

2015 INVESTOR AND ANALYST DAY

Positioning for Long-Term Value Creation

Simi Valley, CA July 9, 2015

Safe Harbor Statement

- This presentation contains "forward-looking statements" as that term is defined in the Private Securities Litigation Reform Act of 1995. 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, reliance on sales to the U.S. government; changes in the supply and/or demand and/or prices for our products; the activities of competitors; failure of the markets in which we operate to grow; failure to expand into new markets; changes in significant operating expenses, including components and raw materials; failure to develop new products; changes in the regulatory environment; product liability, infringement and other claims; and general economic and business conditions in the United States and elsewhere in the world.
- For a further list and description of such risks and uncertainties, see the reports we file with the Securities and Exchange Commission, including our most recent Annual Report on Form 10-K and Quarterly Reports on Form 10-Q. 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.



Objective

- Gain better understanding of AeroVironment and its prospects for long-term value creation by:
 - Meeting members of our senior management team
 - Meeting key program managers and employees
 - Viewing product demonstrations
 - Hearing from our customers



Agenda

Topic	Presenter	Time
Welcome	Steven Gitlin, VP Investor Relations	7:30 – 7:45
Long-Term Value Creation Strategy	Tim Conver, Chairman and Chief Executive Officer	7:45 – 8:15
Efficient Energy Systems	Ken Karklin, VP and General Manager, EES	8:15 – 8:45
Break		8:45 – 9:00
Unmanned Aircraft Systems	Kirk Flittie, VP and General Manager, UAS	9:00 – 10:00
Financial Review	Teresa Covington, VP Finance	10:00 – 10:30
Travel		10:30 – 11:00
Flight Demonstration		11:00 – 11:30
Travel		11:30 – 12:00
Customer Panel & Lunch		12:00 – 1:00
Solution Expo	All	1:00 – 1:30
Summary	Steven Gitlin, VP Investor Relations	1:30 – 1:45
Optional Factory Tour		1:45 – 2:45



Tim Conver

Chairman and Chief Executive Officer



AeroVironment Investment Thesis

Profitable Growth through Technology Based Innovation

- Investing into growth portfolio for long-term stockholder value
- Prepared to invest to secure large, high ROIC growth opportunities

Differentiated Solutions with Leading Market Positions

- Pioneer & market leader in Small UAS and EV solutions
- Next-generation technology for electric UAS, autonomy and decision-support solutions

Multiple High-Value Market Opportunities

- Market leader in core business
- Large UAS: significant unmet needs
- Tactical Missile Systems: potentially high volume
- Commercial UAS: large emerging opportunity

Strong Financial Performance

- Growing, profitable core business
- Strong balance sheet
- Consistent gross profit margin



Business Model – Growth Portfolio Builds On Profitable Core Business

Core Business

- Market-leading positions
- Growth opportunities
- Expanding customer base
- Expanding geographic scope

Growth Portfolio

- Several multi-billion dollar addressable markets
- Leading positions in emerging opportunities
- Investing in fiscal 2015 and 2016 for long-term value creation



Fiscal 2015 R&D Investments Support Our Growth Strategy in Three Strategic Areas...

\$46 million Internal R&D \$26
million
"Core"
R&D

\$20 million
"Incremental"
R&D

\$25 millionCustomer R&D

Note: "core" refers to historical average R&D investment of 8 -10% of revenue; "incremental" refers to additional internal R&D investment



1. Large UAS (LUAS) More than \$20 Billion Potential Annual Target Market

- Combined Global Observer
 High Altitude Long Endurance
 (HALE) and Tern Medium
 Altitude Long Endurance
 (MALE)
 - Global Observer: active customer discussions
 - Tern: committed to delivering most capable and effective solution for phase III contract decision later this year



See slides 41 and 42 for market estimates



2. Tactical Missile Systems (TMS) \$1 Billion Potential Annual Target Market

- Demonstrated three Switchblade variants for Family of TMS
 - Expect at least one to produce product revenue in fiscal 2016
 - Expect other two likely will receive additional customer funding in fiscal 2016 – extend demonstrations into fiscal 2016
 - Potential fourth Switchblade variant may attract customer funding this year
- Preparing for LMAMS program of record requirements



See slide 39 for market estimates



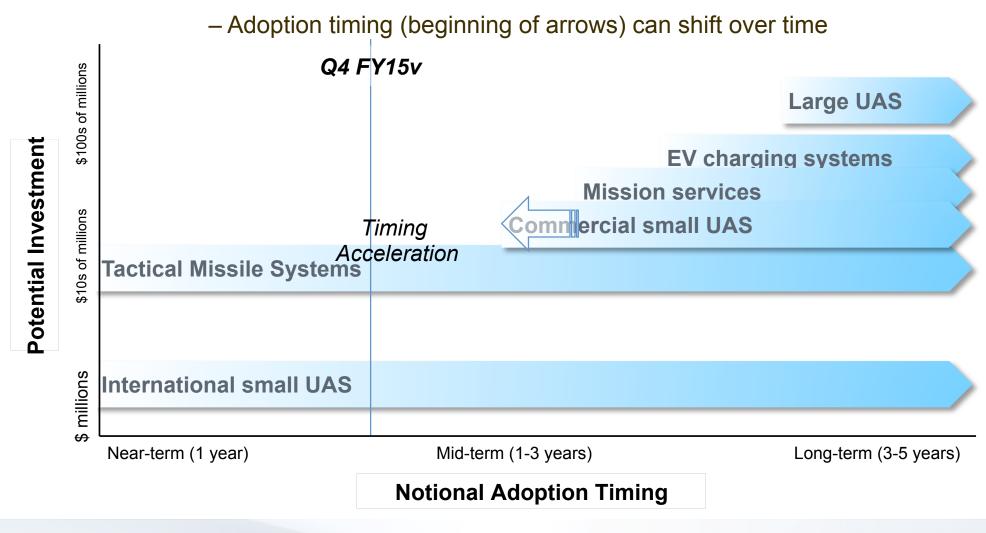
3. Commercial UAS (CUAS) \$Multi-Billion Potential Market

- Hardware and software development to optimize for applications and requirements for commercial versus military customers
- Pilot programs with lead adopters in large market opportunities, such as our multi-year information services agreement with BP
- Increasing customer engagement



