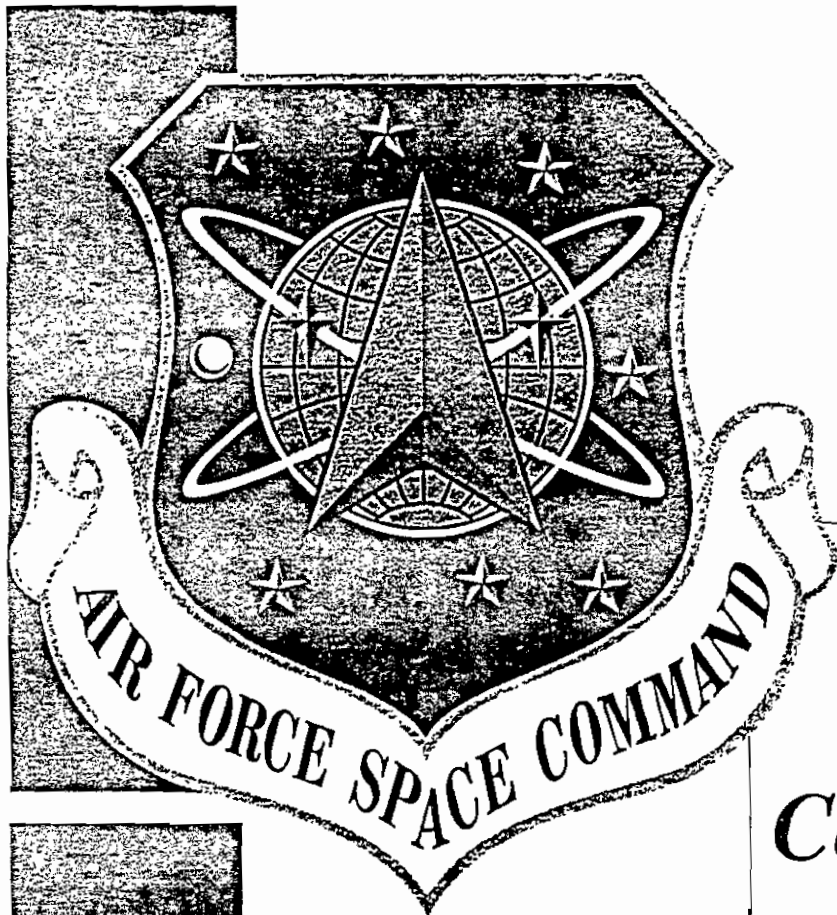


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pc docs#2708



*SBIRS Overview Brief
Combat Air Force
Commander's Conference
16-17 Nov 98*

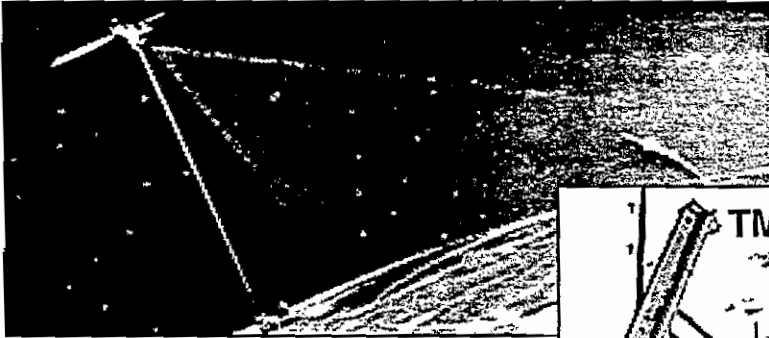
This Briefing is Classified



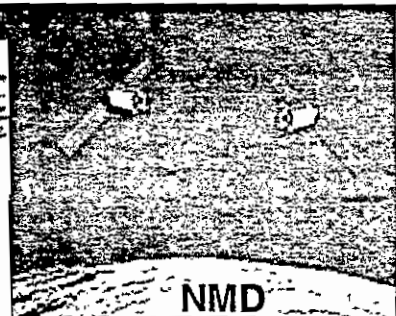
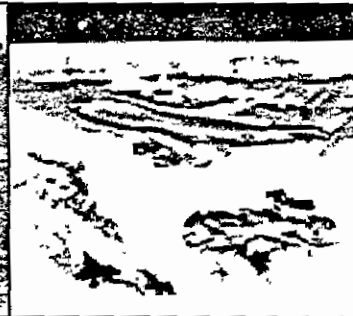
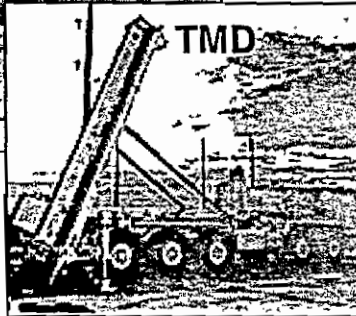
CLASSIFIED PORTIONS REMOVED

