

# Space and U.S. National Security: What to Expect in 2022 and Beyond

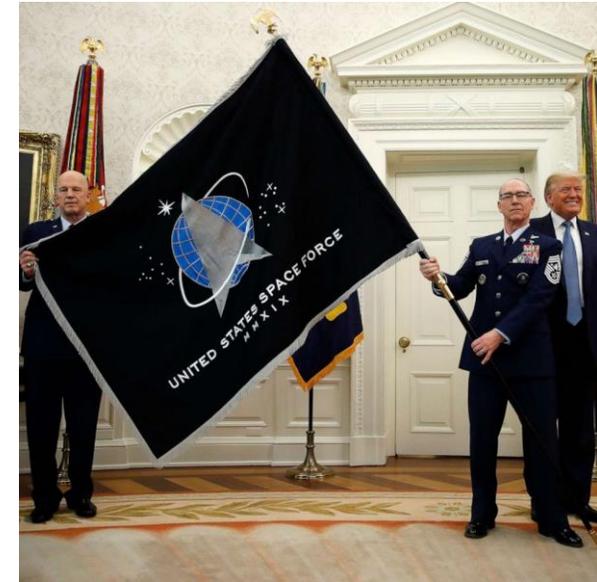
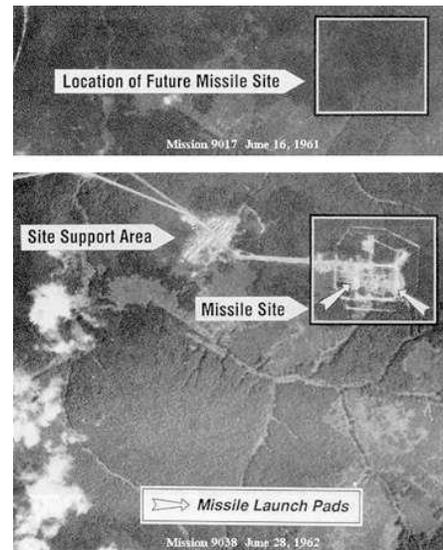
John Galer

3 | 15 | 2022



# How Did We Get Here?

From Schriever to Raymond



1954 to Present

# What is National Security Space?



**Department of Defense**  
Title 10

**Intelligence Community**  
Title 50

# NSS Missions



Position,  
Navigation, and  
Timing



Satellite  
Communications



Intelligence, Surveillance,  
Reconnaissance (ISR)



