

ASA(ALT)/AAE Perspective

Force Projection Symposium & Exhibition V

The Honorable Claude M. Bolton, Jr.
Assistant Secretary of the Army
(Acquisition, Logistics and Technology) and
Army Acquisition Executive
May 18, 2004

Trivia

The seal of the Joint Chiefs of Staff is centered in the background. It features a shield with a red and white striped field and a blue chief, surrounded by a wreath of olive and oak branches. Two crossed swords are positioned behind the shield. The words "JOINT" and "CHIEFS OF STAFF" are inscribed on banners above and below the shield, respectively.

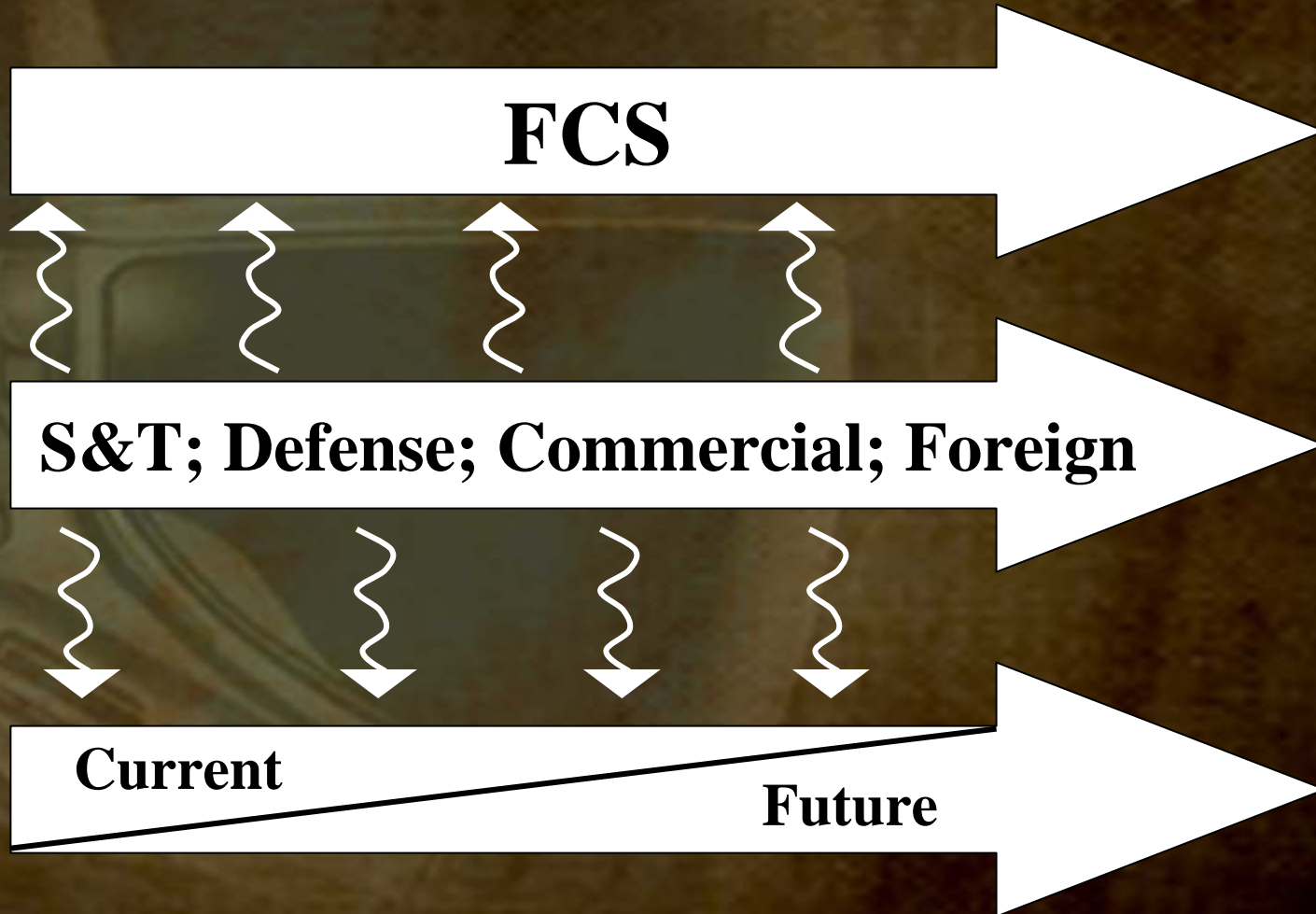
**What Legislative Act
Formally Established
The Joint Chiefs of Staff?**