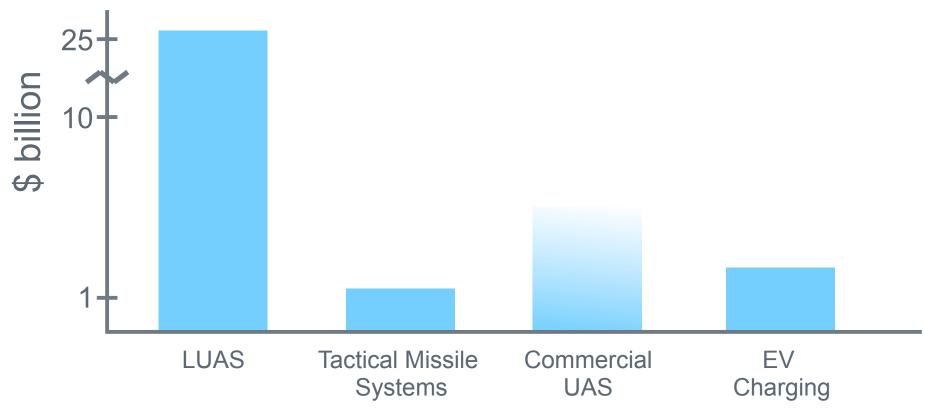


Positioned for Multi-Opportunity Growth Across Varying Timeframes and Investment Levels





Strategically Positioned for Multi-Billion Dollar Market Opportunities – Estimated Potential Market Sizes



Source: Frost & Sullivan, U.S. Department of Defense, company estimates



Fiscal 2016 Guidance

\$260m-\$280m

Revenue

36% to 37.5% **Gross Profit Margin**

Anticipated Growth in: Tactical Missile Systems International Small UAS

Advanced Programs

Large UAS



How Our Investments are Furthering Our Strategy

- Developing next-generation technology
- Alignment with market needs
- Deepening customer engagement and investment
- Improved competitive positioning
- Growing customer activities consistent with market adoption
 - Development & demonstration funding TMS
 - Requests for information & teaming MOUs GO
 - Requests for demonstration & service agreements CUAS

Strategic Investments Helped Expand Our Growth portfolio and Position AeroVironment for New Market Opportunities



Ken Karklin

Vice President and General Manager, EES



Energy Management Solutions for Electric Vehicle Development, Production & Operation

25,000

AeroVironment Level 2 EVSE deployed in North America 19,000

Industrial EVs charged every day by AeroVironment PosiCharge



Growing International EES Footprint

39 COUNTRIES OUTSIDE THE US AND US TERRITORIES (AS OF MAY 2015):

Australia, Brazil, Canada, Chile, China, Columbia, Ecuador, Egypt, El Salvador, Finland, France, Germany, Guam (US Territory), Hong Kong, Iceland, India, Indonesia, Ireland, Italy, Japan, Jordan, Macau, Malaysia, Mali, Mexico, Netherlands, New Zealand, Norway, Panama, Portugal, Puerto Rico (US Territory), Singapore, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand,



EV Test Systems

- Serving in R&D labs for automakers, battery developers, government agencies, universities
- Introduced new digital system capable of more than one megawatt
- Growth strategy: focus on adjacent applications





Industrial EV Charging Systems

- Leading solutions for automated vehicles, electric forklifts, reach trucks and tugs
- Factories, airports, distribution centers
- Expanding into adjacent market segments





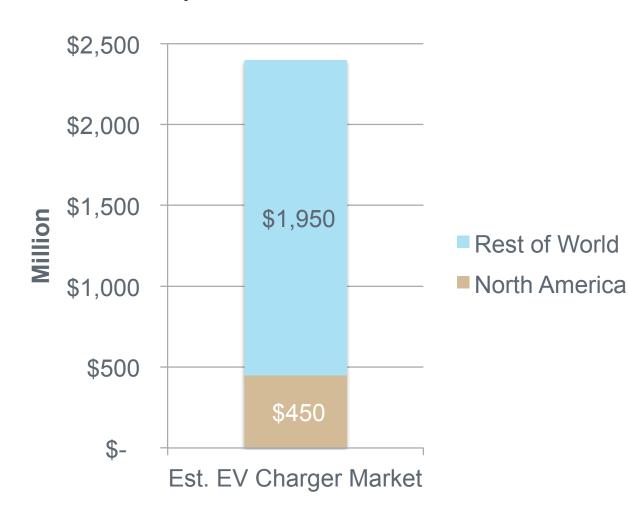
Passenger EV Charging Solutions

- Innovative and practical charging solutions for EV drivers
- Home, workplace, public and highway
- Now a Tier-1 automotive supplier
- Charge smarter, driver farther





