



# 2010 ONR Naval S&T Partnership Conference

Next Generation Technologies for Today's Warfighter

**Introduction to Expeditionary  
& Irregular Warfare**

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**Strategic Vision Group, HQMC**



*Revolutionary Research . . . Relevant Results*

O F F I C E O F N A V A L R E S E A R C H



*“I’ve had a strange sense that two parallel worlds exist on this planet - a stable, progressively growing, developing world and an unstable, disintegrating, chaotic world. The two worlds - the stable and the unstable - are colliding.”*  
-General Anthony Zinni, USMC

# Trends – *The future establishes the requirement....*



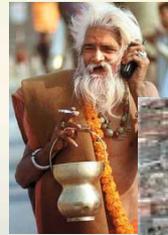
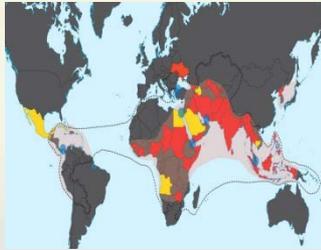
Demographic Dichotomy



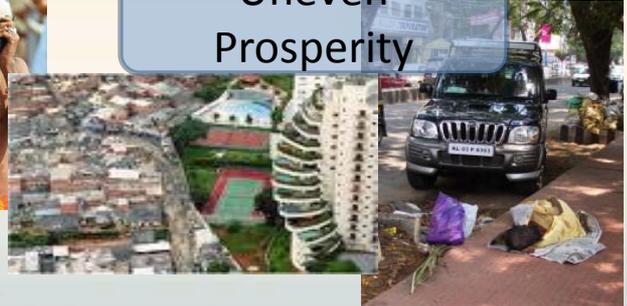
Urban Density and Sprawl



Growing Resource Scarcity



Uneven Prosperity



Economic/Global Power Shift Toward Asia



Struggle for Sovereign Legitimacy



Character and Conduct of Warfare Continue to Blur



# Hybrid threats, the blurring character of conflict, and complex environments lead to...



- Networked Terrorists, Criminals, & Insurgents
- Emerging Global Powers
- Increasing Interdependence
- “Haves” vs “Have Nots”
- Anti-West attitudes
- Identity/ Faith-based movements

- Terrorism/Crime
- Significant Drug Regions
- Ungoverned Spaces
- Nuclear Armed States
- Anti-access Weapons



*Access challenges...  
Largely in the Littorals*

- Urbanization
- Famine and Disease
- Increased Resource Competition
- Climate Change
- High Earthquake Risk Areas

*“militias, insurgent groups, other nonstate actors, and developing world militaries are increasingly acquiring more technology, lethality, and sophistication... Sec Gates*

# Expeditionary Force in Readiness

US Marine Corps Strategic Concept

## Core Missions

Crisis Response

Assuring Littoral Access



# ...Examples From the Sea Since 2001

Engage Forward

Develop Access



12 Battalions to CENTCOM



10 countries, 1500 trained



11 Nations Multinational Ex



Respond to Crisis

Create Access



>2500 AMCITS Evacuated



~14,000 AMCITS Evacuated

24 MEU



International Response  
422,000 gallons H2O  
2100 Tons Food  
2230 Patients



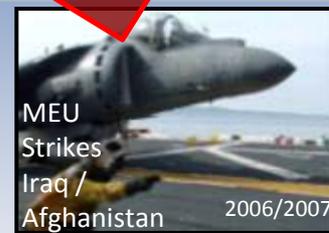
24 MEU



>1200 hosp beds  
3.3 million pounds aid

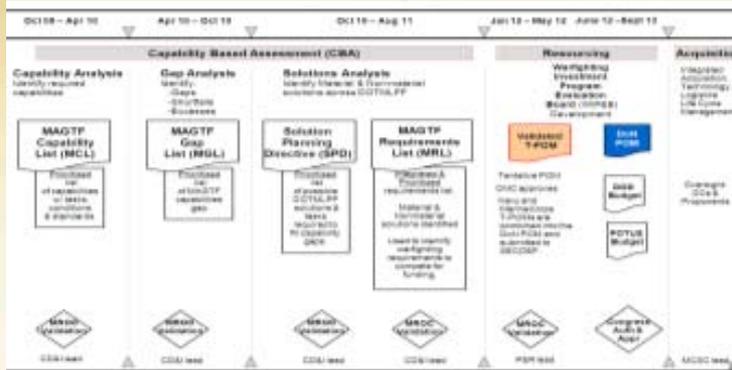
Project Power

Force Access



# Challenges

Process Improvement



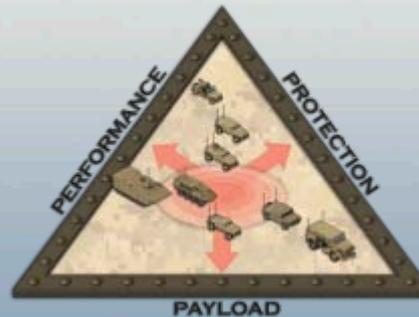
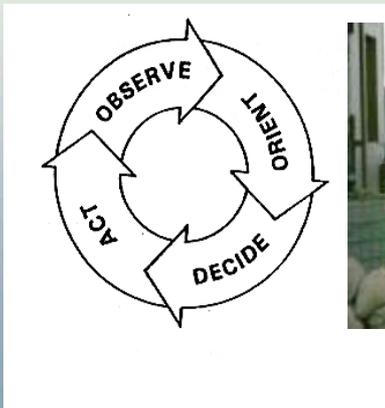
Energy Efficient



