



# **NDIA ATC Army Liaison Report**

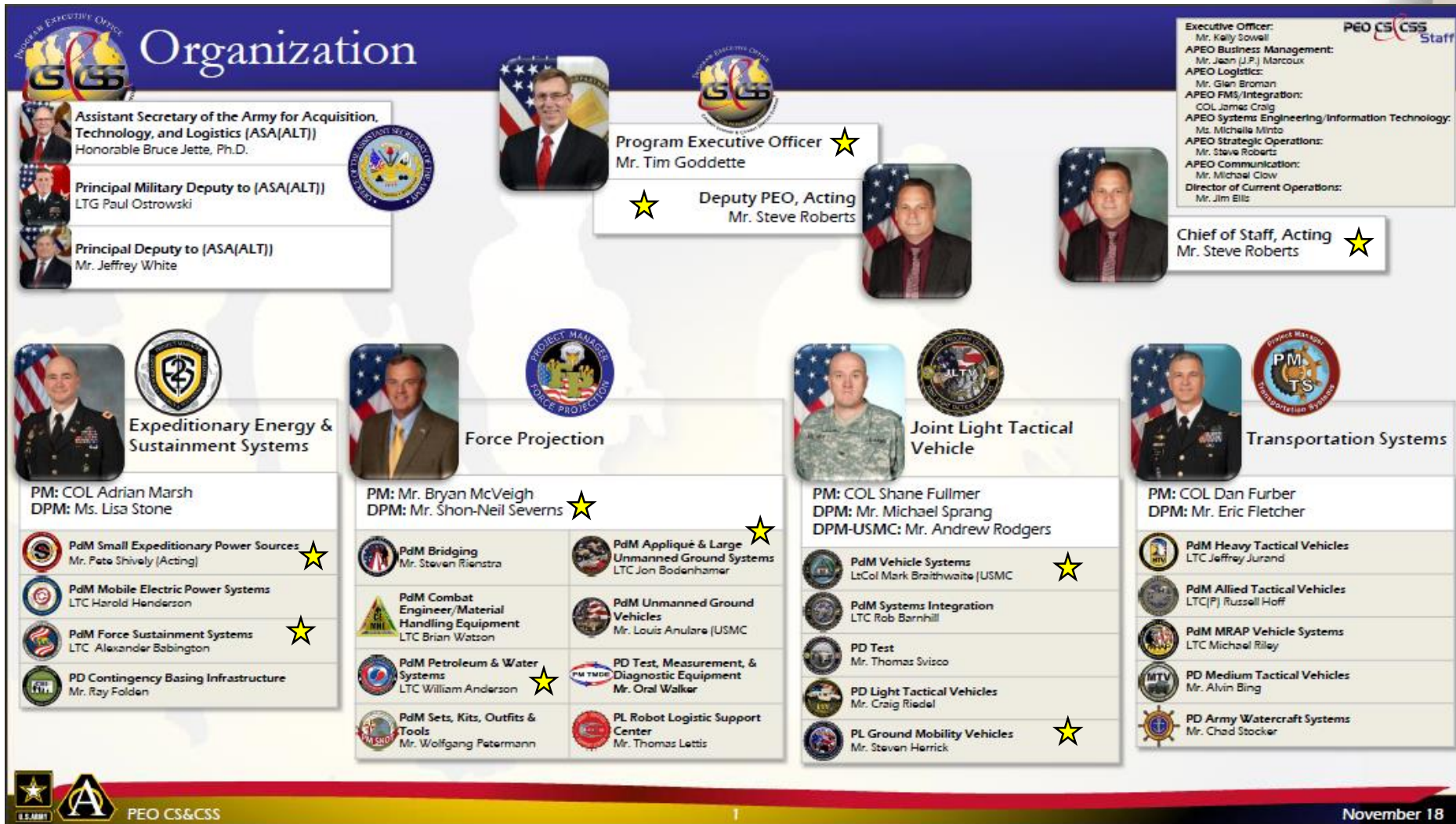
**March 26, 2019**

# Agenda

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- **PEO Combat Support & Combat Service Support (CS&CSS)**
  - **Organization**
- **Test Measurement & Diagnostic Equipment (TMDE) Overview**
  - **Next Generation Automatic Test System (NGATS) Overview**
  - **NGATS**
  - **NGATS Shelters**
  - **NGATS Mission Areas**
  - **TMDE Acquisitions**
- **Picatinny Automatic Test System Division (ATSD)**
  - **Engineering Services**
- **TPS Army Activity**

# PEO Combat Support & Combat Service Support



★ Leadership Change

A number of changes have occurred in CS&CSS Leadership, but none directly affect Test, Measurement & Diagnostic Equipment



# Test Measurement & Diagnostic Equipment Overview



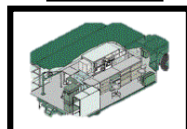
## TMDE Product Teams

- APATS - At-Platform Automated Test Systems
- OPATS/NGATS - Off-Platform Automated Test Systems
- TEMOD - Test Equipment Modernization
- CALSETS - Calibration Sets
- FMS - Foreign Military Sales

A single system for Field, Sustainment, and Depot Maintenance supporting current and future systems IAW DoD, ASA(ALT), and Army Policy