Trivia Answer

**The National Security
Act of 1947**

Current → Future Force

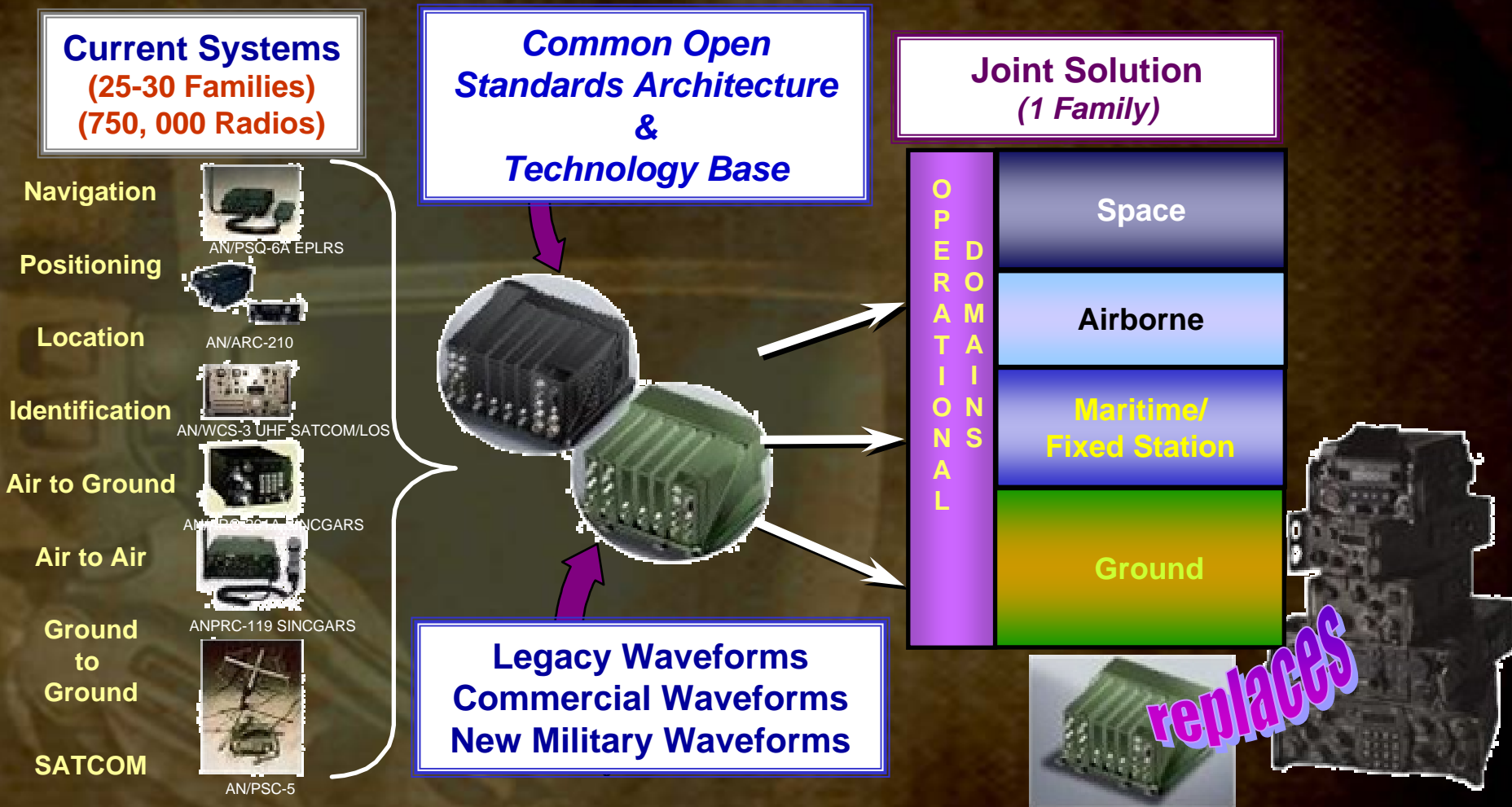
What Is Our Strategy For Getting There?



