



# Marine Corps Warfighting Laboratory

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25 October 2017

22d Expeditionary Warfare Conference

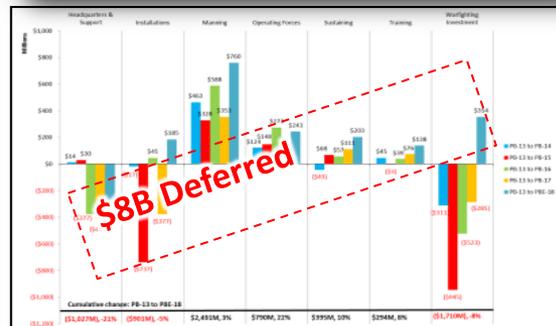
The overall classification level of this brief is: **UNCLASSIFIED**

***We drive the future of the Marine Corps***



# Strategic Transition Point

*We are turning the corner from over a decade of wars in Iraq and Afghanistan to resetting readiness and modernization balance and focusing on the threats and opportunities that will define the future....*



**....while our adversaries have been adapting and modernizing for the future operating environment**



# Marine Corps Force 2025

The Marine Corps is not organized, trained and equipped for the future operating environment.

## Naval Expeditionary



**Agile**

**Lethal**

Illustration provided by MCCDC PAO

➤ Marine Corps Force 25 is a ten-year effort to ensure the force is postured to address future threats and exploit opportunities

➤ Sea Dragon 25 will inform MCF25 Decision Points through a phased approach to wargaming and experimentation.

**Integrate Naval Force to Fight At and From the Sea**

**Evolve the MAGTF**

**Operate With Resilience in a Contested-Network**

**Enhance Our Ability to Maneuver**

**Exploit the Competence of the Individual Marine**



# SEA DRAGON PHASE I EXPERIMENTATION



- **Infantry Battalion established as an experimental force**
  - Organized, manned, trained and equipped according to MCF2025
  - 18 month experimental campaign culminating in operational deployment in support of a COCOM
  - Challenged by an adaptive threat force, replicating future threat capabilities in a free-play environment
  - Feedback loops to rapidly incorporate changes





# SEA DRAGON PHASE I LIVE FORCE EXPERIMENTATION



- **Maneuver**
  - Squad Organization as the base of the GCE
  - Manned – Unmanned Teaming
  - Mobility – as compared to threat
  - Lighten the Load
    - Protection vs. Mobility
    - Displacing the burden
- **Fires**
  - UxS (sensor-shooter)
  - Infantry Service Rifle (Next)
  - Loiter Munitions
- **Logistics**
  - Foraging / Harvesting to reduce demand
  - Energy production
  - Increasing the “Golden Hour”
- **Command and Control**
  - Denied Environment
  - Signature Reduction
  - Signature Masking
  - Resiliency / Federation
  - Deception
- **Force Protection**
  - Counter UxS
  - Deception / Dispersion
- **Intelligence**
  - UxS
  - Rapid PED (production, exploitation and dissemination)
- **Information Warfare**
  - EW decentralization
  - IO decentralization



# OBSERVED TRENDS

- **The individual Marine – Innovation from the bottom up**
  - As proliferation accelerates, human moral, cognitive and physical abilities provide the main advantage over a materially equivalent adversary
  - Approaching the problem from “the bottom up” offers unique insights not observed, or in direct contrast to a “top down” approach to innovation
- The Future MAGTF increases tempo, adaptability and resiliency with a focus on decentralization to the lowest levels. This has significant DOTMLPF implications for raising the future force
  - Augmented Reality
  - Artificial Intelligence
  - Manned / Unmanned Teaming
  - Offset Loading of functions
  - Scrutinizing Mobility
  - Foraging
  - Federating C2
  - Modular and Scalable





# SEA DRAGON PHASE II

- **Focused on a concept for Hybrid Logistics**
- **Hypotheses:**
  - ULS-A systems result in tailored resupply to a distributed force, and simultaneously mitigates risk to ground-based resupply.
  - AM capabilities reduce repair and maintenance response times, and reduces the quantity and volume of spare parts required to be carried forward by the MAGTF LCE.
  - Smart logistics systems enable greater situational awareness, predict demand requirements to deliver more responsive tailored support to the landing forces
  - The ability of the MAGTF to conduct Hybrid logistics will require structural changes to the MLG.
  - The organic ability of the MAGTF LCE to provide integral force protection when operating in unsecured areas will require additional structure changes
- **Major Events:**
  - Integrated Training Exercise 3 (ITX-3), MCAGCC May 2018
  - TRIDENT JUNCTURE – 18, Trondheim Norway, Oct – Nov 2018