### Replaces Legacy AT

#### DSESTS



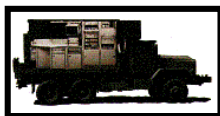
• Abrams/Bradley

#### BSTF



• Ground Missile Systems  
• Kiowa Electronics

#### EOTF



• Kiowa/Apache Electro-Optics

### NGATS (DoD/Army Standard)



Automatic Test Equipment  
(ATE) Shelter



Test Program Set (TPS) Shelter

### Supports Current and New Systems

Abrams



Bradley



Stryker



CROWS



LW155



TPQ-53



CH-47

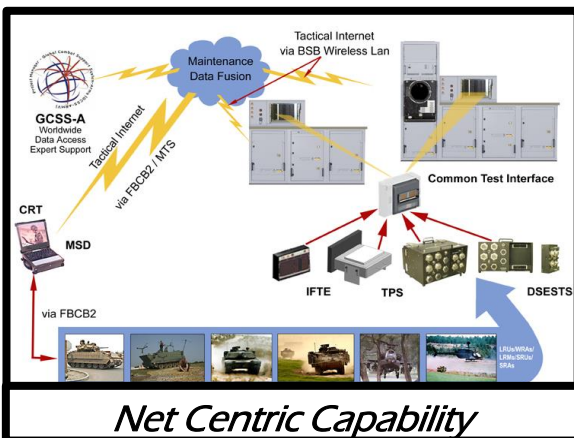


### Reduces Total Logistics Burden

- Enables Information Superiority
- Reduces Obsolescence / NEOFs
- Enables Closed Loop Diagnostics
- Supports CLOE-SALE(LMP/GCSS-A)
- Consolidates ATS
- Consolidates MOS 91G to 94Y

### Increases Operational Benefits

- JCIDS Validated / ATEC Tested
- NET Ready
- Decreased TPS Diagnostic Times
- C130 Transportable
- Reconfigurable
- Open Source Architecture
- Field level, Sustainment level (equipment Synergy w/ Depots)



# **TMDE Programs – Next Generation Automatic Test System (NGATS)**

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- **First Article Test completed Sept 2015**
- **Current production supporting TPS development/rehost**
- **Army Reliability Test completed May 2017**
- **Logistics Demo. completed May 2017**
- **Rail Impact Tests completed Aug 2018**
- **Mobility Test completed Apr 2018**
- **Materiel Release anticipated Mar 2019**
- **Fort Lee training Apr 2019**
- **Initial fielding Apr 2019**





# TMDE Programs – NGATS Shelters

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- **Currently Producing 8 Sets of Shelters (ATS, TPS)**
- **Shelter ATP Completed October 2016**
- **First Shelter Delivered January 2017**
- **First NGATS Shelter Installation Completed February 2017**
- **Rail Impact Tests completed Aug 2018**
- **Mobility Test completed Apr 2018**
- **Production moved to Goldsboro, NC – new First Article**
- **CSC Testing Completed**
- **Materiel Release anticipated Mar 2019**
- **Initial fielding Apr 2019**



# NGATS Mission Areas

M2A3  
M3A3 BFIST



M1A2 SEP



Apache



CH-47



Stryker



M777



Firefinder



CROWS



STRI



M2A2 ODS/SA  
M7 BFIST SA



Gray Eagle



JBC-P  
(MFoCS)



M109A6 (Rehost),  
M109A7 (New TPSs)  
Paladin



NVDs



*NGATS will be Capable of  
Supporting Existing and  
Future  
Army Platforms*

MML



TPQ-53



CREW Duke



M1A1 SA



TPS Engineering Development
Completed
In Process
Planned
In Discussion

Avenger



Hellfire



Shadow



Husky  
HDMS





# TMDE Acquisitions – Misc.

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- **Various General Purpose Electronic Test Equipment Modernization projects (TEMOD) - anticipated Contract Awards**
  - TS-4549/T Radio Test Set (2QFY19)
- **Multiple Calibration Instruments / Calibration Standards Acquisitions:**
  - 5730A Multifunction Calibrator 3QFY19
  - 96040A Low Phase Noise Signal Generator 3QFY19
  - Instrument Controller Replacement 3QFY19
  - AN/GSM-421A(V)2 Mobile Maintenance Shop 4QFY19
- **Maintenance Support Device (MSD) Competition**
  - MSD-V4 (Rugged) – Leonardo DRS Won
  - MSD-V4 (Light) RFP – Leonardo DRS Won

# Picatinny ATSD – Engineering Services

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## ➤ **ATE Engineering Services IDIQ – Large Business IDIQ**

- Continuing to release tasks
- Contract expires Sept 2019,

## ➤ **NetCentric and ATE Engineering Services IDIQ – Small Business 5 yr IDIQ**

- Follow-on contract awarded FY18 (3 vendors)
- Releasing tasks

## ➤ **ARDEC WSEC IDIQ –Small Business 5 yr IDIQ**

- Contract awarded May 2018 (5 vendors)
- Releasing tasks
- Contains ATSD requirements as well other WSEC and ARDEC requirements

# TPS Army Activity

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## ➤ **ATSD Working with West Point to update the Army's ATE/NGATS Study**

- Finished OCONUS trip for data gathering
- Adding phase on NEOFs in Army

## ➤ **Rehosting/developing numerous TPSs for NGATS**

- MFoCS TPS development awarded August 2018 - ARDEC
- Discussion on Blackhawk migration – AMRDEC
- Rehosting of Avenger TPSs – AMRDEC
- Rehosting Hellfire TPSs – AMRDEC
- Discussion with AN TPQ53 Radar – ARDEC/TYAD
- Discussion on MML TPSs – AMRDEC
- Discussion with AN/ASN-128 Radar – TYAD
- Begun New Development of TPSs for M109A7 – ARDEC
  - In-house/contractor
- Discussing TPS requirements with JAB – ARDEC
- Continue TPS development with STRYKER - ARDEC

- Three Army ATE/TPS Centers
  - ARDEC ATSD
  - AMRDEC
  - TYAD

## ➤ **Working on Army CBM+/HMS (NxOMS) efforts**

## ➤ **Continuing to productionize NGATS Electro-Optic Test Subsystem**

## ➤ **Continuing the development and productionization of an NGATS RF Subsystem**