The Process



Joint Tactical Radio System



JTRS – A Family of Common Radios and Waveforms
Built Around a Standard Open Architecture

Joint Common Missile

Capabilities

- Adverse weather
- Fire and forget
- Precision strike
- Beyond line of sight or LOS
- Platform survivability through standoff
- Potential for ground- and ship-launch
- Air-to-ground missile
- Multi-platform: fixed and rotary wing
- Multi-targets: armor, MOUT, watercraft, light materiel
- Countermeasure resistant



Seeker/Guidance Electronics

- Multi-mode Guidance
- Mid Wave Infrared
- Millimeter Wave
- Laser
- Inertial Navigation
- Software Integration

Warhead

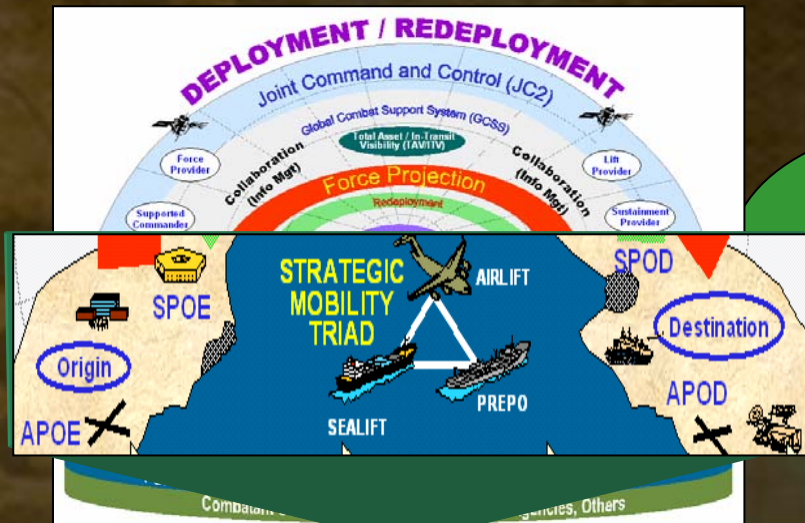
- Compact Warhead Technology
- Tandem Integration
- Multipurpose (Armor/Military Operations Urban Terrain)
- Insensitive Munitions

Propulsion

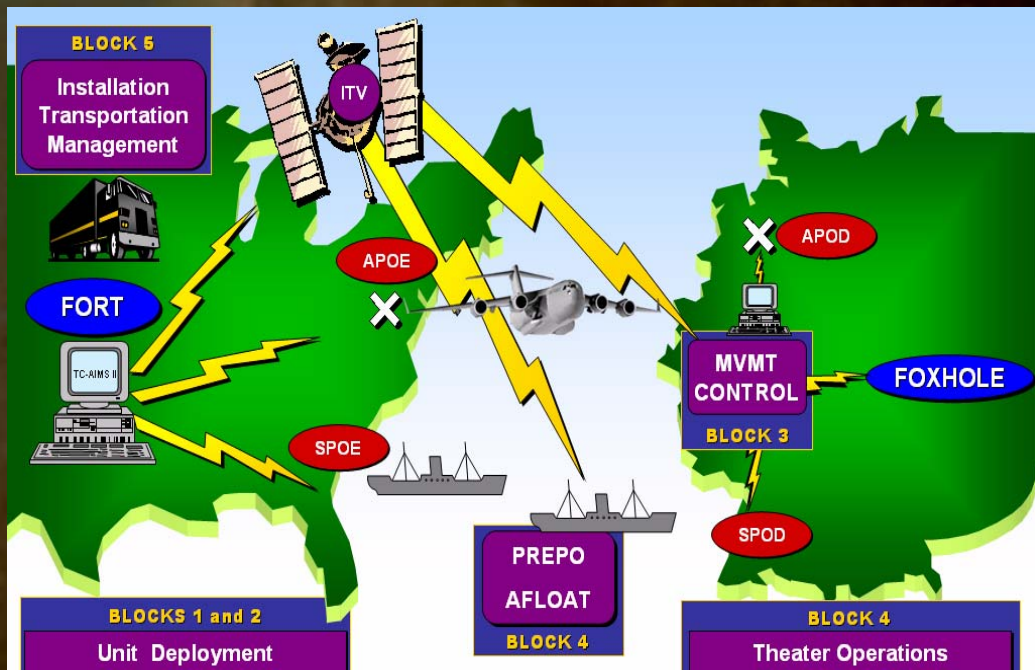
- Solid Propulsion
- Boost-Sustain
- Insensitive Munitions
- Range 16k RW/ 28k FW

