

# Marine Corps Ground Combat Tactical Vehicle Strategy



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### How we think about Tactical Mobility



MCO/ MEF

IRREGULAR/ GWOT/ CONPLAN 7500

#### Forcible Entry Capability

... support a MEF ( two MEB assault echelon) forcible entry operation.



#### MCO Surge

Conduct and win conventional campaigns -- (1) Deter inter-state coercion or aggression through forward deployed rotational forces; (2) If directed, conduct and win up to two nearly-simultaneous large-scale conventional campaigns (or one conventional campaign if already engaged in a large-scale, long duration irregular warfare campaign).



# Irregular Warfare & Rotational Demand

Prevail in the War on Terror/Conduct Irregular Warfare -- if directed, conduct a large-scale, long duration irregular warfare campaign, to include counter insurgency, security, stability, transition and reconstruction.



**Total Tactical Mobility Demand** 

**No Single Solution** 



### **OSD Ground Combat Tactical Mobility Guidance**

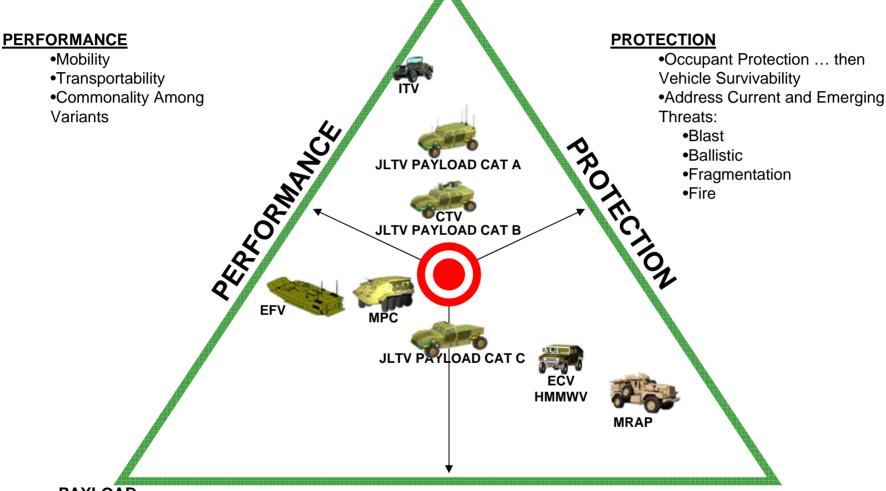
- Task from Strategic Planning Guidance:
  - P. 10: "(U) The Marine Corps will consider capability alternatives for review by the DAWG to support a <u>single</u> two MEB forcible entry operation. Additionally, the Marine Corps will propose an <u>appropriate mix of ground combat vehicles</u> to support irregular warfare operations.

Overarching Defense Strategy: "Shift from conventional to irregular capability."



## **Vehicle Development Considerations**

#### The Iron Triangle



**PAYLOAD** 

•Optimized for Concept of

Employment and Mission Equipment
Packages

**PAYLOAD** 



### **Strategic Transformation & Implementation**

- Where we were: A general purpose force organized, trained and equipped principally for traditional threats.
  - Approached irregular challenges as a subset of MCO.
  - Recent experience has highlighted the need for resources focused on irregular warfare.
  - QDR and SPG have directed a shift to irregular.
- Where we are going: A multi-purpose force organized, trained and equipped for irregular and traditional threats.
  - Risk: Accept risk in strategic agility, while enhancing tactical capability.
  - Divestment: Divested resources from EFV program.
  - Reinvestment: Reinvested in mobility for an expeditionary multi-purpose force.



# **Ground Combat Tactical Mobility Strategy Objectives**

To develop a portfolio of mobility capabilities that provides a distribution of assets and **performance**, **protection**, **payload** and **transportability** characteristics that:

- 1) Support rapid transition between concentration and dispersion of MAGTF combat power (<u>tactical flexibility</u> to balance traditional and irregular threats).
- 2) Support strategic deployment in the context of the Naval Operating Concept (<u>strategic agility</u> to preserve global freedom of action).
- 3) Provide capacity to <u>meet and sustain</u> worldwide Marine Corps commitments (sustainability for forward presence, security cooperation, preemption and global response).

**Endstate:** Provide Marine Corps forces with balanced ground combat tactical lift capabilities.

#### Portfolio: System of systems, family of systems, complementary capabilities



Ny Ny









**EFV** 

MPC

JLTV

HMMWV / ECV

MRAP

ITV



# **Ground Vehicle Capability**

- ✓ MEF (2xMEB assault echelon) forcible entry capability
  - EFV 1013  $\rightarrow$  573
- ✓ Appropriate mix of ground combat vehicles
  - ✓ Marine Personnel Carrier (MPC) ~600
  - ✓ Internally Transportable Vehicle (ITV) 699 (enhanced mobility of vertical assault force)
  - ✓ Light/Medium vehicle mix
    - Mine Resistant Ambush Protected (MRAP)
    - Joint Light Tactical Vehicle (JLTV)
    - HMMWV / Expanded Capacity Vehicle series (ECV)
    - Levels of protection inherent in each



# **Internally Transportable Vehicle (ITV)**



- The ITV will provide a deployed MAGTF with a ground vehicle that is internally transportable in the MV-22 tilt-rotor aircraft, CH-53, and MH-47 aircraft.
- The vehicle will serve primarily as a high mobility weapons-capable platform to support a variety of operations and provide enhanced mobility for the otherwise foot-mobile vertical assault element.