Environmental Monitoring



Missile Warning

# NSS Missions (cont.)



Spacelift



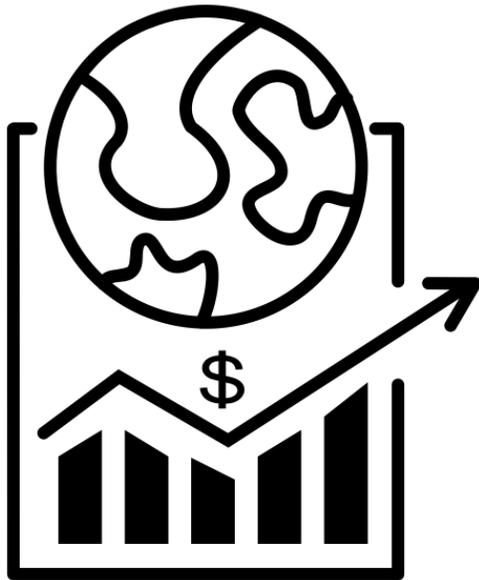
Space Electronic Warfare



Space Domain Awareness

# Why a Space Force?

## Dependence on Space



Economy



American Way of  
Life



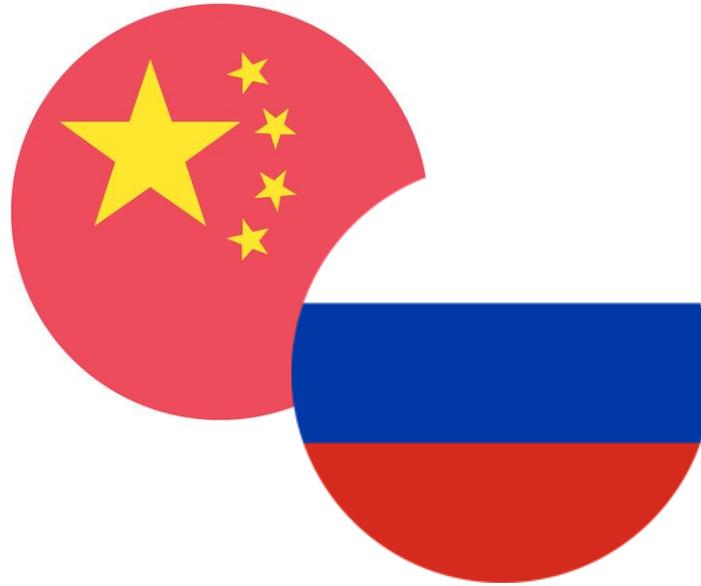
National Security

# Why A Space Force?

Space is Unique



Asymmetric Advantage



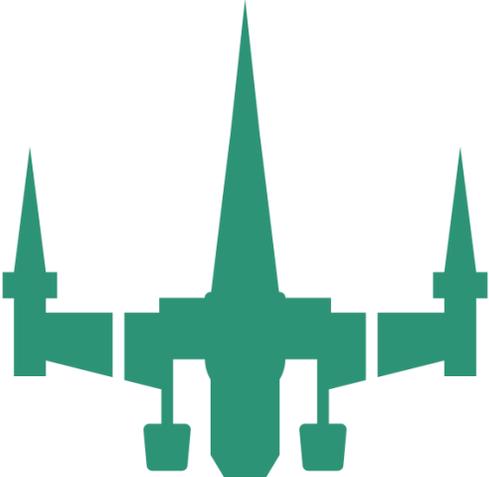
Evolving Threats



People & Tech

# Dispelling Myths

As Seen On TV?

