

Sensing and Analysis for Adversary-Informed Acquisition

Naval Postgraduate School, Acquisition Research Symposium
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Our position is that the nation which better thinks through how it will compete with its opponent over time, which is more flexible and adaptive, and which is better organized to exploit future opportunities will get ahead and remain ahead over the long term

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- Andrew Marshall & Jim Roche, 1976



Methodology



Acquisition as a Domain of Strategic Competition

“The \$842 billion fiscal year 2024 budget request for the Defense Department is

driven in large part by strategic competition with China,

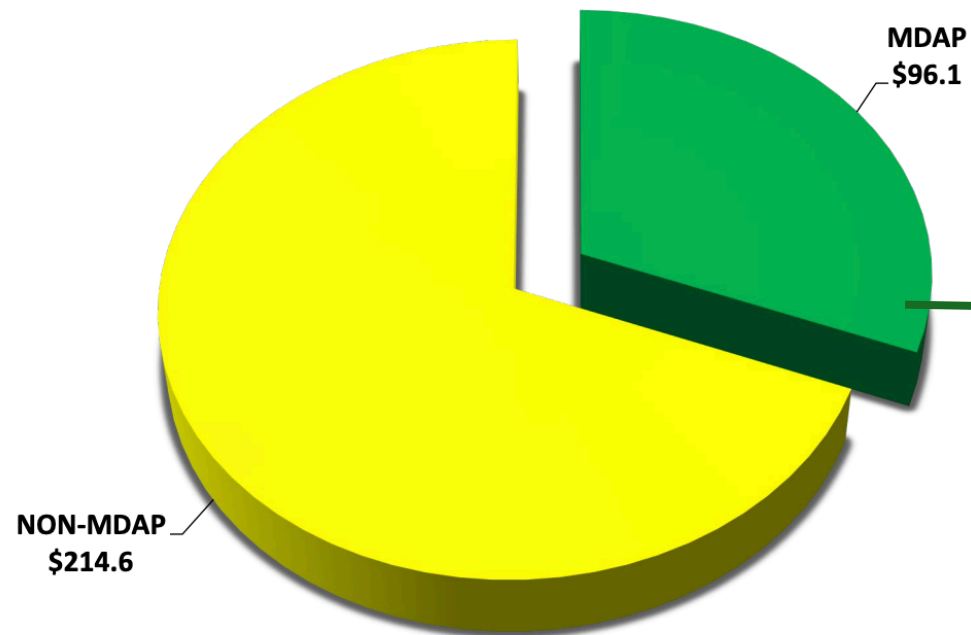
Secretary of Defense Lloyd J. Austin III said.”



US Major Defense Acquisition Programs

**Major Defense Acquisition Programs
Total Requested Procurement and RDT&E Funding During FY 2025
for MDAP* and Non-MDAP Programs**