SBIRS Mission Areas

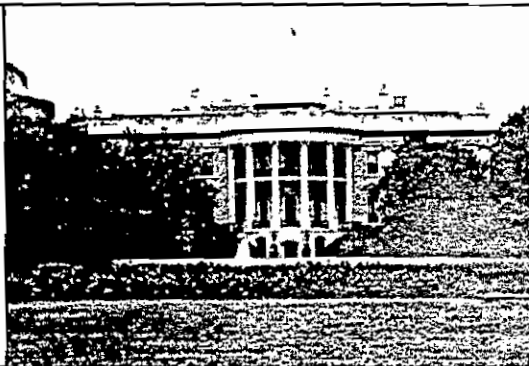
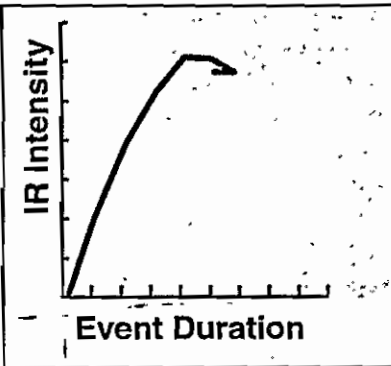
Missile Warning (MW): Ballistic Missile Warning to NCA, CINCs, Other Users



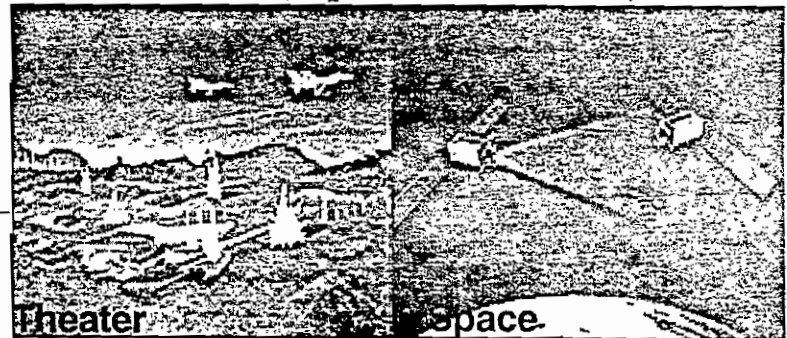
Missile Defense (MD): Data to Defensive Systems



Technical Intelligence (TI): Timely Info to National Decision Makers and critical support to other missions



Battlespace Characterization (BSC): Battlefield Situation Awareness, Space Surveillance, Weather

