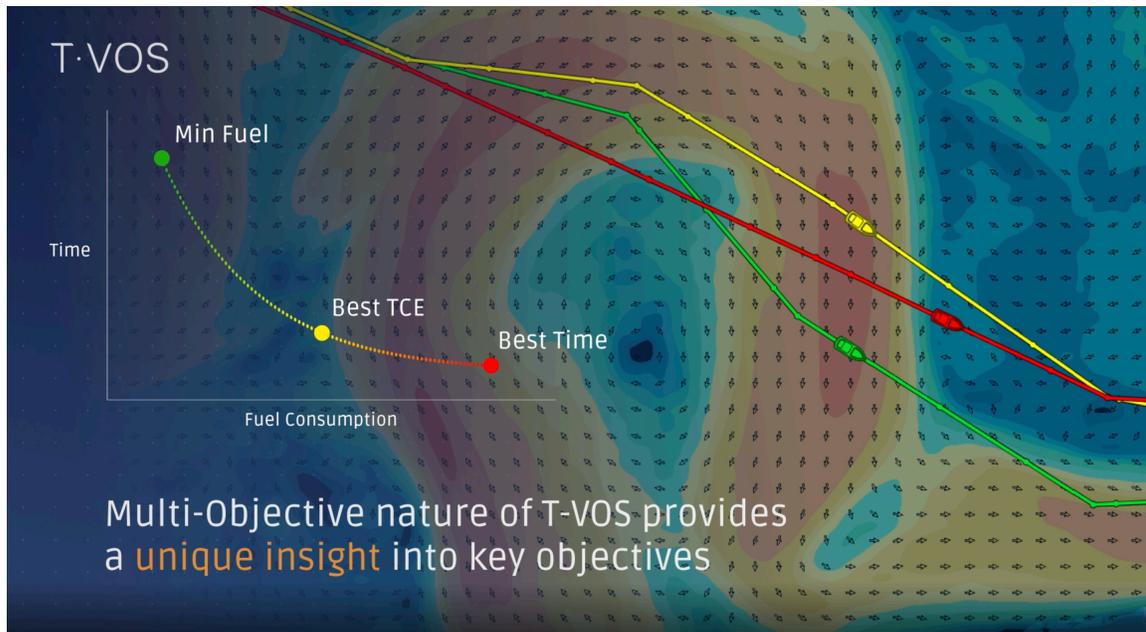


27<sup>th</sup> March 2023

### **Submergence Group Drives Voyage Optimisation for Autonomous Vessels in Collaboration with Theyr**

Submergence Group (SubGroup), through its subsidiary Marine AI, and Theyr announce a new agreement that will lead to the integration of Theyr's voyage optimisation engine into Submergence's technology platform for the No Manning Required Ship (NOMARS) U.S. Defense Advanced Research Projects Agency (DARPA) program. NOMARS, will be a new generation of medium unmanned surface vessels that can perform with "unprecedented reliability and availability" and will reshape the future of unmanned maritime operations.

Don Scott, Technical Lead at Subgroup/Marine AI, comments, "*after substantial benchmarking with existing solutions, Submergence recognised the benefits of the T-VOST<sup>TM</sup> optimisation engine. The innovative solution Theyr offers to the maritime industry combines the traditional practice of good ship operating and the impressive power of the T-VOST<sup>TM</sup> Optimisation Engine. This supports our quest to improve the operational efficiency of MarineAI.*"



Peter Mantel, Chief Commercial Officer at Theyr, further comments, *“We are incredibly pleased to be working in close collaboration with Subgroup/Marine AI to continue enhancing voyage performance AI technology”*.

The T-VOST™ Optimisation Engine has been developed in partnership with Southampton University and the Alan Turing Institute and utilises a world-class multi-objective genetic algorithm that optimises voyages simultaneously for safety, weather, time, fuel and carbon footprint, allowing to select optimal routes and voyages.

**- Ends-**



## Notes to Editors

### **Submergence Group / Marine AI**

Submergence Group & M Subs Ltd are sister-companies that specialize in the design, manufacture and operation of manned and unmanned vehicles for military and commercial markets. Operating from Plymouth (UK) and Roundrock Texas, our experienced team possesses skills in mechanical and electrical engineering, composites design and manufacture, electronics and software design, and offshore operations.

Marine AI develops advanced artificial intelligence and machine learning autonomous navigation software systems to enhance Safety and control of manned and unmanned vessels.

Website: [www.submergencegroup.com](http://www.submergencegroup.com) / [www.marineai.co.uk](http://www.marineai.co.uk)

### **Theyr**

Theyr provide the science and the solutions to support commercial maritime complex and diverse met-ocean data and voyage optimisation requirements. The T-VOS™ is the first AI-based multi-objective voyage optimisation engine for the shipping industry, capable of simultaneously optimising for safety, weather, time, fuel, TCE, emissions, and departure and arrival times.

Website: [www.theyr.com](http://www.theyr.com)

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