# OSI Contracted by BAE

ECPINS to Navigate Cutting-Edge Submarine Classes

- **ECPINS with leading Dived Navigation to operate on Astute and Dreadnought Classes**
- **Both programs represent cutting-edge submarine technologies**
- **ECPINS, only WECDIS third-party type approved against NATO WECDIS STANAG 4564**

April 9, 2024 – OSI Maritime Systems (OSI) is pleased to announce the recent finalization of two significant contracts with BAE Systems Submarines (BAE). These contracts encompass the ongoing support for Astute Class SSNs and the provision of future navigation capabilities for the UK's Dreadnought Class of SSBNs.

Ken Kirkpatrick, President & CEO, stated, "We are proud to be working with BAE, recognized as the best-in-class for their submarine expertise. The Astute and Dreadnought Classes epitomize cutting-edge submarine technology. As part of it, OSI's navigation systems will play a pivotal role in supporting the operations of some of the world's most sophisticated submarines."

The Astute Class stands as the Royal Navy's largest and most advanced attack submarine ever constructed. Notable for various technological breakthroughs, the Class is the first Royal Navy submarine without optical periscopes, utilizing high-spec video technology instead. Furthermore, the submarine will be the quietest ever made and equipped with world-leading sensors, carrying Tomahawk Land Attack Cruise Missiles (TLAM) and Spearfish heavyweight torpedoes. With a length of 97 meters, the Astute-class submarines can circumnavigate the globe submerged, generating their own oxygen and drinking water.


The Dreadnought Class, once built, will be the Royal Navy's largest, most powerful, and technically advanced submarine. Set to enter service in the early 2030s, this Class represents the most significant defence project in the UK, incorporating unprecedented levels of innovation, technology, and collaboration. Each submarine, measuring 153.6 meters, exceeds the length of three Olympic-sized swimming pools.

OSI's ECPINS forms the cornerstone of the submarines' navigation system. Embedded in ECPINS are capabilities designed for navigating in harsh subsurface environments. In high-tempo tactical situations, submarines need to minimize their above-water signature, restricting the use of sensors such as GPS. Through advanced algorithmic calculations, ECPINS' groundbreaking Dived Navigation methodology and techniques minimize reliance on sensors, allowing the submarine to remain undetectable for longer, thereby retaining its full tactical advantage.

Jim Davison, VP, Business Development, added, "ECPINS is the trusted WECDIS solution fleetwide across the Royal Navy and on two flagship submarine classes, including the UK's Strategic Ballistic Missile submarines; this cannot be overstated. Independently certified against NATO WECDIS STANAG 4564, ECPINS stands as the only truly third-party certified naval navigation solution. Operational on eighteen classes of submarines, ECPINS is deployed on board submarines with the navies of the UK, Australia, Canada, Brazil, Indonesia, the Netherlands, Portugal, South Africa, Sweden,and Taiwan."

**About OSI**

OSI Maritime Systems, has been providing advanced integrated navigation and tactical solutions to military customers for over 20 years. As a pioneer of Warship Electronic Chart Display and Information Systems (WECDIS), the company has grown to be a leading provider of integrated navigation and tactical solutions designed for naval and maritime security operations. The company develops and delivers integrated bridge systems for warships, integrated dived navigation systems for submarines, and C2 systems for small craft. OSI currently has 25 naval customers from around the world with more than 700 warships and submarines operating with its world leading integrated navigation and tactical solutions.