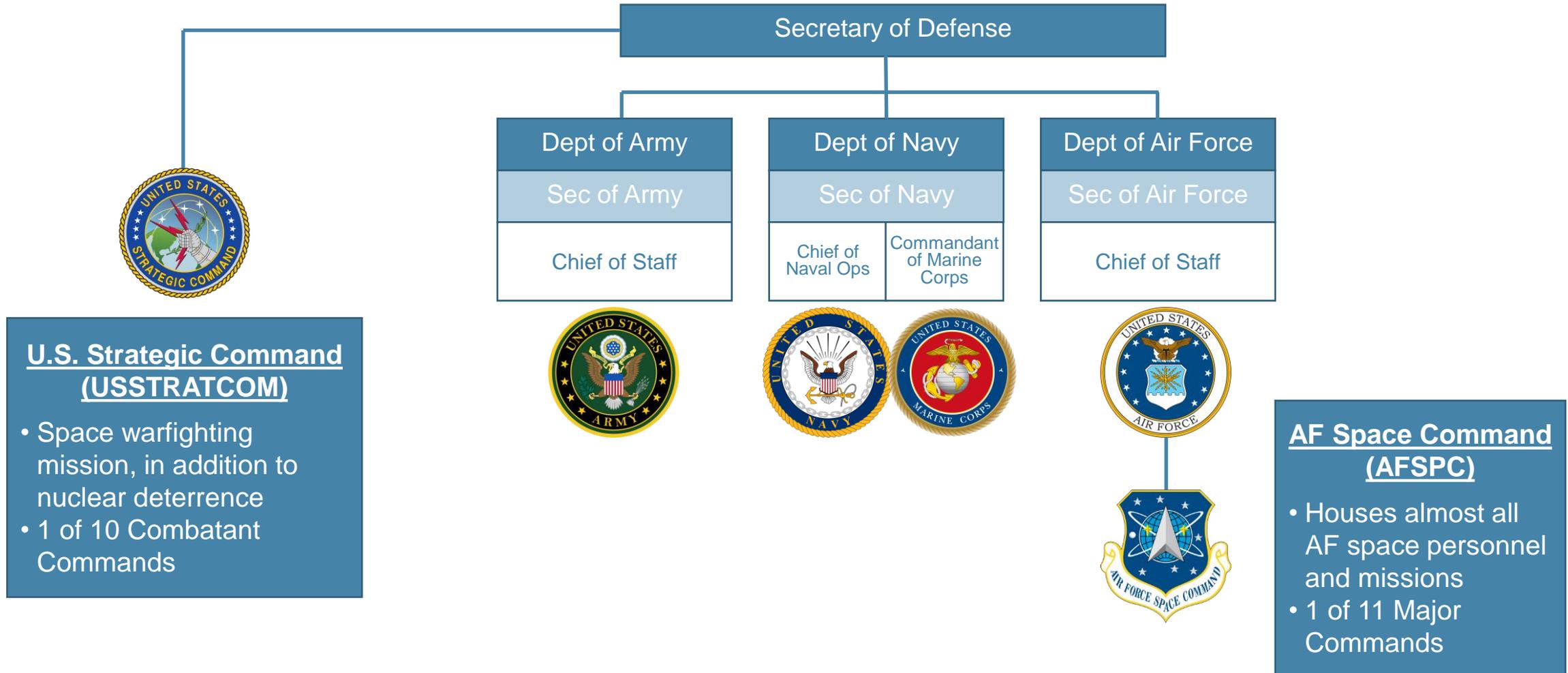


This



Not This

# Organization – 2019

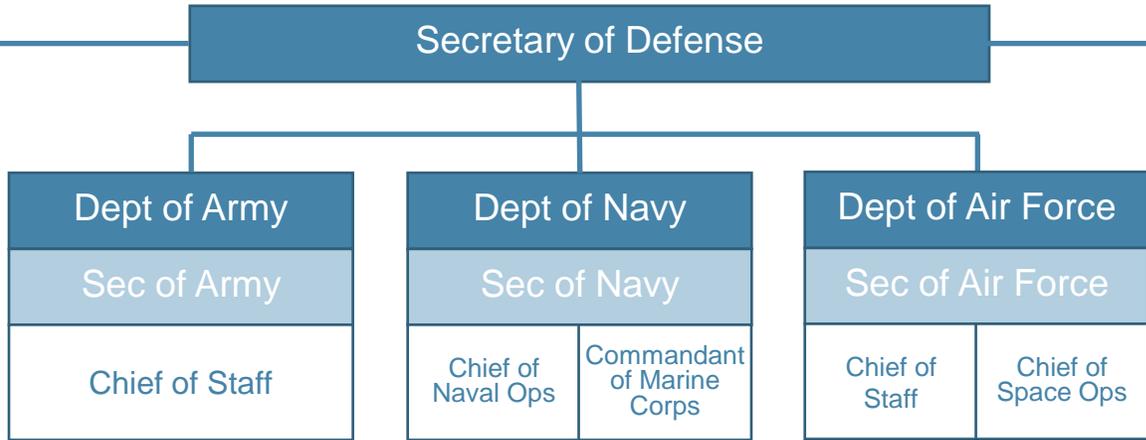


# Organization – 2022

**OSD Space Policy**

- FY21 NDAA elevated Space Policy to Assistant SecDef (ASD)

GEN Dickinson



Gen Raymond



**U.S. Space Command (USSPACECOM)**

- Est. Aug 2019
- Space warfighting mission
- 1 of 11 Combatant Commands
- HQ
  - Current – Colo Springs, CO
  - Future – Huntsville, AL



**Not in USSF**

- Army, Navy, Marines
- Reserve/Guard
- Space Development Agency
- NRO

**U.S. Space Force (USSF)**

- Est. Dec 2019
- Elevated from AFSPC
- 16k Members
- People & Systems
- HQ – Pentagon
- 3 Field Commands

# Other NSS Stakeholders



**White House**  
National Space  
Council

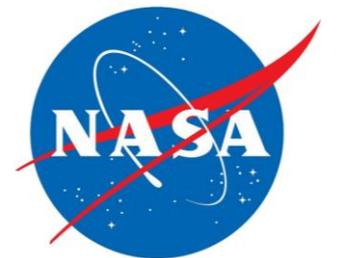
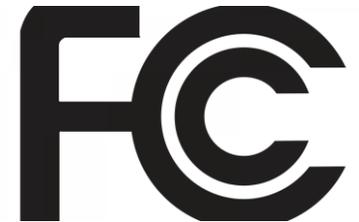


