State of IAMD Symposium

SMDC/ARSTRAT Role In Support Of Army Integrated Air and Missile Defense

SMDC/ARSTRAT 25 June 2015

DISTRIBUTION A. APPROVED FOR PUBLIC RELEASE DISTRIBUTION UNLIMITED

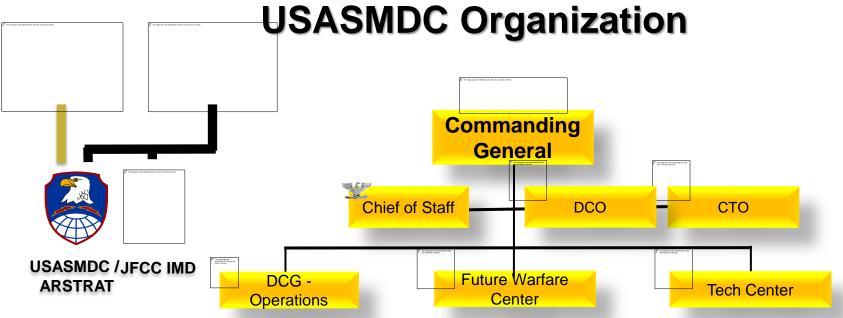
(Administrative Use, 3 March 2015). Other requests shall be referred to: U.S. Army Space and Missile Defense Command / U.S. Army Forces Strategic Command (SMDC / ARSTRAT), ATTN: SMDC-FWS-A, P.O. Box 1500, Huntsville, AL 35807-3801.

2015 Army AMD Vision Statement

Provide the Army and Combatant Commanders with Integrated Air and Missile Defense that leverages joint capabilities to defend critical assets and protect the force against the full range of air and missile threats in support of Joint force operations.

NEW SMDC/ARSTRAT RESPONSIBILITY

- 08 SEP 2014, CSA designated the CG, USASMDC/ARSTRAT as the Army AMD Enterprise Integrator
- No Additional Authorities Assigned
- As Army AMD Enterprise Integrator
 - Coordinating Revisions to the 2012 Air and Missile Defense Strategy
 - Charged with Developing Options for the Army to Consider in Response to AMD Issues



Operations

• Provides trained and ready Space • Builds future Space and Missile

Capability Development

- and Missile Defense forces & capabilities to the Warfighter
- 1st Space Bde, 100th Missile Defense Integration Bde (GMD)
- Executes GMD at Fort Greely

- **Defense Forces**
- Leads Combat Development and
- Conducts Experimentation and **Analysis of Space & Missile Defense**
- Develops and Executes Institutional Training for Space and Missile Defense

Materiel Development

- **Manages Science & Technology Initiatives for Space and Missile** Defense
- **Develops future Space and Missile Defense Technologies**
- **Develops Directed Energy Concepts**
- US Army Kwajalein Atoll / Reagan **Test Site**

Integrator and Synchronizer of Army Air and **Missile Defense Enterprise**

Astronauts A Global Command **Gold: Space Ops Red: Missile Defense Ops** 1st Space Brigade **Purple: Senior Commander** 100th Missile Defense Brigade (Ground-Based Mid-Course 49th Missile Defense E Co/53rd Signal Battalion Defense) Joint Tactical Ground Regional SATCOM Battalion (GMD) (Payload Control) Station (JTAGS) -Support Center Ft Greely AK Future Warfare Center **EUCOM** (RSSC) JTAGS-Japan **Army Space Personnel Development Office** FBM Battery - Japan C Co/53rd Signal Battalion MMC & GEOINT (Payload Control) FBM Battery - Japan HQs USASMDC / FBM Battery - Turkey ARSTRAT 100th MD Bde Det. VAFB, CA A&B Co/53rd Signal Battalion JTAGS-CENTCOM (Payload Control) **Army Space Support Teams** JTAGS-Korea **Army Astronaut Technical Center** Space Support Detachment **Future Warfare Center** Elements TCM- Space & Global Missile D Co/53rd Signal Defense (SGMD) FBM Battery - CENTCOM Battalion (Payload Control) Reagan Test Site (RTS) FBM Battery - Israel Regional SATCOM US Army Kwajalein Atoll Support Center Regional SATCOM (USAKA) Support Center

