



THE HENRY L.  
STIMSON CENTER

# Space Weapons Spending

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Henry L. Stimson Center



**Budget Process**

**Space Spending**

**Programs to Watch**



**Budget Process**

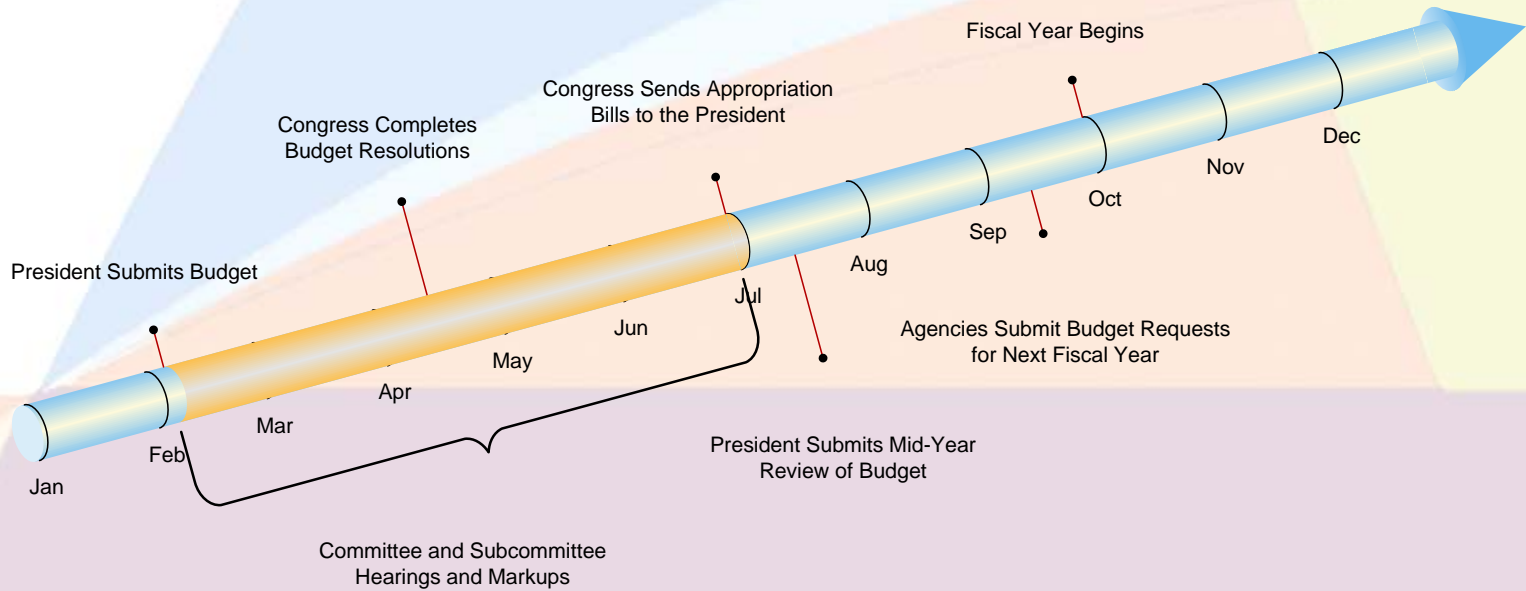
**Space Spending**

**Programs to Watch**

# Budget Process

## Space Spending Programs to Watch

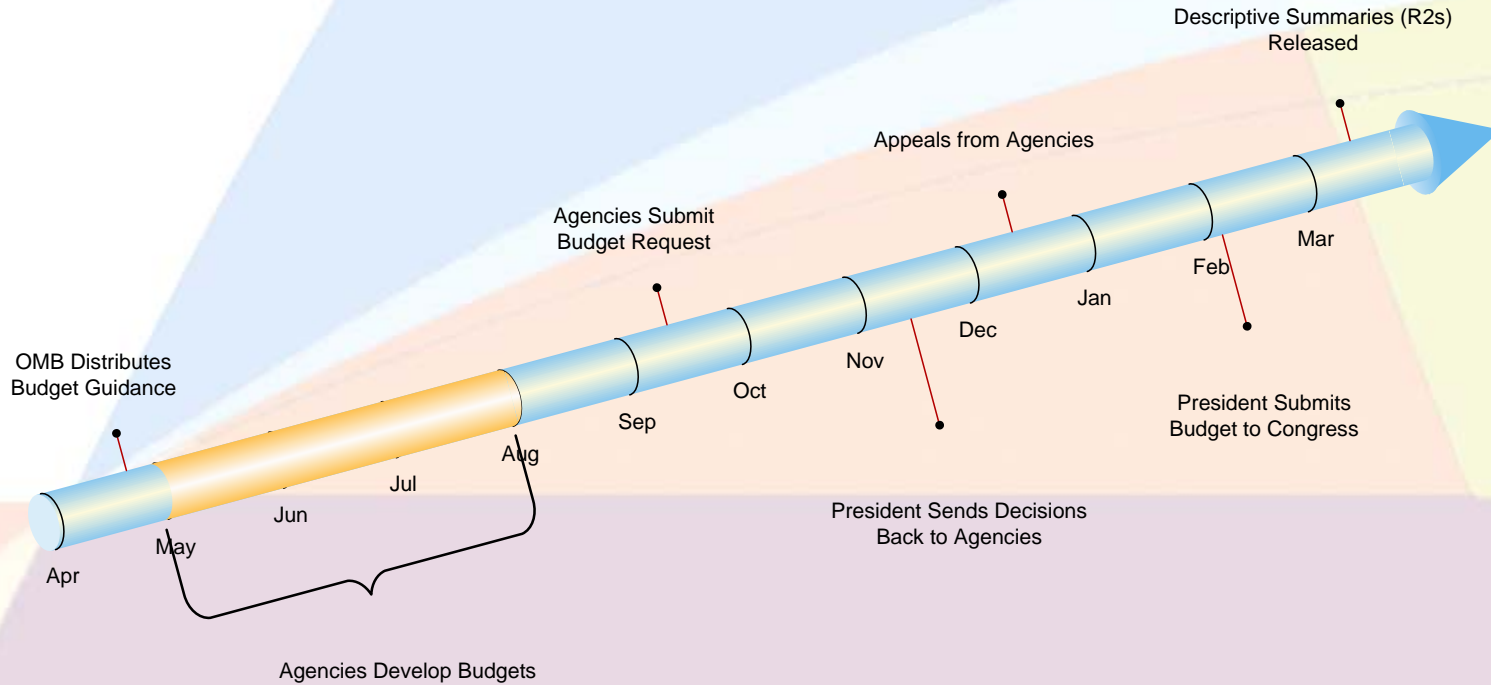
# Congressional Budget Process



# Budget Process

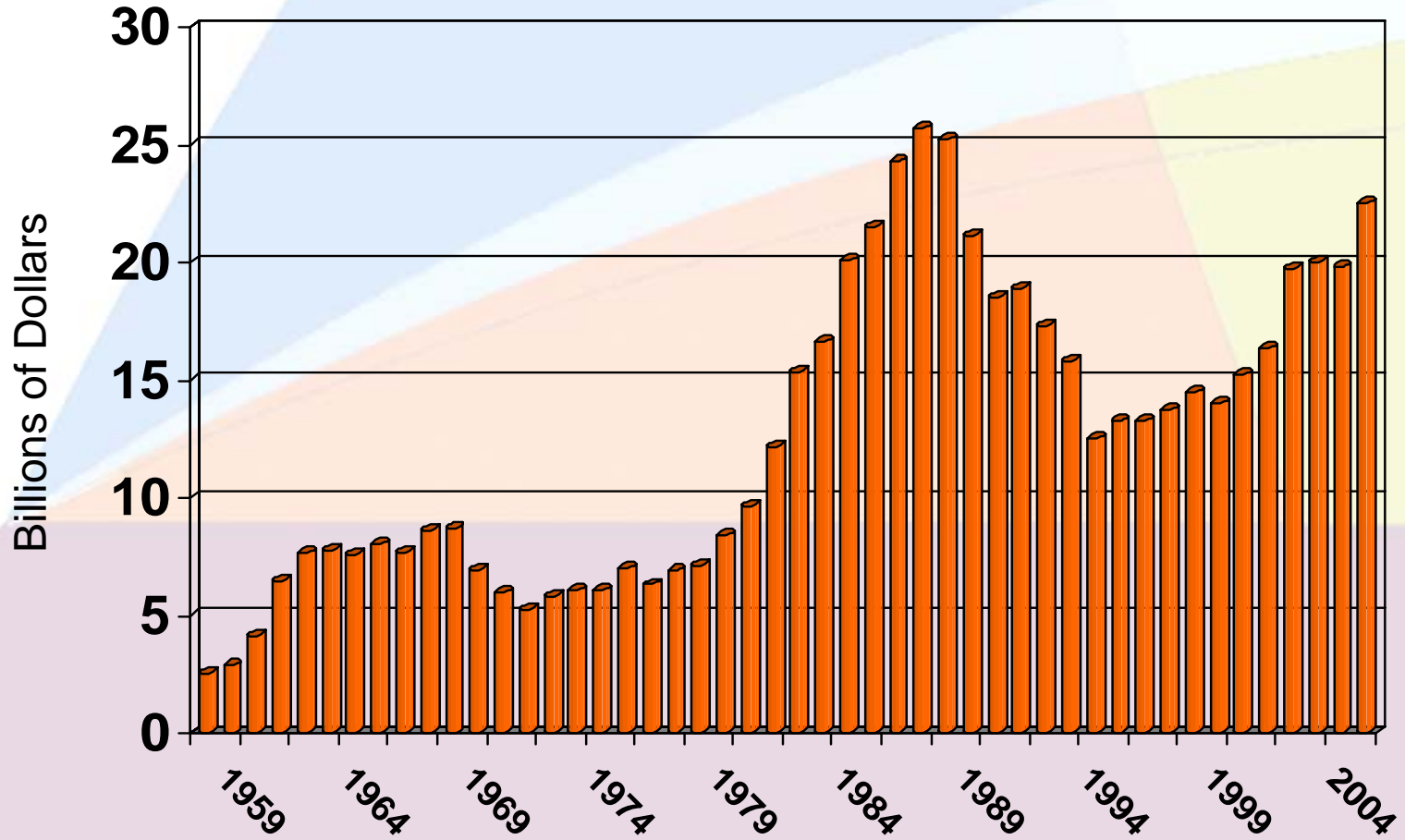
## Space Spending Programs to Watch

# Executive Budget Process



Budget Process  
Space Spending  
Programs to Watch

Total DoD Space Spending  
Source: NASA



Budget Process  
Space Spending  
Programs to Watch



Budget Process  
Space Spending  
Programs to Watch

High Energy Laser Advanced Technology Program

Operationally Responsive Space

Space & Missile Test and Evaluation Center

Advanced Weapons Technology

Advanced Spacecraft Technology

DoD High Energy Laser Test Facility

Directed Energy Technology

Space Control Technology

High Energy Laser Research

Space Technology

Space Programs and Technology