TC AIMS II

Transportation Coordinators' Automated Information for Movements System II

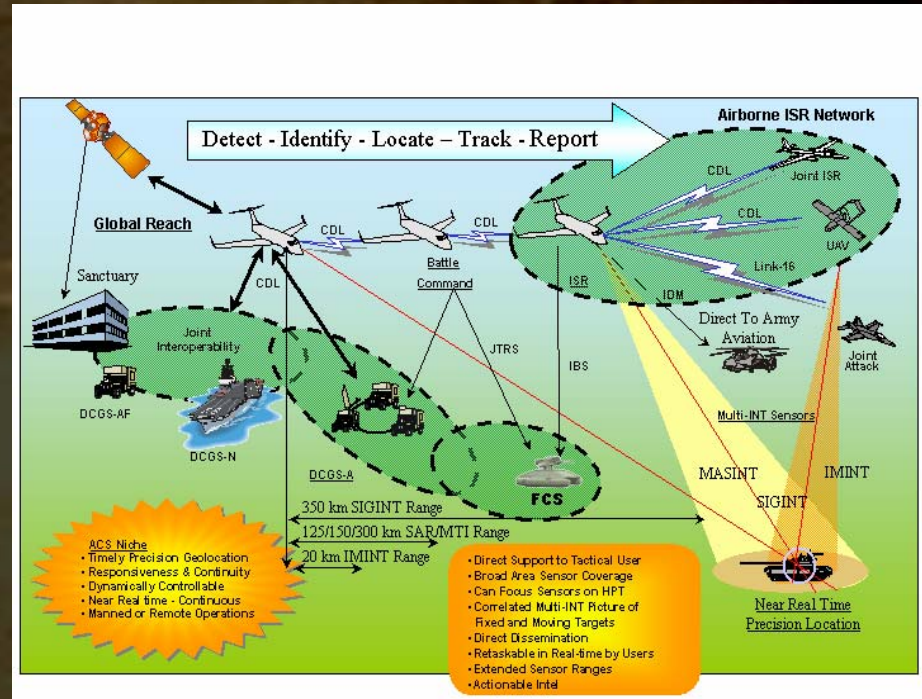


- Supports Joint Movement
- Provides ITV Source Data
- Controls Theater Movement
- Net Centric



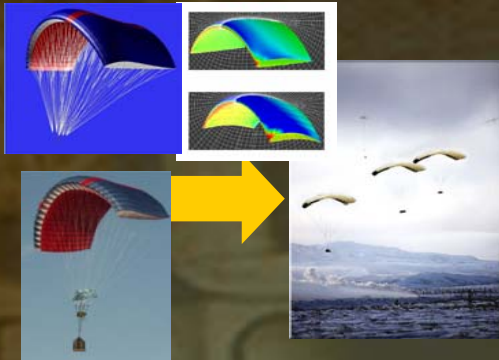
Aerial Common Sensor

- Joint Army/Navy Future Force aerial ISR system
- Global Responsiveness –
 - Strategically Deployable in 72 hours,
 - Fully Mission Configured, Ready to Fight
- Manned / Unmanned Teaming
- Operate Extended Period of Time –
 - On-Station Endurance - 8+ Hours;
 - OPTEMPO - 24/7 for 30 days;
 - Continuous Coverage



