

National Security Space Office

Advancing America's Preeminence in Space



**Roles of the National
Security Space Office
(NSSO)**

***Mr. Joe Rouge
Director***



Overview

- Organization
- National Security Space Plan
- Architecture Basics
- Vignette: Space Control Paradigms
- NSSO's work as ISR FIO



National Security Space Plan (NSSP)

Authority

DoD Directive 5101.2 tasks the EA for Space to prepare the National Security Space Plan (NSSP) in coordination with DoD, the Director of National Intelligence (DNI) and other Enterprise Seniors, as appropriate.

The NSSP is based on annually updated Space Plans and Programs.

- Developed in collaboration with the National Security Space Community
- National Security Space Enterprise's (NSSE) principle planning document
- Input to DoD's Guidance for the Development of the Force (GDF) and Joint Programming Guidance (JPG)
- Annual capabilities-based document
- NSSP informs NSS community on prioritization of space capabilities and provides fiscal guidance to achieve these capabilities and effects
- Prioritization includes top-down (strategy/policy) and bottom-up (COCOM/MAJCOM priority lists) inputs
- Pertinent and balanced recommendations provided to Capability Portfolio Managers



Major Studies, Strategies and Reports

- S&T Roadmap and Summit – 2003-2006
- Space Human Capital Resource Strategy (SHCRS) – 2004
- SHCRS Implementation Plan – 2005
- Report to Congress (RTC) on Educating and Training Space Professionals – 2006
- DoD Space Professional Website – 2007
- Health of Space Industrial Base & Effect of ITAR – 2007
- DoD Director, Management of Space Professionals – 2008
- Congressional Report on Management of Space Professionals – 2008
- Small Industry Barriers to Entry Study – 2008
- NASA Instrument Capability Study – 2008



Major Products/Tasks (Continued)

- Commercial & Foreign Entities (CFE) Program
- Satellite Operations (SATOPS)
- International Cooperation (Australia – US Space Forum)
- Wargames/Exercises (Schriever Series/Unified Engagement)
- NSS Strategy
- NSPD Implementation Actions
- NSS Protection Strategy / NIE
- Commercial SATCOM & Remote Sensing Protection



Architecting Process Overview

Potential Future Needs

Current Reqmts
Future Needs

What do we need to do?

Operational Concepts

How do we want to do it?

Technology

What can we do it with?

Trade Space Definition

How could we do it?

Concepts & Designs

What might they look like?

Design Evaluation

How well do they work, what do they cost, etc.?

Stakeholder Participation
Industry Input
User/Operator Input

Key Capability Identification

What have we learned?

Transition Plan

What needs to be done, when?

Recommendations

Treat Comm as an Enterprise

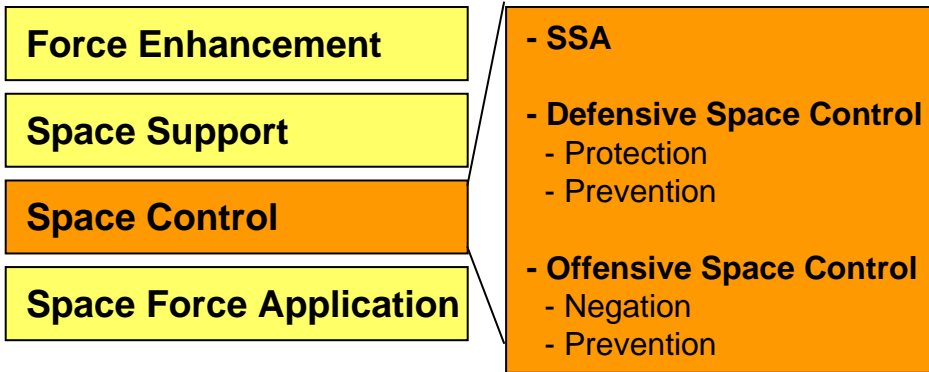
Packet Network Over All Domains

Develop High Capacity Terrestrial Gateways
Cross-Banding
Supporting R & D
Traffic Model / Modeling and Simulation

