



# ABS Update UNOLS Annual Meeting 2026

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# Safety Moment



# ABS MISSION

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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.



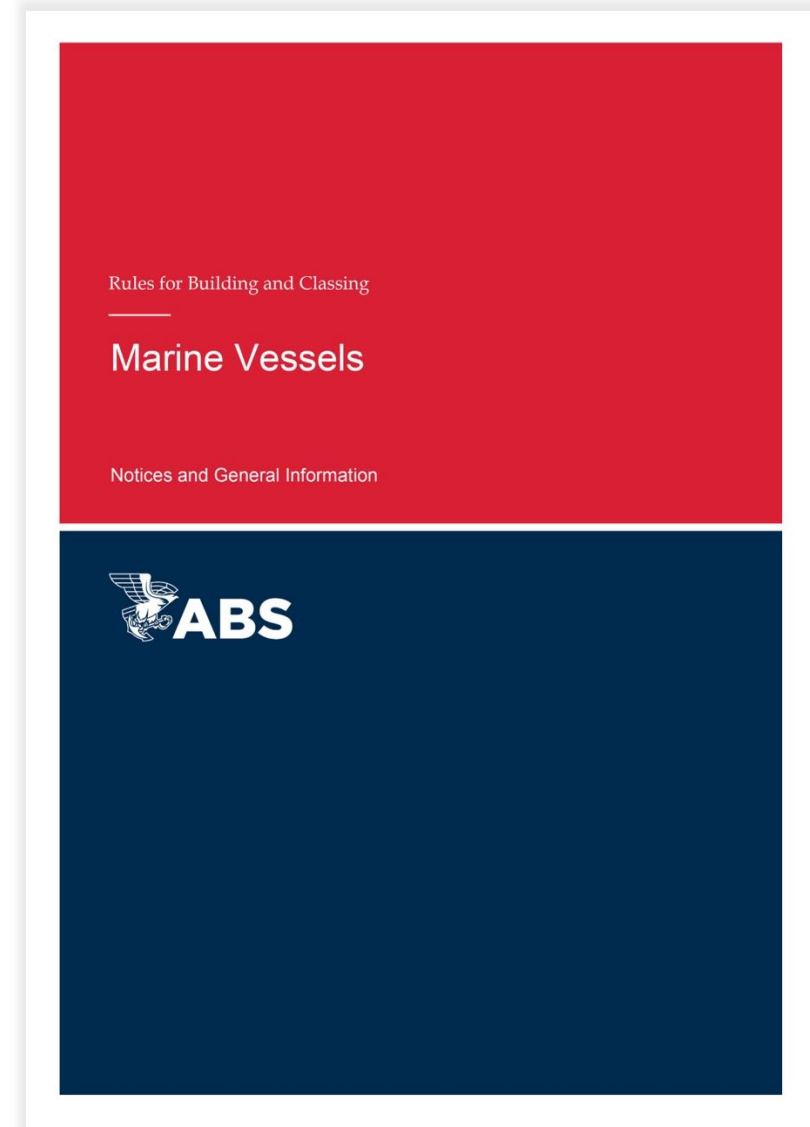
# ABS Principal Activities

- Classification
- Statutory services
- Research and development
- Technology
- Third-party certification



# ABS Rules and Guides

- Industry input is instrumental in development
- Rational versus unilateral approach
  - Practical
  - Authoritative
  - Impartial

