



# National Security Space Office

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**Planning for Space Support to  
Military Operations**



# Space Trends

## Then--Few

- Useful
- Advantageous
- Monolithic



- National Leadership



- Unchallenged
- Environmental



- Deliberate
- Stove-pipes



## Now--Many

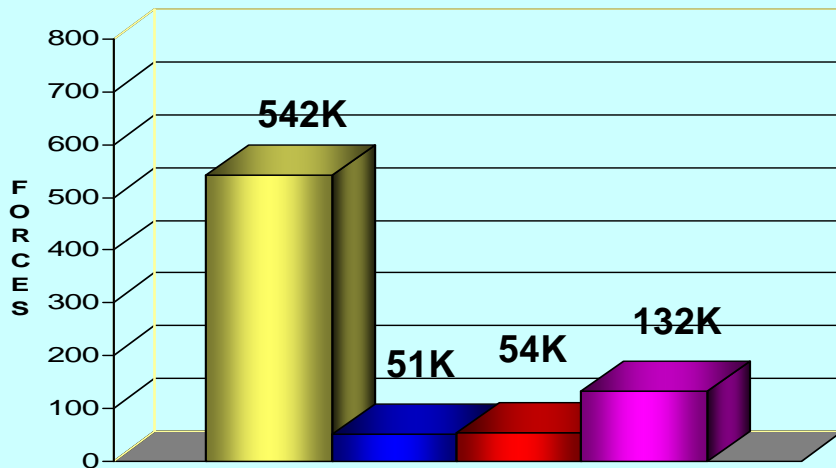
- Critical
- Indispensable
- Full-spectrum
  
- National Leadership
- Coalition Leadership
- All Command Elements
- Individual Joint Warfighter
  
- Multi-faceted
- Contested
- Crowded
  
- Dynamic
- Integrated
- Networked

*Space has become an integral part of military operations*

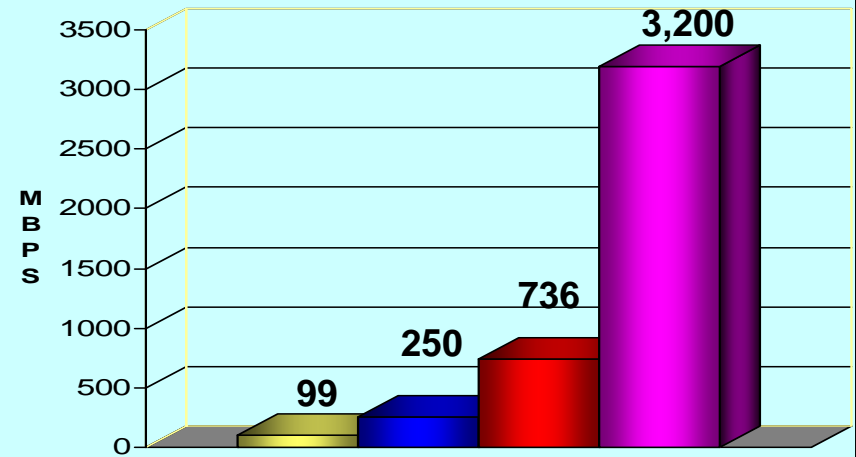


# Space Enabled Communications Critical To Security

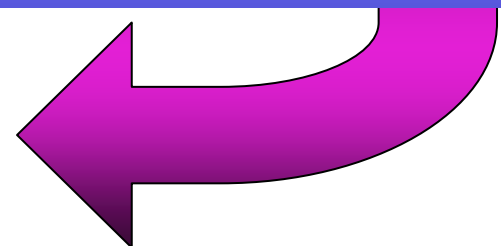
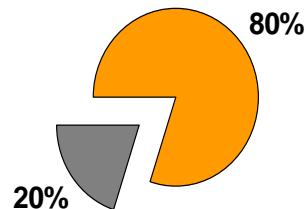
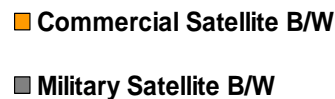
## Deployed Forces



