

Department of the Navy SBIR/STTR Transition Program

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Topic # N182-122

Fleet Material Locator Information System (FMLIS)

Premier Solutions Hi, LLC

WHO

SYSCOM: NAVSUP

Sponsoring Program: COMPACFLT N41

Transition Target: COMPACFLT and NOSS

TPOC:
808-474-5843

Other transition opportunities:
JITMEDLOG (Just-In-Time Medical Logistics)

Notes: Operational commanders need a clear view of material flows to support the warfighter. Today they rely on logistics analysts to sift through multiple Navy/DoD databases and construct reports on materiel flows and make provide best estimates on arrival times. MOTIV (material orders, transit, and inventory visualization) provides a one-stop logistics situational awareness view that uses AI/ML predictive analysis along with dashboards, alerts, and drill-down capabilities to quickly and efficiently answer questions like "will the shipment reach the carrier before it departs", "where can I get this crucial part", and "why are shipments being delayed".



<https://www.navy.mil/Resources/Photo-Gallery/igphoto/2002742563/>

WHAT

Operational Need and Improvement: PROBLEM STATEMENT:

"Where's that part?"

Navy logistics analysts do not have access to a database that combines both afloat inventory and in-transit visibility.

Problem is particularly acute for Class IX (parts) in INDOPAC AOR.

Need for all relevant data collected in one place, organized to support the visualization of materiel in transit and in inventory on hand on afloat platforms

Allow afloat ordering activities to see where in-transit materiel is located

Ingest and analyze data from authoritative data sources: FIMARS, One Touch, IGC, Inform-21, and Combat Logistics Force (CLF) Load Management System (CLMS)

Display data in view that support operational needs (e.g. INDOPACOM LOGCOP)

Specifications Required: VISUAL ANALYTICS: See data in visual format (maps, timelines, graphs)

PREDICTIVE ANALYTICS: See when materiel is anticipated to arrive

PRESCRIPTIVE ANALYTICS: See potential impacts of plan changes

TRANSITION TARGETS: COMPACFLT, INDOPACOM LOGCOP; NSS-Supply; Naval Operational Business Supply System, NAVSUP IOCs

ADDITIONAL REQUIREMENTS: Java based logistics information management solution

utilizes artificial intelligence component

data driven and autonomous

data displaying inventory and in-transit visibility in a geospatial environment (i.e., Google Earth).

Technology Developed: MOTIV: AI Driven Tools for Logistics Operators

TOTAL VISIBILITY INTO NAVY PARTS INVENTORY – SHOW PARTS IN WAREHOUSES, IN TRANSIT, AND IN AFLOAT INVENTORY

SUPPORTS URGENT OPERATIONAL NEED FOR BETTER PARTS VISIBILITY – TOPIC SPONSORED BY COMMANDER PACIFIC FLEET FOR OPERATIONAL SUPPORT IN INDOPACOM AOR

WHEN

Contract Number: N68335-20-C-0281 **Ending on:** June 30, 2022

Milestone	Risk Level	Measure of Success	Ending TRL	Date
Requirements Analysis	Low	CONOPS OV-1	2	November 2017
Data Analysis	Low	Data Structure & Flow Document	3	September 2018
Data Cleansing	Low	Demo dataset	4	December 2019
Demonstration Milestone	High	Go No/Go	5	June 2021
NRDE Setup	Med	Go No/Go	5-6	July 2022
Demonstration to PACOM	Med	Transition to O&M funding	6-7	TBD

HOW

Projected Business Model: Premier Solutions HI LLC

Business Model: Building a portfolio of SBIR and other logistics information technology properties to enable sustained engagements with Navy & other DoD customers

Hawaii-based, woman-owned small business

Prime contractor of FACET logistics system

Cleared facilities & staff; DCAA approved cost accounting

Outstanding Navy past performance

Successful Navy SBIR Phase III awardee

R&D focus on 5G, IOT, AI-driven logistics tech

Locations in Norfolk, Honolulu, Yokosuka

Supporting US Navy Warfighters worldwide

"Innovation with Aloha!"

Company Objectives: In addition to targeting transition programs, PSHI intends to utilize the MOTIV technology developed through this SBIR in our own FACET and CLIPBOARD products, which are already used Fleet-wide

Potential Commercial Applications: Commercial markets exist in all industries requiring transportation of high-value items

Special market niche in assisting parts suppliers to DoD

PSHI has existing commercial partners (e.g. One Network, Honeywell, Zebra) that will help provide an expanded aperture into the broader commercial space

PSHI has performed a commercial market/customer analysis with funding and support by the Hawaii Technology Development Corporation (HTDC)

Contact: Stephen Brennan, BD Director
steveb@premiersolutionshi.com 808-341-4702