High Energy Laser Research Initiatives

Counterspace Systems



# Budget Process Space Spending Programs to Watch

## Descriptive Summaries (R2s)

UNCLASSIFIED

PE NUMBER: 0604421F

PE TITLE: Counterspace Systems

Exhibit R-2, RDT&E Budget Item Justification								DATE February 2006	
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604421F Counterspace Systems					
Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	25.351	29.074	47.292	49.104	106.061	109.470	100.842	Continuing	TBD
A001 Counter Satellite Communications System	5.971	6.225	16.010	17.848	29.880	31.620	21.692	Continuing	TBD
A002 Counter Surveillance Reconnaissance System	0.209	0.000	0.000	0.000	0.000	0.000	0.000	0.000	49.694
A003 Rapid Identification Detection and Reporting System (RAIDRS)	15.789	17.949	24.146	23.989	68.701	70.221	71.368	Continuing	TBD
A005 Offensive Counterspace (OCS) C2	3.382	4.900	7.136	7.267	7.480	7.629	7.782	Continuing	TBD

**(U) A. Mission Description and Budget Item Justification**

This program supports the conduct of critical planning, technology insertion, and system acquisition in support of Air Force space control systems and associated command and control development to meet current and future military space control needs. Development and acquisition of counterspace systems will be conducted, capitalizing on the technology development and risk reduction efforts of PE 0603438F, Space Control Technology. This funding supports all phases of the acquisition process: concept development, risk reduction, design, demonstration, and production. Space control systems include both offensive counterspace (OCS) and defensive counterspace (DCS) systems. OCS systems include the means to disrupt, deny, degrade, or destroy an adversary's space systems, or the information they provide, which may be used for purposes hostile to U.S. national security interests. DCS systems include both active and passive measures to protect U.S. and friendly space related capabilities (satellites, communications links, and supporting ground systems) from enemy attack or interference. This includes development efforts to prevent adversarial ability to use U.S. space systems and services for purposes hostile to U.S. national security interests.