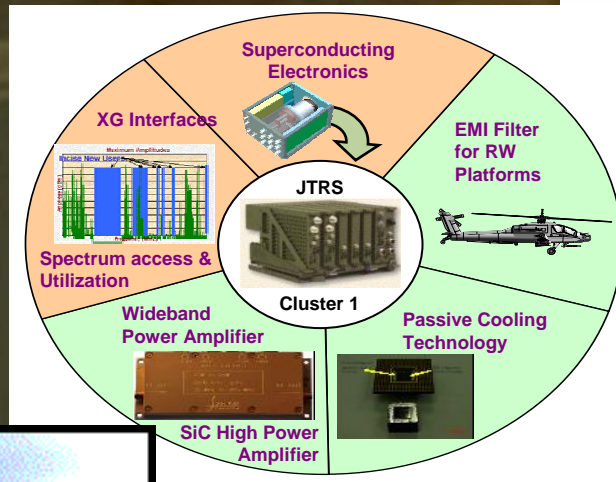
Will Provide Persistent and Wide Area Coverage of the Battlespace

Joint S&T Programs

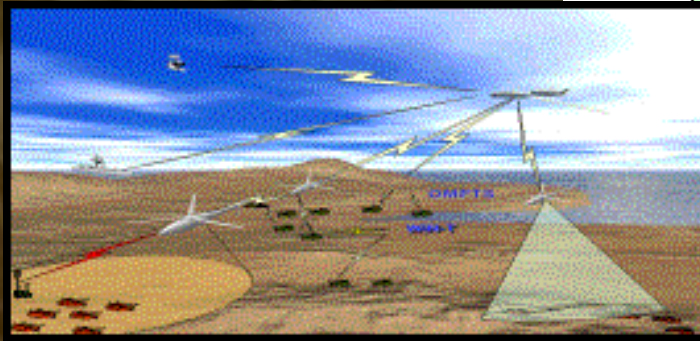


Joint Precision Airdrop System

Joint Tactical Radio System Enhancements



Micro Electro-Mechanical Systems (MEMS), Inertial Measurement Unit (IMU)