EV Charging Solutions Estimated Annual Potential Market: \$2.4 billion



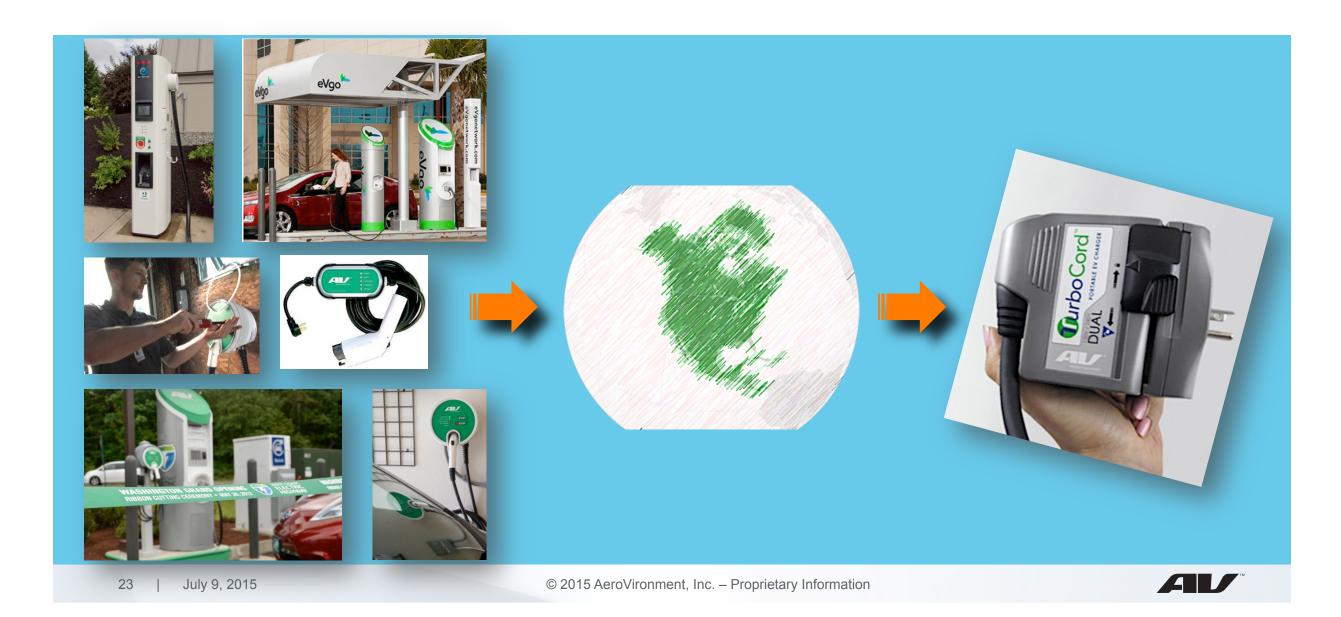
Source: company estimates

Assumptions used to estimate potential market size:

- Annual light vehicle shipments per year
 - North America = 15 million
 - Rest of World = 65 million
- Potential future plug-in percentage of global light vehicle shipments = 5%
- Average charger price per vehicle = \$600



Evolution of Our EV Charging Solutions Strategy



Passenger EV Charging Growth Strategy



EES Summary

- Strong positions in markets for EV Test, Industrial EV charging and Passenger EV charging systems
- High value market opportunity for passenger EV charging solutions globally
- TurboCore drives growth



15 Minute Break



Kirk Flittie

Vice President and General Manager, UAS



AeroVironment – Leader in Unmanned Aircraft Systems

25,000

New and replacement small unmanned aircraft delivered

31

Allied nations have procured AeroVironment Small UAS



Delivering Powerful Insight. On-Demand. to a Range of Industries and Customers

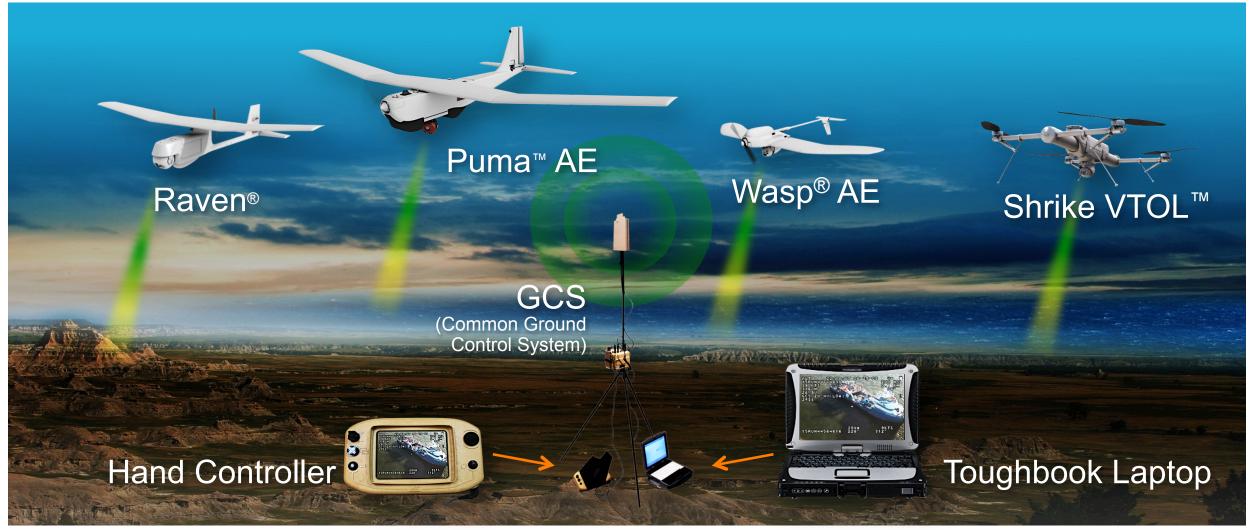


Four Business Areas Focusing on Large Market Opportunities



Family of Small Unmanned Aircraft Systems

Tactical ISR





Family of Systems Addressable Market

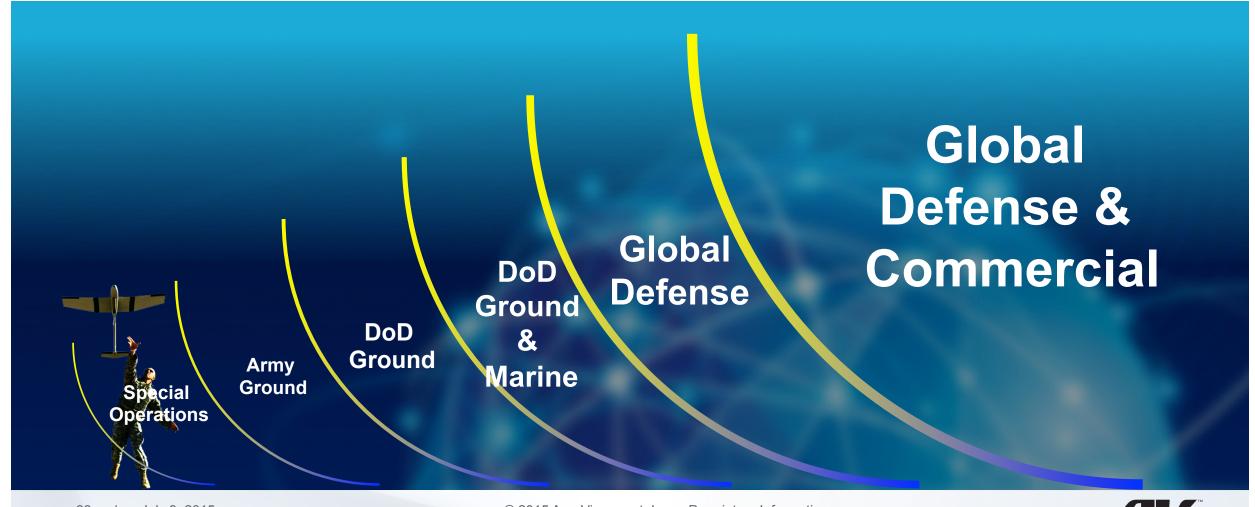
- Adopted by all U.S. ground forces
- New capabilities attracting U.S. Navy interest for maritime operations
- \$671 million revenue forecast for global tactical small UAS market in 2016¹



