



JOINT MEDIA RELEASE

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Maritime and Port Authority of Singapore and Wärtsilä to collaborate in accelerating maritime decarbonisation and digitalisation

The Maritime and Port Authority of Singapore (MPA) and technology group Wärtsilä have signed a Memorandum of Understanding (MoU) aimed at collaborating in mutually beneficial areas to enable the introduction of next generation renewable fuels, optimise digital port operations, and develop future talent.

Renewable Fuel Technologies

2. Under the MoU, MPA and Wärtsilä will explore renewable fuel technologies and seek partnerships with various stakeholders to develop green fuel safety concepts and procedures to ensure safe handling and operation of future fuels. Insights gained will support the development of global standards for maritime fuel safety.

Optimised Digital Port Ecosystem and Maritime Cybersecurity

3. The parties will seek to make port operations more efficient through developing reliable, secure, and cost-effective data exchanges between vessels and port operations. Sharing of data at scale, including real time data, has potentials of unlocking insights to optimise port and vessel operations such as Just-in-Time planning. It can also greatly enhance data-based value generation, including the development of new capabilities and operational processes. The development of an operational concept for vessels and harbour craft utilising AI-based monitoring, tracking, and incident response, is also planned. Big data from Wärtsilä's Navi-Port system, MPA's digital platforms and other relevant sources will be at the core of the algorithms to power the AI.

4. MPA and Wartsila will also collaborate on assessing cyber threats and risks to shipboard systems, ship-shore system communications and MPA's digital platforms.

Developing a Future-ready Maritime Workforce

5. To equip future maritime workforce with skills and competencies relating to digitalisation and decarbonisation, MPA and Wartsila will explore working with partners and stakeholders to identify new skills. The collaboration could include working with the Tripartite Advisory Panel under the Alliance for Future Maritime Talent (AFMT TAP) to co-create enhanced training curriculum to improve training effectiveness.

6. Kenneth Lim, Assistant Chief Executive (Industry and Transformation), MPA, said: “As a major bunkering and a maritime hub port supported by a robust R&D and start-up ecosystem, Singapore is at the heart of marintech innovation and at an exciting phase for the potential introduction of maritime fuels such as methanol, hydrogen and its derivatives such as ammonia. MPA looks forward to our partnership with Wartsila to unlock our collective potentials and develop solutions that can be scaled to benefit global maritime community.”

7. “Over the years we have established a strong relationship with MPA, having worked together on various projects aimed at boosting efficiencies and sustainability,” commented Roger Holm, President, Wärtsilä Marine Power and Executive Vice President. “This collaboration elevates Wartsila Voyage’s previous MOU with MPA and to include new impactful areas in decarbonisation and talent development. The partnership will promote innovation and accelerate the industry’s transition to new cleaner fuels and the adoption of the latest technologies. By working in close cooperation with all relevant stakeholders and qualified partners, Wärtsilä and MPA are making a concerted effort to create more efficient, cost-effective, and sustainable maritime operations.”

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About the Maritime and Port Authority of Singapore (MPA)

MPA was established on 2 February 1996 with the mission to develop Singapore as a premier global hub port and international maritime centre, and to advance and safeguard Singapore’s strategic maritime interests. MPA is the driving force behind Singapore’s port and maritime development, taking on the roles of port authority, maritime and port regulator and planner, international maritime centre champion, national maritime representative and a champion of digitalisation and decarbonisation efforts at regional and international fora such as at the International Maritime Organization. MPA partners industry, research community and other agencies to enhance safety, security and environmental protection in our waters, facilitate maritime and port operations and growth, expand the cluster of maritime ancillary services, and develops maritime digitalisation and decarbonisation policies and plans, R&D and manpower development. MPA is responsible for the overall development and growth of the maritime domain and Port of Singapore. In 2022, Singapore remained one of the world’s busiest transshipment hubs with a container throughput of 37.3 million 20-foot equivalent units (TEUs).

For more information, please visit <https://www.mpa.gov.sg>

About Singapore Maritime Week 2023

SMW is an annual gathering of the international maritime community to advance key industry issues and exchange ideas to bring the sector forward. Driven by MPA, in collaboration with industry stakeholders and research and educational institutions, SMW brings together key opinion leaders and industry leaders through conferences, dialogues and forums.

The range of activities and events organised by MPA, industry stakeholders and research and educational institutions, as well as the cosmopolitan profile of participants, reflect the vibrancy and diversity of Singapore as a global hub port and leading international maritime centre.

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