



*U.S. Army Space and Missile Defense Command/  
Army Forces Strategic Command*



# **U.S. Army Space Capabilities: Enabling the Force of Decisive Action**

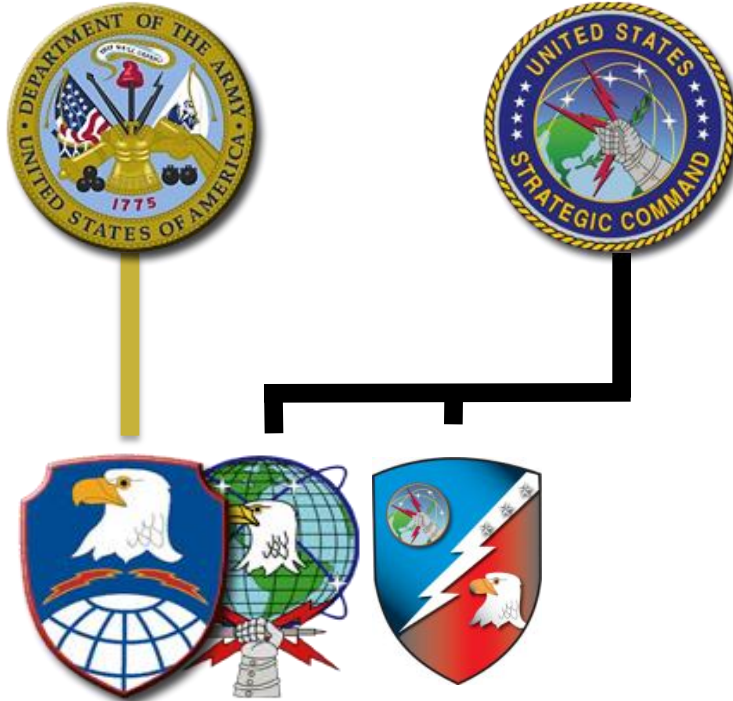
**LTG Richard P. Formica**

**1 June 2012**



# Our Reporting Chain

## Our Mission



USASMDC / ARSTRAT

JFCC IMD

### “Three Hats”

USASMDC/ARSTRAT conducts space and missile defense operations and provides planning, integration, control and coordination of Army forces and capabilities in support of U.S. Strategic Command missions; serves as the Army force modernization proponent for space, high altitude and global missile defense; serves as the Army operational integrator for global missile defense; and conducts mission-related research and development in support of Army Title 10 responsibilities. Serves as Senior Mission Commander for U.S. Army Kwajalein Atoll/Reagan Test Site and Fort Greely, Alaska.

Assigned as Commanding General Joint Functional Component Command for Integrated Missile Defense.



