



# ODYSSEY ADVANCED AUTONOMY SOLUTIONS®

## Advanced, intelligent autonomy solutions for platforms in any domain

HII's Odyssey suite transforms any vehicle into an intelligent robotic platform. Delivered from a variety of vehicle, module and algorithm-level implementations across platforms, sensors, payloads and missions, Odyssey enables multi-vehicle collaborative autonomy, sensor fusion and advanced perception.

### Mission Application

Odyssey can integrate on USVs, UUVs, UGVs, UAVs or any manned platform in any domain to increase autonomy and enhance distributed operations.



**Odyssey is currently integrated on naval prototypes under development and has been fielded for more than 6,000 hours on 23 vessel types.**

### Advantages

- **Adaptability:** Scalable from human-assisted operations to full AI-enabled independence.
- **Intelligent Transformation:** Converts platforms into intelligent robotic systems capable of advanced autonomy and multi-vehicle collaboration.
- **Seamless Integration:** Supports smooth operation on both crewed and uncrewed platforms with intuitive mission planning interfaces.
- **Field-Proven Reliability:** Backed by more than 20 years of development and rigorous testing for robust, trusted performance.

### Features

- Full sensor, navigation, propulsion, vehicle control and payload management.
- Operates in limited or no bandwidth multi-domain environments.
- Intuitive user interface for mission planning and monitoring.
- Enhanced situational awareness and health monitoring options.
- Robust, reliable COLREGS compliant navigation.
- Wide-ranging library of single and multi-agent mission behaviors for complex mission scenario creation.
- Data management for secure storage and real-time or post-mission analysis.
- Open architecture, modular design compatible with customer or third-party sensors, payloads, algorithms and interfaces.
- Adheres to open architecture standards, including Unmanned Maritime Autonomy Architecture (UMAA), Robot Operating System (ROS), and Data Distribution Service (DDS).



HII is a global, all-domain defense provider. HII's mission is to deliver the world's most powerful ships and all-domain solutions in service of the nation, creating the advantage for our customers to protect peace and freedom around the world. As the nation's largest military shipbuilder, and with a more than 135-year history of advancing U.S. national security, HII delivers critical capabilities extending from ships to unmanned systems, cyber, ISR, AI/ML and synthetic training. Headquartered in Virginia, HII's workforce is 44,000 strong. For more information, visit: [HII.com](https://www.hii.com).

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