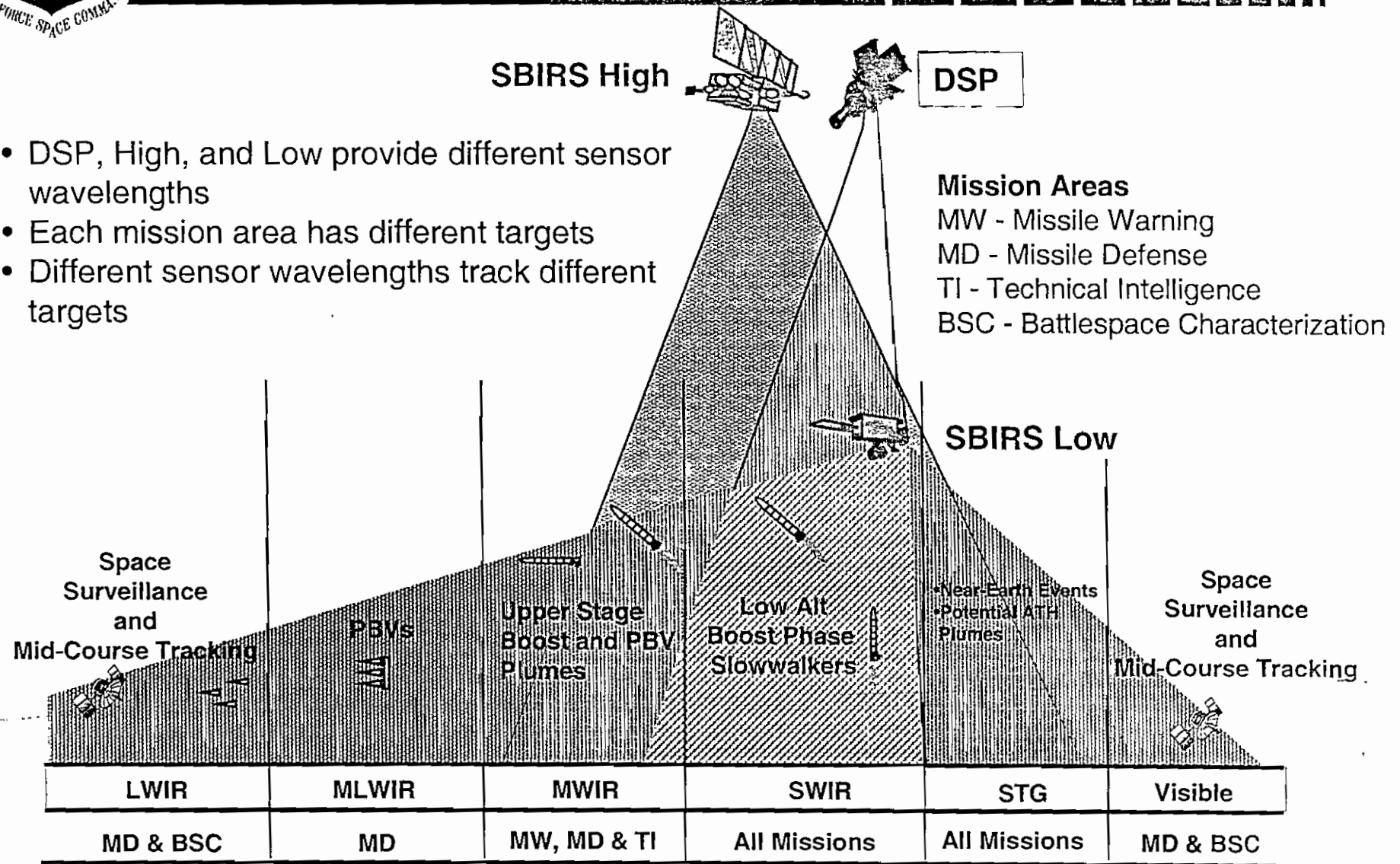


Jointly defined, affordable mission capability meets the nation's needs for infrared space-based surveillance



