財團法人船舶暨海洋產業研發中心

Ship And Ocean Industries R&D Center

SOIC aims to promote the marine economy development and pursue technical excellence based in Taiwan, while also taking a broad view of Asia and moving towards global market, actively developing forward-looking and key ship industry technologies. In recent years, in line with national policies such as “Indigenous Defense Warships,Offshore Wind,and Smart Ships," striving to promote the development of our marine industry, and to shape the quality of MIT (Made In Taiwan), develop differentiated competitiveness, establish independent innovation and capabilities of forward-looking technology development, drive the development of related industries and employment, and achieve the initial intention of establishment for serving the country as well as the ship and marine industries.

ROCS Ta Chiang (PGG 619)

Indigenous Defense Warships

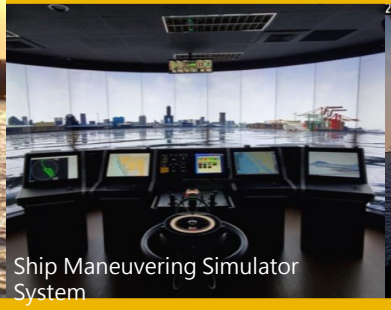
SOIC actively develops the shipbuilding industry, achieving significant achievements in ship design and supervision services, including surface vessels, patrol vessels of the Coast Guard, auxiliary vessels and combat vessels. Further, we‘ve invested the research and development in key equipment systems and core technologies, such as wheel control systems and stabilizers, power management systems and other technical capabilities to enhance defense autonomy and meanwhile drive the upgrading and expansion of the defense ship industry of Taiwan.

DeltaFloat

Offshore Wind

SOIC has entered into the development of offshore wind technology based on our ship expertise, including safety assessments for marine operation and design analysis technology for floating wind turbine systems. We have assisted domestic marine operators pass the first Maritime Warranty Survey (MWS) certification in Taiwan. Indigenous conceptual designs for semi-submersible floating platforms and mooring systems were developed, verified through tank tests, and reviewed by third-party certification bodies. Further, SOIC is actively dedicated to on-site testing for floating prototype units, that is expected to upgrade the technical prowess of the domestic wind power industry and promote the internationalization of the marine engineering industry.

THETIS Smart Vessel



Ship Maneuvering Simulator System

Smart Ships

SOIC is developing core key technologies for autonomous navigation of smart ships, including establishing virtual environments for autonomous navigation, ship control simulator technology, conducting autonomous navigation tests and validations in real ship environments, and integrating perception, decision-making, control systems, and ship functionality verification required for autonomous navigation. These efforts aim to promote the intelligence application services such as smart ships, smart equipment, and smart ports as core business. We are also focusing on developing key technologies such as autonomous navigation, remote control, collision avoidance, AI image recognition, and AI perception fusion (integrating image, AIS, radar), linking domestic shipbuilding with the information and communication technology industry, thus accelerating the development of smart and digital transformation of the ship industry.

soic.org.tw/en/
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SOIC aims to promote the marine economy development and pursue technical excellence based in Taiwan, while also taking a broad view of Asia and moving towards global market, integrating and sharing to enhance the base of industry, and contributing to the development of the national marine economy as a critical mission and actively developing forward-looking and key ship industry technologies. In recent years, in line with national policies such as "Indigenous Defense Warships, Offshore Wind,and Smart Ships," striving to promote the development of our marine industry, and to shape the quality of MIT (Made In Taiwan), develop the differentiated competitiveness, establish independent innovation and capabilities of forward-looking technology development, drive the development of related industries and employment, and achieve the initial intention of establishment for serving the country as well as the ship and marine industries.


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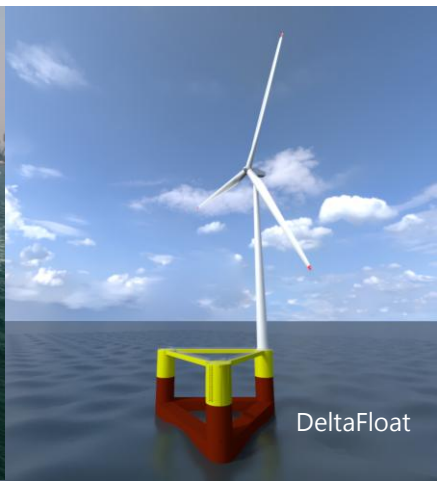
CHIAYI(CG 5001)


DeltaFloat

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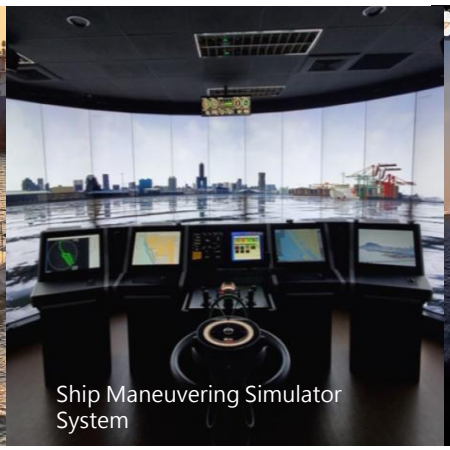
THETIS Smart Vessel


Ship Maneuvering Simulator System

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