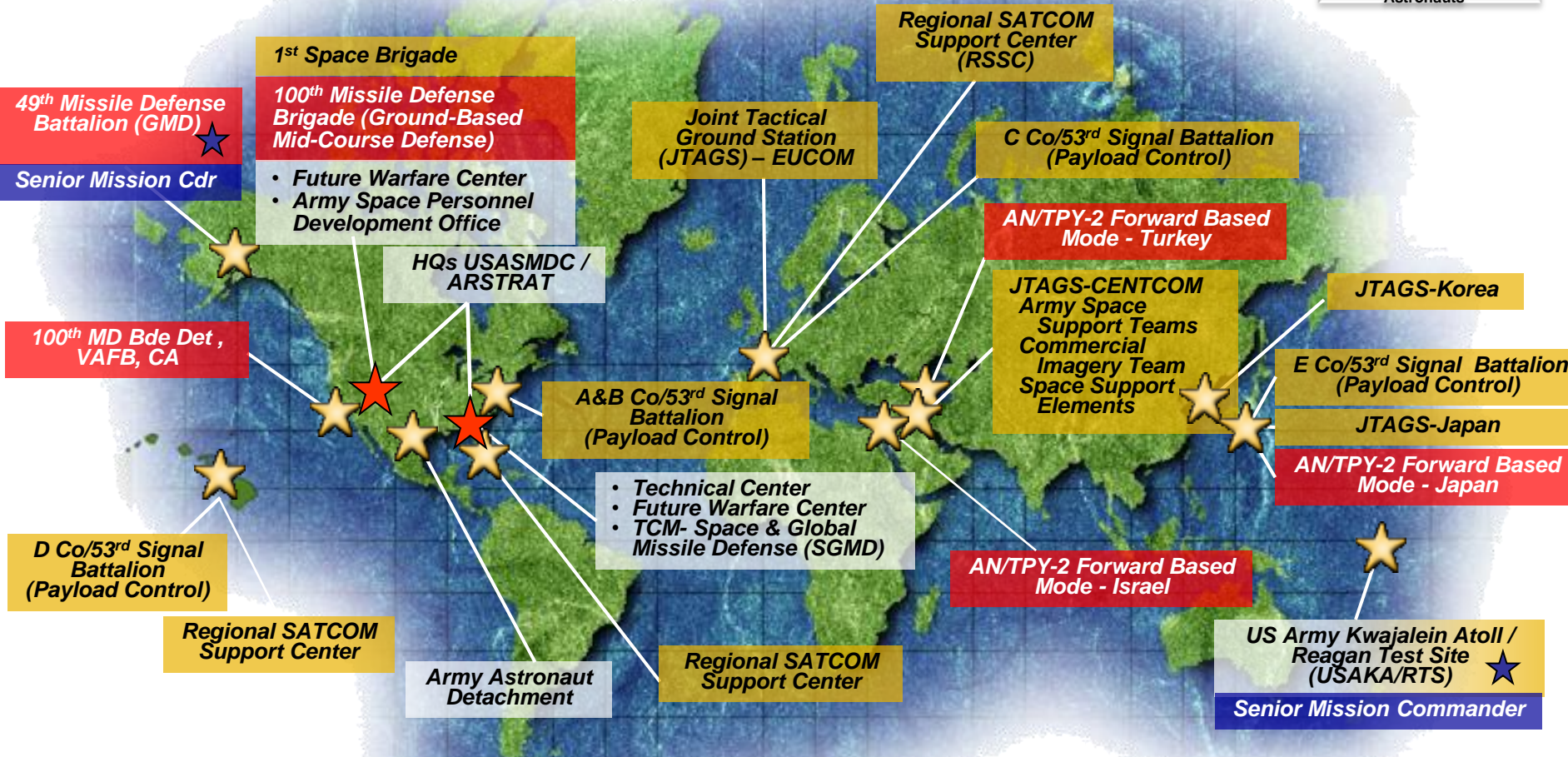
# Organizational Vision Statement

- A diverse, complex, and global command that provides critical capabilities to our Army, USSTRATCOM, COCOMs/ASCCs; in synch with JFCC-IMD
- One command...split based...multi-component...diverse constituencies...dispersed locations...talented work force of Soldiers, Civilians, contractors; public servants
- The Army's force modernization proponent for Space, High Altitude, and Global Missile Defense; the Army's operational integrator for Global Missile Defense:
  - Providing trained and ready Space and Missile Defense forces and capabilities in service to the Warfighter and the Nation (today)
  - Building future Space and Missile Defense forces (tomorrow)
  - Researching, testing, and integrating Space, Missile Defense, cyber, directed energy, & related technologies (day-after-tomorrow)
- Close, collaborative relationships with MDA and a multitude of stakeholders
- Nested within the Army's enterprise; engaged with and embedded in the HQDA DAMO-AMD
- Provide staff support to ARCYBER; retain close organizational linkages
- Disciplined stewards of our nation's resources – accountable cost culture
- Precise, confident, fit, disciplined, courageous Soldiers and Civilians; tough, caring, courageous leaders; committed to safety in all that we do
- A responsible and cooperative tenant on the installations on which we live and serve
- A values based command – caring for and serving Soldiers, Civilians, Families



# A Global Command

|        |  |
|--------|--|
| Gold:  | Space Ops                                      |
| Red:   | Missile Defense Ops                            |
| White: | HQs, FWC, Technical Center and Army Astronauts |



