

CERTAINTY

NASDAQ: AVAV



AEROVIRONMENT, INC.

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Safe Harbor Statement

Certain statements in this presentation may constitute "forward-looking statements" as that term is defined in the Private Securities Litigation Reform Act of 1995. Forward-looking statements include, without limitation, any statement that may predict, forecast, indicate or imply future results, performance or achievements, and may contain words such as "believe," "anticipate," "expect," "estimate," "intend," "project," "plan," or words or phrases with similar meaning. Forward-looking statements are based on current expectations, forecasts and assumptions that involve risks and uncertainties, including, but not limited to, economic, competitive, governmental and technological factors outside of our control, that may cause our business, strategy or actual results to differ materially from the forward-looking statements.

Factors that could cause actual results to differ materially from the forward-looking statements include, but are not limited to, the impact of our ability to successfully close and integrate acquisitions into our operations and avoid disruptions from acquisition transactions that will harm our business, including the pending acquisition of Tomahawk Robotics; the recording of goodwill and other intangible assets as part of acquisitions that are subject to potential impairments in the future and any realization of such impairments: any disruptions or threatened disruptions to our relationships with our distributors, suppliers, customers and employees, including shortages in components for our products: the ability to timely and sufficiently integrate international operations into our ongoing business and compliance programs: reliance on sales to the U.S. government, including uncertainties in classification, pricing or potentially burdensome imposed terms for certain types of government contracts; availability of U.S. government funding for defense procurement and R&D programs; changes in the timing and/or amount of government spending, including due to continuing resolutions; adverse impacts of a U.S. government shutdown; our reliance on limited relationships to fund our development of HAPS UAS; our ability to perform under existing contracts and obtain new contracts; risks related to our international business, including compliance with export control laws; potential need for changes in our long-term strategy in response to future developments; the extensive and increasing regulatory requirements governing our contracts with the U.S. government and international customers; the consequences to our financial position, business and reputation that could result from failing to comply with such regulatory requirements; unexpected technical and marketing difficulties inherent in major research and product development efforts; the impact of potential security and cyber threats or the risk of unauthorized access to and resulting misuse of our, our customers' and/or our suppliers' information and systems; changes in the supply and/or demand and/or prices for our products and services; increased competition; uncertainty in the customer adoption rate of commercial use unmanned aircraft systems; failure to remain a market innovator, to create new market opportunities or to expand into new markets; unexpected changes in significant operating expenses, including components and raw materials; failure to develop new products or integrate new technology into current products; any increase in litigation activity or unfavorable results in legal proceedings, including pending class actions; our ability to respond and adapt to unexpected legal, regulatory and government budgetary changes, including those resulting from the COVID-19 pandemic or future pandemics, such as supply chain disruptions and delays, potential governmentally-mandated shutdowns, travel restrictions and site access, diversion of government resources to non-defense priorities, and other business restrictions affecting our ability to manufacture and sell our products and provide our services; our ability to comply with the covenants in our loan documents; our ability to attract and retain skilled employees; the impact of inflation: and general economic and business conditions in the United States and elsewhere in the world: and the failure to establish and maintain effective internal control over financial reporting. For a further list and description of such risks and uncertainties, see the reports we file with the Securities and Exchange Commission. We do not intend, and undertake no obligation, to update any forward-looking statements, whether as a result of new information, future events or otherwise.

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AeroVironment At-A-Glance

Pureplay unmanned systems company providing air and ground vehicle solutions for defense and commercial markets

50+ years of groundbreaking innovation since 1971

HQ in Arlington, VA

**** ~1,300** employees

2.5B+ enterprise value

Global footprint with sales to **50+ allied nations**



AVAV Operates Five Business Units in 3 Segments



SUAS

Small Unmanned Aircraft Systems The dominant global supplier of Group 1 unmanned aircraft used for ISR with sales to over 50 allied nations



MUAS

Medium Unmanned Aircraft Systems A market leading domestic supplier of Group 2 and Group 3 unmanned aircraft and associated ISR COCO services



UGV

Unmanned Ground Vehicles

Leading international supplier of small and medium sized unmanned ground vehicles used for explosive ordnance disposal and handling of hazardous materials



LMS

Loitering Munition Systems

Category innovator and current domestic leader of loitering munitions with recent approvals to sell to over 50 allied nations. Switchblade 300 & 600 are leading products.



MW

MacCready Works

Develops cutting edge technologies to deploy within current portfolio including Al, Machine Learning and Autonomy. Primary U.S. Defense Classified and Unclassified Projects. This also includes our HAPS product a High Altitude Pseudo Satellite for Telecommunications and Defense applications. Explores adjacent market opportunities and incubates potential new business segments.



AVAV's Inorganic Evolution



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AeroVironment

Last Twelve Months Results – Through Q1 FY24



¹ Refer to Reconciliation of Non-GAAP Adjusted Gross Margin on Appendix A ² Refer to Reconciliation of Non-GAAP Adjusted EBITDA on Appendix B. ³ Refer to Reconciliation of Non-GAAP Diluted Earnings Per Share on Appendix D.

