

Annex A: Recipients of the MINT-STARTUP Grant

No.	Start-up	Project Title	Project Description
1	EcoWorth Tech	Enhanced Oil Removal Solution to provide better Marine Oil Spill Response	To develop a prototype that would put Carbon Fibre Aerogel (CFA) material into the optimal form that is suited for the industrial needs in the maritime industry. This would allow validation of CFA in comparison to other competitive products in the market. Based on laboratory tests, the CFA is at least 100% more absorbent on a per weight basis than traditional single-use absorbents.
2	EnvironSens	Robust Testing and Monitoring Drinking Water Quality On-board Vessels	To automate the manual processes of their current bacterial monitoring sensor system. The current manual process requires human expertise and interference in the steps of filtration, staining and colorimetric analysis, which is not feasible for vessel usage.
3	Eupnoos	Eupnoos lung function test for occupational disease	To enable shipyard workers to check for the first signs of lung disease by blowing into the microphone of their device. The AI model will identify symptoms associated with disease and flag the results to the user so that they can act and not ignore the problem until a crisis sets in. The application also can be used as a tool to support smoking cessation by showing smokers their lung condition and enabling them to track improvement over time if they adhere to their plan.
4	eyeGauge	Non-invasive Online Condition Monitoring for High-Speed Passenger Ferries Real-time	To leverage on eyeGauge's non-invasive data collection solution using cameras and capture devices to gather data onboard ships. It will extract and digitise analogue signals from the main engine, electrical generators, and other onboard equipment to guide maintenance activities for the ferries and improve asset availability for utilisation.
5	FlexoSense	Smart Insole for Worker Safety and Productivity	FlexoSense has already developed a patent-pending pressure sensor technology for insoles, that has thus far been trialled in the health sector. Through the project, they will enhance and tweak their smart in-sole for the maritime and marine and offshore sector to detect Slips, Trips and Falls (STF).
6	ITAAS	Monitoring and Early Detection of Health Conditions	To re-design ITAAS's current in-ear wearable technology to aid in the detection of cardiovascular-related health conditions to enable early intervention in a marine environment. The solution will also provide

No.	Start-up	Project Title	Project Description
			supervisors with real-time visibility of their crew's health conditions.
7	MAGES Studio	Serious Game for Seafarer's Onboarding Training	To develop a "Ship Emergency Simulation" game. This will be a level-based game, in every level the boat will be travelling from point A to B and the player will face multiple emergency situations along the way. The player must resolve the emergency situations by performing the correct actions in the right order and ensure smooth sailing throughout the journey.
8	MagicPort	Digital Procurement and Collaboration Platform for Ship Supplies and Services	To develop a digital marketplace and collaboration platform for ship owners and ship managers; a comprehensive directory that provides information on ports, suppliers and services providers, vessels, and owners; and work on the Request For Quotation processor which can help ship suppliers automate the process of preparing the quotations.
9	Temus	Detection and Prevention of Near-Miss Workplace Fall Injuries without Vision Analytics	To leverage on their existing Connected Worker System (CWS) platform suite, which consists of TAGU and NaviSafe and enhance their wearable device so that it can detect Slips, Trips & Falls (STFs) or Fall From height (FFH) accurately. TAGU is a IoT wearable device, while NaviSafe is the software application hosted on cloud.
10	Vilota	3D Vision-Based Solution for Rebars Distance Management	To leverage on their proprietary 360-degree vision-based sensor and develop a prototype to provide recognition and counting with high accuracy, diameter measurement of rebars, and information for automated tallying within a port environment.
11	WeavAir	WeavAir Loss Prevention Platform	<p>To create value for ship owners, ship managers and marine insurers by developing a digital portal which can improve benchmarking, accelerate decisions, improve forecasting, and risk rating.</p> <p>The digital portal will help ship owners and ship managers simplify the data collection process for marine incidents that required by marine insurers. While marine insurers can leverage on the digital portal for anonymised marine incidents' data so that they can make better risk assessment and recommend potential loss prevention protocols which ships owners or manager can undertake to help lower insurance premiums.</p>

(More information is available at <https://pier71.sg/smart-port-challenge-past-cohort.>)