



JOINT MEDIA RELEASE

Singapore, 25 March 2025 | **For Immediate Release**

Rotterdam and Singapore Strengthen Collaboration on Green and Digital Shipping Corridor

The Maritime and Port Authority of Singapore (MPA) and the Port of Rotterdam have signed a Cooperation Agreement to further strengthen their efforts on the Rotterdam-Singapore Green & Digital Shipping Corridor. This follows the success of the project as a driving force of maritime decarbonisation and digitalisation since its inception in 2022.

2. The two ports have since brought together 28 partners across the entire container shipping value chain to drive the deployment of sustainable fuels on the 15,000-kilometer shipping route and implement digital solutions for improved efficiency. The collective ambition is to reduce greenhouse gas emissions of large container vessels on the corridor by 20-30% by 2030, while accelerating the adoption of global standards and solutions to facilitate efficient port calls, flow of goods, and enable paperless handling.

Encouraging the uptake of low- and zero-emission fuels

3. To support the decarbonisation of shipping, the collaboration focused on testing and accelerating the adoption of sustainable fuels, with the aim of making them available, accepted and affordable for large-scale use. Emphasis will be on bio- and e-variants of ammonia, methanol, and methane, with working groups established for each fuel type.

4. Since 2022, several first-mover pilot projects have been carried out, including the first successful bunkering of mass-balanced liquefied bio-methane at the Port of Rotterdam. A similar trial is planned in Singapore in 2025. Other achievements include the completion of a Life Cycle greenhouse gas Assessment (LCA) of green ammonia as a marine fuel, and strong support for the development and implementation of the Port Readiness Framework of the International Association of Ports and Harbors (IAPH), which helps ports assess their preparedness to supply sustainable marine fuels.

5. In the next phase, the partners plan to conduct further studies and trials for the bunkering of bio-methane, methanol and ammonia to support their future use along the shipping corridor. They also aim to develop and mobilise financial instruments to address the cost barriers associated with using low- and near-zero emission fuels.

Efficient and digitalised port calls

6. On the digital front, the two ports have successfully trialled the exchange of port-to-port data to exchange vessel arrival and departure timestamps. Aligned with IMO strategic direction 5, this initiative aims to ensure that data can be exchanged securely in a universally acceptable form and is verifiable across the maritime ecosystem.

7. Both ports have also established ship-to-shore data exchange infrastructure to enable efficient and secure submission of port clearance information. This saves time and minimises data entry errors through automated data filling. The first phase to trial the use of global standards and digital solutions began in March 2025, with an enhanced scheduled for testing in the second half of 2025.

8. Both government and industry partners are at Singapore Maritime Week to advance the discussions and work on realising the goals of the Green & Digital Shipping Corridor.

9. Mr Teo Eng Dih, Chief Executive of MPA, said, “The continued progress through the Singapore-Rotterdam Green & Digital Shipping Corridor is testament to the role of public-private collaboration to bring decarbonisation and digitalisation initiatives from ideas to implementation. We look forward to collaborating with more partners to bring impact to one of the world’s busiest shipping routes and accelerate the decarbonisation and digitalisation of the shipping industry.”

10. Mr Boudewijn Siemons, CEO of the Port of Rotterdam, said, “By bringing together parties across the entire value chain, the Rotterdam-Singapore Green & Digital Shipping Corridor has helped to make first, valuable steps towards the decarbonisation of international shipping while also improving efficiency of trade and setting new industry standards. At the same time, we still have a lot of work ahead of us and we are looking forward to continue our work on this together with the Maritime and Port Authority of Singapore.”

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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 maritime and port development, taking on the roles of 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 and the International Organization for Marine Aids to Navigation. MPA partners industry, research community and other agencies to enhance safety, security, and environmental protection, facilitate maritime and port operations and growth, expand multi-domain capabilities, and support the cluster of maritime ancillary services and manpower development. MPA is responsible for the overall development and growth of the maritime multi-domain and the Port of Singapore.

For more information, please visit www.mpa.gov.sg/

About the Port of Rotterdam Authority

The port of Rotterdam creates significant economic and social value in the Rotterdam-Rijnmond region, the Netherlands and Europe through employment and security of supply of energy, food and other materials needed in society. Thanks to the favourable location, excellent infrastructure and hinterland connections, the port serves as an important hub for industry and global trade.

The Port of Rotterdam Authority's core tasks are the sustainable development, management and operation of the port and industrial complex and maintaining the effective, safe and efficient handling of shipping in the port and the offshore approaches to the port. The aim of the Port of Rotterdam Authority is to strengthen the port's position as a future-proof logistics hub and industrial complex. Quality is central to this. The Port Authority's ambition is to develop a climate-neutral port that is in harmony with its surroundings.

For more information, please visit <https://www.portofrotterdam.com/>

About Singapore Maritime Week 2025

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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