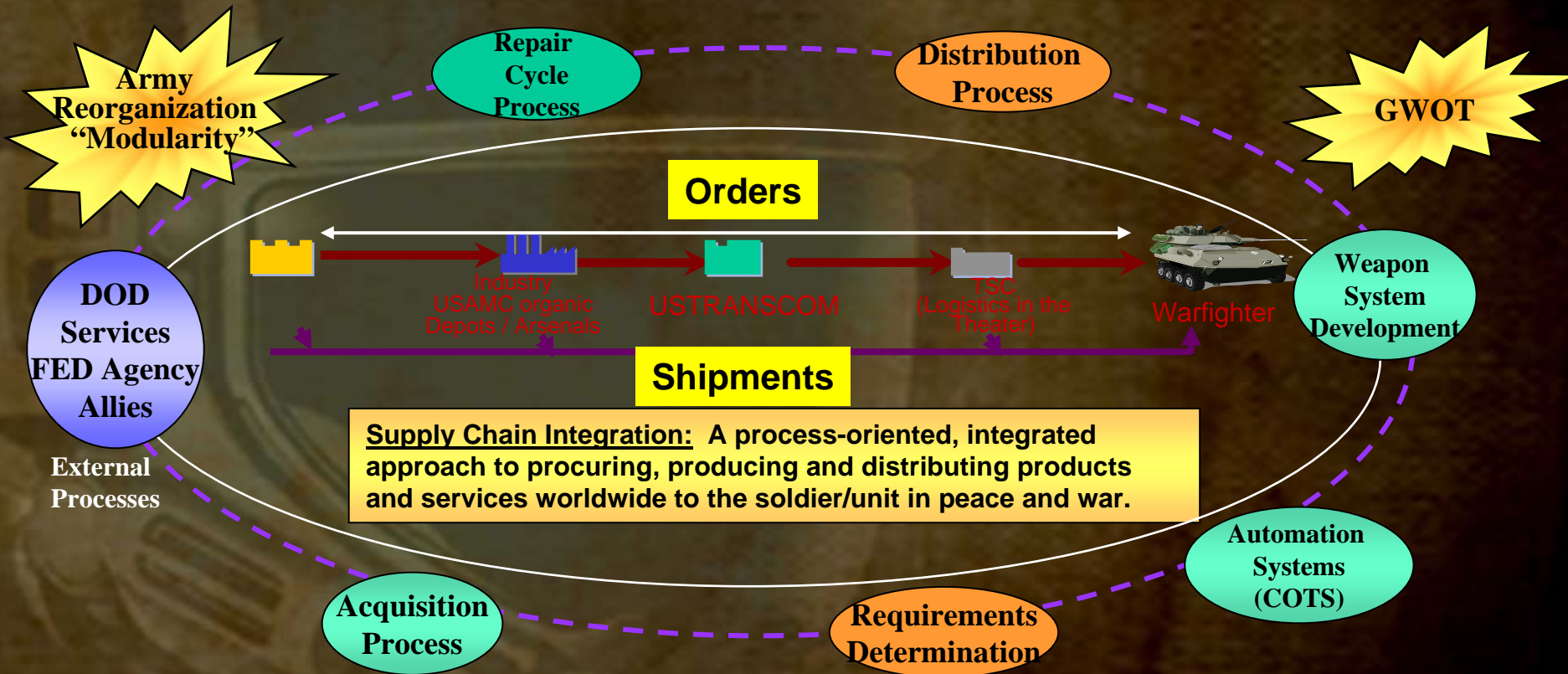


Adaptive Joint C4ISR Node (AJCN)

Joint High Power Solid State Laser



Integrate The Supply Chain

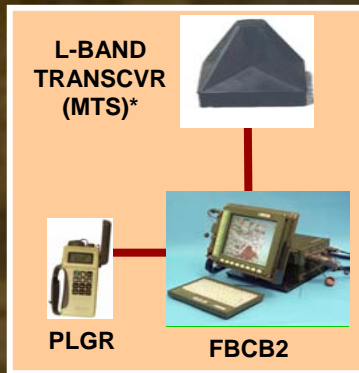


The Stryker Success Story



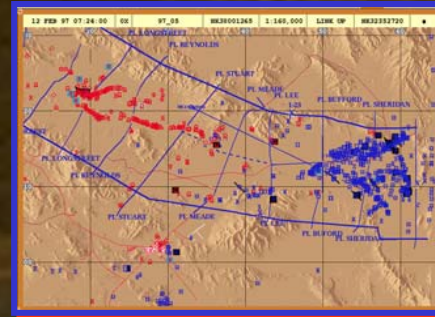
Blue Force Tracking

What is BFT...



- **Production** FBCB2 hardware and software
- Fielded to the **Company Level**
- **Satellite - Based** communications
- Common configuration for ground and Lift Aviation platforms
- Atk Avn receives MTS, GPS and FBCB2 Software

What Satellite BFT Provides...



- Unit Tracking
- Limited Messaging
- Limited Graphics



Enhanced Situational Awareness

Near-Real Time data available

Commanders make Informed Decisions

Facilitates Integration of all Forces

Where Am I?

Where Are My Buddies?

Where Is the Enemy?

ADA-A5A

14RPV 23366 46936

F1 Map... F2 Filters...

F3 Combat Msgs... F4 Long Msgs...

F5 Status... F6 Admin...

