



German
Maritime
Centre

THE
FUTURE
ON TRACK

GERMANY @SMW2025



A MESSAGE FROM DR MELLWIG

Singapore Maritime Week (SMW) is one of the most important maritime events worldwide. It brings together leading maritime experts, industry captains and innovators from over eighty countries to network, share their knowledge and explore business opportunities. The event is a chance to connect and talk shop about the latest trends, challenges and opportunities in the maritime industry.

The German Maritime Centre (DMZ) is organizing a joint German stand, so that companies, associations and other institutions can present themselves and showcase their services in person at the stand. In this way, the German Maritime Centre is fulfilling one of its most important responsibilities – raising the profile of the maritime industry.

Via value chains, the commercial aspects of the maritime industry also impact other areas of the German economy. For an exporting nation such as Germany, a competitive maritime sector, with high-capacity ports and an efficient merchant fleet, is essential for the economy as a whole. The joint stand will highlight the importance of the maritime industry as a whole.

I would like to thank the German Maritime Centre for its support at the Singapore Maritime Week and wish all of the organizers and attendees every success.

Dr Wibke Mellwig
Head of Unit Waterways and Shipping,
Federal Ministry for Digital and Transport

A MESSAGE FROM DR CATÓN

Germany's economic success depends inextricably on its maritime business. Our country, the world's third largest exporter, relies on ports and ships to ensure a smooth flow of goods into and out of the country.

Two of Europe's ten largest ports are in Germany and the country boasts the seventh largest merchant fleet in the world. Our shipbuilders are world class in areas such as cruise ships, mega yachts, and other specialized ships. Suppliers provide high-quality equipment to customers around the world.

As a trading country, an open global economy and a rules-based international system are vital for our economic well-being. Alas, we see rising threats from protectionism and geopolitical tensions. We share this concern with other seafaring nations. It is, therefore, even more important that we meet at events such as the Singapore Maritime Week to exchange ideas, make new business connections, and reaffirm our commitment to a thriving maritime business.

The German Maritime Centre is the leading think tank for the German sector. We provide expertise and innovation to help secure and enhance the sector's competitiveness and we are a platform for exchange.

I am delighted that we are present for the first time at our own booth at Singapore Maritime Week. Over twenty companies join us from different sectors of the German maritime industry. This brochure provides information about our Centre, Germany as a maritime hub, and the companies that are present at the German booth.

I cordially invite you to visit us and engage in a conversation with us.

Dr Matthias Catón
Managing Director,
German Maritime Centre

THE GERMAN MARITIME SECTOR

The maritime industry in Germany is of central importance for the country's overall economic development and makes a significant contribution to its international competitiveness. As a foreign trade-oriented country, in which almost a third of foreign trade is handled by seaports, Germany relies on a high-performance maritime infrastructure. According to estimates, the maritime industry generates an annual turnover of up to 50 billion euros and secures around 400,000 jobs. These economic sectors include not only shipbuilding and ocean shipping, but also the port industry, logistics, marine technology and offshore wind energy.

Particularly noteworthy is the strategic importance of the German ports, which act as logistics service providers and important growth drivers for the national economy. With an international market share of around 21% in container shipping, Germany occupies a leading position. Inland shipping, which plays a particularly important role on major rivers such as the Rhine and the Danube, also contributes to the stability of the logistics chain.

Overall, many sectors of the economy benefit from well-developed ports and waterways that serve as environmentally friendly and efficient transport routes. In this context, the Federal Government has launched the 'Maritime Agenda 2025' to further strengthen the maritime industry and ensure its future viability. The agenda includes measures to promote digitisation, sustainability and technological innovation in order to maintain international competitiveness in the long term. This also includes the promotion of climate-friendly propulsion technologies for ships and the further development of environmentally friendly fuels.

The close interlinking of the various sectors within the 'maritime cluster' is another success factor. It is not only the large seaports that play a role here; numerous other businesses are also important to the German economy, such as shipyards, shipping companies and suppliers, including many medium-sized companies in the fields of plant construction and electrical engineering.

