Increasing Operational Readiness with Multidomain Modeling, Simulation & Analytics at U.S. European Command

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Overall Classification: **UNCLASSIFIED**

Agenda

- EMTEC Overview
- EMTEC Community
- MS&A Objectives and Achievements
- EUCOM MS&A Ecosystem
- Live-Virtual-Constructive Activities
- Questions

European Multidomain Training & Experimentation Capability (EMTEC) Overview

EMTEC

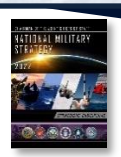
THREAT

- Pacing and near-peer adversaries with advanced technological capabilities
- Highly-contested conflict environment across all domains
- Insufficient interoperability with U.S. service components, allies, and partners

Natl. Security Strategy

NATO Concept for Deterrence & Defense

Natl. Defense Strategy



Natl. Military Strategy

Defense Planning Guidance

CCMD Campaign Plan

CCP Annex C: Operations

Theater Campaign Order

***Strategic guidance documents** published by the DoW, NATO, and USEUCOM guide priorities*

WHAT

EMTEC MISSION:
Advance USEUCOM theater readiness by enabling joint, combined, and partner forces to leverage all-domain training and exercises to increase interoperability, enhance integrated deterrence, and generate capability to conduct OPLAN-informed theater rehearsals

HOW

European Multi-Domain Training & Experimentation Capability

LOEs

- Modeling Simulation & Analytics
- Live, Virtual, Constructive Systems
- Experimentation
- Ranges & Training Areas

Advocacy
EMTEC communicates priorities up and out

Resources
Leadership adjudicates resourcing for efforts

Partnerships
EMTEC aligns existing mission partners

- USEUCOM Funding
- RDT&E Funding
- Joint Staff
- OSW

And more…

EMTEC will **advance <u>theater readiness</u>** for high-intensity conflict and improve joint and combined **<u>decision superiority</u>**

EMTEC Community

EMTEC is Lead Coordinator and Manager for EUCOM **Models & Sims**

EMTEC

M&S Lead

- Portfolio Awareness
- Identify Gaps
- Inform Procurement
- Facilitate Interoperability
- Enable Use

SPACEFOREUR

MARFOREUR

USAFE

USAREUR

NAVEUR

SOCEUR

Other CCMDs

Other JDIRs

JS J7

NATO

Industry

FFRDC/UARC

EMTEC MS&A Objectives

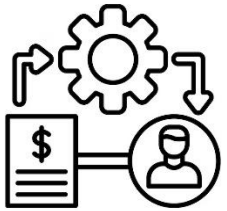
Tools & Technologies

- **Assess and integrate** advanced tools and technologies to ensure theater level Modeling, Simulation & Analytics (MS&A) capabilities are accessible while providing the best achievable results

Theater Integration

- Employ best MS&A results to **answer key readiness questions** for the European Theater
- MS&A **provides quantitative data** to inform Plans, Operations, Intel, Exercises, Assessments, Advanced Tech, and more
- Work MS&A projects **collaboratively** with shared objectives
- Share projects, data, models, results and lessons learned in a **common repository**

Strategy & Organization



- Mature theater-level MS&A capabilities, including **people and processes**
- Theater-level **advocacy** to address common **MS&A gaps** across the European Theater and beyond

EMTEC MS&A Achievements: 2026

Tools & Technologies

- **Deployed MS&A tools** on SECRET and TOP SECRET networks
- **Established repositories** on SECRET and TOP SECRET networks to share data/models with components
- Used **Maven Smart Systems** as a visualization tool for Modeling and Simulation results

