



# SEA-SPYDER

## Hydroski Multi-Mission Platform



**Extreme speed, efficiency, maneuverability in sea state**

## **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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## **Technology Description / Product:**

- HM<sup>2</sup>P 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 HM<sup>2</sup>P 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.

**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
<b>TOTAL</b>	<b>\$1000k</b>	<b>\$1500k</b>	<b>\$2500k</b>

## **Key Deliverables:**

- Develop, build, test internally (1) small and (1) medium HM<sup>2</sup>P 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