



EMPOWERING OPERATORS

Unmanned and Autonomous Navigation solutions

AXEL TÖRNEMAN, SEACROSS MARINE | KIMON SFIRIS, SOAL MARINE GROUP

SeaCross High-speed Tactical Navigation

Leading the way – With and for Operators

- For 20 years, SeaCross Marine has developed Navigation software for high speed craft.
- Driven capability, forged through real missions and real-world demands.
- Trusted as the leading navigation system for 7-30m high-speed craft..

Enhancing Operators

- At the core of every SeaCross system: The Operator.
- System commonality – same system and UI independent of vessel and system type.
- We don't automate to remove the human, we automate to empower them.
- Maintain operator expertise and full tactical awareness to assist or guide missions without being physically onboard.

SOAL

MARINE GROUP



Cutting-edge Maritime products and Services

- Lightning VS USB

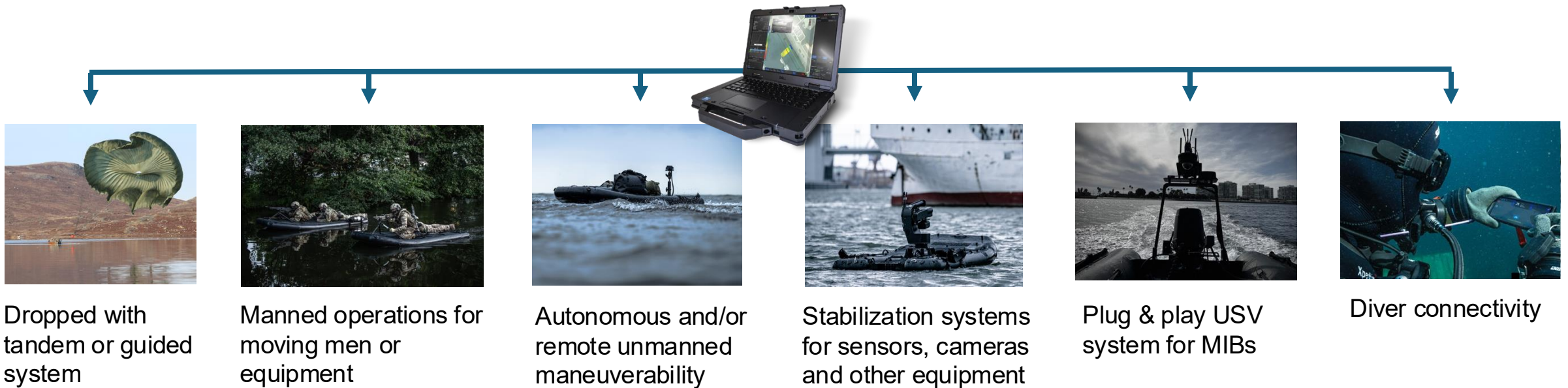
Or a mix

- You might have been asking yourself why!
- So, what is our goal here - Plug and play



SOAL Modularity

Innovative and modular solutions that bridges between manned
and unmanned– Plug and play



Use Case – From customer requirement to capability demonstration

SeaCross in partnership with SOAL Marine Group

Combined expertise enabled rapid and
customer-centric innovation.

Autonomy Adapts to real mission context

MISSION AS A DRIVER

With autonomy and remote control, operators can conduct missions entirely unmanned or use vessels as forward assets during multi-domain operations.

Extraction or support missions can be executed even when human boarding isn't feasible.

Agile Development

WHERE HARDWARE MEETS SOFTWARE

Through agile and collaborative development, the Helgrind system was created, leveraging cutting-edge technology, iterative prototyping, and close customer feedback throughout the process.



HELGRIND + SeaCross

Payloads



RTX
Relay



Situational
Awareness



Logistics



MEDEVAC



Kinetic effectors

Autonomous Platform



Operator terminal



Remote Connect (RCT) datalink



HELGRIND – The Black box

Portable and Easy to Deploy

Compact navigation system fitted into a cabin sized portable box, ready for immediate use on any platform.

Self-Sufficient Power

Built-in power ensures reliable performance in any environment, independent of external sources.

Minimal Training Required

Easy to operate, effective for users with limited training.



Highly Customizable

Tailor the system to your specific requirements, offering flexibility to meet unique operational needs.

Comprehensive Solution

Includes rugged tablet, SeaCross Navigation software, GNSS/non-GNSS sensors, and all interfaces for seamless integration.

Result

DELIVERY OF PROJECT – LIVE DEMO, JANUARY 2025

Helgrind exceeded performance benchmarks in both lab and field conditions. The solution was delivered on time, on performance and expectations, successfully deployed.

See us at the dock