White: HQs, FWC, Technical Center and Army

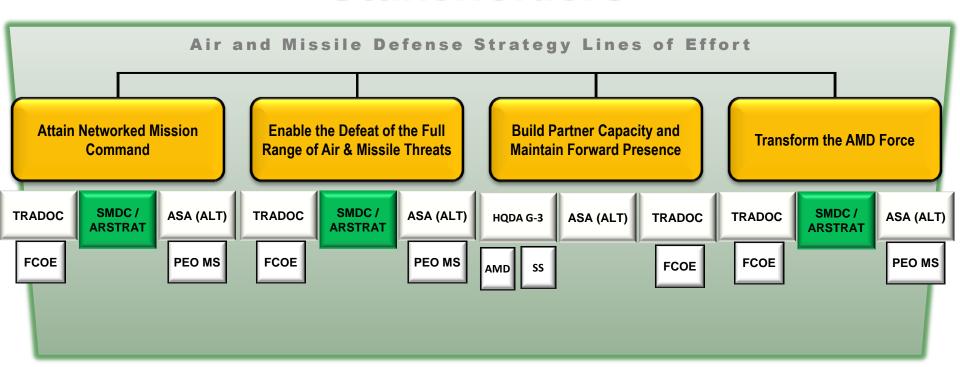
Uniquely Organized, Geographically Well-Positioned

SMDC Video

Threat Trends

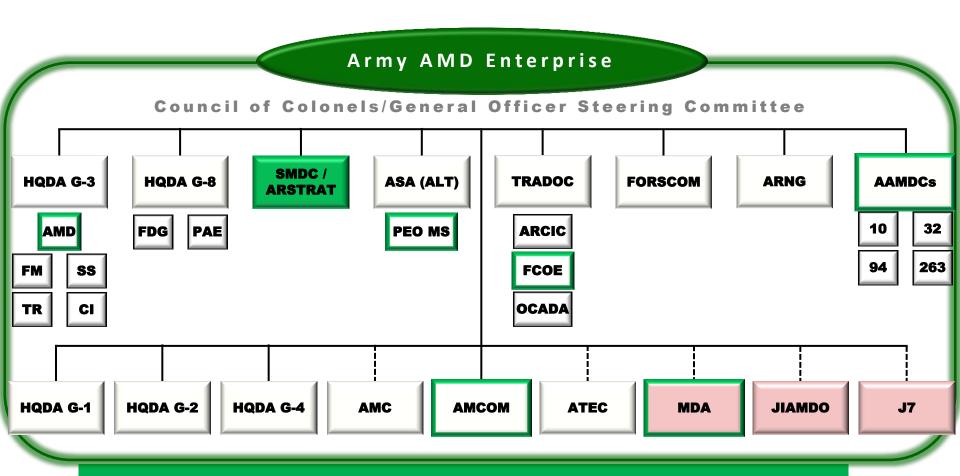
- Proliferation of TBMs
- Growing use of UAVs / CMs
- Successful Hypersonic Weapons
- Cyber Attack of Networks and Systems
- Advancement in ASAT