The maritime sector is thus not only a driving force for the German export economy, but also a guarantor of employment and prosperity throughout the country. With its 'Maritime Agenda 2025', Germany is pursuing the goal of continuing this success story and further exploiting the potential of the maritime industry. This will not only help to secure jobs and prosperity, but also to achieve sustainable development in global logistics and energy supply.



STRENGTHENING THE MARITIME SECTOR

The German Maritime Centre is an independent institution based in Hamburg. Our members are the German federal government, which is our main funder, as well as five German states and the major maritime associations. The purpose of the association is to increase the competitiveness and innovative strength of the entire German maritime location and to strengthen expertise and career prospects in the maritime economy.

We see ourselves as a link between business, science and the public sector. We want to raise the public profile of the maritime sector as a diverse and future-oriented employer. We seek to expand and intensify the interdisciplinary exchange within the sector and with other industries, as well as with politics, science and authorities nationwide. We also aim to support the maritime sector at European and international level.

PRIORITIES

Global changes, but also technical innovations, are challenging the maritime industry. The commitment of stakeholders at the political, economic, environmental, social and technological level is needed. This is where the work of the German Maritime Centre comes in. We support networking, apply research results, promote innovative capabilities and sharpen the maritime sector's focus on the future. With our cross-sectoral and interdisciplinary perspective, we concentrate on comprehensively addressing the following issues, which are interlinked in many ways:

Competitiveness, sustainability and climate change, technological change, demography and attracting young talent.

ISSUES AND PROJECTS

We address the entire value chain in the areas of shipbuilding and marine technology, shipping, ports and maritime logistics. We work on a wide range of topics and projects that are closely interwoven and therefore fall into more than one of the following categories:

Automation/digitisation

Among other things, we consider use cases for autonomous maritime systems and market exploration for a test centre on innovative marine technologies under offshore conditions.

Energy sources

We have commissioned studies on the energy sources of the future, on bunkering regulations for alternative fuels, on the role of the maritime industry in creating a hydrogen economy, on hydrogen-powered inland vessels and on promoting the modernisation of inland vessels.

EU

We actively participate in the co-design of European funding programmes. Many of our projects refer to (are predicated on) the European framework, such as the study on hydrogen-powered inland vessels or the one evaluating the collection procedure for import turnover tax.

Young talents

To recruit young talent, we conduct target group surveys of young maritime industry employees, we network in business and in science research forums, we offer a prize for outstanding academic maritime teaching and we support the industry in the use of social media.



THE MARITIME SECTOR CAN SHAPE THE ENERGY TRANSITION

Economy

With studies on financing instruments in the maritime sector, on the establishment of a hydrogen economy, on import turnover tax, on promoting the modernisation of coastal and inland vessels and on water law, we support the competitiveness of the sector.

Regulations

Digitalisation, automation and the switch to climate-neutral energy sources cannot be achieved without changes to rules and regulations. We support the industry by commissioning studies on bunker regulations in German seaports, hydrogen-powered ships, bonding technologies and bunker guidance for alternative fuels.

Our members are the German federal government, the five federal states and leading large maritime associations. The General Assembly is the supreme body of the association.



The use of climate-friendly hydrogen and its derivatives (methanol, ammonia, e-liquefied natural gas and e-diesel) will become necessary in order to achieve national and international climate targets. Those who create the necessary infrastructure for hydrogen at an early stage will gain a competitive advantage. As a means of transport (ships) and distributor (ports), the maritime sector will play a special role in supplying Germany with hydrogen and hydrogen-based energy sources. However, it is also likely to be a user of hydrogen (or its derivatives).

A selection of our projects related to the topic of energy transition:

THE ROLE OF THE MARITIME INDUSTRY IN ESTABLISHING A GERMAN HYDROGEN INDUSTRY

Definition of tasks for the maritime industry and the public sector to establish a German hydrogen economy from production, storage and transport to the consumer. Consideration of the use of hydrogen technologies in ships and vessels as well as the use of hydrogen in seaports.

