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## Media Release

Classification: Public

### OMC International Partners in S-100 Simulator Tests Shaping the Future of Navigation

**Video of the IHO S-100 Test Bed and Sea Trial in Confined Waters can be viewed and downloaded [here](#)**

S-100 is a next-generation digital framework developed by the IHO, designed to provide richer, real-time maritime data to support safer, more precise and efficient navigation, particularly in complex port environments, and is an important milestone in the digitization of maritime industry.

OMC, as maritime technology partner, participated in a recent series of bridge simulator tests led by Carnival Corporation through its Center for Simulator Maritime Training (CSMART) as part of the IHO S-100 Test Bed and Sea Trial in Confined Waters. OMC provided S-129 (Under Keel Clearance Management) datasets for the trial, generated by its industry leading DUKC®, Dynamic Under Keel Clearance System.

S-100 represents a significant shift in how navigation data is created, shared and used. Rather than relying solely on static chart information, S-100 enables multiple, dynamic data sources to be layered together, helping mariners better understand changing conditions that directly affect vessel manoeuvrability in real-time as they are operating.

Phase 1 of the S-100 programme has entered into force, meaning IHO Member States and stakeholders can begin to produce, test and use a subset of the S-100 product specifications, including S-129: Under Keel Clearance Management. While commercial availability of S-100 type-approved ECDIS is still limited, S-100 datasets including S-129 can already be displayed via Pilots' portable Electronic Charting Software (ECS).

“As the pioneer of dynamic UKC, OMC has deep and extensive expertise in UKC management and is honoured to have Jason Rhee chair the IHO's S-129 Project Team.” said Peter O'Brien, OMC International's CEO. “OMC has been providing Dynamic Chart Overlays for integration into ECS for more than a decade, and the standardisation of this data through S-129 will facilitate industry uptake and enhance user experience.”

The IHO S-100 Test Bed and Sea Trial in Confined Waters was delivered through close collaboration among Carnival Corporation and CSMART; the United Kingdom Hydrographic Office; the Netherlands Hydrographic Office; the Australian Hydrographic Office; the Australian Maritime Safety Authority (AMSA); Land Information New Zealand; the Port of Rotterdam; the Port of Napier; Port Phillip Sea Pilots (Melbourne); Loodswezen (Rotterdam Pilots); the United Kingdom Maritime Pilots Association; and maritime technology partners including Wärtsilä Voyage Simulation, Teledyne, Raymarine Commercial, SevenCs, OMC International, OSI Maritime Systems, QPS and SEAiQ Pilot.

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### About OMC International

OMC International is a maritime technology and engineering company, with a focus on facilitating safe, efficient, resilient, and sustainable port operations through digitalisation and innovation. OMC is the inventor of a suite of multi-award winning digital port optimisation and risk management technologies including the Dynamic Under Keel Clearance System (DUKC®), BerthAlert, TransitAnalyst, PortWeather, Optical Draft Intelligence (ODIN), and the AI AirDraft detection and alerting system.