Sensor Bands for SBIRS Missions

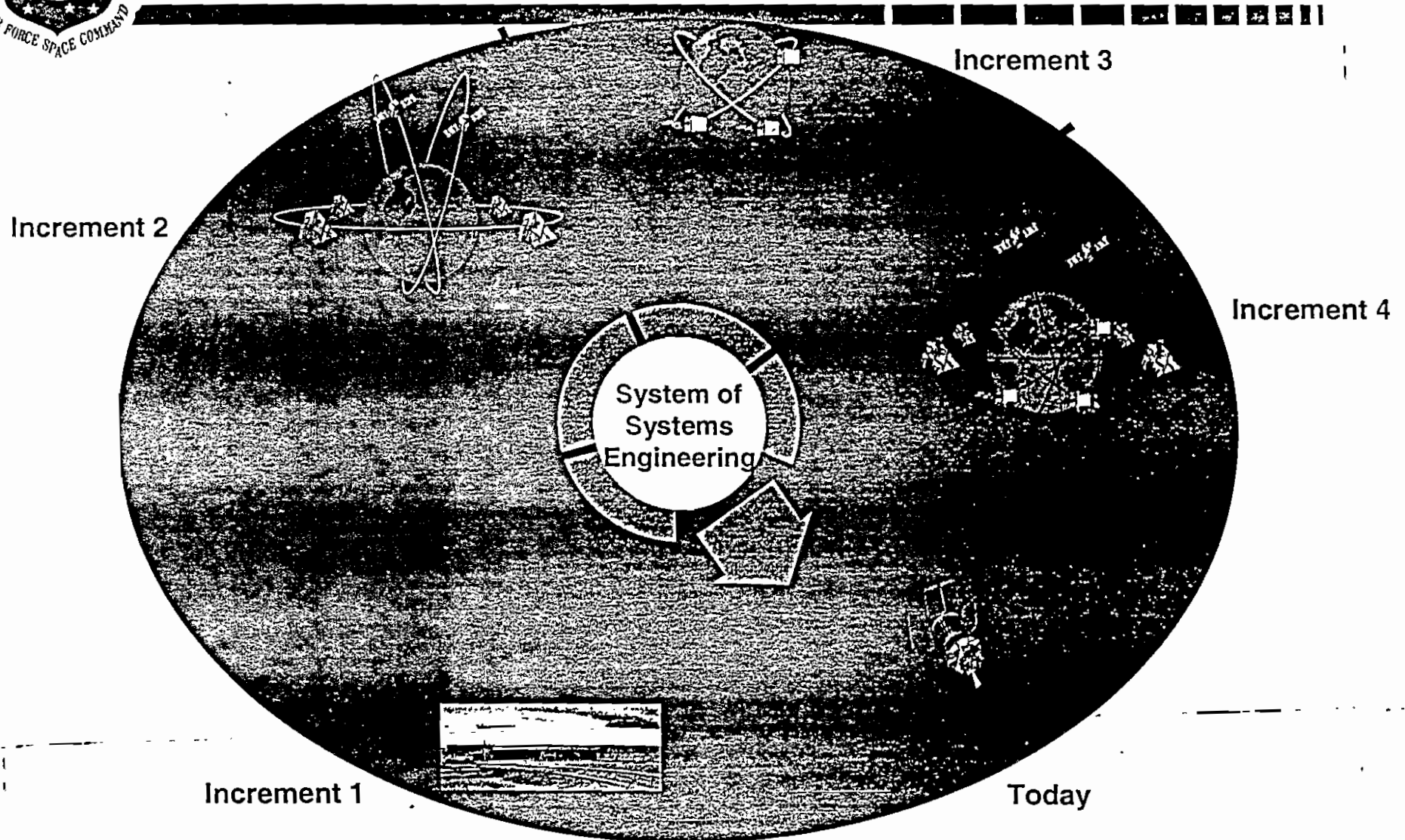
- DSP, High, and Low provide different sensor wavelengths
- Each mission area has different targets
- Different sensor wavelengths track different targets