Record funded backlog of \$540 million as of July 29, 2023



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AeroVironment is Poised for Organic Double-digit Growth in FY24

As of 9/5/2023	Fiscal Year 2023 Results	FY24 Guidance	Expected % Change (to midpoint)		
Revenue	\$541 million	\$645 million - \$675 million	22%		
Net Income/(Loss)	(\$176 million)	\$51 million – \$59 million			
Adjusted EBITDA ¹	\$90 million	\$117 million – \$127 million ⁴	35%		
Earnings/(Loss) Per Share (diluted)	(\$7.04)	\$1.91 – \$2.21			
Non-GAAP Earnings Per Share (diluted)	\$1.26 ²	\$2.30 - \$2.60 ³	94%		
R&D as % of Revenues	12%	11%-12%			
SG&A as % of Revenues ⁵	15%	15%-16%			

¹ Refer to Adjusted EBITDA reconciliation on Appendix B.

² Refer to Reconciliation of Non-GAAP Diluted Earnings Per Share on Appendix C.

³Refer to Reconciliation of Fiscal Year 2024 Forecast Non-GAAP Diluted Earnings Per Share on Appendix D

⁴ Refer to Reconciliation of Non-GAAP Fiscal Year 2024 Adjusted EBITDA Expectations on Appendix E.

⁵Excludes any Acquisition related and Intangible Amortization expenses



Introducing Scott Newbern



Joined AeroVironment in 1997

• Vice President & Chief Technology Officer (CTO) since 2018

Held multiple leadership positions within AV

- VP and GM of SUAS business
- Founder of MacCready Works Advanced Programs Segment
- Product development and manufacturing

Stablished industry veteran

- BoD for Association for Uncrewed Vehicle Systems International (AUVSI)
- Member Business Executives for National Security (BENS)
- Advisory Board of Aviation Unmanned Vehicle Museum (AUVM)

B.S. and M.S. in Aerospace Engineering from North Carolina State University



AUTONOMY AND AI IN SUPPORT OF INTELLIGENT ROBOTIC OPERATIONAL CAPABLITY

Artificial Intelligence





artificial (adjective)

made or produced by human beings rather than occurring naturally

intelligence (noun)

the ability to acquire and apply knowledge and skills

Thus, **Artificial Intelligence (AI)** is the theory and implementation of systems, created by humans, capable of "acquiring knowledge" and applying that knowledge in ways that <u>mimic human intelligence</u>

What Is Artificial Intelligence?

- Currently AI means everything and nothing (and thus makes for a fantastic buzz word)
- Current popular media references to AI are oriented towards data science which leverage artificial neural network methodologies
- AI in autonomous systems can mean Computer Vision (CV), Machine Learning (ML), decision making, natural language processing, and knowledge-based representations of data
- One common thread in AI is that machines host representations ("models") of concepts from data
- A machine uses AI to transform inputs to outputs

Al is a set of data science tools that provide utility and capability for autonomous systems



Al Hype Cycle - 2023





Notable Moments In How We Got Here





What is Autonomy and Why Do We Need It?

Autonomy: freedom from external control or influence; independence

In the context of unmanned/robotic systems this means:

- Safe: The system can operate safely without constant oversight and stay within its own limitations
- Cognitive: The system understands it's role in the context of the mission and performs that function
- Dynamic: The system can adapt to unexpected situations or a change in mission status
- System: Autonomy is a system consisting of multiple components that have to work together

Primary Goal: Provide a beneficial operational capability that does not add to physical or cognitive load



- Advanced multi-domain mission operations
 - Cross-domain
 - All-domain
 - Integrated operations across forces

Contested environments

- Radio frequency spectrum challenges
- Assured precision navigation and timing
- Collaborative mission capability
- Operator independent mission capabilities
- Dynamic escalation

Progression of Autonomy Levels









Wired April 10, 2023 – Driverless Cars Clogging San Francisco

https://www.wired.com/story/dashcam-footage-shows-driverless-cars-cruise-waymo-clogging-san-Francisco/











How Good Does it Need to Be?





