

WHO

SYSCOM: MCSC

Sponsoring Program: MARCOR

Transition Target: MARCOR

TPOC: sbir.admin@usmc.mil

Other Transition Opportunities: The Army, Navy, SOCOM, and Allies have expressed interest. Military Sealift Command, and Riverine operations are also transition targets.

Notes:

This technology will be a 21st-century Higgins Boat, which were made famous in WWII. The primary roadmap in question is called The Standoff Defeat of Explosive Hazards. It will be multi-mission capable. It is a littoral "pickup" truck.

Mission Profiles/Cargo

- Pre-combat operations, Planned combat operations, and Opportunistic combat
- Personnel, Ground vehicles
- Water and water purification
- Fuel, Lethal packages
- Medical aid, Evacuation
- Power Generation

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Triton image

WHAT

Operational Need and Improvement: The littoral operational zone is changing and the need for a small fast, expendable long-range vessels, able to carry significant payloads and autonomous systems, is becoming clear. Our technology fills this role with an optionally manned, high-speed, and shallow draft landing craft that is strategically expendable and cheap to build. The vessel is extremely sea-worthy for autonomous operation in the surf zone and able to accommodate a wide range of payloads from cargo to weapons systems. Triton Systems specializes in solving DOD needs with innovative solutions, taking products from ideas to deployable technology. Our goal is to bring the craft into active service as a marine ship-to-shore connector and then explore additional uses across DOD marine logistics needs and littoral zone roles.

Specifications Required:

Joint missions in a contested environment, Forward force maneuver and posture resilience, Resilient and agile logistics, Support Expeditionary Advanced Basing Operations, Support Littoral Operations in a Contested Environment, Support Naval Integration, Support Mine Countermeasure Forces, Provide Amphibious Capability, Lethal Long-Range Unmanned Systems, Affordable Cost; quantity is a quality all its own

Technology Developed:

LOA [40 ft.], Beam [11.6 ft.], Top Speed [25 kts.], Range @ 16-18kts Cruise [200 mn.], Payload Capacity [11,000+ lbs.]

Design Characteristics - Autonomous compatible, Shallow draft & High backing thrust, High payload capacity in a small footprint, High angle stability, High freeboard

Warfighter Value: SHARC is a littoral surface connector capable of delivering critical mission packages opportunistically to unprotected beachheads. Small, fast, and affordable in large numbers. SHARC will operate between large surface vessels and the beachhead.

WHEN

Contract Number: M67854-23-C-6501

Ending on: Nov 27, 2023

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Hull Fabrication	Low	Hull Integrity	5	2nd QTR FY24
Propulsion Acquisition	Low	Delivery	5	2nd QTR FY25
Propulsion Integration	Low	Instillation & Integration	6	3rd QTR FY25
Factory Acceptance Testing	Medium	Acceptance	6	4th QTR FY25

HOW

Projected Business Model:

The SHARC finalized design will be licensed to 1 or more build yards for fleet-level production

Company Objectives:

Develop a successful demonstrator vessel ready for fleet use in combination with well deck equipped amphibia's assault ships.

Potential Commercial Applications:

- Ship to Shore & Shore to Shore Transportation & logistics support
- Pre-assault Amphibia's operational tasks
- Support mine countermeasure forces
- Autonomous systems deployment, retrieval, & charging