Agenda

• Mission and Vision
• Organization
• Resources
• Programs
• Working Relationships
• Test and Evaluation Process
• Operational Testing Requirements and Objectives
• Budget Impacts on Test and Training
• Questions
Mission & Vision

Mission

MCOTEA provides operational testing and evaluation for the Marine Corps and conducts additional testing and evaluation as required to support the Marine Corps mission to man, train, equip, and sustain a force in readiness.

Vision

• MCOTEA will be the Marine Corps leader in all aspects of realistic operational test and evaluation of material system capabilities throughout a material system’s life cycle. Our highly trained, professional workforce will be a voice for the Operating Force Marine, enabling informed decision-making, and ensuring always that our test reports accurately and objectively describe what we know and don’t know about the Operational Effectiveness and Suitability of the materiel solution we evaluate.

• MCOTEA will be a source for objectivity in the Marine Corps and, where appropriate, DoD’s acquisition process. Our expertise, professionalism, and integrity will make us a sought-after partner within the DoD acquisition community.
Ground Combat Division

- Combat Vehicles Branch
  - FOLAV (LAV-ATM)
  - Tank Upgrades

- Fires Branch
  - FSS/FSA Mortars Upgrade
  - NLWS (OI & MPM)

- Infantry Branch
  - SMAW II STS
Expeditionary Division

Naval Branch
- LHA (R)
- JHSV
- SSC
- MPF (MLP)

Forward Assessment Branch
- GunPACS
- Keyhole/RCOS
- Ex-FOB
- Minehound

Amphibious Vehicle Branch
- AAV SLEP II
- MPC
- ACV
Activity Level Support

Staff Support

S-2
IA/IOP
- DOT&E Initiative
- Acquisition Programs
- IV&V

S-2
Live Fire
- LFT&E
- OT&E
- Live Fire Studies

Additional Staff Support
- Training
- Logistics
- Scientific Studies
RESOURCES

- **Facilities / Equipment**
  - Headquarters: Quantico, VA
    - Test Support Facility at Camp Wilson, 29 Palms, CA
    - Test Support Facility at Del Mar (21 Area), Camp Pendleton, CA.

- **Test Instrumentation**
  - Portable Data Collection Suites
  - Data Instrumentation Vehicle
  - Web-based, data repository

- **Personnel**
  - Mix of active duty Marines and government civilians
    - 28 Active duty Marines
    - 42 Government civilians
Distribution of T&E Efforts by Acquisition Phase

- Technology Development Strategy (TDS)
- Test Evaluation Strategy (TES)
- ID emerging T&E capability requirements
- ID T&E resources
- Develop T&E requirements in RFP
- Reporting
- Systems Evaluation Plan (SEP)
- Test and Evaluation Master Plan (TEMP)
- Execute T&E Program
- CDD requirements for testability and evaluation
- TRL Evaluation
- Reporting
- SEP
- TEMP
- Execute T&E Program
- Support PDR/CDR
- CPD requirements for testability and evaluation
- TRL Evaluation
- CT / DT
- Discovery and correction
- OA
- Reporting
- SEP
- TEMP
- Execute T&E Program
- Characterize system capabilities and limitations
- T&E results to MDA
- AOTR / OTRR
- Support training for IOT&E
- IOT&E / FOT&E
- Reporting
- Follow-on DT and OT
- Verification of corrections for deficiencies
- Develop T&E programs to support upgrades, modifications, increments
- Reporting

4% 12% 38% 40% 6%

Programs Supported:
ACAT 1 thru ACAT IV, AAP’s, UNS, USON, and Forward Operational Support
Currently supporting 125 programs.
Organizational Relationships

ACMC

Fellow OTAs
- ATEC
- COTF
- AFOTEC
- JITC

Oversight and Directives MCOTEA must follow
- DOT&E
- ASN (RDA)

