



Open for Business:  
*The DON Industry Showcase at Sea Air Space*

**Instructions for participation:**

1. Fill out the form in its entirety. Any submissions that aren't fully complete will not be reviewed.
2. A challenge must be selected. Please use the description box to elaborate on how your company/idea can help the DON overcome the chosen challenge.
3. Form name must read:
  - a. **[Your Company Name] - [Challenge #] (Example: Cyber Group – Challenge #2)**
4. When submitting the form be sure to use the following email subject line:
  - a. **2025 Industry Showcase - [Your Company Name]**
5. Email form to [osbp.pao@navy.mil](mailto:osbp.pao@navy.mil), [destiny.n.white7.civ@us.navy.mil](mailto:destiny.n.white7.civ@us.navy.mil), [amber.n.donnely2.ctr@us.navy.mil](mailto:amber.n.donnely2.ctr@us.navy.mil), [jsimpson@navyleague.org](mailto:jsimpson@navyleague.org)
6. Please send one submission form at a time; Companies may submit for multiple challenges, however, forms must be submitted in separate emails.
7. If the instructions listed above are not followed, your submission will be disqualified.

Challenges Are:

- **Challenge #1:** Innovative materials, designs, and technologies are needed to enhance future submarine platforms' Hull, Mechanical, and Electrical systems—focusing on everything from stealth coatings to digital engineering for advanced undersea operations.
  - This challenge looks for forward-thinking solutions that improve the core physical and electrical structures of submarines—known as HM&E (Hull, Mechanical, and Electrical). It covers a broad spectrum, including stealth-enhancing coatings, hull treatments, and naval architecture concepts that reduce weight, save energy, and cut costs. Ideas might involve advanced propulsion and power storage systems, new composite materials for sub components, and cutting-edge payload handling, launch, and recovery innovations. Furthermore, submarine survivability and life support can be bolstered through better sensors, communication

technologies, and undersea warfare systems. Non-destructive testing methods (NDT/NDE) to gauge material service life, as well as digital engineering techniques for integrated platform design, are also part of this challenge. Essentially, it's about pushing submarine technology forward, making subs more capable, reliable, and efficient in operations beneath the waves.

- **Challenge #2:** Develop a standardized, proactive method to prevent and resolve the obsolescence of submarine electronic components—particularly circuit card assemblies—without requiring costly system redesigns.
  - TEAMSUB faces ongoing difficulties due to the rapid obsolescence of commercial electronics used in submarine systems, most notably circuit card assemblies and power supplies. This stems from the commercial market's shorter technology lifecycle, leading to sudden unavailability of parts and forcing expensive redesigns. The Navy seeks a structured approach and vendors capable of predicting component obsolescence at least one to two years in advance, providing form/fit/function replacements (so that systems can be supported without a complete overhaul), and working with OEMs even when detailed technical data isn't owned by the Navy. Ultimately, the goal is to build a sustainment plan that ensures parts availability for 10–15 years, incorporating these considerations early in the component selection process.
  
- **Challenge #3:** Identify and implement IT solutions that streamline ship maintenance or new construction processes, improve quality tracking, and boost overall efficiency and productivity.
  - This challenge seeks technologies that can be integrated into the shipbuilding or maintenance lifecycle to optimize workflows and reduce bottlenecks. Potential solutions include software or hardware tools that simplify documentation, automate data collection, and track defects or failures in materials and components before they affect production quality. By digitizing or modernizing these tasks, the goal is to increase productivity, reduce costs, and ensure smoother operations—ultimately delivering ships on time and on budget with fewer quality issues.

**Please note: Participation in this event is not a solicitation for any business opportunity, guarantee or promise of any award, contract, commitment, or endorsement from the Department of the Navy.**

**This event is open to the public. Do not include or disclose any confidential or proprietary information during presentation.**