MARITIME HYDROGEN USERS AND THEIR PART OF GERMANY'S HYDROGEN DEMAND

Determination of the hydrogen technologies planned in the maritime sector and the quantities of hydrogen or hydrogen-based energy sources likely to be required (in the short-, medium- and long-term). Creation of an overview of use cases by sub-sector (shipping, ports, shipbuilding and suppliers, marine technology). Estimation of the required quantities of hydrogen.

LEGAL FRAMEWORK FOR THE USE OF ALTERNATIVE ENERGY SOURCES

On behalf of the Federal Ministry for Digital and Transport, the German Maritime Centre is developing proposals to integrate renewable energy sources for inland waterway vessels into the regulations for Rhine navigation (RPR). These proposals were presented and discussed at CCNR meetings, with input from external experts. Coordination with ES-Trin and RPN regulations is essential for the amendments.

ENERGY CARRIER OF THE FUTURE - FUEL ANALYSIS IN SHIPPING BY SHIP SEGMENT

To achieve zero emissions by 2050, the maritime sector must replace fossil fuels with CO₂-neutral alternatives. A study commissioned by the German Maritime Centre in 2021 explored viable fuels, including hydrogen, methanol, and ammonia. It analyzed the fleet, fuel potential, and conversion feasibility. Recommendations include regulatory frameworks, production capacity expansion, and green shipping corridors to support the transition to regenerative fuels and decarbonization.

EXHIBITORS

We are delighted to be able to present 20 companies and institutions at our stand. This reflects, right here in Singapore, the diverse and innovative nature of the German maritime industry. We kindly invite you to get to know the broad range of exhibitors on the following pages.



Ministry of Economy and Innovation

Hamburg and Singapore – two City States and global strongholds in ports, logistics and maritime technologies. Hamburg is Germany's gateway to the world. Home to one of Europe's largest ports, international trade has a centuries-old tradition in Hamburg. With the port at the very heart of our city we are early adopters of new technologies. We continue to digitise our logistics, because efficiency is key. In fact, the term smart port was actually coined in Hamburg. We do also take a lot of pride in being among the leading green ports worldwide. Hamburg has an excellent quality of life and is one of the most livable cities in the world. The close relationship with Singapore is a friendship of natural partners. Two centers of excellence join forces. The Foreign Trade Division of the Hamburg Ministry of Economy and Innovation is the central point of contact. It supports companies in exploring and entering new markets through strategic advice, business development, delegation visits and foreign trade fairs. We are happy to help you if you have any questions.



hamburg.de/bwi



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CargoKite

CargoKite is a venture capital-backed deep-tech startup, pioneering the future of sustainable maritime transport. At the core of its groundbreaking shortsea vessel is an advanced, automated kite system that provides up to 100% of the ship's propulsion reducing operational costs and CO₂ emissions.



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<cargonerds> offers cloud-based digital solutions for freight forwarders, handling over 500,000 global shipments annually. Their plug-and-play SaaS deliver air and sea freight quotes, booking, real-time tracking and customized reporting, making it easy with the comprehensive customer portal.



cargonerds.com



DIGITAL HUB Logistics & Commerce

Digital Hub Logistics & Commerce Hamburg

The Digital Hub Logistics & Commerce connects corporates, startups, and researchers to drive innovation in logistics and commerce. Based in Hamburg's Speicherstadt, we offer space for collaboration, co-working, and events, fostering partnerships through matchmaking and joint projects. #connect #co-create



digitalhub.hamburg

FEHRMANN TECH GROUP

Fehrman Tech Group

FEHRMANN Tech Group pioneers deep-tech, merging AI, ML, and AR with industrial expertise. Led by Henning Fehrman (5th gen), the Hamburg-based firm operates globally. FEHRMANN Windows ensures top naval safety, while APPRISIFY innovates AR facades with digital overlays—no goggles needed.



fehrmann.tech

Exhibitors



Hamburg Invest

Hamburg Invest is the one-stop agency of the City of Hamburg, we support companies wishing to invest, expand, restructure, relocate or to start a business in the Hamburg economic region.