¹ Source: Frost & Sullivan – Global Military Unmanned Aerial Vehicles Market Assessment, Sept. 2014



AeroVironment Family of Small Unmanned Aircraft Systems Target Markets Evolution



Growing International Small UAS Footprint

31 COUNTRIES OUTSIDE OF THE US (AS OF MAY 2015):

Australia, Italy, Denmark, Czech Republic, Spain, Netherlands, Thailand, Lebanon, Saudi Arabia, Estonia, Norway, Uganda, Sweden, Romania, Singapore, UK, France, Malaysia, Hungary, Japan, Kenya, Yemen, Colombia, Canada, Tunisia, Macedonia, Bulgaria,

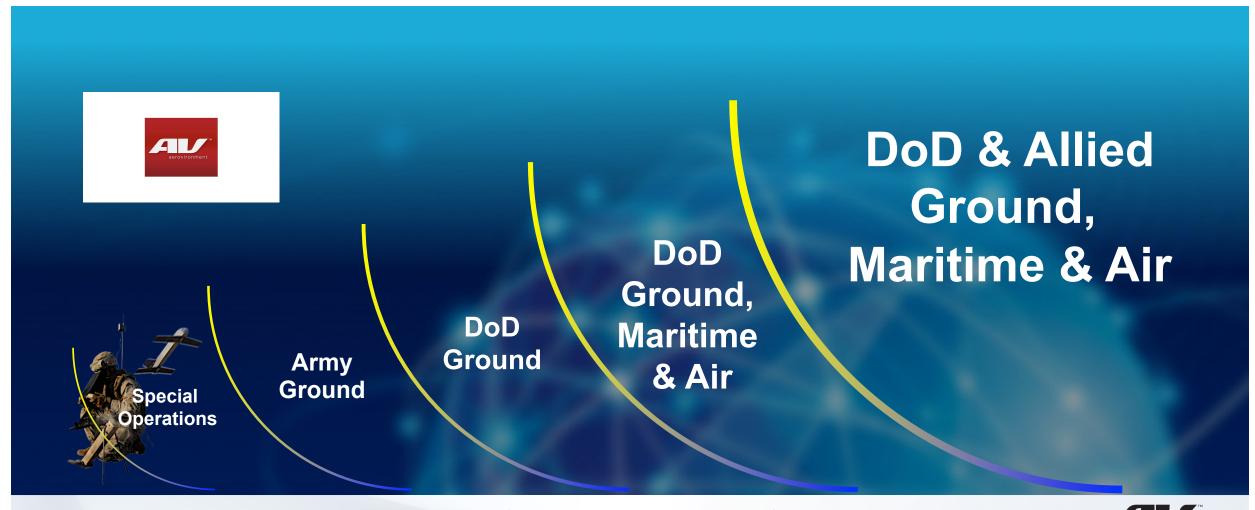


Small UAS Well Suited for Multiple International Opportunities

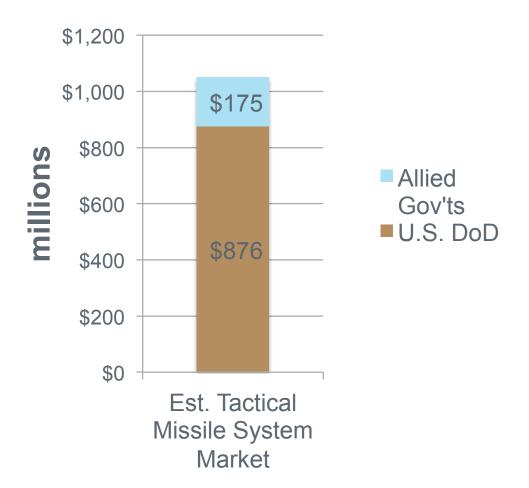
Market	Description	Market Drivers
Foreign Military	Urgent Operational Requirements due to threats (terrorism, border infiltration). Build up of CONOPS. Try before you buy products.	Limited budgets. Reluctance to commit to large capital investments.
Border Security	International border security. Key areas in Middle East (UAE, SA), South East Asia and South America.	Increasing threat. Large borders to cover. Increase coverage w/out significant increase in cost.
Critical Infrastructure Oil and Gas	Intelligence, Surveillance and Reconnaissance (ISR) Security Services to augment existing tech. Static over watch of infrastructure, pipeline surveil. Middle East, Africa, South America, South East Asia.	Increasing risk in Middle East. Cost reduction. Lower risk to operational personnel. Quick response.
Anti-Piracy	ISR ops off vessels. Early detection and avoidance. Search & Rescue. Deterrence.	Increasing Piracy. Skyrocketing shipping costs. Aversion to arming commercial ships.
Counter Narcotics and Illicit Trafficking	ISR services to augment current manned aircraft technologies.	Increased threat to US. Responsiveness



AeroVironment Family of Tactical Missile Systems Target Markets Evolution



Tactical Missile Systems Estimated Annual Potential Addressable Market: \$1 billion



Assumptions used to estimate potential market size:

- Comparable weapons systems currently procured: Grenades, Javelin, Hellfire missiles, TOW missiles, Hydra rockets, Mortars, MLRS, Shoulder launched munitions, Griffin, SOPGM, Laser Maverick
- Total Government Fiscal 2015 budget for comparable weapons systems listed above \$876 million
- Est. 20% incremental allied demand of \$175 million

Source: U.S. Department of Defense Undersecretary of Defense (Comptroller)