**Congress**  
8 Committees



**Dept of Commerce**  
Space Traffic Management

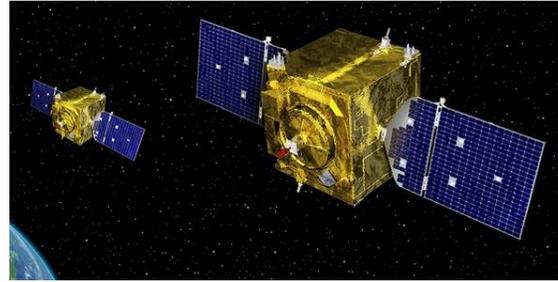
## Many Others



# Challenges – 2022 and Beyond



Threats



Norms and Behaviors



Space Sustainability



Partnerships



Pentagon Wars



Commercial Integration

# QUESTIONS?

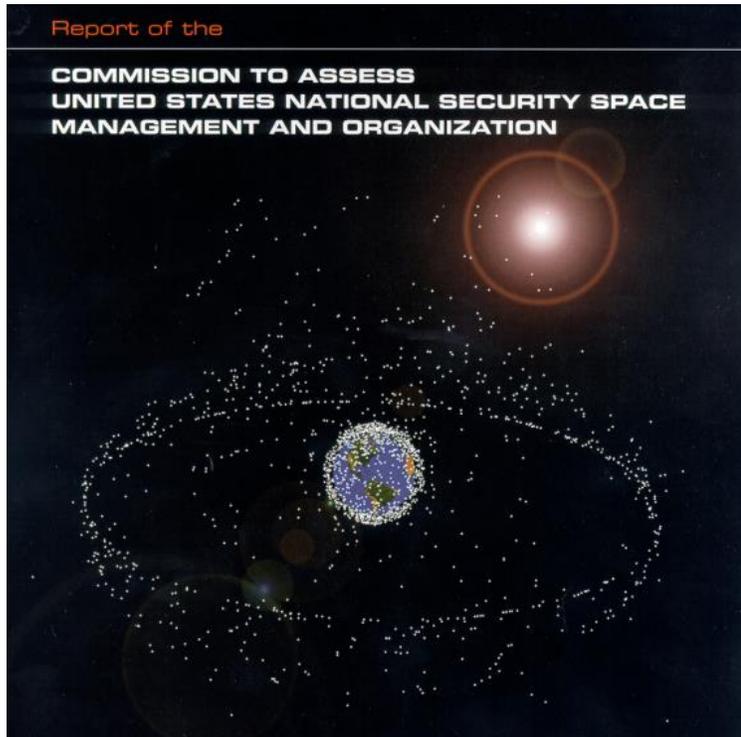
[john.galer@aia-aerospace.org](mailto:john.galer@aia-aerospace.org)



# BACKUP

# Organizational Reform...

...we've tried this before



Rumsfeld Commission  
2001



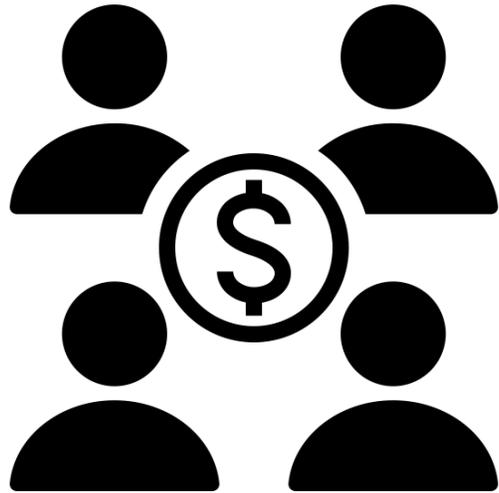
Allard Commission  
2008



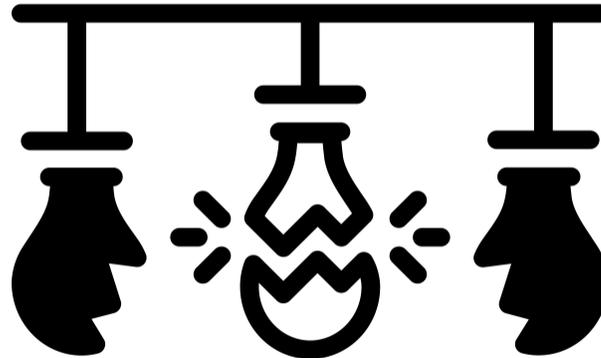
More Pentagon Efforts  
Than One Can Count

