data-driven maintenance campaigns
- Daily insights on energy management initiatives that maximize savings.
- Operational excellence through an optimized energy management regiment based on routes and port activities.

Digital Partnership: Client Use Case Example



Integration Benefits

AVEVA PI SYSTEM

The Input

CAPABILITIES:

- Edge Data Storage (EDS)
- PI Adapters

DESCRIPTION:

- Collects real-time data from remote assets and IIoT devices for intelligence that spans entire operations

ABS MY DIGITAL FLEET

The Output

PLATFORM ENHANCEMENTS:

- ✓ Ability to collect large quantities of sensor data from shipping fleets and analyze in real time
- ✓ Strengthens and expedites smart shipping operations
- ✓ Faster, smarter insights specific to voyage performance, fuel costs and decarbonization KPIs

“The success of the ABS My Digital Fleet™ Alliance Program underlines our commitment to working with leading innovators like AVEVA to bring the most powerful digital technologies to maritime professionals and users, unlocking advanced new capabilities that accelerate time to value for our clients.”

- Paul Sells, CEO and President of ABS Digital Solutions



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If you are interested in learning more about ABS My Digital Fleet™ and the Aveva Pi collaboration, please contact us: [ABS My Digital Fleet™ \(eagle.org\)](https://eagle.org)

Questions?



Please remember to...

Navigate to this session in the mobile app to complete the survey.



Thank you!

THANK YOU

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DZIĘKUJĘ CI

NGIYABONGA

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DANKIE

TERIMA KASIH

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ありがとうございました

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СИПОС

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ТИ БЛАГОДАРАМ

СИПОС

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ABOUT AVEVA

AVEVA is a global leader in industrial software, sparking ingenuity to drive responsible use of the world's resources. The company's secure industrial cloud platform and applications enable businesses to harness the power of their information and improve collaboration with customers, suppliers and partners.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. With operations around the globe, we are headquartered in Cambridge, UK and listed on the London Stock Exchange's FTSE 100.

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