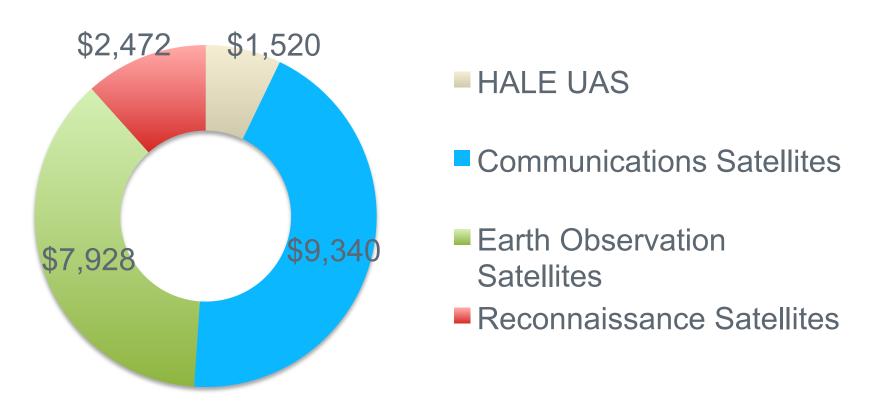
Key TMS opportunities

- Switchblade demand and urgent needs
- Developed three Switchblade variants (ground, air, sea) in fiscal 2015
 - Anticipate one of them to generate product revenue in fiscal 2016
 - Anticipate continued customer funding for two variants
 - Potential for development of fourth variant in fiscal 2016
- LMAMS Program of Record likely delayed beyond government fiscal 2017 (Switchblade is the only deployed solution so far)



HALE Total Potential Addressable Market - \$22 billion

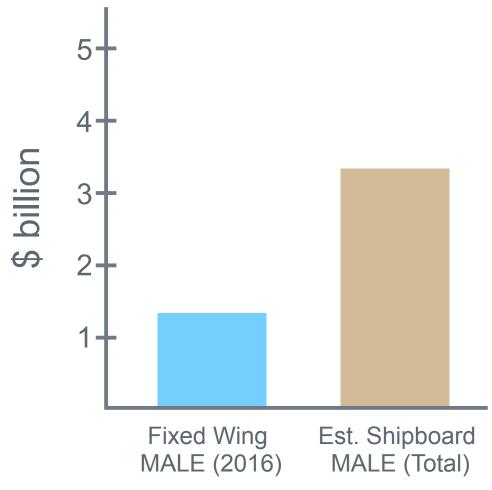
Revenue Forecast in Millions (2016)



Source: Frost & Sullivan – *Global Launch Systems and Satellites*, Dec 2014, *Global Military Unmanned Aerial Vehicles Market Assessment*, Sept. 2014



MALE Addressable Market - \$1.3 Billion (2016) *Plus* \$3.4 Billion Total Potential Additional Opportunity



Assumptions used to estimate potential additional market size:

- Grey Eagle price est.: \$21.5 million
- 106 US Navy warships that could accommodate Tern-type UAS: DDG, LPD, LSD, LCS, JHSV, MLP, CVN
- \$2.3 billion U.S. Navy shipboard opportunity (likely larger if more than one per some ships)
- Allied navies = 25% of US Navy demand, or \$575 million
- Non-naval applications = 25% of US Navy demand, or \$575 million
- Current fixed wing MALE market size = \$1,354.2 billion for 2016 (Frost and Sullivan)

Source: Frost & Sullivan Global Military Unmanned Aerial Vehicles Market Assessment, Sept. 2014, company estimates



July 9, 2015

Commercial UAS Enterprise Information Services Addressable Market

Energy

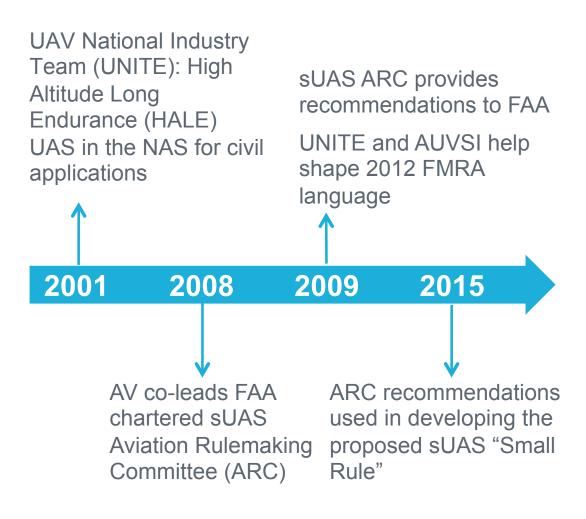
- Reduce Oil and Gas maintenance expense
- Reduce electric utility powerline inspection expense

Agriculture

- Determine annual crop value
- Optimize resource consumption
 - Fertilizer
 - Water
 - Pesticide



A Long Road to UAS Integration – Recent Progress



FAA Modernization and Reform Act (FMRA) of 2012

- Section 333 more than 714 exemptions granted to date
- Program to integrate UAS into the NAS at six FAA UAS test ranges: NV, AK, VA, NY, TX, and ND
- Plan completed for permanent small UAS operating areas in Arctic and effort is underway
- AeroVironment operating commercially in Alaska

Notice of Proposed Rulemaking (NPRM) for sUAS "Small Rule" published

- Public comments being adjudicated within the U.S. Government
- Final rule for civil applications: 2016 or later

Operations over people and/or Beyond Visual Line of Sight

- Not addressed by the Small Rule
- Special class certification under 21.17(b)