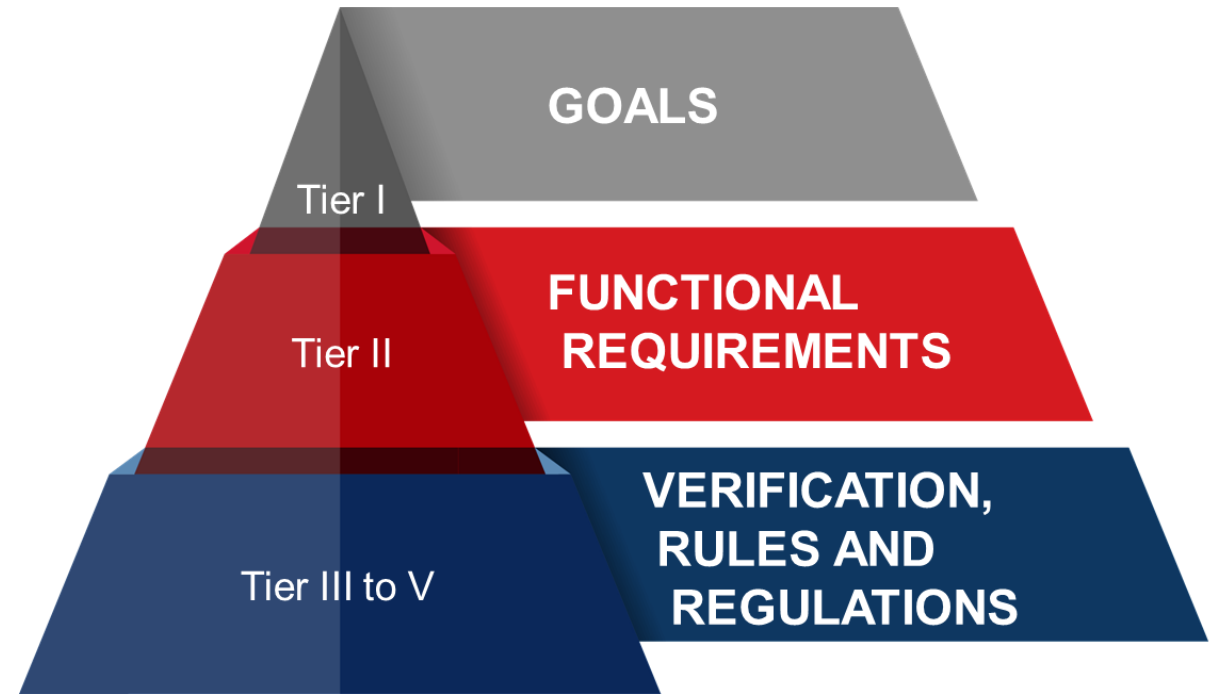




# Rule Enhancements

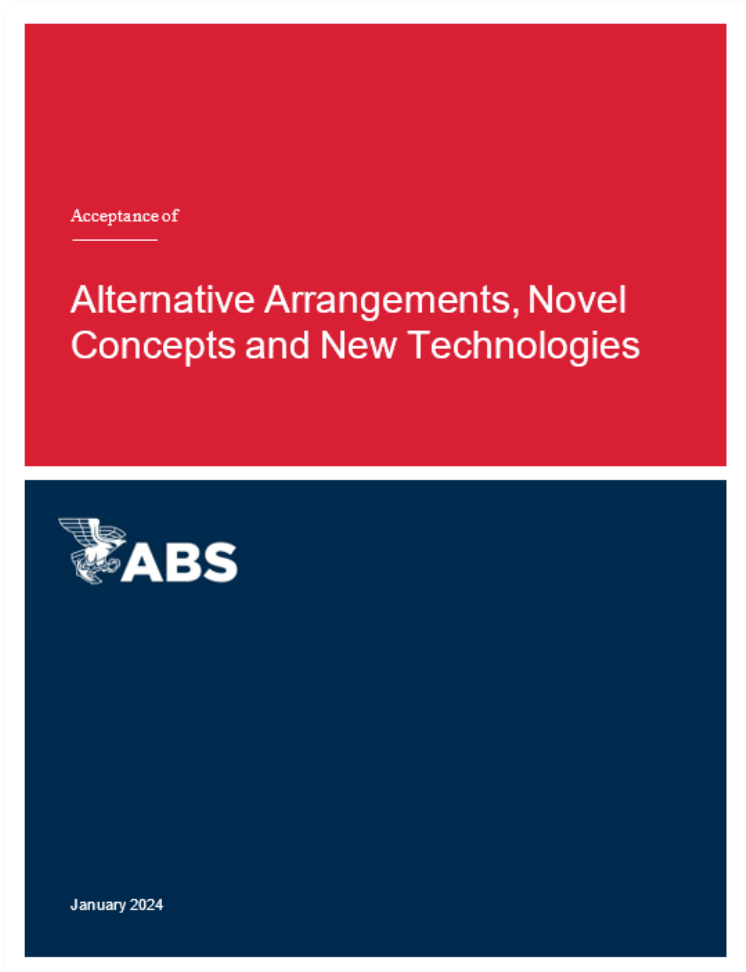
# ABS Marine Vessel Rules

- ABS Rules are built to quickly adapt to a new and rapidly changing technological world.
- Goal Based Standards enable innovation.
- Rules and Guides feature a new and improved format with updated graphics and enhanced search capabilities.



Technology is changing at a pace that necessitates a change to the foundation of our Rules.

# Goal Based Standards



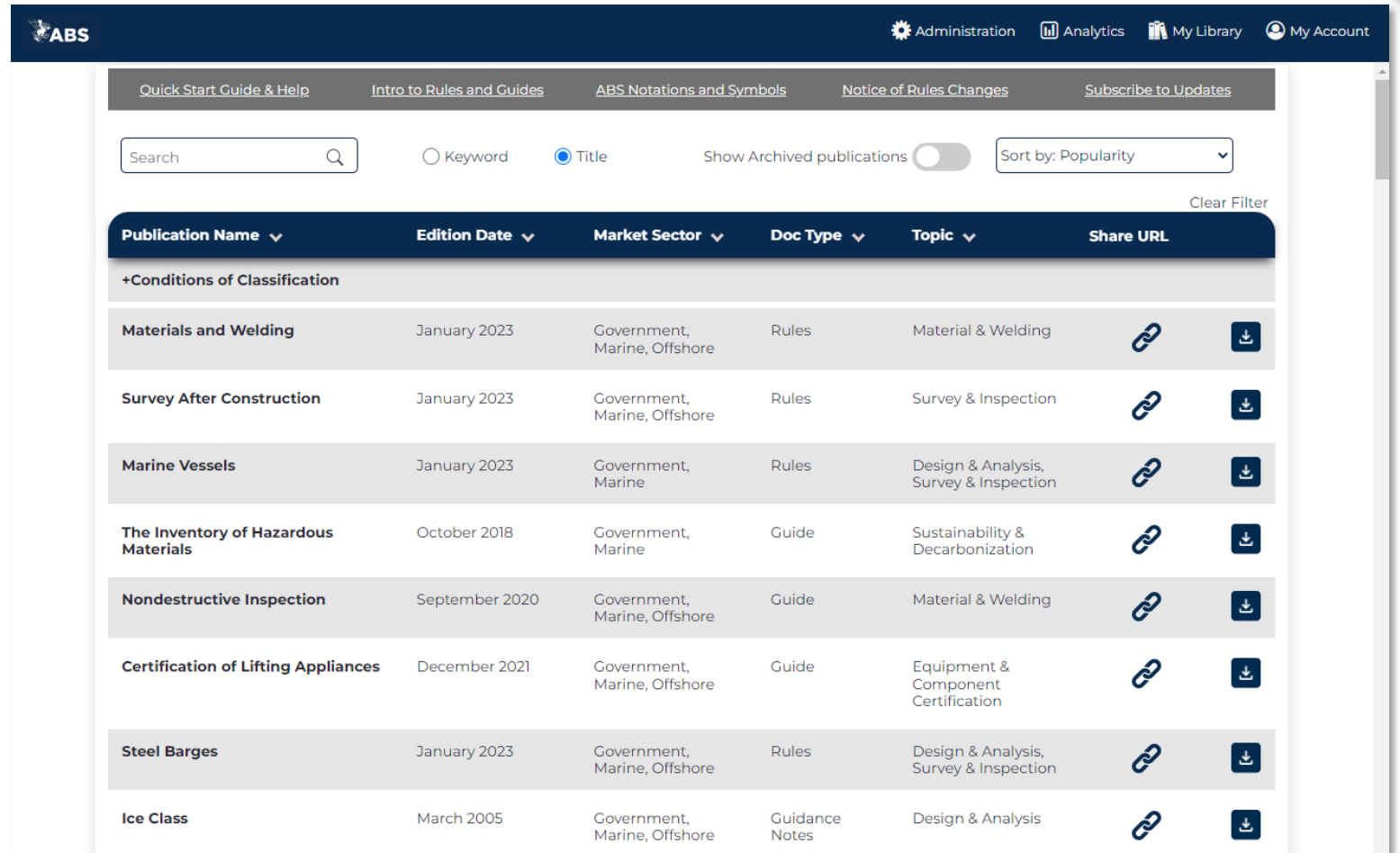
- Enables classification of:
  - Alternative arrangements
  - Novel concepts
  - New technologies
- Structured process
  - Quicker than the current approach
  - Less risk due to predefined goals and functional requirements
  - Transparent to clients
  - Better documentation

