U.S. Army Space Capabilities:

Enabling the Force of Decisive Action

LTG Richard P. Formica

1 June 2012
Our Reporting Chain

"Three Hats"

Our Mission

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.

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

“Secure the High Ground”
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
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
Questions?