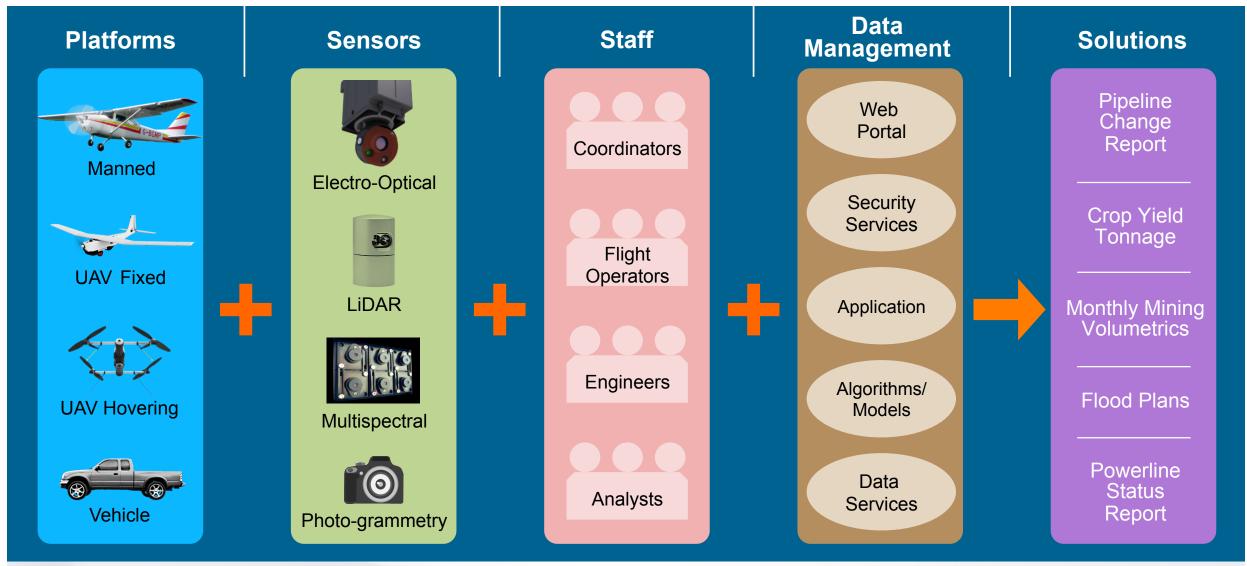


Commercial UAS Enablers

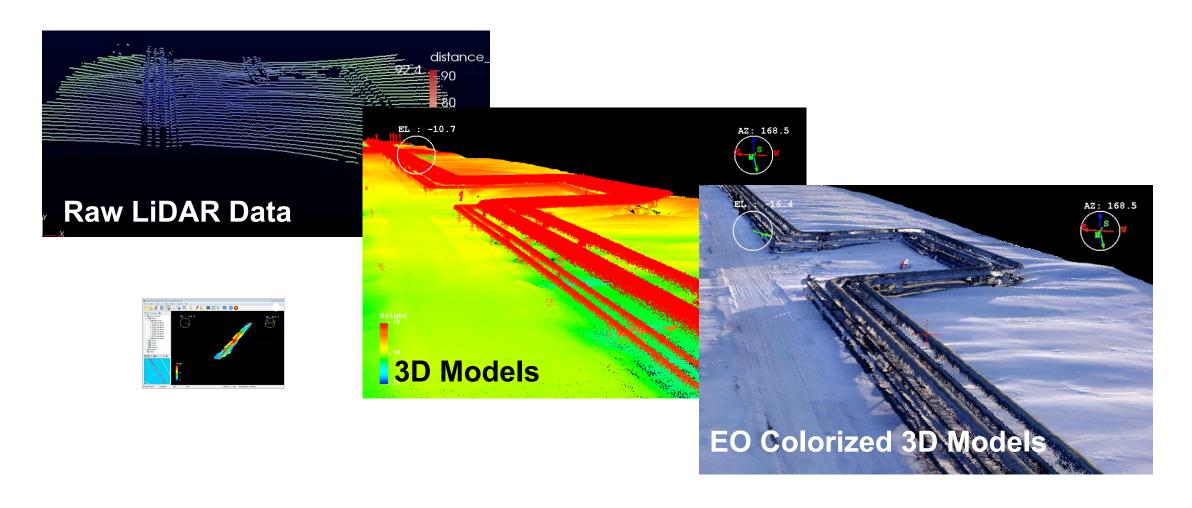




New capabilities to drive new Commercial solutions

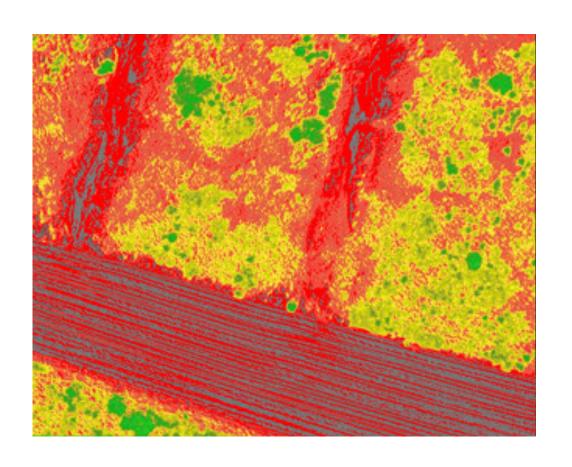


Integrated Commercial Information Services





Integrated Commercial Information Services Agriculture Evaluation



- Near IR, Red and Green images combined
- NDVI Vegetation Index

Green = Healthy

Yellow = Stressed

Other = Non-vegetation



UAS Summary

- Multiple high-value market opportunities in our growth portfolio
- Continued leadership in our core business
- Solid progress in market and solution development
- Accomplishing key demonstration objectives for TMS, CUAS



Teresa Covington

Vice President, Finance and former Interim Chief Financial Officer



AeroVironment Investment Thesis

Profitable Growth through Technology Based Innovation

Differentiated Solutions with Leading Market Positions

Multiple High-Value Market Opportunities

Strong Financial Performance

- Growing, profitable core business
- Strong balance sheet
- Consistent gross profit margin



Continuing to Deliver on Objectives

2015 Financial Growth and Investment

- Revenue growth of 3% to \$259 million
- Gross margin improvement of 3% to 40%
- Investments of \$20 million in growth portfolio
- EPS of \$0.13

Strong Balance Sheet and Cash Generation

- Cash and equivalents \$275 million
- Strong operating cash flow
- Lower working capital
- Nimble, able to adjust to market demands

Growth Opportunities

Core Business

- Small UAS
- Passenger EV charging

Growth Portfolio

- TMS Switchblade variants
- LUAS Tern phase II/III and GO
- Commercial UAS

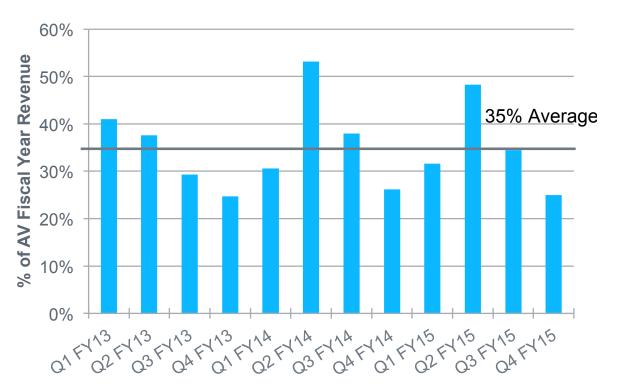
Recognized Technology Leader

- Top Performing Company \$250 million \$1
 Billion Aviation Week
- More than 85% market share of U.S. Department of Defense unmanned aircraft fleet

