









Kratos Defense & Security Solutions, Inc.

Investor Briefing

August 2019





Technology Company in National Security Industry

Product and System Focused

Proven Leader in Rapidly Developing, Demonstrating and Fielding Affordable, Leading Technology Systems

Focused on "Leading Technology" <u>Not</u> "Bleeding Technology" = Reduced Financial, Schedule and Delivery Risk

Kratos Defense & Security Solutions Overview

Unmanned Systems



- High performance jet powered unmanned aerial drone systems
 - Aerial drone target systems
 - Tactical combat drones
- Rail launched and parachute recovered (runway independent)
- Rapid mission turn around
- Low Cost / Affordable

Ballistic Missile Defense Targets



Satellite Communications



- Leader in providing secure management, delivery and distribution of data and information from space and land
- Used by more than 75% of the world's satellite operators and 85% of U.S.-based space missions
- C³, RFI detection and mitigation products

Laser Systems

Training Systems



- Offers systems & solutions across the entire training continuum
- Exhibit knowledge and skills to develop a lifecycle training program to support specific training needs
- Leading training systems & solutions provider for ground, air and sea platforms

Microwave Electronics



- One of the largest international independent microwave solutions developers
- Products used in a variety of demanding environments, including airborne, ground and naval systems; missiles, radar, aircraft, guided munitions

Turbine Technologies

KROTOS FROM STRENGTH TO SUCCESS



- Leading technology and innovation leader in advanced turbine engines
- Development and production of small, affordable, highperformance, jet engines for next generation of tactical weapon systems and tactical jet unmanned aerial systems (UAS)





Hypersonic Systems



NASDAQ: KTOS

DEFENSE & SECURITY SOLUTIONS

Disruptive Defense Technologies for Drones, Space, Missile Defense and Hypersonics

Kratos owns substantially all of the key IP related to its core portfolio of products

Tactical & Target Drones

Kratos has invested over \$100mm in the last several years developing a robust suite of high-performance, jet powered UAVs, leading to the ownership of critical IP that provides competitive advantages and creates high barriers to entry

- ✓ Autonomous capabilities
- Ability to rapidly develop / deliver working systems

- Vertical integration
- Rail launched (runway independent)
- ✓ Low cost / affordable
- ✓ Open architecture for seamless payload integration

Satellite & Space Ground Systems



- Integrated Common Data Link technology
- Only commercially available RF over IP transport with data restoration solution
- ✓ Space Situational Awareness Network
- Proprietary space network roaming capability across satellites and bands



Ballistic Missile Targets

- Exclusive perpetual rights to Oriole solid rocket motor
- ✓ Designs affordable control systems, countermeasures, decoys and other classified systems
- ✓ Integrates existing solid rocket motors to meet customer requirements

Hypersonic Systems



- Hypersonic vehicle testing
- MDA hypersonic target vehicle development



Kratos – Aligned with National Security Priority **KROTOS** Areas

- After Years of Decline, Defense and Security Budgets are Increasing Globally
- A Recapitalization of Strategic Weapon Systems to Address Peer Threats is Underway for the U.S. and our Allies
- Priority Areas for Increased Budgets and Technology Advancement Include:
 - Unmanned Systems & Artificial Intelligence
 - Satellite Systems and the Space Segment
 - Electronic Warfare, Missile and Radar Systems
 - Missile Defense, Hypersonic Systems and Directed Energy
 - Lethality, Operational Readiness and Training
 - Science and Technology
 - Strategic Triad

Kratos is

Well

Positioned

in Virtually

All of These

Priority

Areas!