# Goal Based Standards Basics









- *ABS Marine Vessel Rules* effective January 1, 2024
  - Goals and functional requirements added throughout
  - New part 1D explains how to accept alternatives, novel concepts, new technology
- Applicable to alternative arrangements, new technology, novel concepts
  - As defined in Part 1D
  - Two paths to compliance Goal based standards or traditional rules
- ABS prescriptive requirements remain in force
  - Conventional designs expected to comply with applicable prescriptive requirements
  - Vessels that meet the prescriptive requirements don't need to show compliance with Goal based standards

# Rule Manager 2.0 and Custom Rule Book

- Powerful tool for Rule access
- Improved search and bookmarks
- Downloads available
- Custom Rule Book
- IMO Conventions and Codes
- Free to MyFreedom™ Portal users



The screenshot displays the ABS Rule Manager 2.0 interface. At the top, there is a navigation bar with the ABS logo and links for Administration, Analytics, My Library, and My Account. Below this is a secondary navigation bar with links for Quick Start Guide & Help, Intro to Rules and Guides, ABS Notations and Symbols, Notice of Rules Changes, and Subscribe to Updates. A search bar is present, along with search filters for Keyword and Title (selected), a toggle for Show Archived publications, and a dropdown for Sort by: Popularity. A table of publications is shown below, with columns for Publication Name, Edition Date, Market Sector, Doc Type, Topic, and Share URL. The table includes a 'Clear Filter' button and a '+Conditions of Classification' section. The publications listed are:

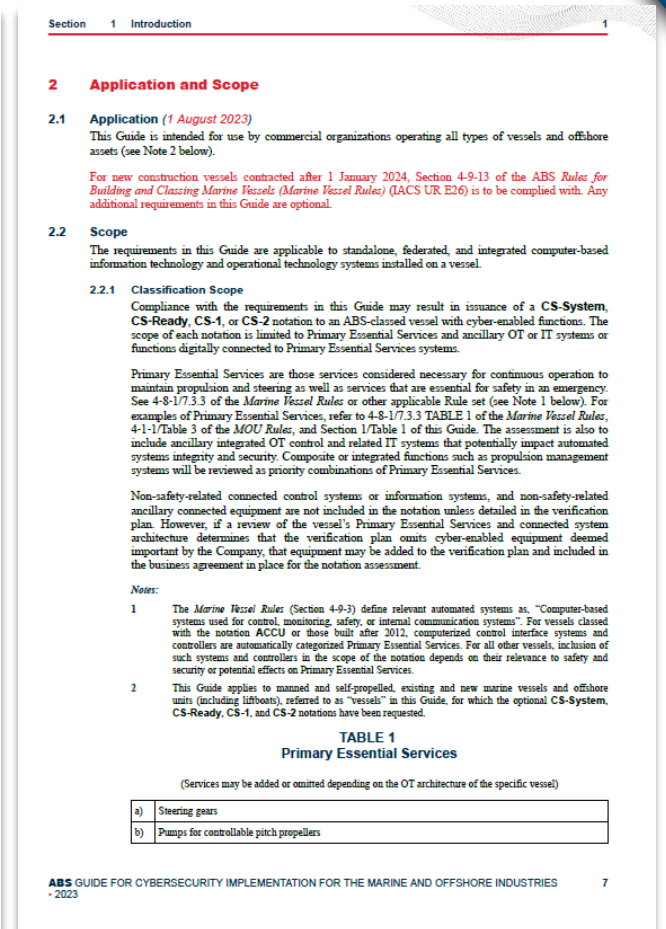
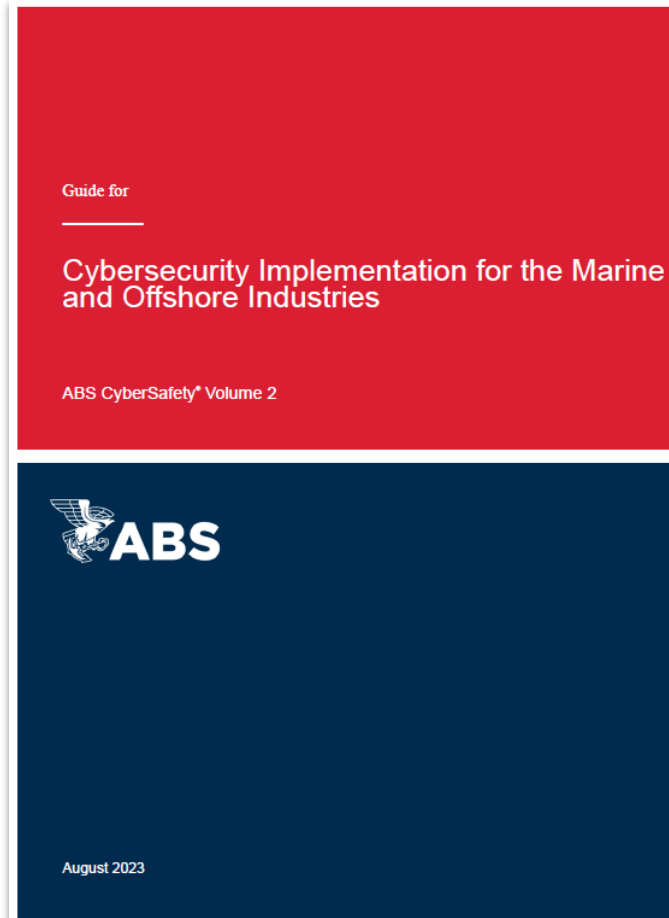
Publication Name	Edition Date	Market Sector	Doc Type	Topic	Share URL
<b>+Conditions of Classification</b>					
Materials and Welding	January 2023	Government, Marine, Offshore	Rules	Material & Welding	<a href="#">Share URL</a> 
Survey After Construction	January 2023	Government, Marine, Offshore	Rules	Survey & Inspection	<a href="#">Share URL</a> 
Marine Vessels	January 2023	Government, Marine	Rules	Design & Analysis, Survey & Inspection	<a href="#">Share URL</a> 
The Inventory of Hazardous Materials	October 2018	Government, Marine	Guide	Sustainability & Decarbonization	<a href="#">Share URL</a> 
Nondestructive Inspection	September 2020	Government, Marine, Offshore	Guide	Material & Welding	<a href="#">Share URL</a> 
Certification of Lifting Appliances	December 2021	Government, Marine, Offshore	Guide	Equipment & Component Certification	<a href="#">Share URL</a> 
Steel Barges	January 2023	Government, Marine, Offshore	Rules	Design & Analysis, Survey & Inspection	<a href="#">Share URL</a> 
Ice Class	March 2005	Government, Marine, Offshore	Guidance Notes	Design & Analysis	<a href="#">Share URL</a> 



# Cyber Resilience

# IACS Unified Requirements on Cyber Resilience

- IACS UR E26 – Cyber Resilience of Ships
- IACS UR E27 – Cyber Resilience of On-Board Systems and Equipment
- Driven by Digitalization
- Invoked in ABS MVR Effective 01 July 2024
- Global maritime industry Cyber attacks since 2022 have increased by **358%**