**Uniquely Organized – Geographically Well-Positioned**



# The Strategic Landscape

- **New Strategic Guidance**

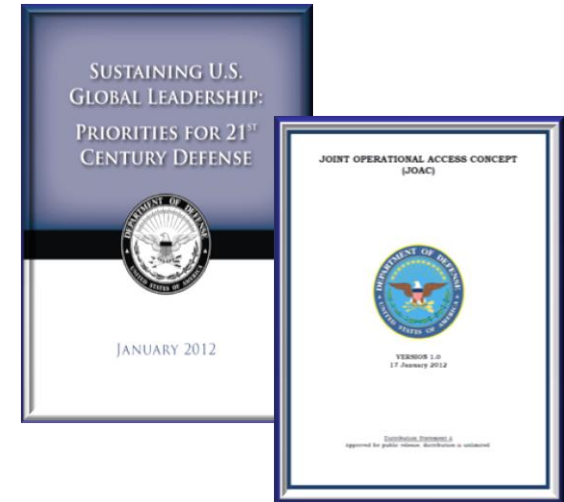
- Defense Strategy, Army Strategic Guidance published
- Pivot toward Asia
- Space and cyber domains provide critical capabilities and must be protected

- **Joint Force**

- Joint Operational Access Concept (Anti-access/Area Denial)
- Global operations: theater security operations efforts through geographic combatant command
- Fiscal realities: modernization tradeoffs, force-shaping, budget reductions

- **USSTRATCOM**

- Campaign Plan; fighting in domains without geographic boundaries



***“Modern armed forces cannot conduct high-tempo, effective operations without reliable information and communication networks and assured access to cyberspace and space***

***- Defense Strategic Guidance, 2012***



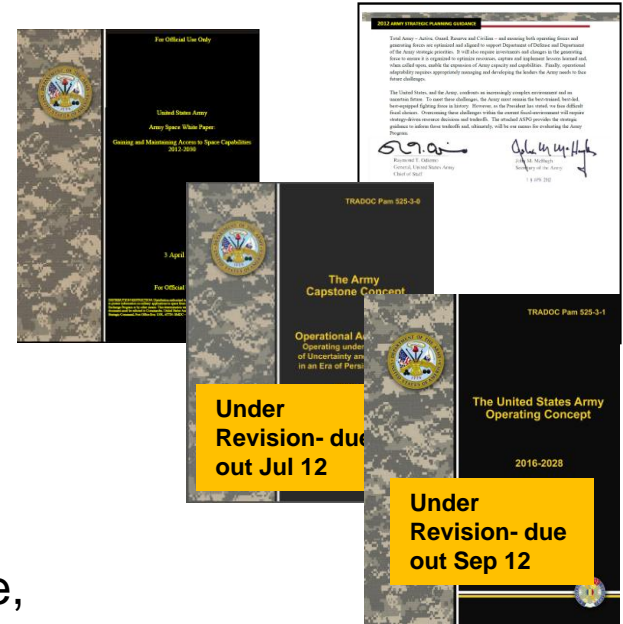
# Army Concepts...informed by Space White Paper

- **Army Space White Paper**

- Foundational document for Army Space Capabilities-based Assessment
- Key paper that informed Army Strategic Planning Guidance, Army Capstone Concept, Army Operating Concept
- Nested with DoD and Joint Strategy/Concepts

- **Key concepts:**

- If the Army wants to shoot, move and communicate, it needs space -- down to the lowest echelon
- Space is a contested domain; need cross-domain solutions
- “The Army requires unrestricted access to mission command systems including communications, missile warning, weather, GPS and cyberspace systems” - ASPG



***“In nearly all situations, the Joint Force relies on the Army for satellite communications, assured direct theater missile warning, theater logistics, mission and other capabilities.”***

***– Army Strategic Planning Guidance (ASPG), March 2012***



# Space in Support of Army Warfighting Functions

- Army's Warfighting Functions rely on space capabilities for mission success
  - Mission Command, Movement and Maneuver, Fires, Intelligence, Sustainment, Protection
- Space provides SATCOM, PNT, ISR, Missile Warning, Environmental Monitoring
  - Enables mission command, situational awareness, force tracking, common operating picture, operational planning, etc.
- Supports all aspects of unified land operations