Kratos – Unmanned Systems





Kratos – Unmanned Systems



- Recognized Leader in Affordable High Performance, Jet Powered Unmanned Aerial Drone Systems
- 4 Systems in Production → Ramping
- 6 Systems Under Development Contracts/ Programs
- 3 Systems Expected to be Under Development Contract by 12/31/19
- 2 Systems Expected to be Under Development Contract in 2020

Industry Leader in High Performance Unmanned Aerial Target Drone Systems BQM-167 MQM-178 BQM-177 Kratos is the Leader in Development and Production of High Performance Unmanned Aerial Drone Target Systems Kratos' Target Drone Systems Represent the Most Advanced Aerial Threats of Our Adversaries and Operationally Test U.S. and Allies' Weapon Systems Kratos' High Performance Jet Powered Unmanned Aerial Drone Systems are The Highest Performance UAVs In the World

 Kratos' UASs are Rail Launched and Parachute Recovered, i.e., Runway Independent

Kratos BQM-177A Receives Initial Operating Capability from U.S. Navy (NAVAIR)



BQM-177A target achieves initial operational capability

Published: Feb 28, 2019 Naval Air Systems Command, Patuxent River, Md. The U.S. Navy's next-generation Sub-Sonic Aerial Target (SSAT), BQM-177A, reached Initial Operational Capability (IOC) Feb. 27 and will begin land-based operations in Point Mugu, California.

KRWTOS

Kratos – High Performance, Jet Powered Unmanned Combat Aerial System



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DEFENSE & SECURITY SOLUTIONS

Proven Approach to Rapid-Development of Affordable, Working Systems



Kratos distinguishes itself from competitors with its demonstrated ability to rapidly design, develop and deliver working systems and platforms to its customers at an affordable cost

Kratos Leverages its Unique Culture to Rapidly Deliver Affordable, Complete Systems

Iterative Approach

- Leverages past program experience to deliver continuous and incremental improvements
- ✓ Success on early programs builds trust in capabilities and helps win subsequent awards

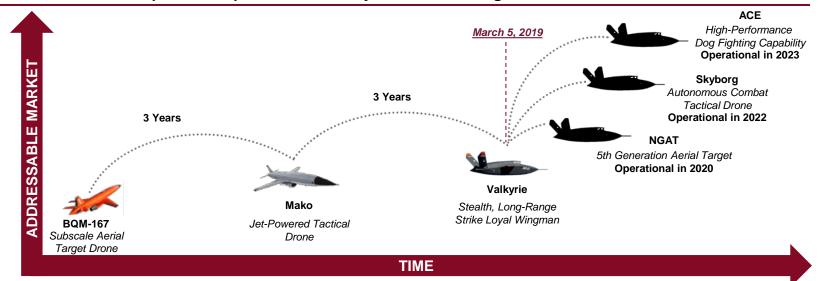
Leading v. Bleeding Edge

- ✓ Emphasizes use of proven technologies to reduce cost and risk without compromising capabilities
- ✓ Years of experience across its portfolio has made leveraging commercial technologies a core competency

Supply Chain Efficiency

- Commonality in supply chain across avionics, electronics and other subsystems and components further reduces cost
- Vertically integrated manufacturing reduces development time for new iterations and further reduces cost

Rapid-Development Case Study: Kratos' Leading Unmanned Platforms



Kratos – UCAS "Loyal Wingman" to Manned Aircraft – **KRWTOS** Low Cost, High Performance Force Multiplier



See YouTube Video – Search "UTAP-22" and enjoy

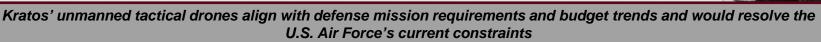
Kratos XQ-58A Valkyrie





DEFENSE & SECURITY SOLUTIONS

Industry Leader in High Performance Tactical Drones



Current Landscape

- U.S. fighter and attack aircraft fleet has been shrinking for decades and has been focused on asymmetric warfare and terrorism
- Shortage of highly trained pilots to address peer threats, as well as maintenance and repair shortfalls, has pressured readiness
- A2/AD environments and increasing adversary lethality pose an increasing risk to U.S. assets, including manned aircraft and ships
- DoD focused on attritable, unmanned systems to increase force quantity, defeat enemy air defenses and aircraft, and bolster the capabilities of its limited number of manned aircraft

Representative Kratos' Solutions

Valkyrie is a Step Change in Aerial Fighter Jet Capability

- ✓ Loyal wingman to F-35 and F-15EX
- High subsonic flight at long distances without refueling
- Rail take-offs and parachute landings do not require runway or aircraft carrier
- Launchable by fighter, bomber, cargo and other platforms from outside combat zone
- ✓ High altitude and nap-of-the-earth flight
- Higher, sustained g-force tolerance than manned jets