F7 Apps... F8 Help

1x 21:55

* Movement Tracking System

Future Combat Systems (FCS)

Manned Systems



Mounted Combat System



Infantry Carrier Vehicle



Non-Line of Sight Mortar



Medical Treatment and Evaluation Vehicle



Command and Control Vehicle



C4ISR Network



Non-Line of Sight Cannon



Reconnaissance and Surveillance Vehicle

Unmanned Platforms



Unmanned Aerial Vehicles



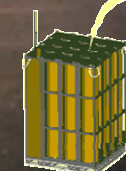
Small Unmanned Ground Vehicle



Multifunctional Utility/Logistics Equipment Vehicle



Armed Robotic Vehicle (Light)



NLOS-LS



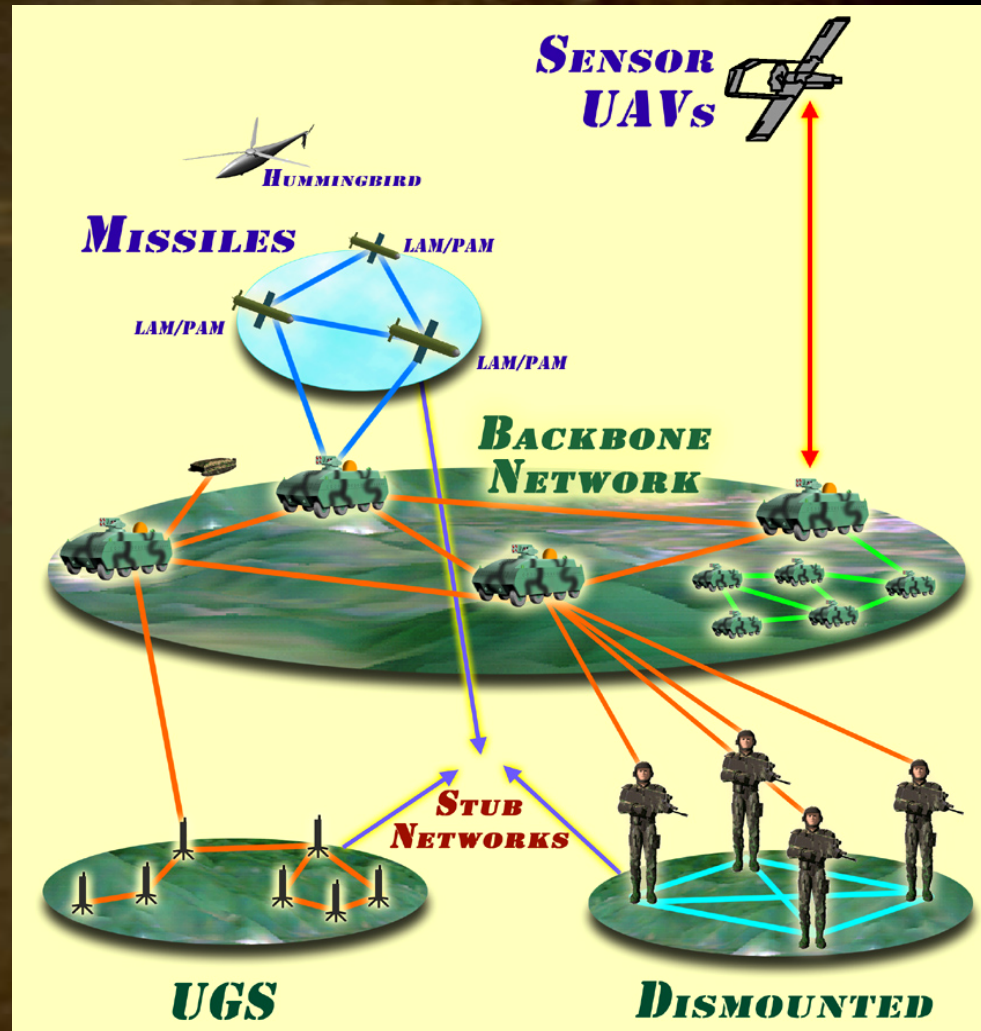
UGS



Emerging Communications/ Networking Architecture

FCS requires a network of networks solution

- *Backbone Network*
 - Imagery, Data, & Voice Network
- *High performance Networks*
 - Video Distribution
 - Sensor UAVs Network
 - Robotic sensors Network
- *Stub Networks*
 - Dismounts
 - Loitering Attack Missile/
Precision Attack Missile
 - Unattended Ground Sensors
SMART munitions



