

### Agency

Maritime and Port Authority of Singapore



**How does the agency keep abreast of critical industry trends/innovations and facilitated new business ideas for the sector's transformation and growth? Please share the best practice with examples/case studies.**

- **Adopting an ecosystem approach:** MPA adopts an ecosystem approach to foster maritime innovation and facilitate new business ideas. This entails a deeper understanding of the key players across the maritime Research and Development (R&D) value chain that contribute to the innovation ecosystem. Through new initiatives and enhancing the current enabling environment, MPA seeks to grow the diversity of ecosystem players, attract and entrench key players, and promote formal and informal linkages between these players. For example, PIER71 or Port Innovation Ecosystem Reimagined @Block71, a collaboration between MPA and NUS Enterprise, was launched to inject vibrancy into the maritime industry, catalyse maritime companies to embrace innovation and venture into adjacent/new growth areas through working with tech startups. Through this platform, maritime partners would have the opportunity to testbed the use of digital technologies to save time and streamline processes while improving manpower efficiency and safety.
- **Learning from maritime community:** Maritime corporates are invited to join the community of Circle Of Digital InnOvators (CDO) and Circle of HR InnOvators (CHRO) network. MPA will work with the CDO and CHRO network to understand the different dimensions of the industry innovation needs, catalyse ground-up innovation and effectively facilitate transformation in the sector.
- **Establish key partnerships:** MPA partners with trade associations (e.g. Singapore Shipping Association (SSA) other Government agencies (e.g. (WSG, SSG, ESG, IMDA, EDB) and partners (e.g. Singapore Maritime Foundation (SMF), Singapore Maritime Institute (SMI), Singapore Maritime Officers' Union (SMOU)) that are pivotal to make an impact to the industry.



**How does the agency, encourage new business ideas and innovations as well as taking the effort to understand stakeholders' needs and challenges to fine-tune implementation processes in support of them? Please share the best practice with examples/case studies.**

- **MPA Living Lab:** Singapore has one of the world's busiest hub port and waterways, which present the most demanding environment that helps spur innovative ideas and solutions. One challenge that technology developers and innovators face is the lack of a real operating environment and maritime data for testing and validation of solutions and technologies. MPA Living Lab, together with PSA Living Lab and Jurong Port Living Lab, aims to bring together process owners, technology providers and/or researchers to co-innovate, test-bed new systems, and bring technological and engineering solutions closer to market. MPA Living Lab consists of physical and digital spaces serving as co-creation platforms where innovative projects, such as remote pilotage, the next generation vessel traffic management, and maritime data hubs are housed and experimented. Physical test-beds at sea include designated anchorages to facilitate the trials of marine drones, autonomous vessels and wireless communication technologies in port environment.

# PEP-SBF Awards 2021

Pro-Enterprise Survey Recognition Award



- **Create enabling environment for new ideas and innovation:** Together with SSA and SMF, MPA jointly organised the Maritime Innovation Workshop. Maritime corporates and the CDO network participate in this workshop and undergo a design thinking process to surface innovation opportunities.
- **Regular engagement:** MPA regularly engages with maritime companies to share on existing and new initiatives that MPA is working on. As part of the engagement efforts, teams will identify synergistic areas for collaboration and work on thematic call-for-proposals to seek maritime companies and technology partners' participation in areas such as digitalisation, decarbonisation.



Maritime Innovation Lab