Significantly Lower Cost than Alternatives

- Proven rapid, low-cost design and manufacturing capabilities derived from production of low-cost aerial target drones and successful tests of next-gen tactical platforms
- ✓ Vertically integrated manufacturing further increases speed, and reduces cost & risks
- Tactical drones priced for as little as \$1-3mm, making them "attritable" inexpensive enough in both dollars and lives to risk losing in dangerous missions

Kratos' Solutions



XQ-58A "Valkyrie"

Cost-effective way to augment the USAF's fleet with additional quantities, firepower and sensors by serving as a Loyal Wingman. Valkyrie has been approved for potential marketing to the U.K., Australia, Japan and Canada

"Gremlins"

Intended to operate in a swarm, Gremlin is capable of ISR, arms delivery, jamming / SEAD and more. Gremlin is air deployed and recovered, driving down mission cost and increasing range



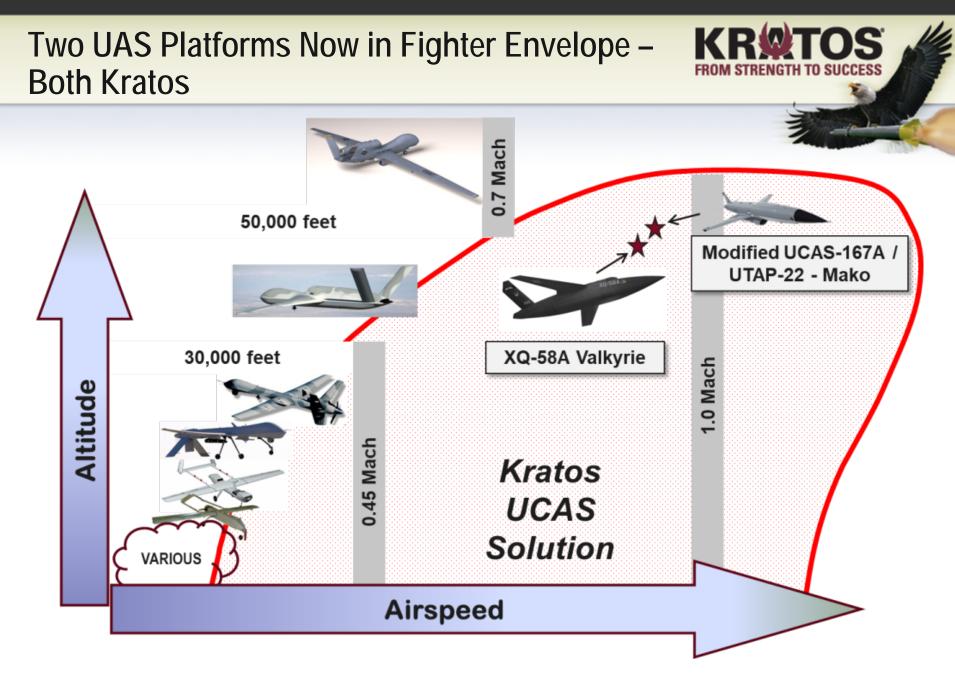
UTAP-22 "Mako" (Unmanned Tactical Aerial Platform)

Operational tactical drone and testbed for tactical unmanned capabilities. Approved for potential sale to 8 allied countries.

"Program F"



Program F is executing a series of test flights, and a production order is expected in 2020 after successful completion of demonstration program

