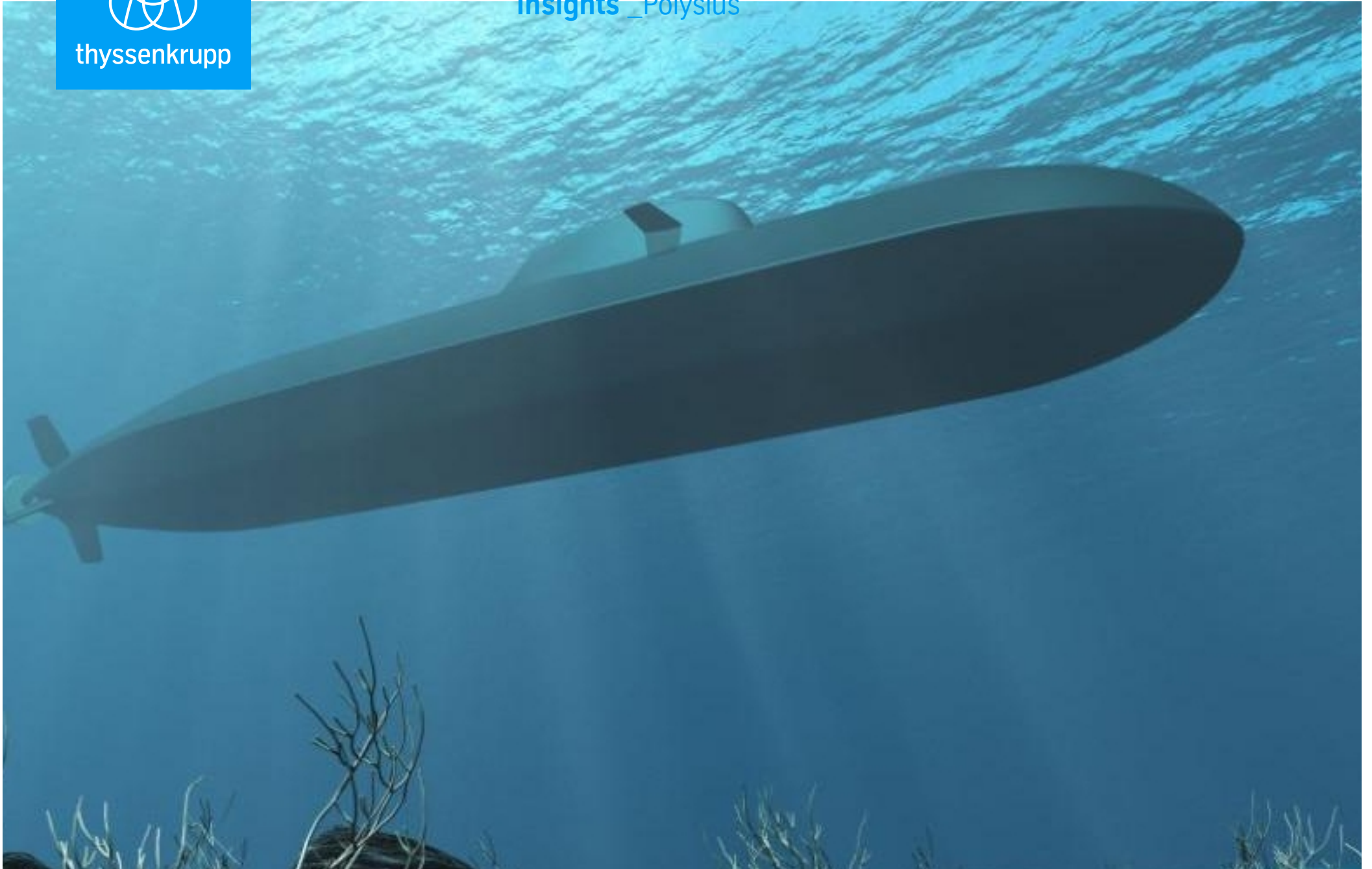




thyssenkrupp

Insights \_ Polysius



# Modern control technology for two German and four Norwegian submarines

The new Class 212CD (=Common Design) submarines ordered by thyssenkrupp Marine Systems in summer 2021 will be equipped with a Group-owned automation system. At the end of 2021 the Polysius business unit of thyssenkrupp Industrial Solutions AG was awarded the contract to supply the advanced control technology for six submarines. It

is the biggest pure automation order in the history of Polysius. The basis is the tried-and-tested polcid® control system, whose functionality has already been tailored to the needs of the navy in some areas.

The "platform management systems" (PMS) of the individual submarines, take over the control, monitoring and visualization of the ship's technical equipment and systems.

“This order is an important milestone for the automation sector and the cooperation between thyssenkrupp Marine Systems and BU Polysius.”

Matthias Weischer, Head of Automation & Electrical Engineering

Matthias Weischer, Head of Automation & Electrical Engineering Münsterland: "This order is an important milestone for the automation sector and the cooperation between thyssenkrupp Marine Systems and BU Polysius. Together with the Kiel team and our many years of experience in automation, we are facing the new challenges and look forward to the successful execution of this order."

Michael Gottschalk, Head of Automation, adds: "It took a long time to conclude the contract successfully. The first project day took place in Kiel on February 27, 2018. In the end, however, the goal-oriented cooperation with our colleagues from the Service Revamps department paid off. In addition, we were able to build on the important know-how of our Kiel colleagues in the technical and commercial areas. They accompanied us throughout the project and provided excellent support."

The scope of delivery of the Polysius BU essentially consists of:

- Application software for the control system with an adapted module library for the navy
- Control and monitoring of the ship's technology in various main sections of the submarine, except for the steering system here
- PLC technology for the control level
- Interface equipment and uninterruptible power supply
- Documentation
- Training of the driving teams
- Support during commissioning and, as an option, also during sea trials of the submarines



A possible layout for future operations centers in the new submarines designed by the Norwegian research institute FFI. Illustration: HALOGEN

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**The bottom line:** The commissioning, or setting to work, of the delivery portion of the Polysius business unit will be carried out in time for delivery of the first boat in 2029.

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