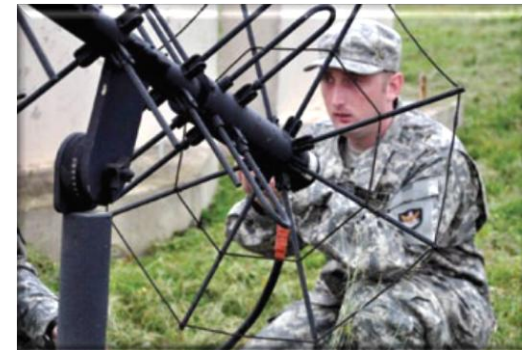


***“Army space capabilities are combat multipliers that enable all six Warfighting Functions”***

***-- Army Space Operations White Paper, April 2012***



***“Secure the High Ground”***

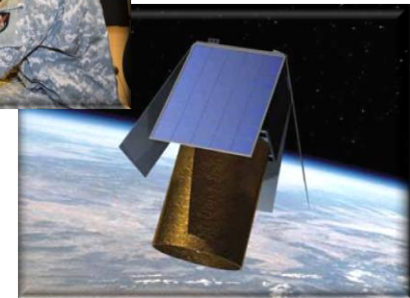


***The sun never sets on USASMDC/ARSTRAT***



# Army as a Provider of Space Capabilities

- SMDC/ARSTRAT is Army proponent for Space and a force provider – space forces and capabilities to the Army, Joint Force
- Coordinates with Army Intelligence and Signal communities; USSTRATCOM; other Joint elements
- Provides trained and ready space forces and capabilities to the COCOMs and the Warfighter
- Builds future Space forces
- Conducts space mission-related research and development activities



***Providing Army Space Capabilities to the Army and Combatant Commands***





## SMDC Space – Our Focus for 2012-2013

### • Operations

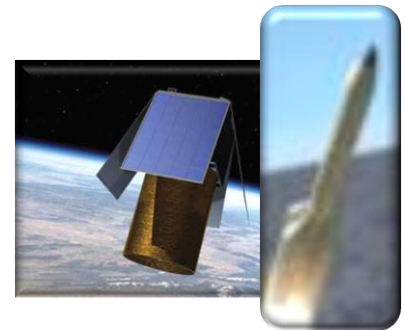
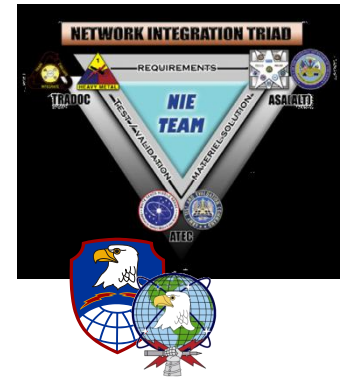
- Continue to provide trained and ready space forces and capabilities: ARSSTs, SATCOM, Missile Warning, FFT
- Operational acceptance of WGS-4 and MUOS-1

### • Capability Development

- JTAGS Modernization
- Providing space and high altitude capabilities to Network Integration Evaluations (cross-domain solutions)
- Integrating Space into Soldier/Leader Development
- Space Capabilities-based Assessment

### • Materiel Development

- Nanosatellite launch (NRO sponsored) - summer 2012
- SMDC Nanosatellite Program (SNaP) Joint Capabilities Technology Demonstration – launch in 2013
- Two pending JCTDs:
  - Kestrel Eye
  - Low cost responsive space launcher





## Take-aways

- Space-based capabilities are critical elements of the Army's ability to Shoot, Move, and Communicate
- Space is inextricably linked to warfighting – recent DoD, Joint and Army concepts document the role of space
- Space capabilities enable the Army's Warfighting Functions
- Need to leverage Joint and Army space capabilities – key element of anti-access/area denial scenarios
- SMDC/ARSTRAT will continue to provide trained and ready space forces and capabilities to the COCOMs and the Warfighter; build future space forces; and research, develop, test, and integrate future space capabilities

***“Like the machine gun, the truck and the helicopter, space-based capabilities are now indispensable to the force.”***

***– GEN Sullivan (USA, Ret), AUSA Torchbearer, May 2012***



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# Questions?