Raven CBDEWS (ca 2008)





Quantix-team Demonstration

- Overhead, comms-dark ISR
- Targeted photogrammetry at the edge
- "Carrier pigeon" collection 0 from distributed sensors







Importance of Multi-Domain Data Sharing



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UxS AI Enabled Software Capabilities

- Software augments existing systems and enables novel applications with operationally relevant capabilities:
 - Detection / Classification
 - Target Geolocation and Tracking
 - Other / Advanced Analytics
 - Active Perception / Taskable Perception
- Applications span multiple domains and roles
 - ISR and Targeting
 - Guidance / Navigation
 - Robot perception













The Next Level West Vancouver

Gigapixel - 1739 Megapixels



- Why is Intelligence, Surveillance, and Reconnaissance (ISR), the way it is?
- Next level processing and analytics will evolve our platforms to the next phase
- AI / Autonomy provide exponentially more information and effectiveness and transform the operator's role





The Next Level





The Next Level





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QUESTIONS

FINANCIAL TABLES

(in thousands)	FY19	FY20	FY21	FY22	FY23	LTM
Adjusted Gross Margin						
Gross Margin	\$128,403	\$153,102	\$164,558	\$141,236	\$173,513	\$205,460
Intangible Amortization	-	\$2,284	\$4,452	\$18,429	\$13,891	\$13,306
Adjusted Gross Margin	\$128,403	\$155,386	\$169,010	\$159,665	\$187,404	\$218,766
Adjusted Gross Margin % of Revenue	40.9%	42.3%	42.8%	35.8%	34.7%	37.4%



	FY19	FY20	FY21	FY22	FY23	LTM
Net income (loss) from continued operations (1)	\$ 41,912	\$ 41,339	\$ 23,331	\$ (4,188)	\$ (176,212)	\$ (145,922)
Interest Expense (Income)/net	(4,672)	(4,828)	618	5,440	9,368	9,773
Tax provision / (benefit)	4,641	5,848	539	(10,369)	(14,665)	(15,955)
Depreciation and amortization	7,669	9,888	19,262	60,825	99,999	92,950
EBITDA (Non-GAAP)	\$ 49,550	\$ 52,247	\$ 43,750	\$ 51,708	(81,510)	(59,155)
FV Step-up amortization incl. in loss of disposal of PP&E	-	-	-	1,280	192	77
Cloud amortization	-	-	-	339	561	637
Stock-based compensation	6985	6,227	6,932	5,390	10,765	11,752
Acquisition-related expenses	-	1,049	7,982	4,853	1,386	1,724
Arcturus Goodwill Impairment	-	-	-	-	156,017	156,017
Equity method investment activity	3,944	5,487	10,481	(4,589)	2,583	3,118
Non-controlling interest	(19)	(4)	14	3	45	39
One-time (gains)/losses, net	(3,602)	-	-	-	-	-
Legal accrual related to our former EES business	-	-	9,300	10,000	-	-
Sale of ownership in HAPSMobile JV	-	-	-	(6,383)	-	-
Adjusted EBITDA (Non-GAAP)	\$ 56,858	\$ 65,006	\$ 78,459	\$ 62,601	\$ 90,039	\$ 114,209

(1) Q4 FY23 depreciation and amortization includes \$34,149 of accelerated intangible amortization and \$14,000 of accelerated depreciation



	FY19	FY20	FY21	FY22	EY23	LTM	
Earnings (loss) per diluted shares from continuing operations	\$ 1.74	\$ 1.72	\$ 0.96	\$ (0.17)	\$ (7.04)	\$ (5.75)	
Acquisition-related expenses	-	0.04	0.26	0.18	0.05	0.02	
Amortization of acquired intangible assets and other purchase accounting adjustments	-	0.08	0.24	1.17	1.97	1.87	
Arcturus Goodwill Impairment	-	-	-	-	6.18	6.14	
Sale of ownership in HAPSMobile JV	-	-	0.00	(0.25)	-	-	
HAPSMobile JV impairment of investment in Loon LLC	-	-	0.34	-	-	-	
Legal accrual related to our former EES business	-	-	0.30	0.32	-	-	
One-time gain from a litigation settlement	(0.26)	-	-	-	-	-	
Equity method and equity security investment activity	0.16	0.23	0.09	(0.19)	0.10	0.12	
Earnings (loss) per diluted shares as adjusted (Non-GAAP)	\$ 1.64	\$ 2.07	\$ 2.19	\$ 1.06	\$ 1.26	\$ 2.41	



APPENDIX D -RECONCILIATION OF FISCAL YEAR 2024 NON-GAAP DILUTED EARNINGS PER SHARE EXPECTATIONS (UNAUDITED)

	Fiscal Year Ending April 30, 2024		
Forecast earnings per diluted share	\$	1.91 - 2.21	
Acquisition-related expenses		0.01	
Amortization of acquired intangible and FV assets		0.34	
Equity method and equity securities investments activity, net		0.04	
Forecast earnings per diluted share as adjusted (Non-GAAP)	\$	2.30 - 2.60	



	Fiscal Year
	Ending
(in millions)	April 30, 2024
Net income	\$ 51 - 59
Interest expense, net	8
Benefit from income taxes	3 - 5
Depreciation and amortization	35
EBITDA (Non-GAAP)	97 - 107
Cloud amortization	1
FV step-up amortization included in loss on disposal of PP&E	0
Equity method and equity security investments activity, net	1
Deal and integration costs	1
Stock-based compensation	17
Adjusted EBITDA (Non-GAAP)	\$ 117 - 127

