



SEA-SPYDER

Hydroski Multi-Mission Platform

ATTACK



VTOL LAUNCH / RECOVERY



SWARM BLOCKADE / LANDING



SEA-SPYDER NOW / TRL6



CONTESTED ENTRY LOGISTICS

Extreme speed, efficiency, maneuverability in sea state

Technology Description / Product:

- HM²P is a scalable maritime transportation concept with advanced hydro-ski technology resulting in excellent speed, efficiency, maneuverability & sea-state operability. The concept is a solution to the elusive problem of high-water speed during elevated sea states.
- Starting TRL: 6 Ending TRL: 7 to 8

Experiment Design:

The HM²P concept is a versatile, high-performance maritime platform with operability through sea-state 3. The speed and efficiency of the platform will benefit numerous applications with reduced time to target, fuel savings, expanded zone of influence and mission duration.

Key Partners / Participants:

- Project Lead Org: OUSD
- CCMD Sponsor(s): Ken Brunner (Directed by INDOPACOM J8)
- Primary Service Sponsor(s): Navy
- Other Stakeholders: USNS, USMC

Identify which requirement(s) it supports: Aquilino imperatives, Contested entry, persistent surveillance, swarm and blockade

Transition Strategy / Milestones:

- Complete prototype test craft: 90 days
- Plan for RIMPAC Participation: 180 days
- Prototype deliveries + final report to USINDOPACOM J8 - 18mos

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Funding (Two-year FY24 RDT&E funding for duration of project (12-24mos))

Cost Share-Cash (\$K)	12mos	24mos	Total
Funding Request from RDER	\$1000k	\$1500k	\$2500k
Co-Funding Partner if applicable	XX	XX	XX
TOTAL	\$1000k	\$1500k	\$2500k

Key Deliverables:

- Develop, build, test internally (1) small and (1) medium HM²P watercraft for instrumentation, testing and refinement of designs. Then build and deliver five (5) units of each of the small + medium watercraft for test, data collection, analysis and demonstration in a TRL 7 "operational environment."

Project Risks & Opportunities:

- Risks: New Technology Acceptance, Funding
- Opportunities: Low cost, multi-mission flexibility, energy efficient, maneuver/swarm