Synergistic Use of SBIRS Space Components and Spectral Bands



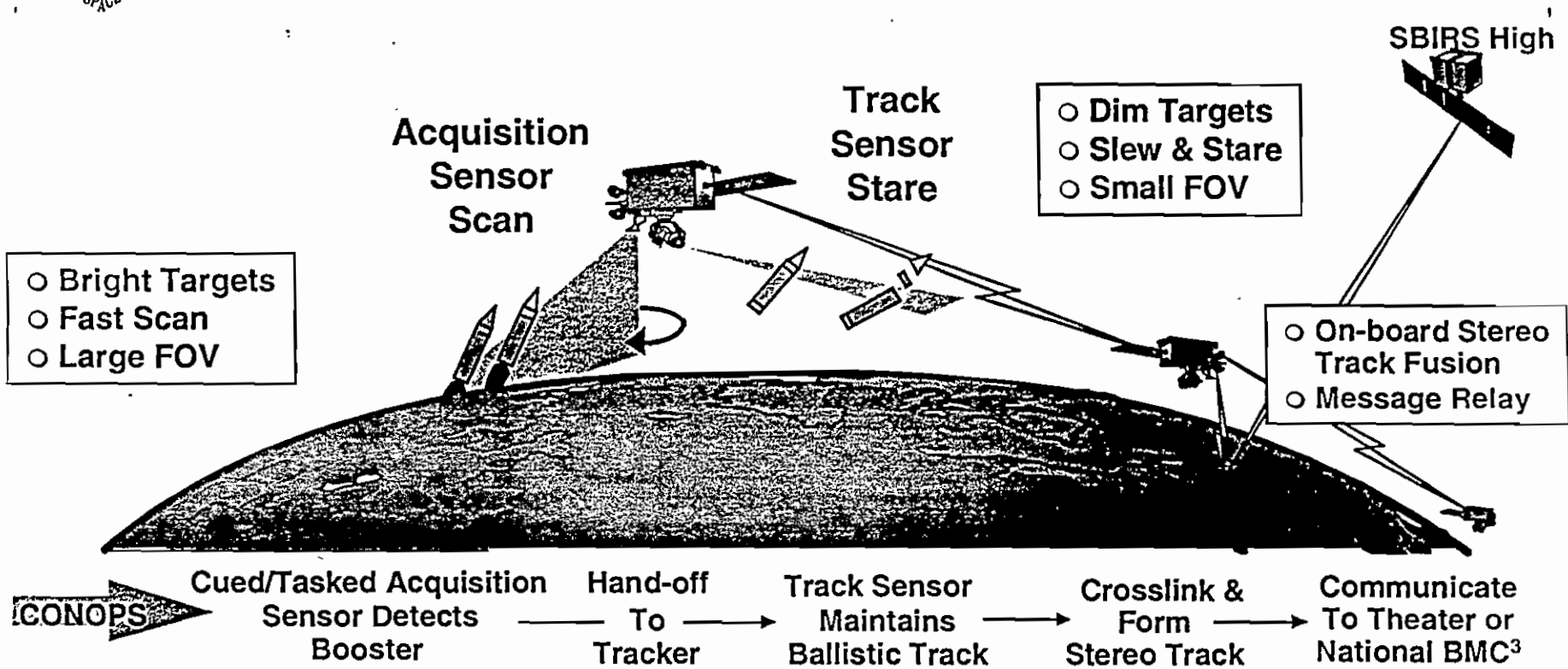
SBIRS Integrated Architecture Approach



Integrated Architecture to Meet SBIRS Operational Requirements



SBIRS Low Component Functionality



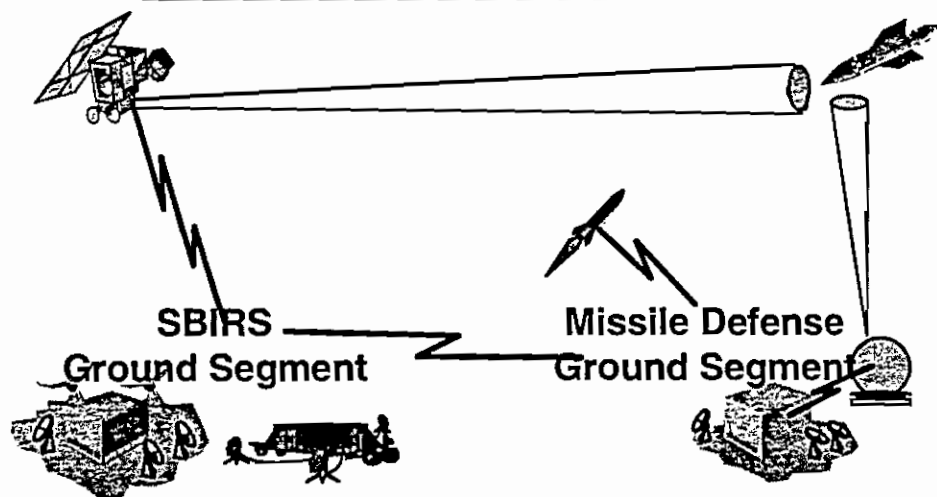
SBIRS Low Component Emphasis is on Midcourse Tracking

- Expands Battlespace for Missile Defense with Precision Target Data
- Augments other SBIRS Mission Areas (MW, TI, & BSC)