## Commercial Satellite Services

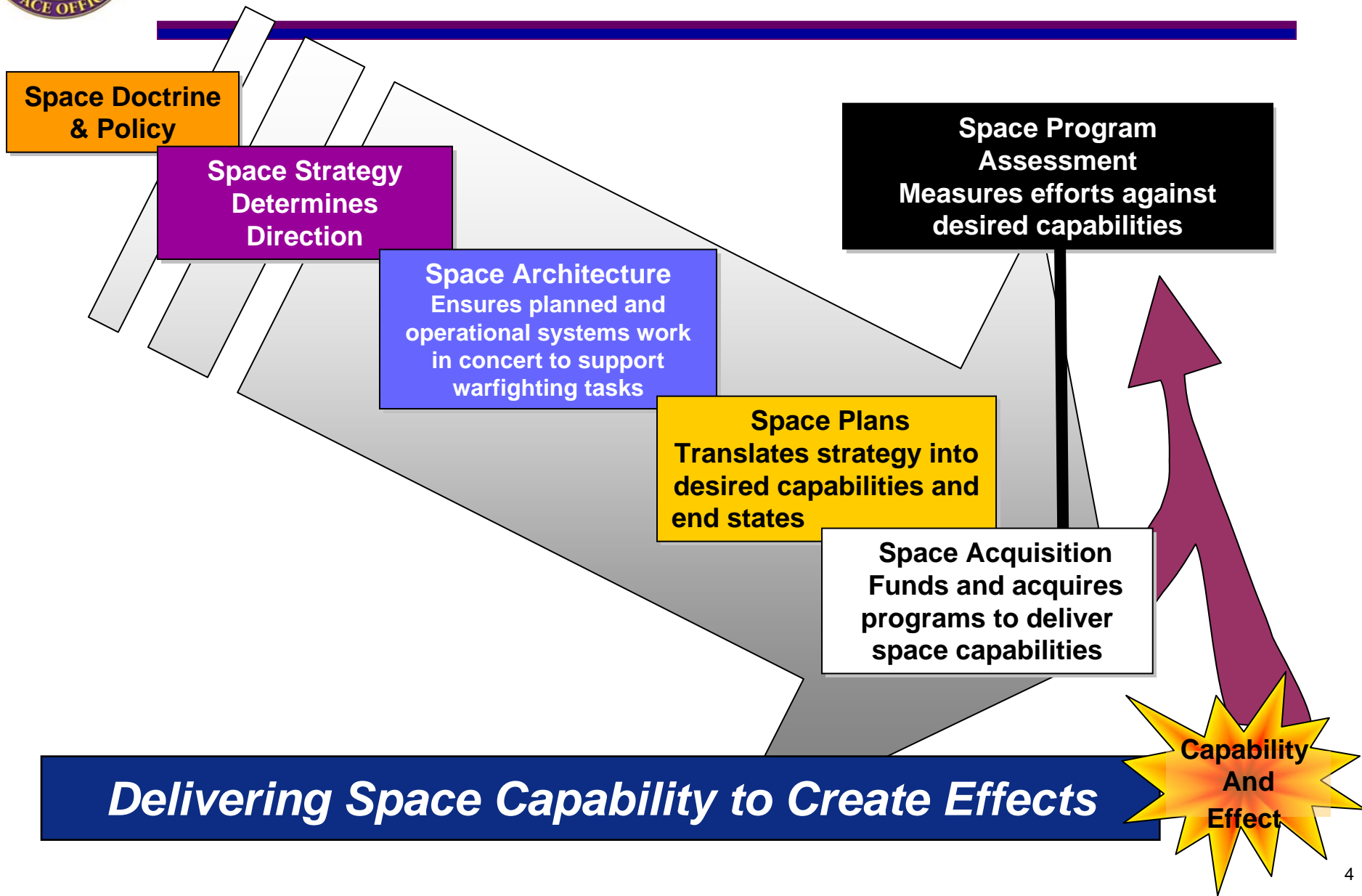


Source: Defense Information Systems Agency (DISA)



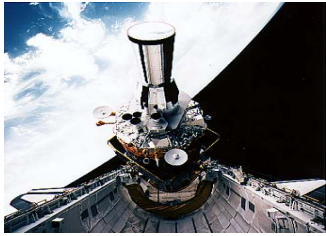


# Creating Security Space Effects





# Security Space Capability Categories



**Missile Warning /  
Defense**



**SATCOM**



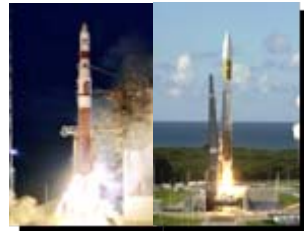
**Position,  
Navigation &  
Timing (PNT)**



**Intelligence, Surveillance  
& Reconnaissance (ISR)**



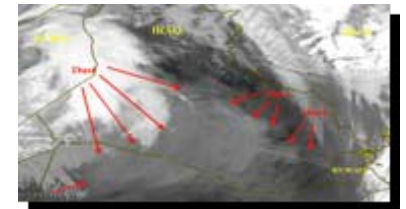
**Space Control**



**Space  
Access**



**Space C2**



**Environmental  
Monitoring**



**Force Application**

**Science & Technology  
Management (People, Infrastructure)  
Industrial Base**

**Enabling**

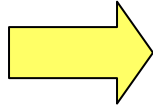


**Satellite Operations**

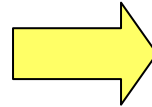


# Construct for Effects-Based Capabilities

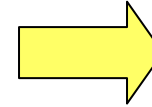
Policy



Concepts



Capabilities



***Effects***

## Senior Pol-Mil Level Interests

- Allow for peaceful use of space for Defense/Civil/Intelligence/Commercial
- Right of free passage
- Support to Warfighter
- Critical information to senior decision-makers
- Defend use of space
- Counter hostile acts
- Protect space missions and technologies

## Security Space

- Strategies
- Plans
- Architectures

- SATCOM
- MW
- ISR
- PNT
- Environment Monitoring
- Force App

Leveraging Space

- Space Control
- Space Access
- C2
- SATOPS

Operating In Space

- Enabling

Enabling Space