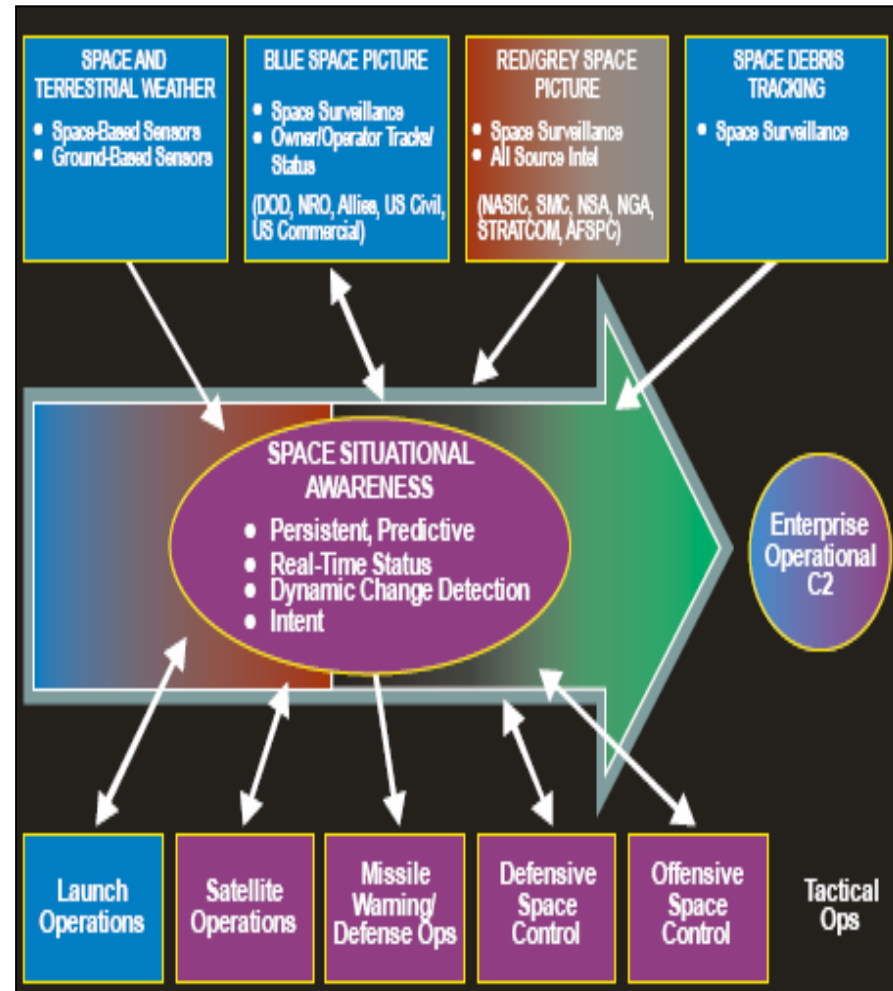


Space Control Paradigms (1/2)

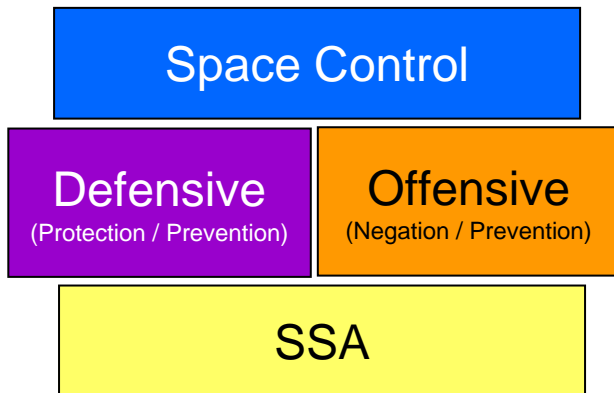
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JFCC Space