Theater Integration

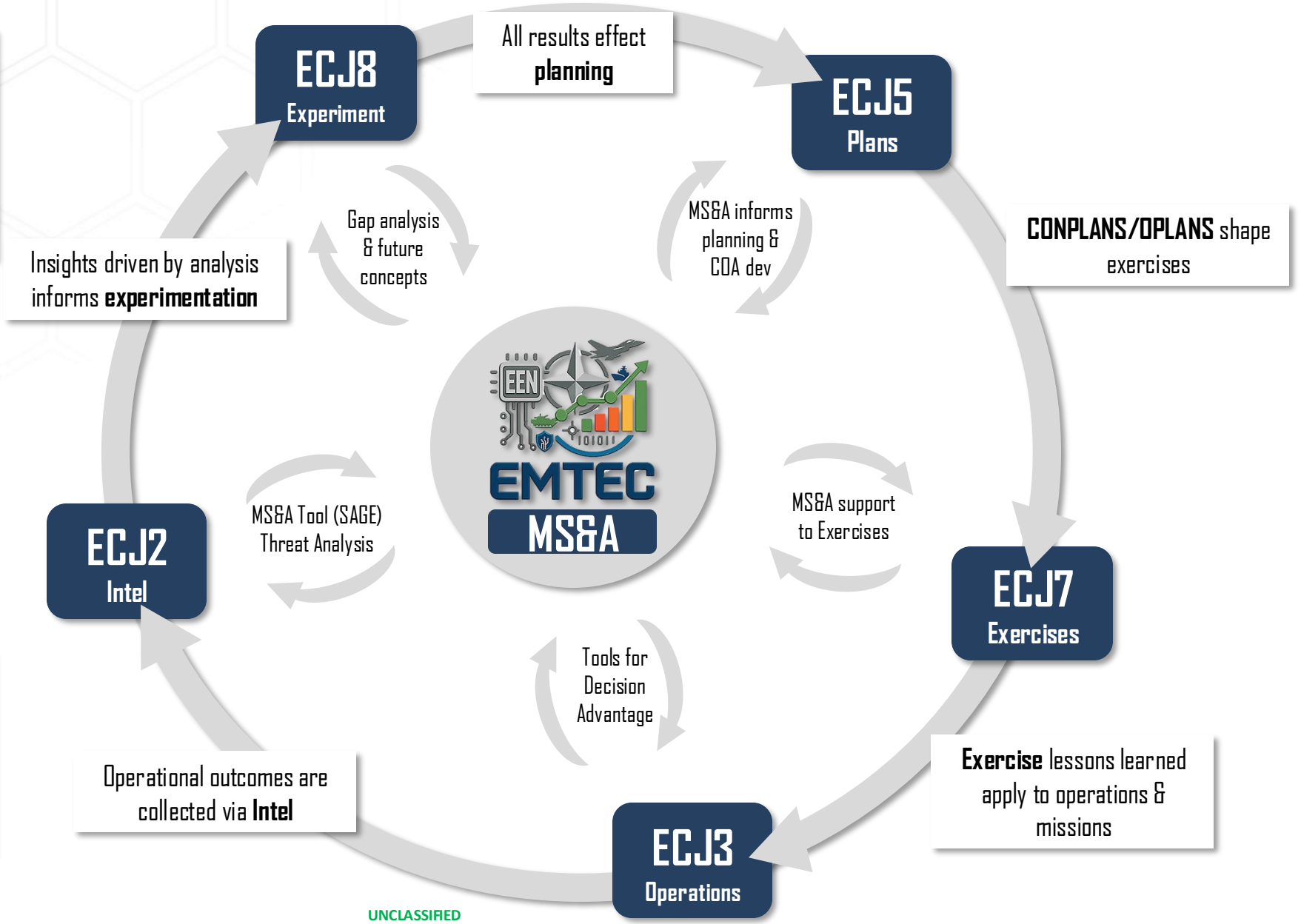
- Led first in-person **theater coordination summit for MS&A** with components and other U.S. stakeholders in July
- Conduct a **monthly Battle Rhythm Event** with components and staff to share progress and processes

Strategy & Organization

- Solidified EUCOM **MS&A processes**
- Secured **funding**, established **in-house** capabilities

EMTEC MS&A Ecosystem

***EMTEC** accelerates this USEUCOM Staff cycle*

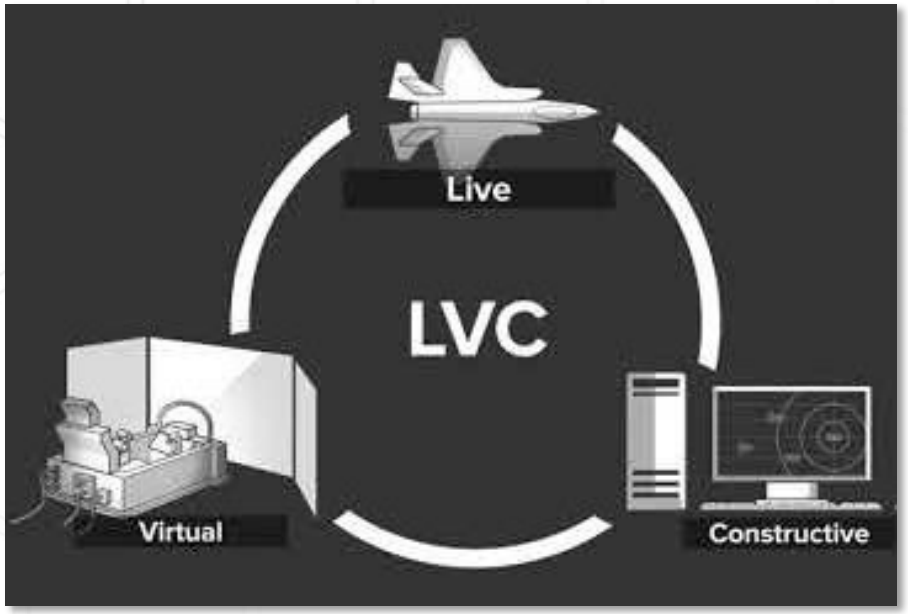


MS&A Identifies:

1. **Gaps** in planning
2. **Opportunities** for realistic training
3. **Shortfalls** in readiness
4. **Changes** in the Ops Environment

EMTEC LVC

Live-Virtual-Constructive (LVC)



- Actively engaged in **NATO Distributed Synthetic Training Working Group**
- Expanding the LVC program to support this ***NATO High Visibility Project***
- Supported USEUCOM Staff with subject matter expertise for **STEADFAST DUEL** planning

Questions for the Audience

1. *What Modeling and Simulation interoperability challenges are most pressing?*

2. *What data sets are most challenging to access?*

3. *What software and hardware gaps inhibit your work?*