Adapting to The Enemy

Lighter but Survivable

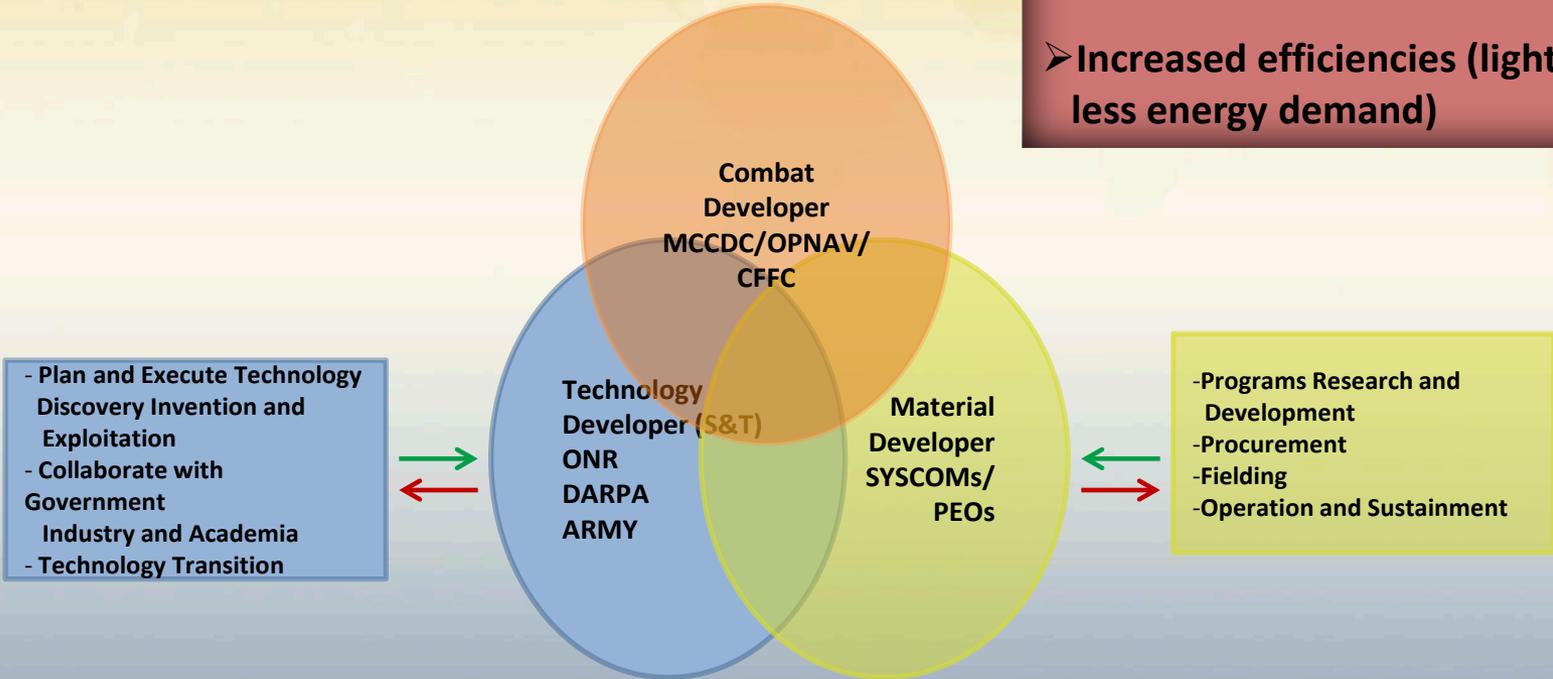
Affordability



*“The Marine Corps has been at the leading edge for over 200 years in adapting and responding to new technologies and new threats.”*

- Develop Warfighting Concepts
- Define Future Capabilities
- Requirements
- S&T Objectives
- Resources

- ### MAGTF Implications
- Decentralized operations
  - Effectiveness in complex terrain
  - Persistent C4ISR in dense complex environments
  - Increased efficiencies (lighter, leaner, less energy demand)



**A** Concept    Capability Futures    Gaps    Requirements

**B**    Capability Futures    Gaps    Requirements    Technology

**C**    Requirements    Technology    R&D Production    Capability