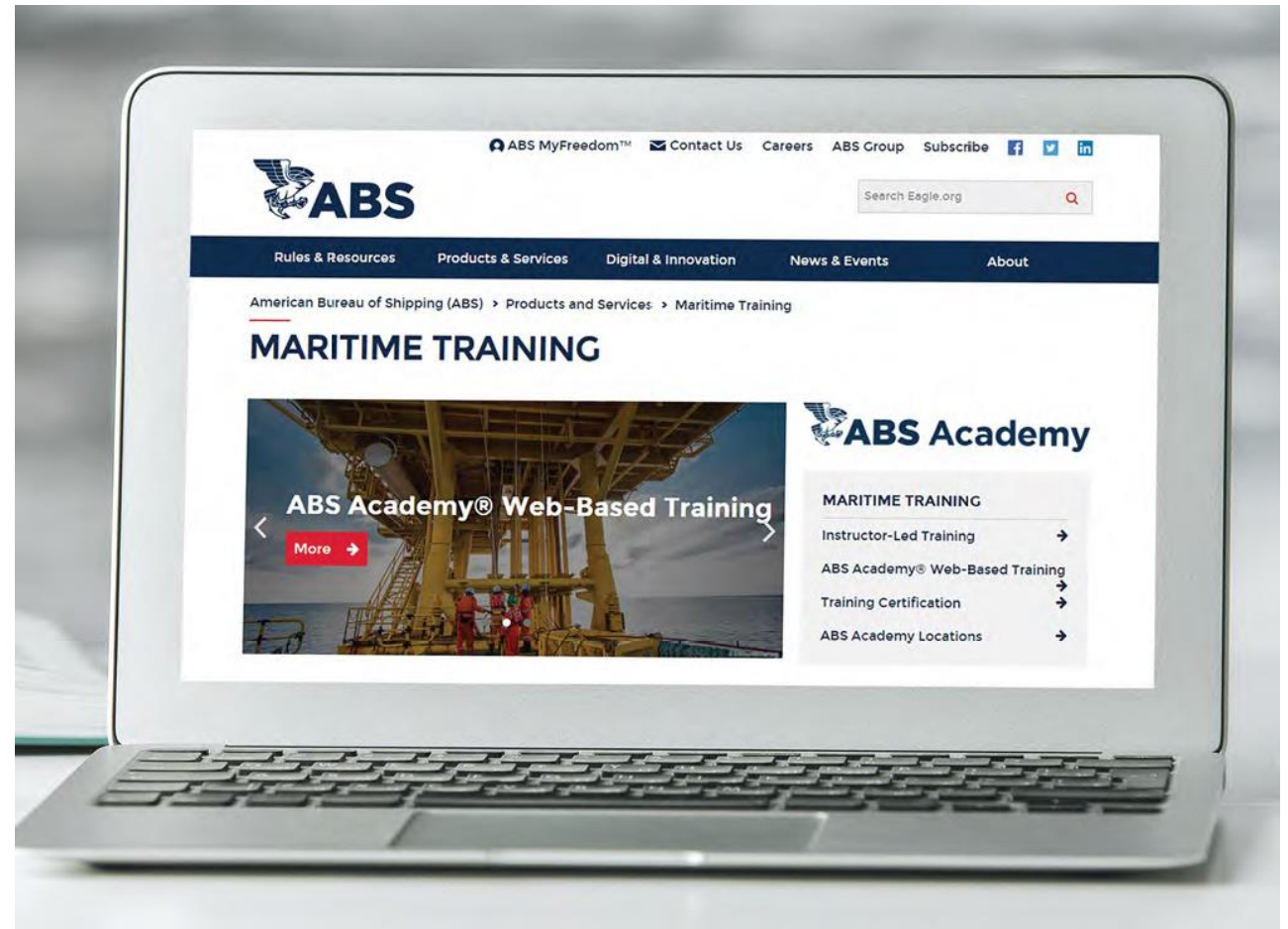




# Training Solutions

# Professional Maritime Training

- ABS Training Solutions is committed to being your training partner. This commitment means providing courses that extend beyond the traditional curriculum and present you with training solutions to address your needs.
- Designed to meet the technical and management needs of shipowners, managers, and operators of marine and offshore assets, ABS Academy's targeted training features best practice applications for design and operations.
- Web-Based Training
- Instructor-Led Training
  - Course Development
  - Private Courses







Practical Software to Help Drive  
Safer, More Efficient and Higher  
Performing Fleets



# Who We Are

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ABS Wavesight is a maritime software-as-a-service (SaaS) company, built on the foundation of ABS – one of the world's leading ship classification organizations with a 160+ year legacy of maritime innovation and experience.

We're dedicated to helping shipowners and operators streamline compliance while maintaining competitive, more efficient, and sustainable operations.

**5,500+**  
**VESSELS**

have ABS Wavesight products installed on them

**4**  
**OFFICES**

- Houston
- Pune
- Athens
- Singapore

**225+**  
**EMPLOYEES**

**200+**  
**CUSTOMERS**

# ABS Wavesight Nautical Systems™

ABS Wavesight Nautical Systems™ is a comprehensive marine ERP system designed to help improve fleet safety and asset reliability, facilitate regulatory compliance, and centralize workforce management.

## Functional Pillars:

### Asset Management

Streamline planning and resource management to maximize the economic value of marine assets.

### Performance Management

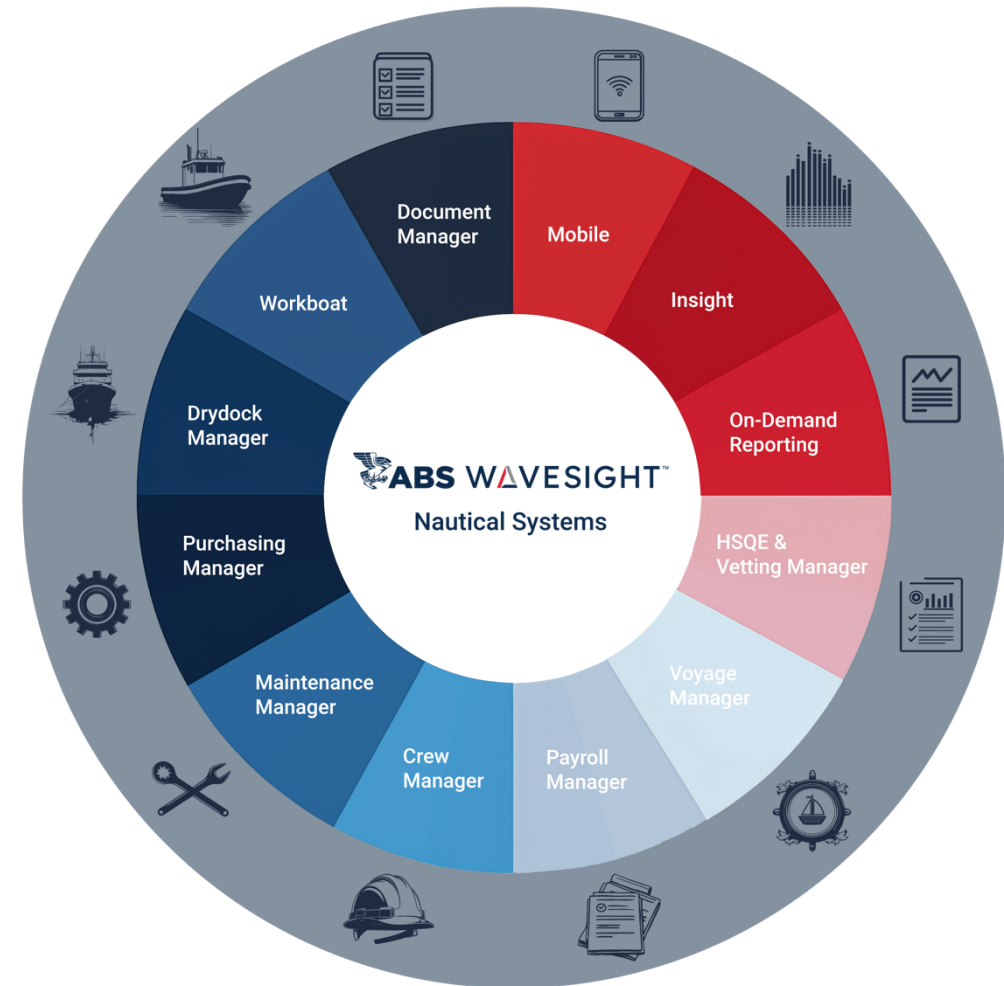
Expose hidden value in operational data to drive performance and improve efficiency.

