



MEDIA RELEASE

Singapore, 21 April 2026 | **For Immediate Release**

Singapore Maritime Technology & Research Roadmap 2026 Edition to Advance Maritime Innovation and Capabilities Development

The Maritime and Port Authority of Singapore (MPA) and the Singapore Maritime Institute (SMI) launched the new edition of the Singapore Maritime Technology & Research Roadmap during the Singapore Maritime Week (SMW) 2026.

2. The previous roadmap¹, published in 2019, had set the direction for a more advanced, efficient and sustainable maritime sector, and paved the way for the establishment of maritime Centres of Excellence and the implementation of the Maritime Transformation Programme.

3. The 2026 roadmap builds on this foundation, and sharpens the focus on translating research into deployable solutions. It sets out key areas to strengthen resilience, improve productivity, and catalyse innovation across Singapore's maritime ecosystem. Priorities include advancing digital technologies at scale, supporting practical decarbonisation pathways, and improving integration across port and shipping operations, while addressing structural constraints such as manpower requirements, and land and sea space limitations.

4. The roadmap sets out four key areas for action:

- a. Autonomous port operation
- b. Safe and efficient delivery of alternative energy
- c. Smart ships, and
- d. Intelligent and integrated port services

5. By defining priority areas, it aligns efforts across the government, research institutions and the industry to accelerate adoption and reduce implementation risks. Industry partners are encouraged to co-develop and pilot solutions, contribute operational insights, and support the scaling of proven technologies.

6. Over \$100m will be invested into the research and development (R&D) of the four priority areas over the next five years. This will build on the more than \$500 million in funds that have been allocated to pursue maritime R&D in Singapore over the past 20 years.

¹ SMI presented the 'Singapore R&D Roadmap 2030: Maritime Transformation' in 2019. This Roadmap charted out the key thrusts for the maritime research community to channel their R&D efforts, and create better strategic alignment and resource allocation by funding agencies, industry and research and technology communities.

7. The roadmap has been informed by consultations with industry and research stakeholders, including a workshop in 2025 to identify key priorities across near-, medium- and long-term horizons. The Singapore Maritime Technology & Research Roadmap, 2026 edition, will be available as an e-Book and can be accessed at <https://www.maritimeinstitute.sg/tech-research-roadmap/>.

<End of Release>

About the Maritime and Port Authority of Singapore (MPA)

MPA was established in 1996 with the mission to develop Singapore as a global hub port and international maritime centre, and to advance and safeguard Singapore's strategic maritime interests. MPA takes on multiple roles as Singapore's maritime and port regulator and planner, international maritime centre champion, national maritime representative, and champion of maritime digitalisation and decarbonisation efforts. 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 services and manpower development.

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

About the Singapore Maritime Institute (SMI)

SMI is a joint effort by the MPA, the Agency for Science, Technology and Research (A*STAR) and the Singapore Economic Development Board.

Established in April 2011, SMI develops strategies and programmes to achieve its mission with key focus areas in sectors such as port, shipping and maritime services. SMI charts the maritime research strategy and promotes greater industry-academia research and development (R&D) collaborations to be undertaken in Singapore.

Through a whole-of-government approach, SMI drives initiatives with industry-wide impacts to enhance the overall competitiveness of the local maritime industry, and to strengthen R&D capabilities in support of Singapore as a global maritime knowledge hub.

For more information, please visit www.maritimeinstitute.sg

About Singapore Maritime Week 2026

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.

For more information, please visit www.smw.sg

For media enquiries, please contact:

Alif Sutrisno Kasmuri

Corporate Communications, Maritime and Port Authority of Singapore

Email: Media_enquiries@mpa.gov.sg

Jacqueline Goh

Outreach and Corporate Communications, Singapore Maritime Institute

Email: jacqueline@maritimeinstitute.sg

APRW for Singapore Maritime Week 2026

Jacalyn Chua

APRW

Mobile: 9723 7177

Email: jacalyn@aprw.asia

Toh Hui Wen

APRW

Mobile: 8282 0372

Email: huiwen@aprw.asia