The overall classification level of this brief is: UNCLASSIFIED

Marine Corps Warfighting Laboratory

25 October 2017
22d Expeditionary Warfare Conference

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

- 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.

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**Naval Expeditionary**

- 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
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
• 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
Experimentation Way Ahead

CMC Task 19: Sea Dragon 2025 Phase II – FY18-20

FY18  FY19  FY20

EXLOG: MAGTF LCE
IW: MAGTF CE
EABO: MAGTF ACE

“5th Generation” GCE — Urban Operations
21st Century Fires
Adaptive Threat Force

Photo sourced from MCWL