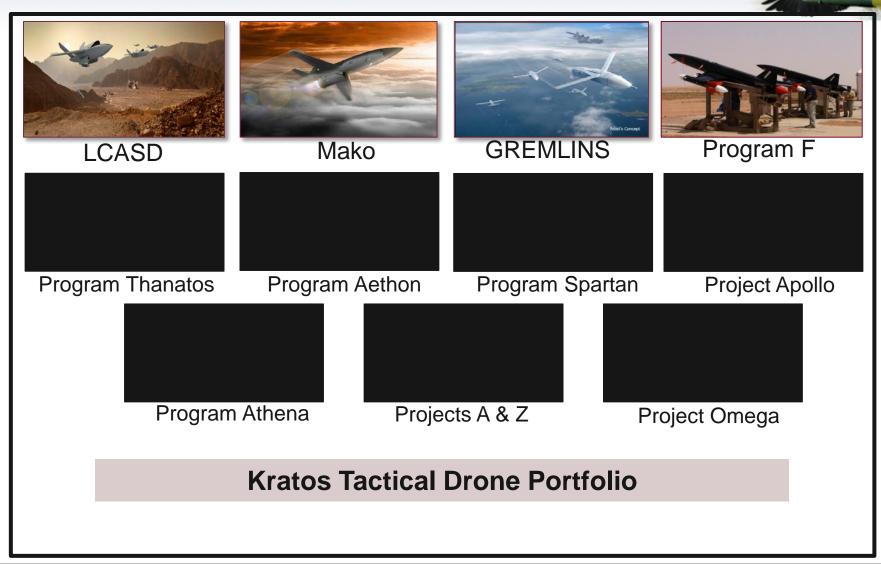


KRATOS PROPRIETARY INFORMATION – COMPETITION SENSITIVE DATA.

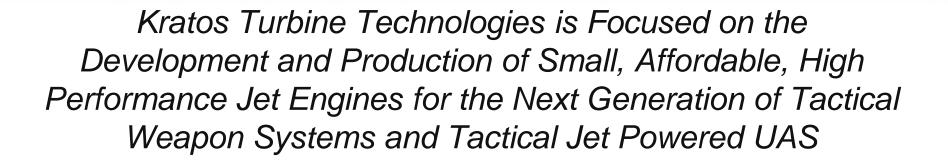
DEFENSE & SECURITY SOLUTIONS

UCAS Opportunity, Recent Contract Wins Provide Large Future Upside Growth Potential





Kratos – Turbine Technologies





Satellite Communications



KRWTOS

FROM STRENGTH TO SUCCESS

Leader in Satellite Communications, Command, KRM Control and RF Interference Mitigation

Core Capabilities

- Group-based command and control systems
- Satellite monitoring systems
- Signal intelligence systems
- Radio Frequency Identification ("RFID") systems
- Identification of and Geosynchronous Orbit ("GEO") location of Rapid Fielding Initiative ("RFI") threats
- Telemetry processing systems
 - Specialized cyber products for govt. agency customers

Market Leading Solution

- Used by more than 75% of the largest satellite operators and 85% of U.S. space missions
- Market leading Commercial-off-the-shelf products ("COTS"), best-of-breed industry tools, custom developed modular software, and top notch engineering services
- An industry leader in RF interference identification, monitoring, GEO location and related cyber security solutions including Kratos owned and operated global surveillance network
- Enhanced protection through continuous monitoring, cloud security and operational and risk management

Attractive Growth Drivers

- U.S. Air Force space funding request is expected to increase
- Emerging space and cyber threats from adversaries
- Hundreds / thousands of new nano, cube and small satellites planned launches
- Drive to commercialization for cost, resiliency and capacity
- Increasing demand for bandwidth from Unmanned Aerial Vehicles ("UAVs"), intelligence, surveillance and reconnaissance



Among the leaders in spot beam monitoring & signal acquisition

Kratos – Major Satellite Programs Supported



Space Based Infra Red System (SBIRS)



Advanced Extreme High Frequency (AEHF)

FROM STRE

Mobile User Objective System (MUOS)



Wide Band Global Satellite (WGS)



Global Positioning System (GPS)

Kratos – Supporting the Mission of Space Dominance

Space Situational Awareness – Unique Kratos Owned and Operated Global Network & Strategic Asset

The only commercial global network providing RF Spectral Services that brings enhanced insight against an array of threats

- Persistent Surveillance
- Real Time Detection
- Anomaly Identification
- Satellite Health, Usage and Attribution

"Recent Large Multi-Year Sole Source Award" **KR[®]TOS**



Microwave Electronics



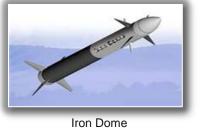


Kratos – Microwave Electronics

- One of the Largest Independent Microwave Businesses in the Industry
- Microwave Sub Systems and Components
- Key Customers Include Israeli Aerospace Industries (IAI), Rafael, SAAB, India, BAE, Etc.
- Supports a Significant Number of Israeli Radar and Missile Systems:
 - Iron Dome
 - Barak
 - Arrow
 - Sling of David
 - Spyder
 - Etc.