Budget Process  
Space Spending  
Programs to Watch

Long Process

Look for Contours

Don't Read Into Slight Changes

Budget Process  
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## Starfire Optical Range (SOR)



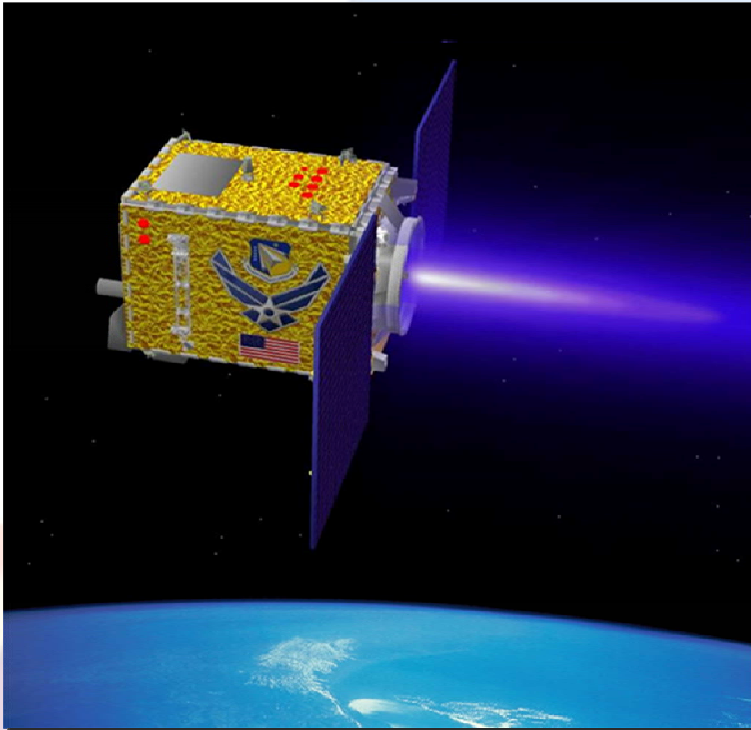
“fully compensated  
beam propagation to  
Low-Earth orbit  
satellites”

“experiments for  
application including  
antisatellite weapons”

“weapons class beam  
director”

Budget Process  
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Programs to Watch

## Experimental Spacecraft System (XSS)



Proximity operations

Currently on-orbit

FY07 calls for follow-on  
missions

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## Near Field Infrared Experiment (NFIRE)

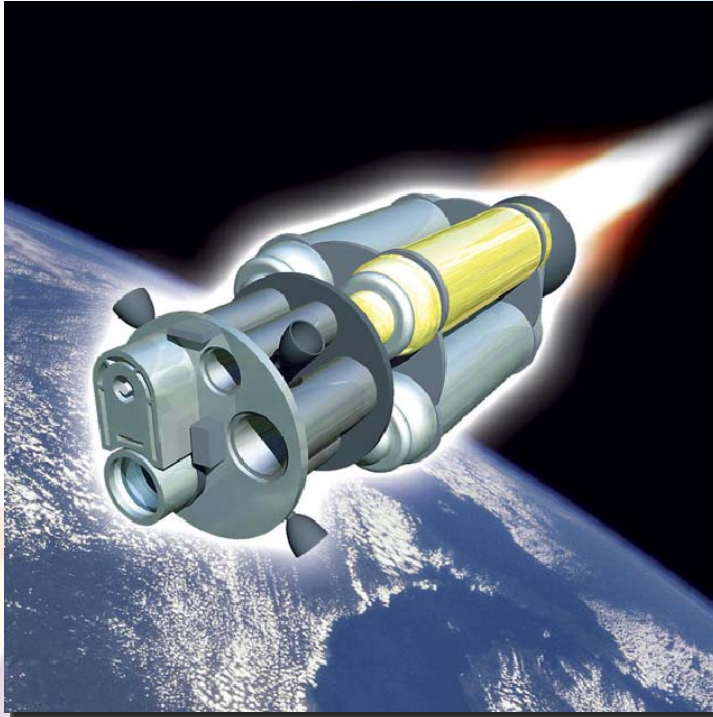
Measure plume of  
boosting missile

Kill vehicle to attempt  
engagement

KV replaced by laser  
communication payload

Congress called for KV  
to be restored in 2005 –  
KV included in FY07  
budget

## Space Based Interceptor Test Bed



Initially decision delayed until  
after '08 election

FY07 budget justification calls  
on \$45 Million in FY08

Budget predicts “several  
hundred satellites”

Congressional action





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### Microsatellite Propulsion Experiment Industry Day

#### STATUS REPORT

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Classification Code: A -- Research & Development

Naics Code: 541710 -- Research and Development in the Physical, Engineering

Contracting Office Address

Distributed sensing

Propulsion experiment

“Target Risk-Reduction”  
using a microsatellite as  
an interceptor target

Budget Process  
Space Spending  
Programs to Watch

Autonomous Nanosatellite Guardian  
for Evaluating Local Space (ANGELS)



Geostationary

FY07 “defensive  
technology space  
demonstration and post  
flight analysis”





Space Weapons Then

Space Weapons Now?

Space Weapons When?