SBIRS NMD Employment Concepts

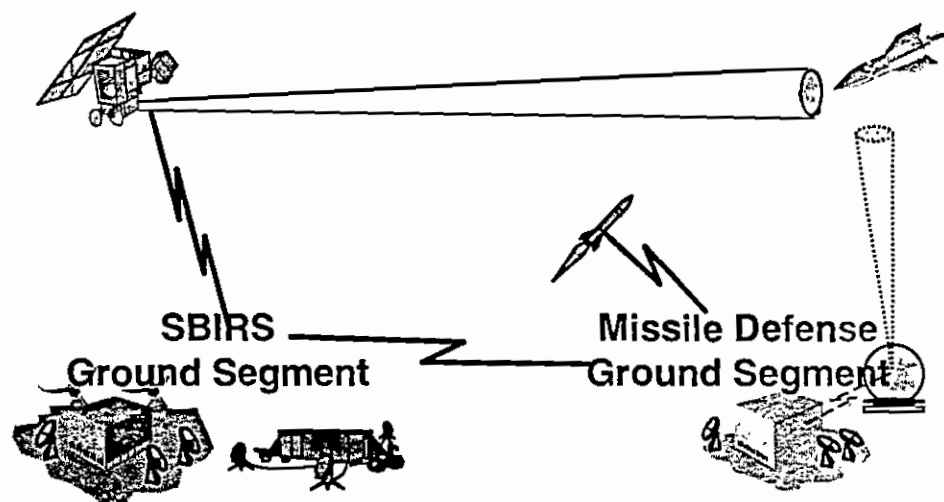


Radar Cued on SBIRS Low



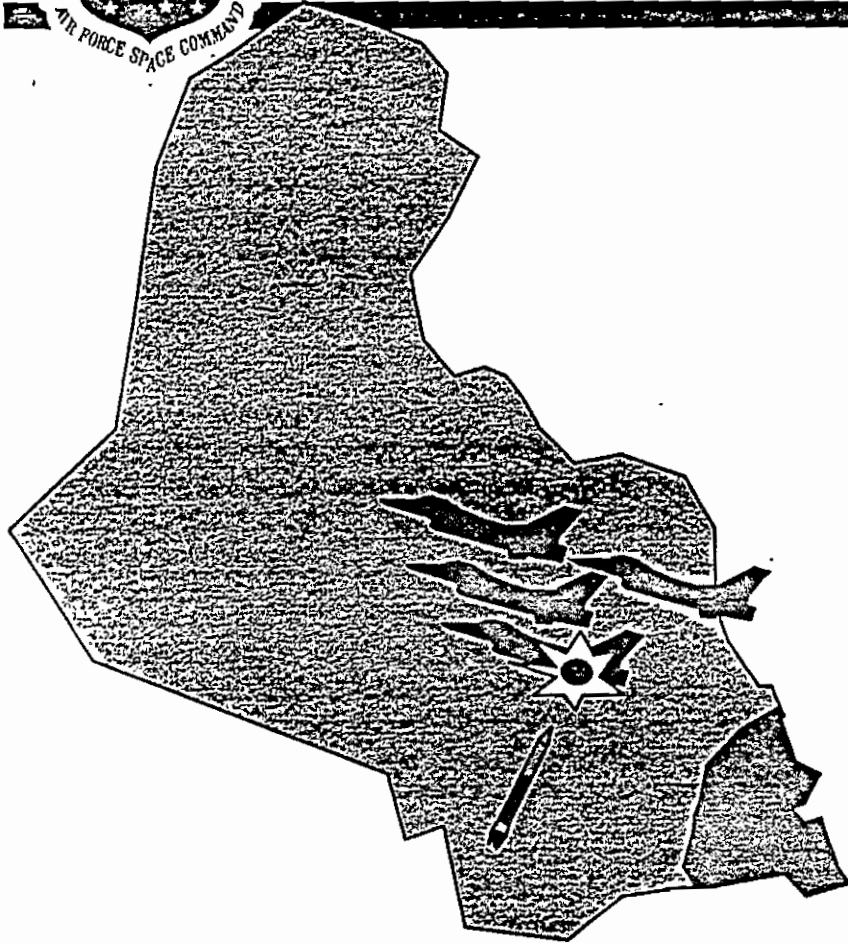
- SBIRS High provides initial msl warning msg
- SBIRS Low acquires and tracks from boost phase into post-boost/midcourse phase
- SBIRS Low state vector (SV) data used as initial radar search area cue
- SBIRS Low SV data fused by NMD ground to launch and guide interceptor in-flight

Commit on SBIRS Low



- SBIRS High provides initial msl warning msg
- SBIRS Low acquires and tracks from boost phase into post-boost/midcourse phase
- SBIRS Low initial SV data used to launch interceptor for stressing timeline engagements
- SBIRS Low SV data fused by NMD ground to guide interceptor in-flight

Strike Aircraft Explosions



DSP non-real time detections (Mid-Air/Ground)