ARMY AMD Primary Stakeholders



Multiple Roles Position SMDC as Enterprise Integrator

SMDC ROLE in the ARMY AMD Enterprise

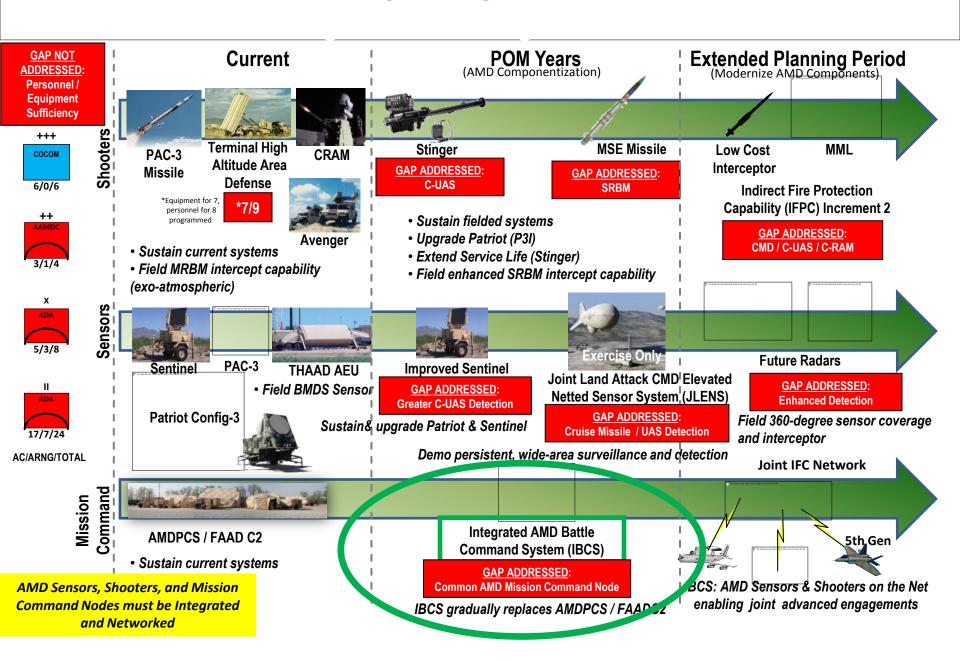


SMDC Hosts Bi-Weekly AMD/BMD Telecon

The Army AMD Modernization Strategy

- Integrate the Force
- Protect the Force
- Build Partner Capacity
- Transform the AMD Force

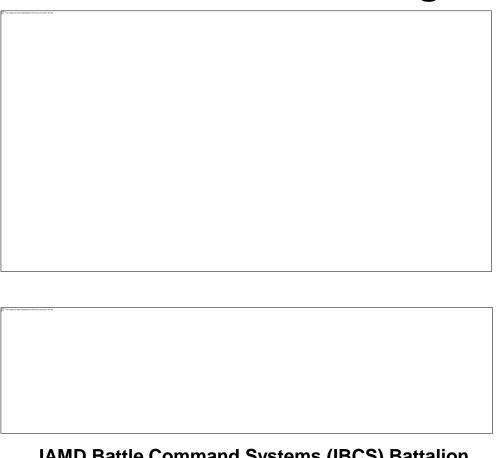
الكاليا الكاليات الكالمات المالكة الكاليات الكاليات الكاليات الكالمات المالكة الكالمات الكالمات الكالمات الكال المالكة الكلات الكل



Emerging IAMD Technology Initiatives

- High Energy Lasers
- Railgun
- Left of Launch
 - Non-kinetic
 - Cyber Operations
 - Joint
- Counter Hypersonic Weapons
- ARCYBER Command formed to address
 Cyber attack. Collaboration with MDA to examine
 MD Cyber defense approaches.

AIAMD First Flight Test - 28 May 2015

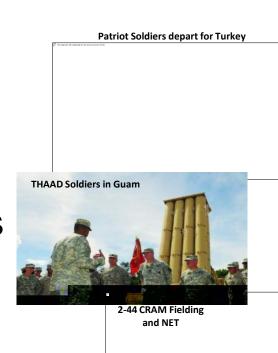


IAMD Battle Command Systems (IBCS) Battalion Engagement Operations Center (EOC) White Sands Missile Range AIAMD Flight Test

- Successful intercept test against a
 Tactical Ballistic Missile (TBM) surrogate
 target using a Patriot Guidance
 Enhanced Missile-Tactical (GEM-T)
 missile. A Patriot-As-A-Target TBM
 surrogate flew a TBM trajectory against
 an asset defended by an AIAMD task
 force.
- Task Force comprised of a Battalion Engagement Operations Center (EOC), a non-collocated Battery EOC with a Patriot radar, and a remote Integrated Fire Control Network (IFCN) Relay connected to two adapted Patriot Launchers operating on an IFCN.
- The IBCS coordinated all aspects of the engagement sequence.
- This test demonstrated the ability to conduct an engagement over an IFCN utilizing the IAMD Battle Command System (IBCS).

The Critical Factor – Trained and Ready Soldiers

- Conducting 24/7 GMD Homeland Defense
- Playing Integral Role in NTC's
- Continuous Updated Training on Current and Newly Fielded Systems
- Leveraging the Unique Strengths of ARNG, Reserve & Active Components



High Demand – 58% ADA Forward Deployed

Way Ahead

- Build On Success
- Ensure Synchronization & Integration Enterprise is Enduring
- Conduct Experiments that Address Simultaneous Air and Missile Attacks
- Closer Collaboration and Coordination Between Services and Coalition Partners
- Conduct Early Vulnerability Assessments of Systems and Architectures
- Develop Better Automated Linkages Between Sensors,
 Communications and C2 of Air & Missile Defense Systems

An IAMD Enterprise That Defends Critical
Assets and Protects the Force

Questions?