



## **MARINE CORPS SYSTEMS COMMAND**

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PM GWS

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# **PROGRAM MANAGER GROUND WEAPONS SYSTEMS PROGRAM OVERVIEW**



# PM GWS PORTFOLIO OVERVIEW





# PM GWS: AREAS WHERE INDUSTRY CAN HELP

- ▶ Identifying emerging commercial technologies (COTS/COTS NDI) that will assist our portfolio in addressing capability gaps.
- ▶ Identity opportunities to improve contracting and production timelines in delivering critical capabilities.
- ▶ Manned-Unmanned Teaming technologies for vehicles & boats
  - High bandwidth, low probability of detection/interception, beyond line-of-sight, comms for small units dispersed across or moving through undulating terrain
  - Long range, high bandwidth, LPI/LPD, BLOS comms for maritime platforms to shore
  - Ground and maritime hazard detection and identification for autonomous navigation
  - Remote health monitoring of autonomous systems
- ▶ Missiles:
  - Missile subcomponents that will increase range such as improved engines, fuels, and data links
  - Coatings or coverings for missile cannisters that can provide camouflage and concealment but can also be removed
  - Improved designs for missile handling equipment for the NSM to allow for safe and rapid reloads



# PM GWS: AREAS WHERE INDUSTRY CAN HELP (CONT'D)

## ▶ Sensors

- ▶ Networked & wireless sensors and targeting devices that include computer-controlled signal processing of the radar signal data to perform target detection, verification, tracking, and classification
- ▶ Controlled sensor emissions through cueing, sensor data fusion
- ▶ Lightweight multi-spectral imagers and rangefinders
- ▶ Compact, marinized, electro-optical and radar sensors
- ▶ Payload elevation concepts to increase horizon distance for maritime platforms

## ▶ Loitering Munitions and fires capabilities to include:

- ▶ High-capacity Lithium batteries and shipboard electric propulsion munition storage methods
- ▶ Alternatives to electric propulsion for loitering munitions
- ▶ Improved autonomous or semi-autonomous target recognition and tracking
- ▶ Modular payloads/warheads

## ▶ Outboard engines for small boats; different fuel types, submersion capability with expedited re-start

## ▶ Improved small arms capabilities

- ▶ Thermal mitigation for extended duration of fire and reduced signature
- ▶ Reduced operator exposure to weapon combustion gasses (esp. with suppressors)



# PM GWS OPPORTUNITIES

Title	Planned RFP
Squad Aiming Laser (SAL) RFP	4Q FY24
Long Range Fires (LRF) RFP	2Q FY25
Long Range Fires (LRF) / High Mobility Artillery Rocket System (HIMARS) Program Office Support RFP	2Q FY25
Long Range Unmanned Surface Vessel (LRUSV) RFI	4Q FY25

# EQUIPPING OUR



# MARINES