• Acquisition Objective = 699

• IOC: 2009 • FOC: 2015



# **Expanded Capacity Vehicle**

#### **Expanded Capacity Vehicle (ECV)**







M1151

M1152

M1165

 Interim replacement for the HMMWVA2 as multipurpose utility vehicle.

• Acquisition Objective = Dependent on JLTV schedule



# Joint Light Tactical Vehicle (JLTV)



Acquisition Objective = 5,500 (Increment 1)

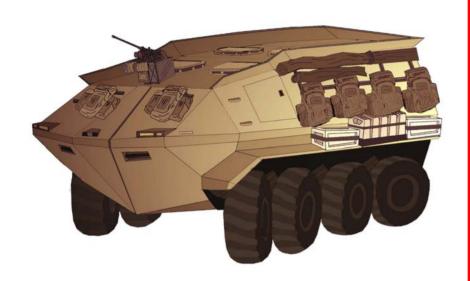
• IOC: 2012

FOC: 2018 (Estimated)

- •HMMWV replacement vehicle (over time).
- •JLTV Family of Vehicles with multiple Mission Role Variants (MRV) and trailers (Combat, Combat Support, Combat Service Support).
- Supports USMC Ground Mobility Initiative to retain expeditionary nature and multi-purpose capability.
- Increased survivability, mobility, and sustainablity in a networked environment.



# **Marine Personnel Carrier (MPC)**



Acquisition Objective = ~600

•IOC: 2015

•FOC: 2019 (Estimated)

- •Provides infantry battalions with general support (ground) mobility across range of military operations.
- •Complements EFV by closing operational gaps in our ability to conduct protected maneuver.
- •Expeditionary platform that balances the protection, payload, and performance attributes to enable maneuver and to enhance personnel survivability.
- Supports USMC Ground Mobility Initiative to retain expeditionary nature and multi-purpose capability.
- Analysis of Alternatives considered a broad range of light and medium armored vehicle solutions and several concepts of employment.



### Mine Resistant Ambush Protected Vehicle (MRAP)



**CAT 3: Buffalo (route Clearance)** 



CAT 1: 6 seats



CAT 2: 10 seats

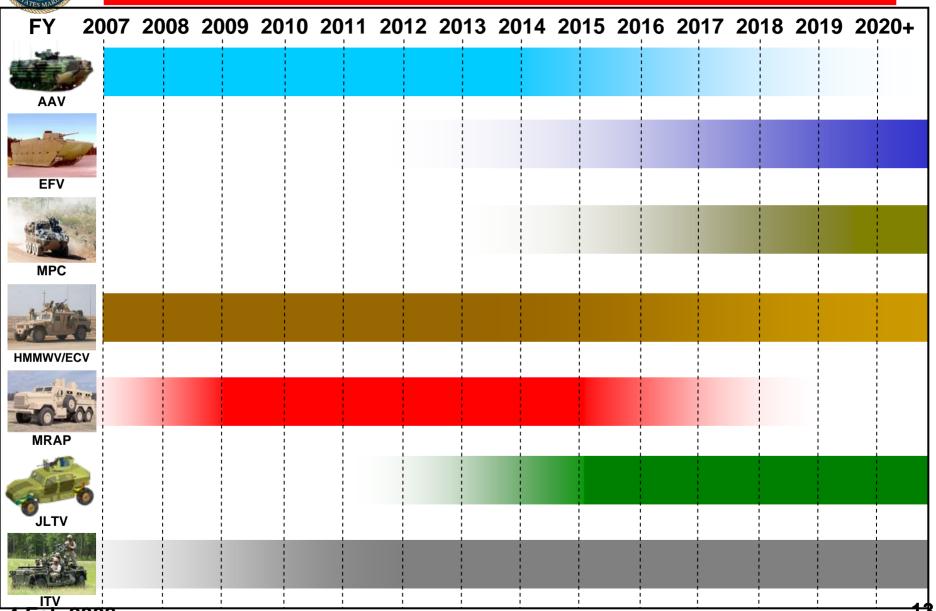
USMC Acquisition Objective = 2,225

• IOC/FOC: 2008

- CENTCOM theater requirement.
- Significant increase in force protection over the current tactical wheeled vehicle fleet.
- Expeditious answer to a force protection problem but carries with it a host of non-expeditionary characteristics and limitations
- Limited long-term USMC requirement (<500 vehicles) for Engineer/EOD Route Reconnaissance and Clearance.
- Capabilities and limitations of MRAP vehicle underscore the need for a JLTV capability in the TWV fleet.
- The Marine Corps currently has 819 MRAPS fielded in IRAQ



# **Ground Combat Tactical Mobility Portfolio**



**UNCLASSIFIED** 



# **Questions**