### Compliance Management

Tools to facilitate planning and execution of regulatory compliance activities.

### Workforce Management

Enable a process for delivering a properly trained, documented and certified crew.





# ABS Wavesight Advantage™

## Leverage the Power of One

One intelligent, connected platform that transforms complexity into clarity.

ABS Wavesight Advantage™ provides the clarity needed to accelerate decisions for your business and fleet with confidence. Our comprehensive product portfolio — including validation, a digital connection for verification by ABS, emissions benchmarking and pooling — empowers maritime leaders to achieve sustainability goals, navigate regulatory complexity and operate efficiently.

## One Intelligent, Connected Maritime Platform

- **Trusted Brand**  
Built on ABS' maritime experience and regulatory expertise.
- **Single Source of Truth**  
Breaks down silos with real-time, validated data across fleets and stakeholders.
- **Seamless Experience**  
Empowers users to manage emissions pooling and compliance with ease.
- **Intelligent Core**  
AI-driven insights optimize decisions at sea and ashore.
- **Scalable Solution**  
Flexible Software-as-a-Service (SaaS) architecture grows with your fleet and digital strategy.
- **Powerful Choice**  
A future-ready platform that transforms data into actionable insights.



# Advantage: Carbon Diligence Suite

This suite offers seamless, rapid access to emissions validation and decarbonization key performance indicators (KPIs), empowering smarter decision making to help improve operational and environmental performance.

## FEATURES AND BENEFITS

### Validation-on-demand: Addressing commercial needs related to emissions KPIs

- Rapid validation of data for a selected period

### Emissions Voyage Statement: Streamlining regulatory reporting

- Updated with FuelEU Maritime calculations using biofuels, containing a period Carbon Intensity Indicator (CII) and EUA

### Poseidon Principles (PP): Supporting green financing efforts

- Year-to-date Annual Efficiency Ratio (AER)
- Required decarbonization values
- Alignment-to-date

### CII: Enabling the transition to net-zero

- Year-to-date CII vessel monitoring
- Voyage-specific CII values
- Projection of CII ratings and distributions at fleet level



# ABS Wavesight eLogs™

ABS Wavesight eLogs™ is a class-approved, fleet-wide digital logbook platform that helps cut admin time and reduce potential risks associated with Port State Control inspections.

## Backed by the Recognized Organization and Flag States

- Approved by the American Bureau of Shipping (RO) and most major Flag States
- Meets IMO, MARPOL, SOLAS and BWM requirements

## Secure and Tamper Resistant

- Application security is extensively tested and adheres to OWASP guidelines
- Digital data are logged, stored and protected from unauthorized usage, helping to ensure their longevity and integrity
- Data security is designed to retain original entries and record all amendments



## FEATURES AND BENEFITS

- Intuitive interface designed and tested by mariners for ease of use
- Data replication to shore for remote and immediate use
- Recording and printing verified with e-Signature
- Role-based access control
- Mobile friendly across many device types

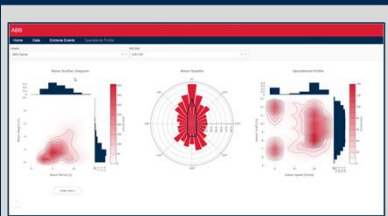


# Technology

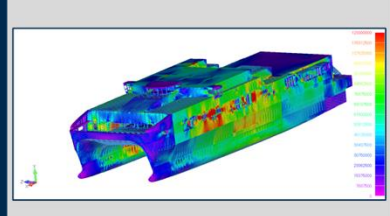
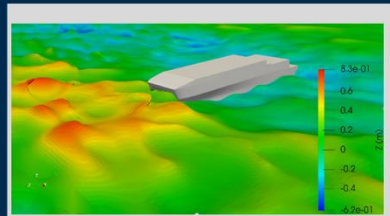
# ABS Technology