Committee membership/ info exchange
- T&E BOD
- NO9I
- OTICC
- TRMC

Working Partners
- MCSC
- MCCDC
- PEO LS
Test & Evaluation Processes

MCOTEA’s 6-step Operational Test and Evaluation Process

1. System Evaluation Plan
   - Program Initiation
   - SEP Development

2. Test Concept, Test and Evaluation Master Plan Input, and Failure Definition/Scoring Criteria Charter Development

3. Test Planning
   - Operational Test Plan and Logistics

4. Operational Test Execution
   - New Equipment Training
   - Pilot Test
   - Record Test
   - Posttest Activities
   - Test Data Report Development

5. Test Data Report
   - Test Deviations
   - Data (unanalyzed)

6. System Evaluation and Reporting
   - Final evaluation
   - Operational Test Agency Evaluation Report (OER)
   - Operational Assessment Report (OAR)

Continuous Evaluation Occurs during Integrated Testing

MCOTEA’s Intermediate and Operational Assessment Process

1. System Evaluation Plan

2. Test Concept, TEMP Input, and FD/SC Charter Development

3. Test Planning

4. Assessment Event

5. Assessment Event Reporting

6. System Evaluation and Reporting

4 OT Execution

5 OT Execution

Repeat Assessment Process as Required

IOT&E Process
Operational Testing Requirements and Objectives

• Top-level requirements for adequate operational testing:
  – employ a production-representative system in realistic operating conditions with typical Marine operators and maintainers
  – collect data that accurately describes the test conditions and system performance results
  – analyze the data independently and without bias for use in system evaluation

• Top-level requirements for objective system evaluation:
  – collect and evaluate information from a variety of developmental and operational test events
  – determine if thresholds in the approved capabilities documentation and Critical Operational Issues have been satisfied
  – determine the system’s Operational Effectiveness (OE), Operational Suitability (OS), and Operational Survivability (OSur)
  – assess system effects on combat operations
  – provide any additional information on the system’s operational capabilities
Budget Impacts on Test and Training

- Continue coordination with Program Managers (SuT & TRNG) and Training & Education Command (TECOM) in development of test resource assets that supports future training with the new SuT.

- Realistic Targets
  - REMTT – Full Scale 3D Realistic Electro-Magnetic Threat Tarfet
  - TVST- Full Scale 2.5D Threat Vehicle Surrogate Target
  - RLCT- Full Scale 2.5 Realistic Low Cost Target

- Instrumentation
Questions?

Semper Fidelis!
MCOTEA Organization

Marine Corps Operational Test and Evaluation Activity
Col Pasagian

Deputy Director
703-784-3143

Scientific Advisor
703-784-3289

Executive Assistant
703-784-6657

Chief of Staff
703-432-0954

S-1
Human Capital
703-784-0661

S-2
Decision Sciences
703-432-0945

S-3
Operations
703-784-0694

S-4
Logistics / IT
703-784-3286

S-9
T&E Initiatives and Integration
703-784-3143

Chief of Staff
703-432-0954

Lead Contract Integrator
703-432-0963

Chief of Test
703-432-0927

Combat Service Support Division
703-432-0938

Ground Combat Division
703-432-0923

MAGTF C4ISR Division
703-432-1555

Expeditory Division
703-432-0859

Combat Engineer Branch
703-432-0953

Combat Vehicles Branch
703-432-1605

C4ISR Branch
703-432-0929

Amphibious Vehicle Branch
703-432-0926

CBRN Branch
703-432-0965

Fires Branch
703-432-0944

MAGTF C2 Branch
703-432-0934

Naval Branch
703-784-0621

Combat Service Support Branch
703-432-0962

Infantry Branch
703-432-0946

Information Systems Branch
703-432-0937

Forward Assessment Branch
703-432-0968

West Coast Operations
760-830-9083

Fiscal
703-432-0947

Live Fire
703-432-1756

Information Assurance
703-432-0922