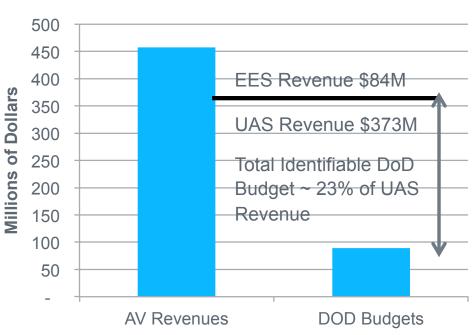


Near-Term Revenue Visibility Variable and Largely Independent of DoD Budget

End of Qtr. Funded Backlog/ AeroVironment FY Revenue

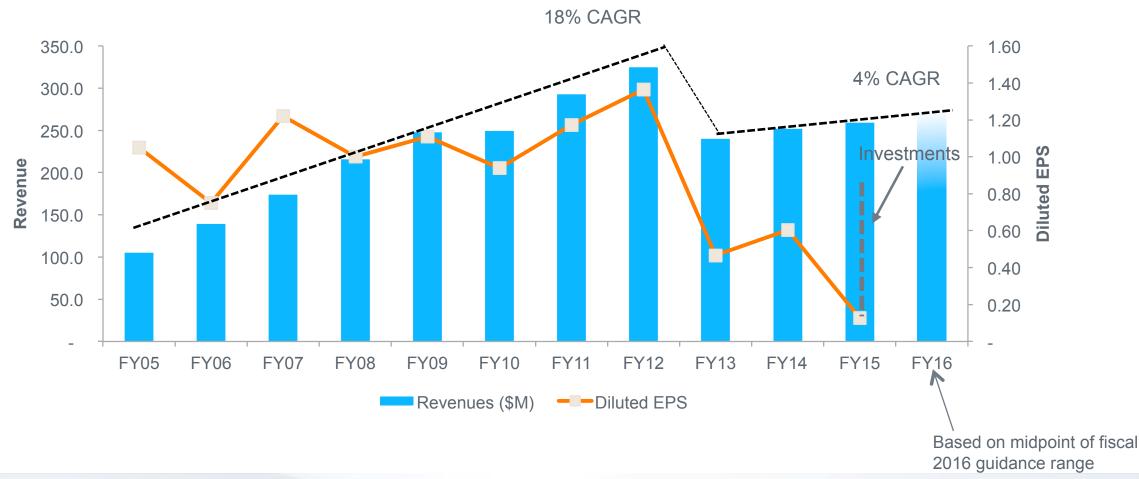


AeroVironment Revenue vs. GFY13-14 DOD Budgets



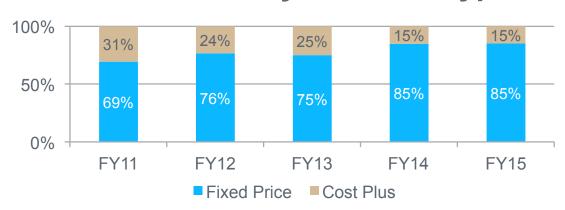


Revenue and EPS Reset after Sequestration Investing Core Business Profit into Long-Term Growth

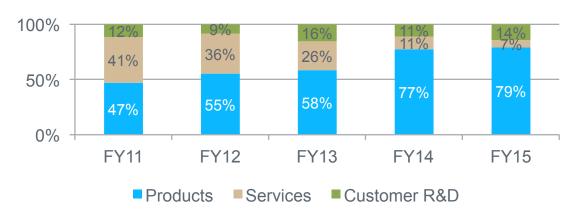


Fiscal 2015 Revenue Trends and Mix – a Balanced Portfolio Supports our Growth Objectives