Structural Health Monitoring 



Structural Digital Twin 



Decision Making 

TSA DLA Enhanced Monitoring Recommendations			
#	Compartment	Structure - Location	Risk
		Description	Member Type
		Diagram	
	Void 4	Port Penton Side Shell, Frame 19 & 20	
	5-16.2	4.84m ABL, Outboard Side of Poston Port	Stiffener
			Very High
	Failure Mode:	Yielding	
	Reference Drawing:	630-117-01-202	
	Drawing Detail Number:	Frame 17	
	Consequence:	5	
	Likelihood:	6	
	Recommended Action:	Monitor for Signs of Material Damage	
	Inspection Period:	Enhanced yearly monitoring (Annual Survey; Also NDT may be required)	
	Threshold Failure:	Yielding Utility Check > 1.0	
	Note:		

- Remote & AI-enabled Verification Technology
- Remote Survey & Inspections
- Digital Analytics – Structural & Machinery Health Monitoring
- Digitization – Digital Twin Technology



# U.S. Center for Maritime Innovation (USCMI)

# Mission Scope of the USCFI

- National resource for research, development, and demonstration projects supporting maritime innovation in a range of potential subject areas
- Includes interest in all types of vessel, port/port facility, and other marine transportation issues
- Primarily focused on US maritime issues as well as associated international maritime interconnections
- Coverage of the diverse issues of interest in different geographical regions of the country