\$ in Billions



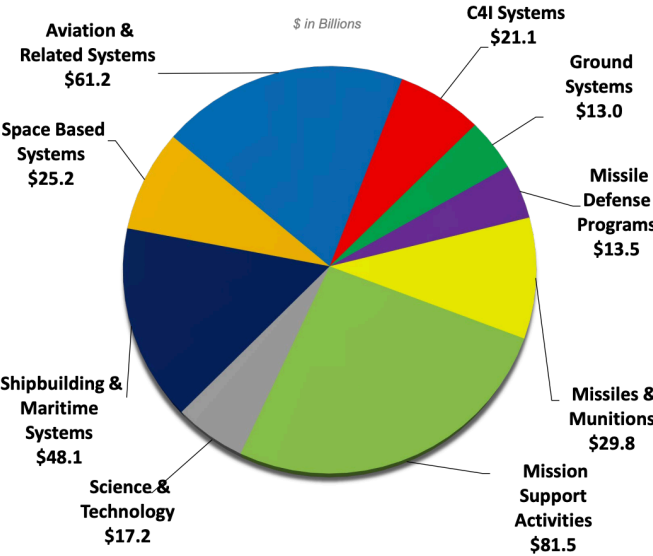
Adversary-Informed Acquisition

1
US programs
& investment

2
PRC responses

3
Specific
sensitivities

FY 2025 Investment Total: \$310.7 Billion



Designation	Name	Category	Service	Unweighted Results	Selected Term	Initial Characters
F-35	Joint Strike Fighter	Aircraft and Related Systems	Joint	732	"Joint Strike Fighter"	联合攻击战斗机
V-22	Osprey	Aircraft and Related Systems	Joint	50	鱼鹰	鱼鹰
C-130J	Hercules	Aircraft and Related Systems	Joint	109	C-130	赫拉克勒斯
MQ-1C	Gray Eagle	Aircraft and Related Systems	Joint	15	灰鹰	灰鹰
MQ-9	Reaper	Aircraft and Related Systems	Joint	126	MQ-9	收割者
MQ-4C / RQ-4	Yinton Global Hawk NATO AGS	Aircraft and Related Systems	Joint	1620	"Global Hawk"	全球鹰
AD	Armed Overwatch Targeting	Aircraft and Related Systems	Joint	0	武装守望先鋒瞄准	武装守望先鋒瞄准
AH-64E	Apache	Aircraft and Related Systems	Army	59	阿帕奇	阿帕奇
CH-47	Chinook	Aircraft and Related Systems	Army	31	奇努克	奇努克
UH-60	Black Hawk	Aircraft and Related Systems	Army	1292	"Black Hawk"	黑鹰
FLRAA	Future Long-Range Assault	Aircraft and Related Systems	Army	4	FLRAA	未来的远程攻击
MQ-25	Stingray	Aircraft and Related Systems	Navy	13	MQ-25	黄貂鱼
F/A-18	Super Hornet	Aircraft and Related Systems	Navy	527	Super Hornet	超级大黄蜂
E-2D	Advanced Hawkeye	Aircraft and Related Systems	Navy	15	E-2D	高级鹰眼
CH-53K	Heavy Lift Replacement Helicopter	Aircraft and Related Systems	Navy	15	CH-53	重型替换直升机
B-21	Raider	Aircraft and Related Systems	Air Force	71	B-21	勇士者
B-1, B-2, B-52	Bombers	Aircraft and Related Systems	Air Force	251	B-2	隐身机
KC-46A	Pegasus	Aircraft and Related Systems	Air Force	30	KC-46	飞马牌
VC-25B	Presidential Aircraft Recapitalization	Aircraft and Related Systems	Air Force	166	F-22	总统专机资本重组
F-22	Raptor	Aircraft and Related Systems	Air Force	190	F-15	猛禽
F-15	Eagle	Aircraft and Related Systems	Air Force	0	F-15	鹰
HH-60W	Combat Rescue Helicopter	Aircraft and Related Systems	Air Force	10	T-7A	战斗救援直升机
T-7A	Advanced Pilot Training	Aircraft and Related Systems	Air Force	2	MH-139A	高级飞行员培训
MH-139A	Grey Wolf	Aircraft and Related Systems	Air Force	1520	airborne early warning	灰狼
E-7A	Airborne Warning and Control System Replacement	Aircraft and Related Systems	Air Force	14	c-40	机载警告和控制系更換
C-40	C-40 Fleet Expansion	Aircraft and Related Systems	Air Force	7	联合轻型战术车	C-40 机队扩展
TNT	Tactical Network Technology	C4I Systems	Army	154	M-1	战术网络技术
HMS	Handheld, Manpack, and Small Form Fit Radios	C4I Systems	Army	1	AMPV	便携式、背包式和小型收音机
Cyberspace	Cyberspace Activities	C4I Systems	Joint	77	M10	网络空间活动
CIAD/C2	CIAD/C2 Programs	C4I Systems	Joint	1	AMPV	CIAD/C2 程序
ATV	Joint Light Tactical Vehicle	Ground Systems	Joint	1	AMPV	联合轻型战术车
M-1	Abraams Tank Modification	Ground Systems	Army	1	AMPV	艾布拉姆斯坦克改装
AMPV	Armored Multi-Purpose Vehicle	Ground Systems	Army	1	AMPV	装甲多用途车
NGSW	Next Generation Squad Weapon	Ground Systems	Army	1	AMPV	下一代小队武器
PMI	Paladin Integrated Management	Ground Systems	Army	1	AMPV	圣骑士综合管理
Stryker	Stryker Family of Armored Vehicles	Ground Systems	Army	1	AMPV	史崔克系列装甲车
M10	M10 Booker	Ground Systems	Army	1	AMPV	M10布克
FMTV	Family of Medium Tactical Vehicles	Ground Systems	Army	1	AMPV	中型战术车辆系列
FMTV	Family of Heavy Tactical Vehicles	Ground Systems	Army	1	AMPV	重型战术车辆系列

2021年专题 / 听党指挥 奋斗强军 / 科技强军 / 正文

不同搭载平台上的动能武器，以身相搏的“极速杀手”

来源：中国军网-解放军报 作者：李 博 李长海 李昊野 责任编辑：刘秋丽

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天基、机载、陆基、舰载，不同搭载平台上的动能武器——

以身相搏的“极速杀手”

■ 李 博 李长海 李昊野



Learning from Adversary Reactions



DOMAIN INSIGHTS

- Sea, air, ground prioritization
- Platform vs system



CAPABILITY INSIGHTS

- Responses to unmanned vs. manned systems.
- Offensive vs. defensive capabilities



INFORMING ACQUISITION

- Interaction between intelligence and acquisition
- Timing of intelligence intervention