NASDAQ: KTOS

- Electronic Warfare Suite of Swedish Gripen Fighter
- Working on Various Indian Missile, Radar and Other Systems
- F-15 Electronic Warfare System
- F-16 Electronic Warfare System





Barak





Sling of David



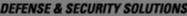
F-15



Gripen Fighter



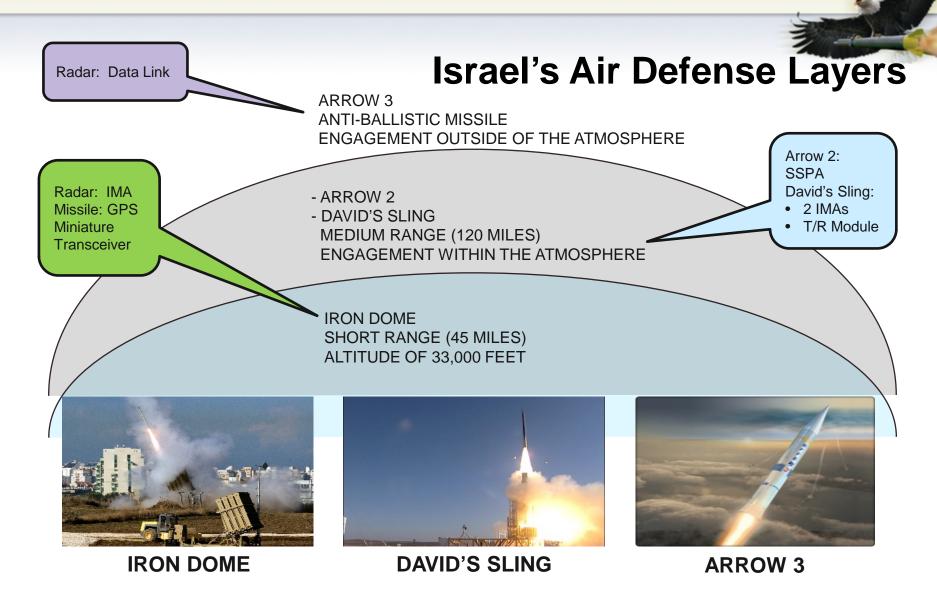




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Kratos – Microwave Electronics





NASDAQ: KTOS



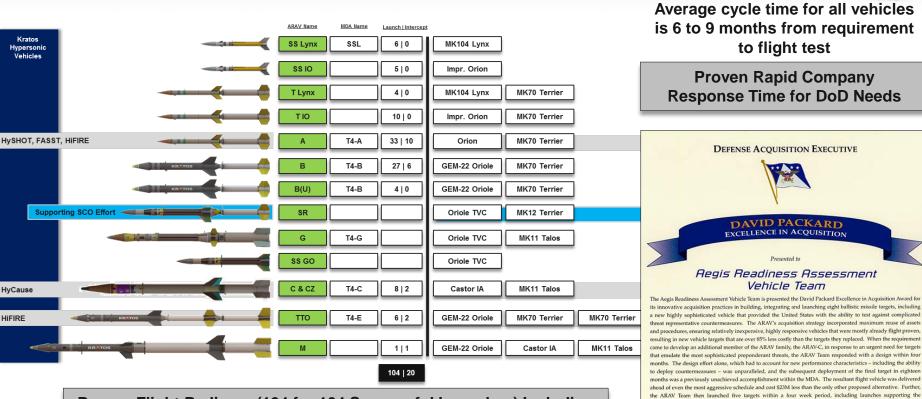
Defense & Rocket Support Solutions



"Kratos' DRSS Division is Well Positioned for Increased Funding in Ballistic Missile Defense, High Power Directed Energy Laser Systems, Hypersonic Vehicles, Etc."