## USCFI Innovation Pillars



U.S. Maritime Competitiveness



US Maritime Dominance



Maritime Energy



US Energy Dominance



Maritime Operations



Port of the Future & SMART Port Implementation



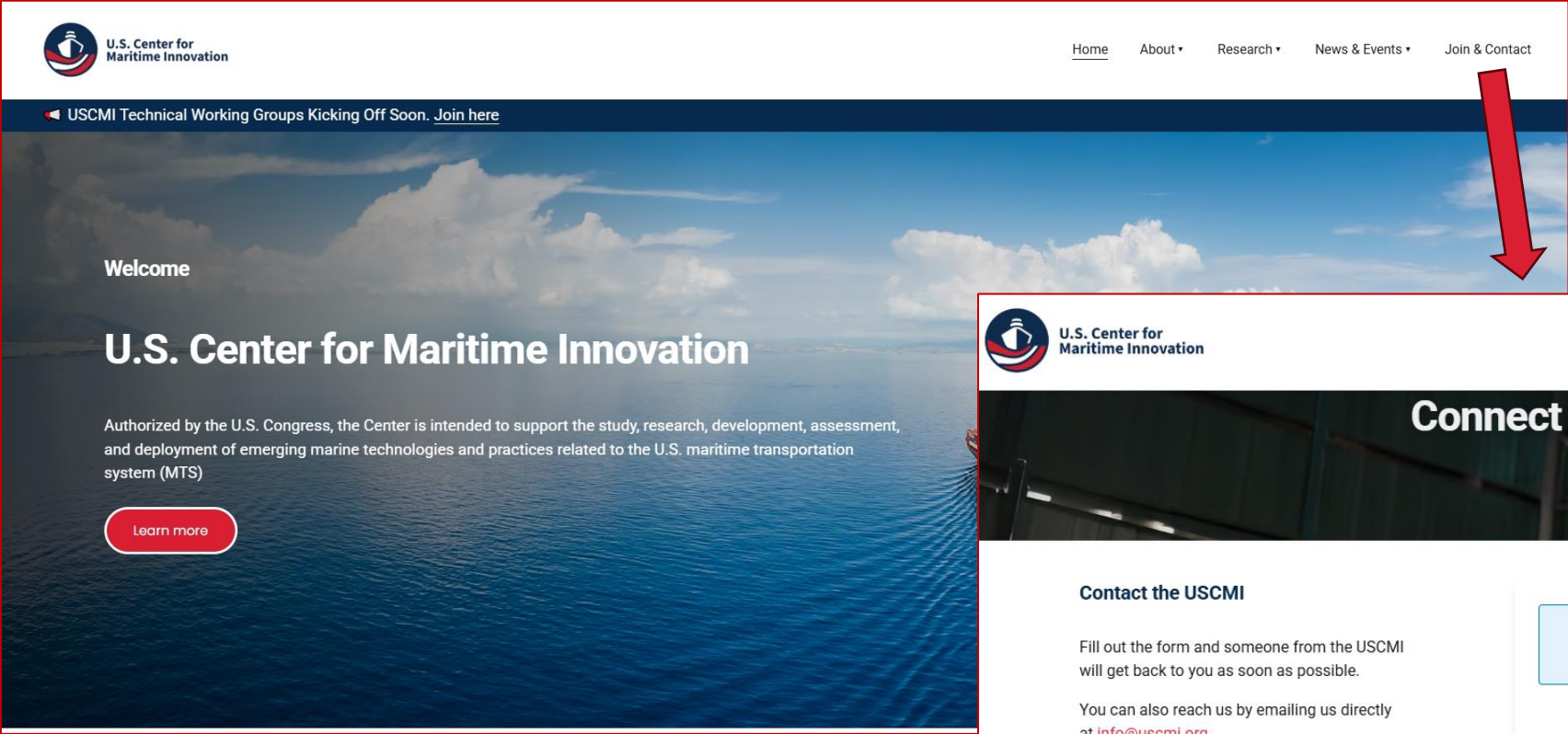
Maritime Resilience



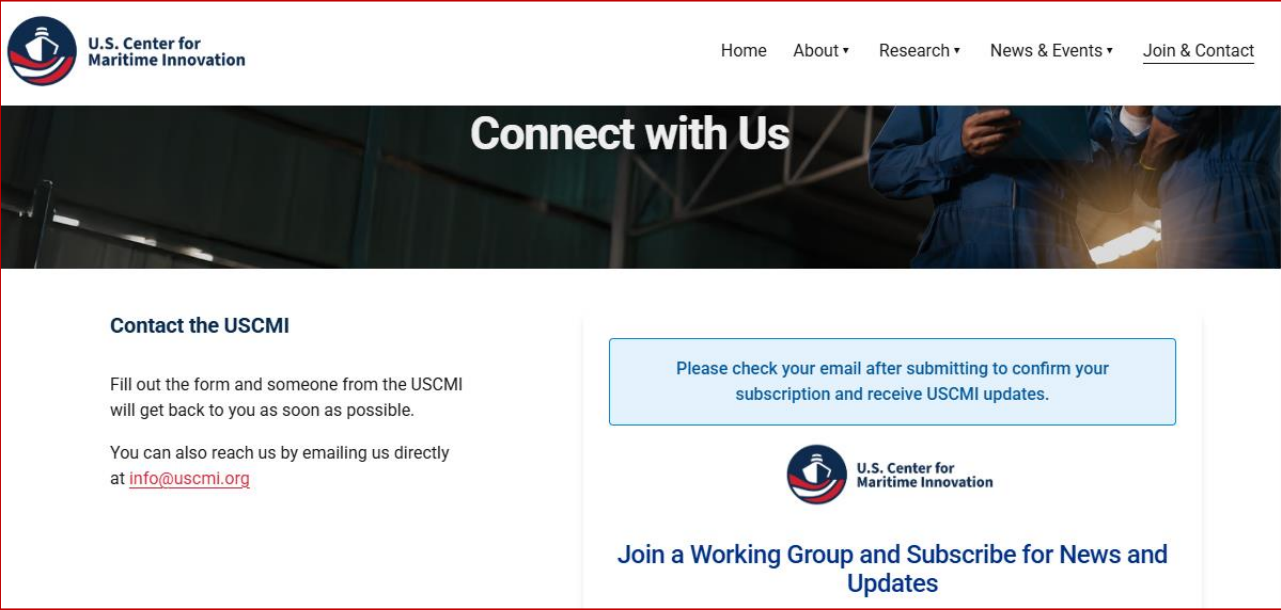
U.S. Maritime Transportation System Risk Management

# USCMI Website & Working Group Enrollment

[Website: www.uscml.org](http://www.uscml.org)



The screenshot shows the USCMI homepage. At the top left is the USCMI logo. The navigation menu includes Home, About, Research, News & Events, and Join & Contact. A red arrow points to the 'Join & Contact' link. Below the navigation is a dark blue banner with the text 'USCMI Technical Working Groups Kicking Off Soon. [Join here](#)'. The main content area features a large background image of a blue sky and ocean. The text reads: 'Welcome', 'U.S. Center for Maritime Innovation', and 'Authorized by the U.S. Congress, the Center is intended to support the study, research, development, assessment, and deployment of emerging marine technologies and practices related to the U.S. maritime transportation system (MTS)'. A red 'Learn more' button is located at the bottom left of the main content area.



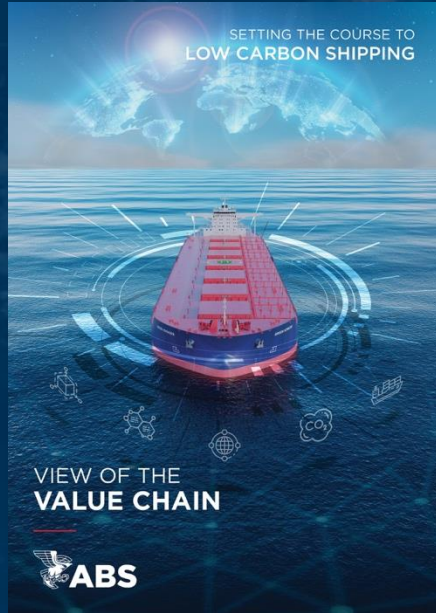
The screenshot shows the 'Connect with Us' page. At the top left is the USCMI logo. The navigation menu includes Home, About, Research, News & Events, and Join & Contact. The main heading is 'Connect with Us'. Below this is a section titled 'Contact the USCMI' with the text: 'Fill out the form and someone from the USCMI will get back to you as soon as possible. You can also reach us by emailing us directly at [info@uscml.org](mailto:info@uscml.org)'. To the right of this text is a light blue box containing the text: 'Please check your email after submitting to confirm your subscription and receive USCMI updates.' Below this box is the USCMI logo and the text: 'Join a Working Group and Subscribe for News and Updates'.



# ABS Working Group/Government Committee

- ABS has proposed standing up a joint working group with U.S. Government shipbuilding stakeholders, including the Navy/PAE Maritime, MSC, USCG, MARAD, NOAA, USACE, Army Watercraft, NSF/UNOLS, and relevant shipbuilding leadership at OMB and the NSC.
- Objective: provide a forum for ABS and government agencies to jointly identify, develop, maintain, and align the most effective commercially based rules, standards, and optional notations for naval and other government vessels.
- The working group would offer ABS to work continuously with stakeholders across government and industry/academia to ensure that the most suitable US-based standards and notations are available to government shipbuilding agencies for their various needs.

# Reminder: ABS Rules & Publications Available





[www.eagle.org](http://www.eagle.org)