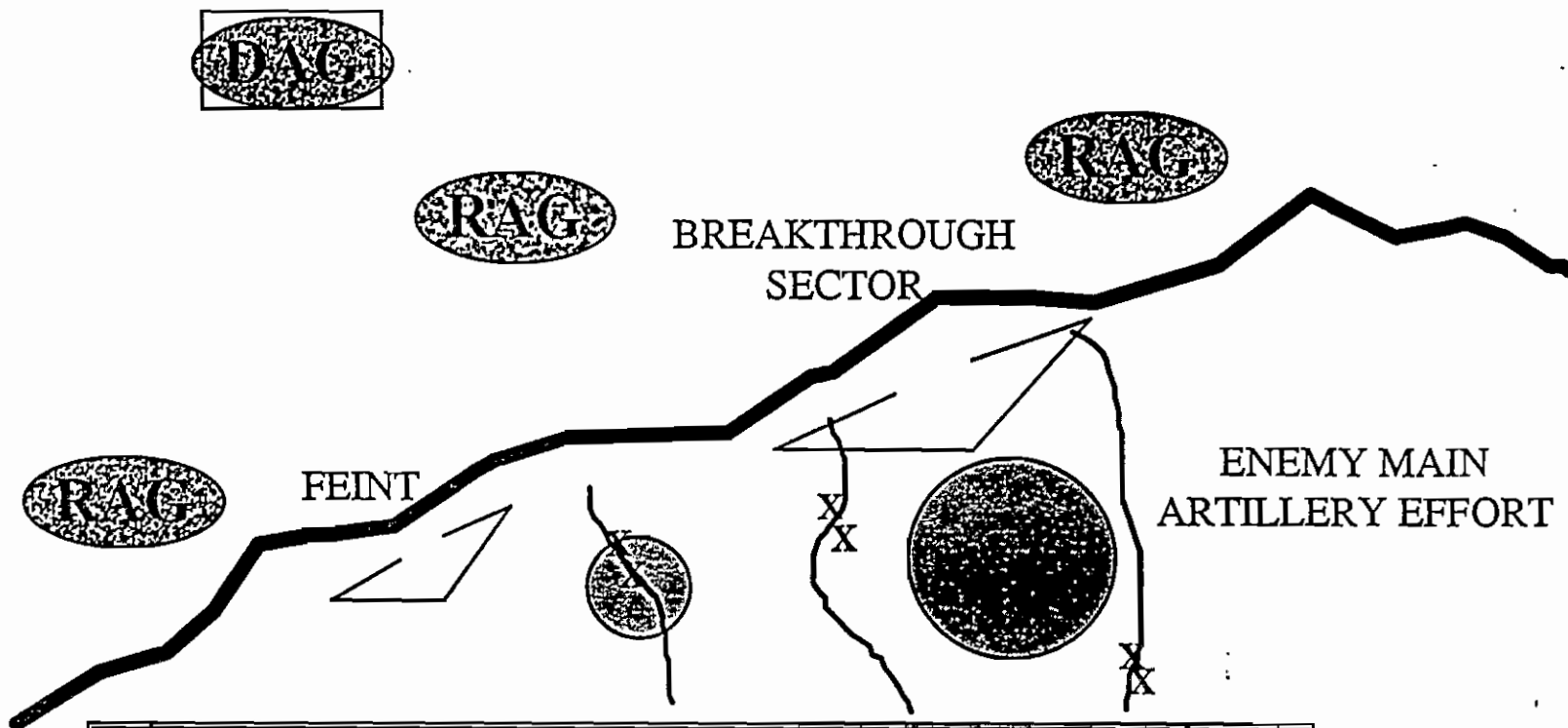
- F-15E CRASH DURING 16
- DESERT SHIELD
- O'GRADY'S
- SHOOTDOWN
- F-117 CRASH IN
- WESTERN NEW MEXICO
- A-10 CRASH NEAR
- EAGLE COLORADO

**SBIRS will provide quicker better information
on location and time --used to plan combat SAR**



Artillery Fire

SBIRS will have the ability to detect artillery flashes and explosions



SUPPORTS UNDERSTANDING OF ENEMY OPERATIONAL INTENT



Summary

- **SBIRS is USCINCSpace's #1 Priority**
- **SBIRS Performs Critical Missile Warning and Defense Operations to Meet Current and Emerging Threats**
 - Continued Missile Proliferation
 - Improving Theater Missile Performance
- **It's the Next Logical Step in Technology**
 - Quantum Leap Over DSP - Advanced Sensor Technology
 - DSP Not Suited to Growing Theater Missile Diversity
- **Provides True Battlespace Characterization and Improved Technical Intelligence**