Kratos Rapid Launch Vehicle Family

2010 OSD Packard Award Winner for Proven Rapid Delivery of Vehicles



Proven Flight Pedigree (104 for 104 Successful Launches) Including BMD Target and Hypersonic Vehicles**

**Per (Spring 2018): Additional 5 launches since table was made

DEFENSE & SECURITY SOLUTIONS

Under Secretary of Defense

uisition, Technology and Logistics)

Japanese and Korean ballistic missile defense programs, illustrating international support for and confidence in the reliability and capability of the ARAV program, and that of the ARAV-C. As a result, the Aegis Ballistic Missile

Defense program made significant strides in its development of new and more capable weapons systems designed

to counter the most advance ballistic missile threats.

November 2, 2010

Date

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FROM STRENGTH TO SUCCESS

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C5ISR Major Programs





Patriot Missile System Radar and C5/SR Units

LCS Combat Ship Mission Modules



Q-53 Radar System Operations Control Unit



CPP/ M-SHORAD Command Post Platform



TPS-77 Radar Modular Radar Equipment Units



THAAD AN/TPY-2 Radar Electronic Equipment Unit (EEU)



U.S. DoS HATS Blast Resistant Safe Havens



ROTHR Radar Radar Equipment Complexes

Kratos Supports These Major Programs With Proven Solutions



Training Systems & Solutions



Industry Leader in Aviation Operations & Maintenance Training Systems





CH-47 Avionics Trainer

UH-60 Avionics Trainer

UH-60, CH-47 & CH-53 Full Fidelity and Part Task Maintenance Trainers

UH-60 Remove/Replace Trainer

CH-53K Maintenance/Training System

UH-60 Landing Gear & Braking System Trainer





UH-60 Rotor Brake Trainer



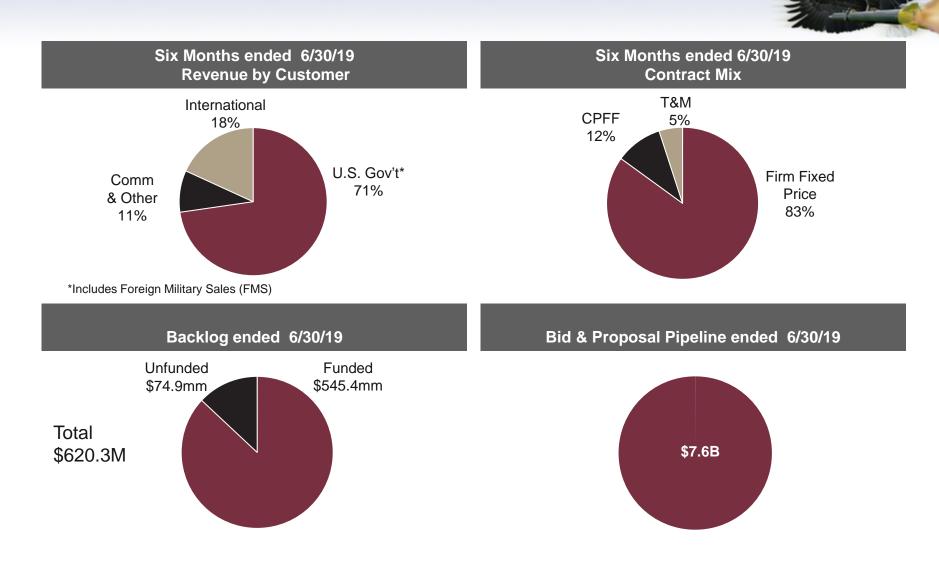
UH-60 Avionic Wiring System Trainer UH-60 Stabilator Trainer