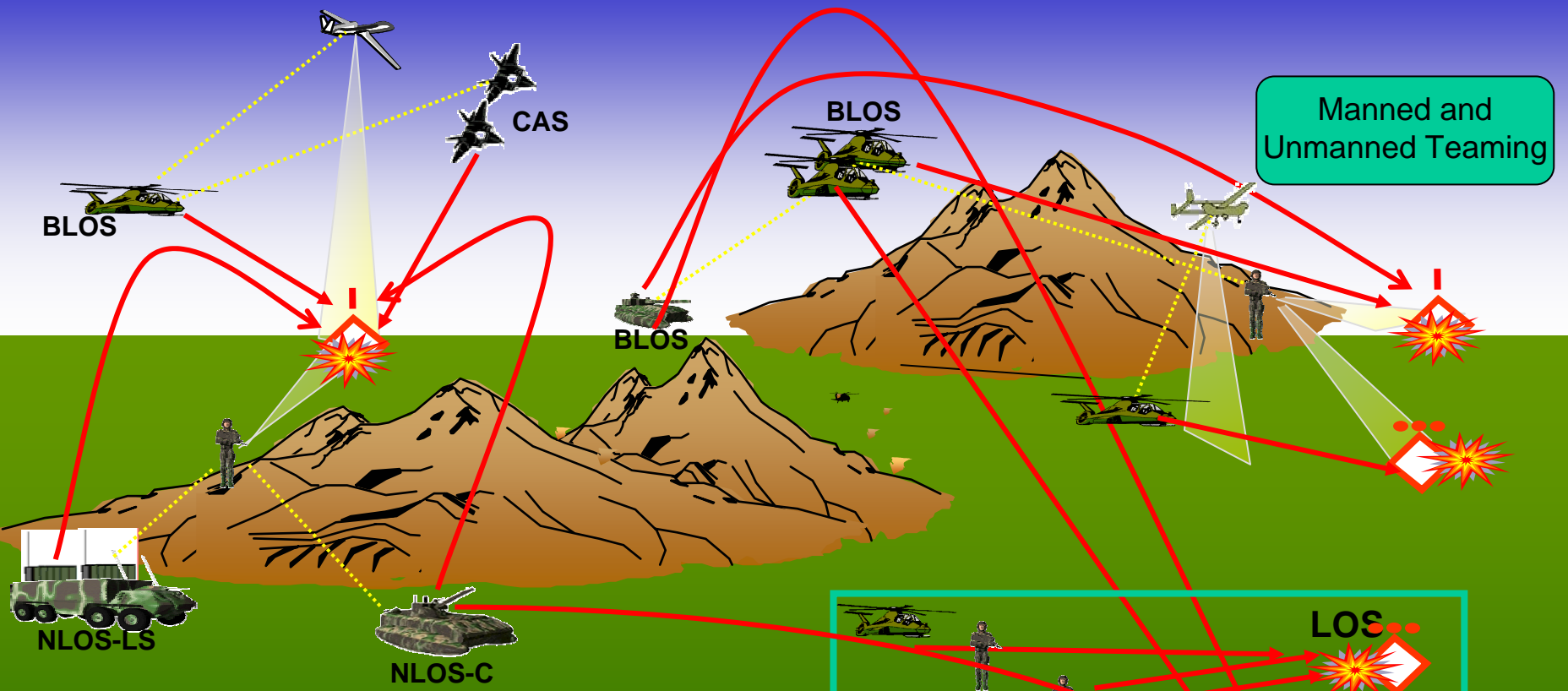




Back Up



Unit of Action Concept



Manned and Unmanned Teaming

Employment Concept

- Develop Situation Out of Contact
- Destroy High Payoff Targets (Maximize Standoff Capabilities)
- Synchronize Available Joint Fires/Effects
- Close Support to Maneuver (Most Dangerous)