The region leads in green energy, digitalisation, and smart port solutions, shaping the future of maritime logistics.



hamburg-business.com/en



Hellmann Worldwide Logistics

Hellmann is one of the largest international logistics providers. With our high-performance products Airfreight, Seafreight, Road & Rail, and Contract Logistics, we offer the right solution for the complex logistics requirements of our customers and rely on future-oriented digital services for efficient supply chains.



hellmann.com/en



Hamburger Hafen und Logistik

HHLA is a leading European logistics company with seaport terminals in Hamburg, Odessa, Tallinn, and Trieste. With excellent hinterland connections and digital innovations, HHLA serves as a sustainable logistics and digital hub along the transport flows of the future.



hhl.de



Port of Hamburg Marketing

Cutting-edge technology, an efficient transport network, and top-tier feeder and hinterland links: The Port of Hamburg is Germany's leading trade hub. Its key advantage lies in exceptional rail connections, with about 2,000 container train services running weekly to and from the European hinterland.



portofhamburg.com



Heyport

heyport revolutionizes maritime operations with a SaaS platform for terminals and vessel operators. It enables real-time collaboration, reducing CO2 emissions by 14%, cutting manual communication by 90%, and saving 180 minutes per port call. Trusted for 10,000+ port calls, it boosts efficiency worldwide.



heyport.io



HHLA Next

HHLA Next is the innovation and investment unit of Hamburger Hafen und Logistik AG (HHLA), focused on transforming maritime logistics through innovation. At HHLA Next, ideas are turned into products and business models, either in the form of in-house developments (BUILD), in cooperation with partners (PARTNER) or through investments (INVEST).



hhl-next.de



Hamburg Port Authority (HPA)

The HPA has been operating an efficient port management system in the Port of Hamburg since 2005. It is point of contact for water and landside infrastructure, shipping traffic, port railway facilities and real estate management. It markets specialized expertise and represents the interests of the Port of Hamburg at national and international level.



hamburg-port-authority.de

Exhibitors



Kuehne + Nagel

We shape the world of logistics with a strong determination to connect people and goods through innovative and sustainable logistics solutions. Every day, we go above and beyond to meet the needs of our customers.



kuehne-nagel.com



Mabanaft

Mabanaft is a leading independent energy company providing tailored solutions for transportation, heating, industry, and agriculture. It's active in the import, distribution, and marketing of petroleum products, liquefied gas, chemicals, biofuels, and supporting the transition to cleaner fuels.



mabanaft.com/en



OceanScore

OceanScore's Compliance Manager is the industry's leading ETS and FuelEU management solution, supporting shipowners and managers to efficiently manage related commercial processes around charter parties and management contracts, securing transparency of risk and exposure.



oceanscore.com



Bernhard Schulte Shipmanagement

BSM is an integrated maritime solutions provider. Managing a fleet of 680 vessels, 40,000 crew and 2,000 shore-based employees enable the delivery of safe, reliable and efficient ship management services through a network of 11 ship management, 28 crew service and six maritime training centres globally.



bs-shipmanagement.com



Lufthansa Industry Solutions

Lufthansa Industry Solutions

Whether you need to develop a company-wide digitization strategy, connect machines using IT services or need proven maritime industry knowledge: If it is a matter of company digitization, Lufthansa Industry Solutions is your partner. We combine our project and industry expertise with our comprehensive services and technology portfolio.



lufthansa-industry-solutions.com



NautilusLog

NautilusLog is a Hamburg-based tech firm transforming maritime operations with a digital platform for seamless data management and reporting. Our award-winning tools, including IHM maintenance, serve 130+ shipping lines and major partners, enhancing efficiency, safety and sustainability worldwide.



nautiluslog.com



passify

passify digitalises and automates truck handling through a multi-stakeholder platform including a self-service app for drivers. Passify enables digital check ins, identifications & dynamic scheduling, making truck handling more secure, simpler, and synchronized.



passifyapp.de



Turtle

TURTLE connects shipping companies with seafarers for global job opportunities. Our data-driven platform ensures clean supply chains and tackles talent shortages. With 180,000 seafarers from 140+ countries, we provide recruitment services and promote equal opportunities, regardless of origin or gender.



go-turtle.com



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