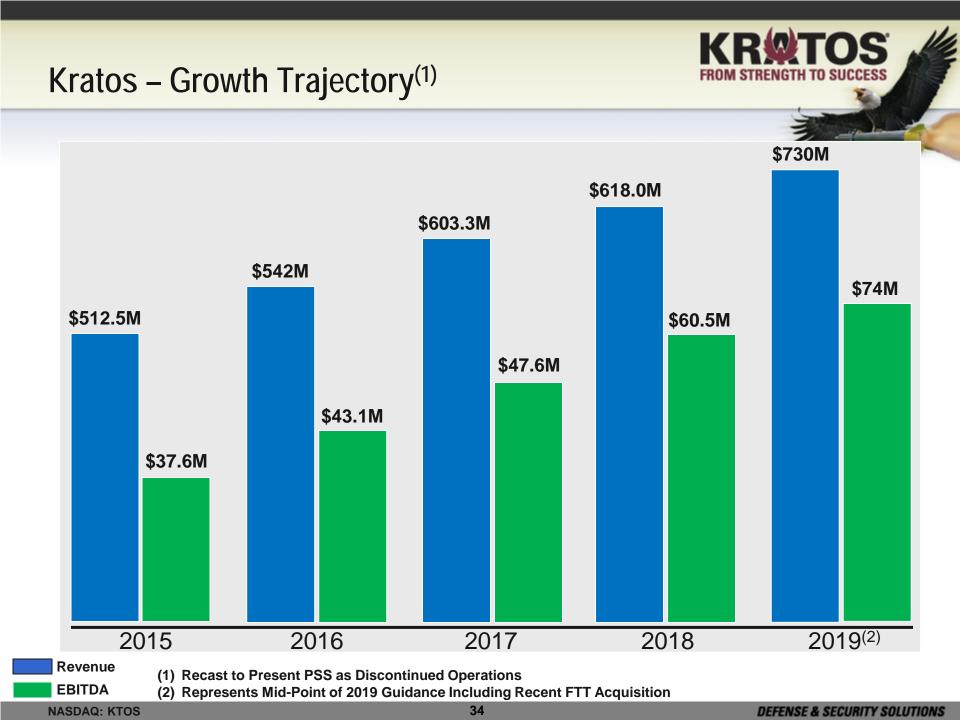
Kratos – Second Quarter 2019 Execution Highlights

- Revenue growth of 24.3%; organic revenue growth of 12.9% Year over Year
- Q219 Adjusted EBITDA of \$19.2 Million, Year over Year Adjusted EBITDA Growth 23.3%
- Q219 Operating Income \$9.0 Million, up from Operating Income of \$2.6 Million Year-Over-Year
- ► LTM Adjusted EBITDA of \$71.4 Million
- ► Q219 Book-To-Bill Ratio 1.0 to 1.0, LTM Book-to-Bill Ratio 1.1 to 1.0
- ➢ Qualified Bid and Proposal Pipeline Increased to \$7.6 Billion

Kratos – Recent Financial Highlights – Q219



FROM STRENGTH TO SUCCESS



Kratos – Recent Financial Highlights – Q219

	<u>Q219</u>
Gross Debt	\$294.6M
Cash	\$176.2M
Net Debt	\$118.4M
LTM Adjusted EBITDA	\$ 71.4M
Net Leverage	~1.70X

Kratos' Balance Sheet Positioned to Support Expected Future Growth From Multiple New Program Awards

Net Leverage Expected to Continue to Decrease as Revenue, Adjusted EBITDA and Free Cash Flow Increase Going Forward

Focused on Organic Growth with Existing Programs

No Major Acquisitions Planned, Only Potential Small "Tuck-Ins"



 Substantial Organic Growth Trajectory as Numerous New and Expected Programs Enter Production and Ramp Up

 Increased GM\$\$, GM%, Operating Income, EBITDA, EPS and Cash Flow as Business Scales

Kratos – Investment Summary

- KRATOS FROM STRENGTH TO SUCCESS
- Leading Technology National Security System and Product Company
- Aligned with U.S. DoD and Allies' National Security Priorities to Address Peer/Near Peer Threats
- Industry Leader: High Performance Drones, Missile Defense, Space, Satellite Communications, Microwave Electronics and Training Systems
- Recognized Leader in Rapidly Developing, Demonstrating & Fielding Affordable Leading Technology Systems
- Entering/Increasing Production on Several Large Programs Expected to Drive Significant Future Organic Revenue, Profit and Cash Flow Growth