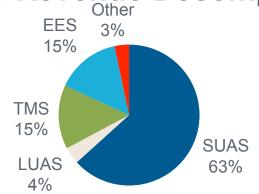
Revenue Mix by Contract Type



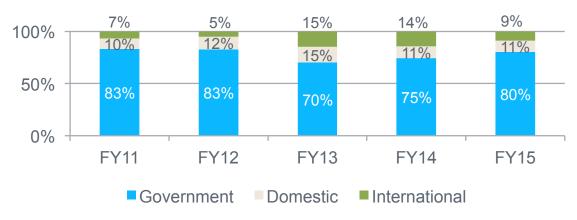
Revenue Mix by Function



AV FY15 Revenue Decomposition



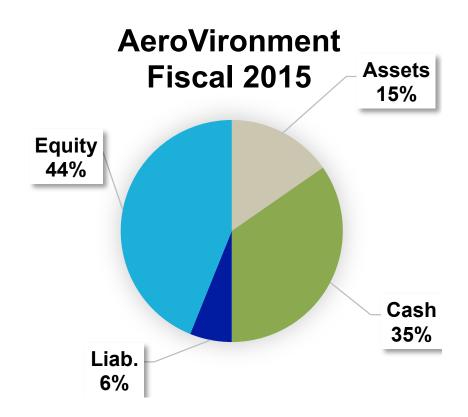
Revenue Mix by Geography/ Customer

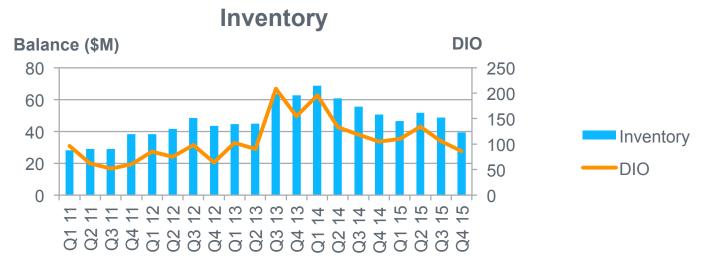


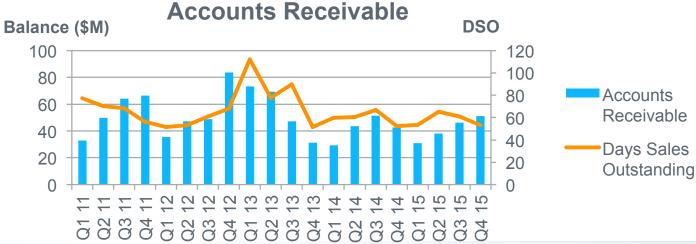


July 9, 2015

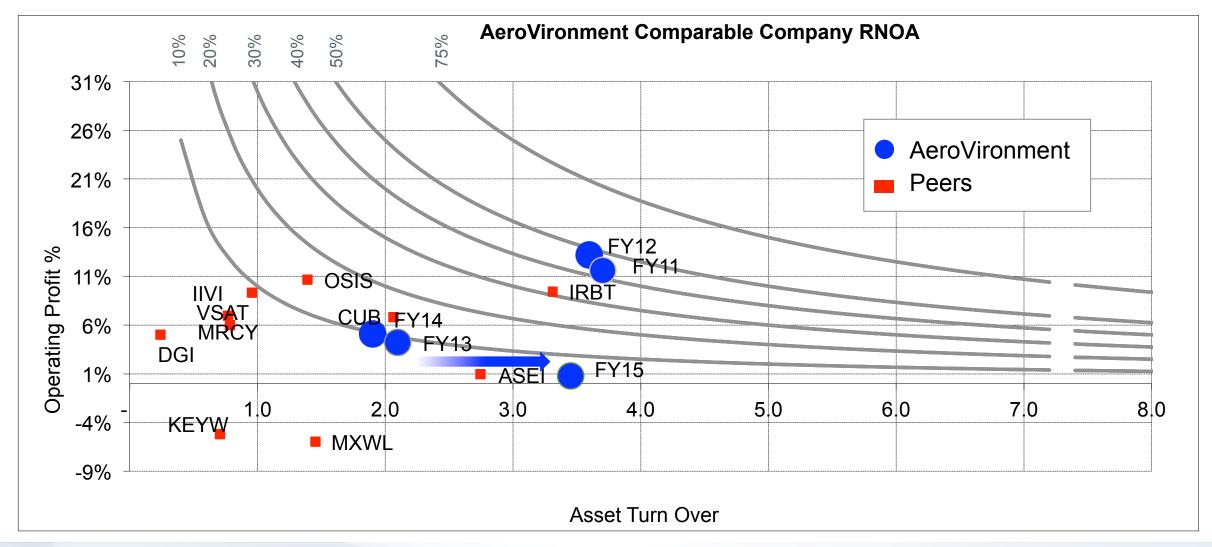
Strong Balance Sheet and Focus on Cash Management







Return on Net Operating Asset (RNOA) Benchmark Returning to Asset Utilization Efficiency, Investing in Growth





Fiscal 2016 Guidance

	FY13	FY14	FY15	FY16 Guidance		
Revenue (\$M)	240.2	251.7	259.4	260–280		
Growth	-26%	5%	3%	Flat–8% Growth		
Gross Profit (\$M)	92.5	93.6	104.3	94–105		
Gross Profit % of Revenue	39%	37%	40%	36% — 37.5%		
SG&A Expense (\$M)	51.5	55.7	55.8	Core - 8%-10% R&D range, with incremental Commercial UAS investment. More steady quarterly expense		
SG&A % of Revenue	21%	22%	21%			
R&D Expense (\$M)	37.2	25.5	46.5			
R&D % of Revenue	15%	10%	18%			
Operating Profit (\$M)	3.8	12.4	2.0	As low a 0% with Commercial UAS investments		
Op Profit % of Revenue	2%	5%	1%			
Anticipated share count: 23.4 million to 23.6 million						

56 | July 9, 2015

Flight Demonstration



Agenda

Topic	Presenter	Time
Welcome	Steven Gitlin, VP Investor Relations	7:30 – 7:45
Long-Term Value Creation Strategy	Tim Conver, Chairman and Chief Executive Officer	7:45 – 8:15
Efficient Energy Systems	Ken Karklin, VP and General Manager, EES	8:15 – 8:45
Break		8:45 – 9:00
Unmanned Aircraft Systems	Kirk Flittie, VP and General Manager, UAS	9:00 – 10:00
Financial Review	Teresa Covington, VP Finance	10:00 – 10:30
Travel		10:30 – 11:00
Flight Demonstration		11:00 – 11:30
Travel		11:30 – 12:00
Customer Panel & Lunch		12:00 – 1:00
Solution Expo	All	1:00 – 1:30
Summary	Steven Gitlin, VP Investor Relations	1:30 – 1:45
Optional Factory Tour		1:45 – 2:45



Lunch & Customer Panel



Customer Panel

Commander Chris Dunn, Ventura County Sheriff
 Department, manages the Bomb Squad and Small
 Unmanned Aviation Systems Unit

 William Nichols, Deputy Product Director, Lethal Miniature Aerial Missile Systems, U.S. Army Close Combat Weapons Systems



Solution Expo



Summary



Steven Gitlin

Vice President Investor Relations



Business Model – Growth Portfolio Builds On Profitable Core Business

Core Business

- Market-leading positions
- Growth opportunities
- Expanding customer base
- Expanding geographic scope

Growth Portfolio

- Several multi-billion dollar addressable markets
- Leading positions in emerging opportunities
- Investing in fiscal 2015 and 2016 for long-term value creation



July 9, 2015

AeroVironment Investment Thesis

Profitable Growth through Technology Based Innovation

- Investing into growth portfolio for long-term stockholder value
- Prepared to invest to secure large, high ROIC growth opportunities

Differentiated Solutions with Leading Market Positions

- Pioneer & market leader in Small UAS and EV solutions
- Next-generation technology for electric UAS, autonomy and decision-support solutions

Multiple High-Value Market Opportunities

- Market leader in core business
- Large UAS: significant unmet needs
- Tactical Missile Systems: potentially high volume
- Commercial UAS: large emerging opportunity

Strong Financial Performance

- Growing, profitable core business
- Strong balance sheet
- Consistent gross profit margin



Thank You for Your Interest



Optional Factory Tour