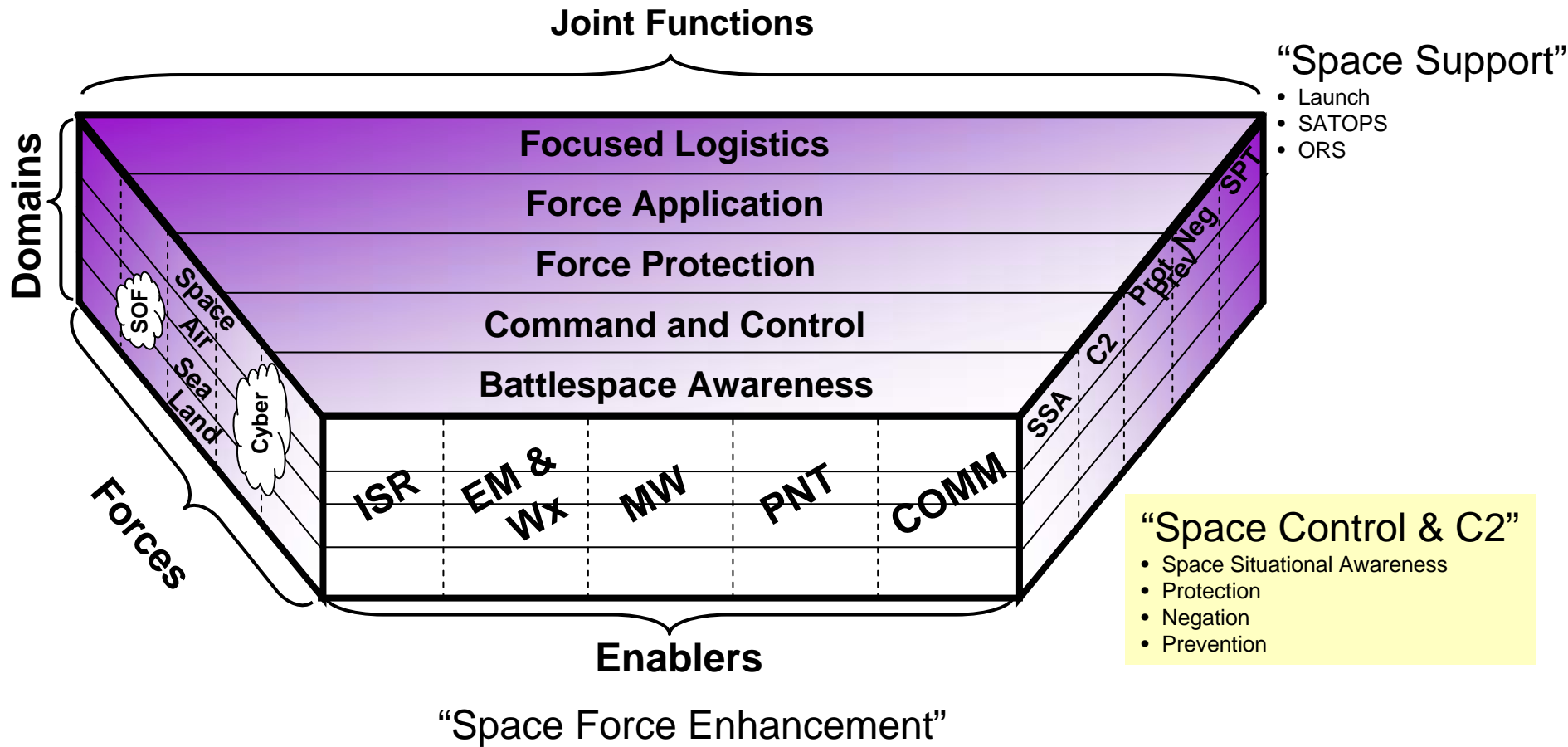


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Space Control Paradigms (Cont)





ISR FIO Functions

- Perform independent community analysis e.g.
 - Unclassified collection of AIS from space
 - Integrated NRO Architecture (INA) development effort
 - Maritime Domain Awareness Evaluation
- Develop a cross-community ISR Architecture
 - Different time epochs
 - Evaluate select mission threads
 - Perform select analysis of ISR investment proposals
 - Collaborate with DNI and liaison across community
 - Goal: an ISR architecture information repository for community use
- Support the Intelligence Collection Architecture (ICA) Effort
 - Core Team member
 - Member of select working groups



Recent ISR Related Activities and Assessments

- National Architecture Development
 - Integrated ISR Study – 2004/2005
 - Integrated Collection Architecture (ICA) participation – 2005-2008
- Decision support efforts
 - Space Radar Tiger Team – 2004
 - Next Generation IMINT/Space Radar evaluation – 2005
 - Navy Maritime Domain Awareness evaluation – 2005, 2006
 - NPOESS Nunn McCurdy evaluation – 2006
 - SBIRS Nunn McCurdy evaluation – 2006
 - SBIRAAS Architecture Alternatives Study – 2006
- Analysis support efforts
 - Defined ISR Architecture Key Capabilities attributes – 2006
 - Space Radar Capabilities Assessment Team participation – 2006
 - Supported DoD UAV Study - 2006
 - Navy MDA Assessment – 2005-2007
 - OSD NII warfighter modeling - 2007



Path to the Future

- Provide USD(I) an ISR architecture foundation for enterprise-wide analysis
- Cross community collaboration to provide stability and promote credibility
 - Repeatable analytic processes and decision support
 - Community-accepted, metrics-based assessments
- Establish an architecture framework to bridge all four current NSSO architecture efforts
 - Intelligence, Surveillance, and Reconnaissance (ISR)
 - Position, Navigation and Timing (PNT)
 - Communications (COMM)
 - Space Situational Awareness (SSA)/Space Control