# Why a Space Force?

## Multitude of Reasons



Funding  
Prioritization



Broken Acquisition  
System

**GAO**

**Finding 1: DOD Space Acquisitions, Management, and Oversight Are Fragmented Across Approximately 60 Stakeholders<sup>12</sup>**

<p><b>DOD</b></p> <ul style="list-style-type: none"> <li>• Office of the Secretary of Defense</li> <li>• Under Secretary of Defense for Acquisition, Technology, and Logistics             <ul style="list-style-type: none"> <li>- Assistant Secretary of Defense, Acquisition</li> <li>- Assistant Secretary of Defense, Research &amp; Engineering</li> <li>- Deputy Assistant Secretary of Defense, Space, Strategic, &amp; Intel Systems</li> <li>- Deputy Assistant Secretary of Defense, C3, Cyber, &amp; Business Systems</li> <li>- Performance Assessments &amp; Root Cause Analyses</li> </ul> </li> <li>• Under Secretary of Defense for Intelligence             <ul style="list-style-type: none"> <li>- Under Secretary of Defense for Policy</li> <li>- Deputy Assistant Secretary of Defense, Space Policy</li> </ul> </li> <li>• Under Secretary of Defense (Comptroller)/Chief Financial Officer</li> <li>• Director, Cost Assessment and Program Evaluation</li> <li>• Director, Operational Test and Evaluation</li> <li>• Chief Information Officer             <ul style="list-style-type: none"> <li>- Defense Information Systems Agency</li> </ul> </li> </ul> <p>Joint Chiefs of Staff</p> <p>Secretary of the Air Force/ Principal DOD Space Advisor</p> <ul style="list-style-type: none"> <li>• Assistant Secretary of the Air Force, Acquisition             <ul style="list-style-type: none"> <li>- Deputy Assistant Secretary of the Air Force, Directorate of Space Programs</li> <li>- Program Executive Office, Space</li> </ul> </li> <li>• Deputy Under Secretary of the Air Force (Space)/Director, PDSA Staff</li> <li>• Air Force Cost Analysis Agency</li> <li>• Air Force Materiel Command             <ul style="list-style-type: none"> <li>- Air Force Research Laboratory</li> </ul> </li> <li>• Air Force Intelligence, Surveillance and Reconnaissance Agency             <ul style="list-style-type: none"> <li>- Air Force Technical Applications Center</li> </ul> </li> <li>• Air Force Space Command             <ul style="list-style-type: none"> <li>- Air Force Space and Missile Systems Center</li> <li>- 14th Air Force</li> </ul> </li> </ul> <p>Secretary of the Army</p> <ul style="list-style-type: none"> <li>• Army Space and Missile Defense Command             <ul style="list-style-type: none"> <li>- Program Executive Office, Missiles and Space</li> <li>- Army Research Laboratory</li> </ul> </li> </ul>	<p><b>DOD (continued)</b></p> <p>Secretary of the Navy</p> <ul style="list-style-type: none"> <li>• Assistant Secretary of the Navy for Research, Development and Acquisition             <ul style="list-style-type: none"> <li>- Office of the Chief of Naval Operations</li> <li>- Naval Research Laboratory</li> <li>- Program Executive Office, Space Systems</li> <li>- Office of Naval Research</li> </ul> </li> <li>U.S. Marine Corps, Plans, Policies and Operations</li> <li>U.S. Strategic Command             <ul style="list-style-type: none"> <li>• Joint Functional Component Command for Space</li> <li>Defense Advanced Research Projects Agency</li> <li>Defense Special Missile and Astronautics Center</li> <li>Missile Defense Agency</li> </ul> </li> </ul> <p><b>Executive Office of the President</b></p> <ul style="list-style-type: none"> <li>Office of Management and Budget</li> <li>Office of Science and Technology Policy</li> <li>National Security Council</li> </ul> <p><b>Intelligence Community</b></p> <ul style="list-style-type: none"> <li>Office of the Director of National Intelligence</li> <li>Central Intelligence Agency</li> <li>National Air and Space Intelligence Center</li> <li>Defense Intelligence Agency</li> <li>National Geospatial-Intelligence Agency</li> <li>National Reconnaissance Office</li> <li>National Security Agency</li> </ul> <p><b>Civilian Community</b></p> <ul style="list-style-type: none"> <li>Department of Commerce: National Oceanic and Atmospheric Administration</li> <li>Department of Energy: Lawrence Livermore, Los Alamos, and Sandia National Laboratories</li> <li>Department of State</li> <li>Department of Transportation: Federal Aviation Administration</li> <li>National Aeronautics and Space Administration</li> </ul>
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<sup>12</sup>Stakeholders are organizations that have a role and responsibility in defense space acquisition management or oversight, or are customers or users of defense space programs.

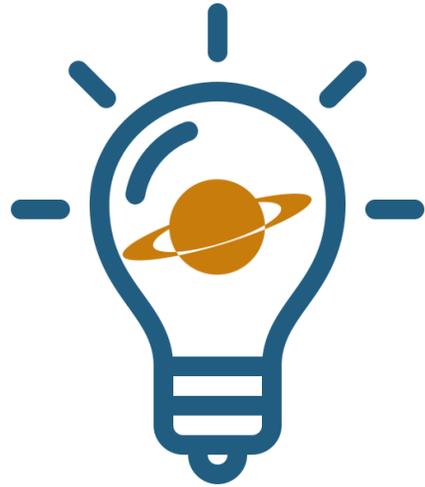
Fragmented  
Decision Making

# Why a Space Force?

## Threats



# Dispelling Myths

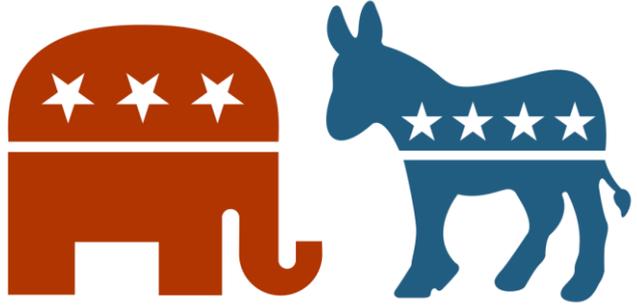


A New Idea?



Not Bipartisan?

# Immediate Opportunities and Challenges



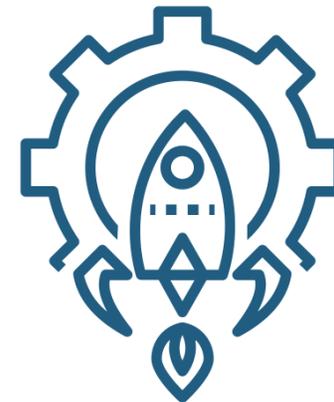
Maintain Bipartisan Support



Lean and mission-focused service



Attracting, training, and retaining workforce

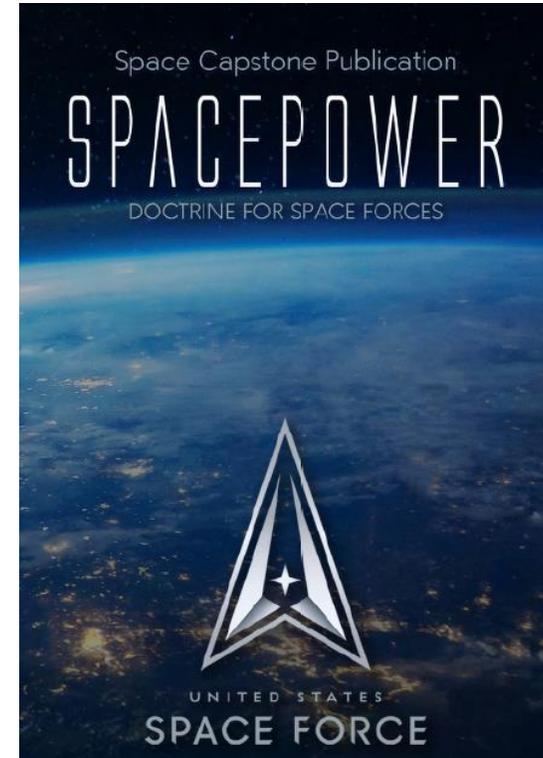


Leverage innovation and technology

# Strategy and Vision



2020 Defense Space Strategy



Space Capstone Publication