

# TODAY'S CAPABILITY AND NEXT STEPS FOR MODERNIZATION

Moderator: Ms. Julie Schumacher, CEO, KODA Technologies

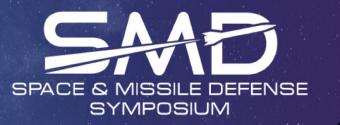
Ms. Jennifer Hubbard, Raytheon President, Strategic Missile Defense

Mr. James Lackey, Parsons Senior VP, Mission Solutions Sector

Ms. Lisa Brown, Northrop Grumman VP, Next Generation Interceptor Dr. Sarah Hiza, Lockheed Martin VP & GM, Strategic and Missile Defense

Dr. Arthur (Artie) Mabbett, Leidos Senior VP & Ops Manager, Leidos Innovations Center

Ms. Debbie Barnett, Boeing VP, Strategic Missile and Defense Systems



# RAYTHEON

Ms. Jennifer Hubbard

# Advanced Engineerin and Manufacturing



# Integrated, Layered Solutions



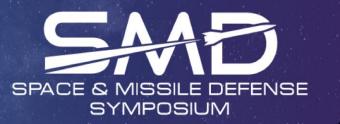
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CARLON THE THE COURSE

ADOC Battle Captain





# PARSONS

Mr. James Lackey

### **OUR NATIONAL SECURITY CHALLENGES**

- Space as front line of battle; Great Power Competition
- Contested & Congested Environment
- Demands for Resilience, Affordability, Adaptability
- Adversary Kill Webs; Working faster than their Speed of Action
- Fusion of Cyber, Data, AI enabled C2
- COTS based Agile, Offsetting Capabilities
- Rapid Acquisitions; risk tolerance, capability trades
- Rise of Mid Tier LSI, Solution Provider: Parsons



# **PARSONS PRODUCTS AND SOLUTIONS**

#### SV Ground Ops as a Service

- Parsons mission planning and control COTS products,
  Parsons staff, and facilities at all classification levels
  - Cloud, Hybrid-Cloud, On-Prem
  - Modernization and Innovation Automation and AI to reduce staffing
- Leveraging commercial partner antenna networks, and cloud provider capabilities
  - Reduces ownership and development costs, helps avoid infrastructure obsolescence
- NOAA POES in December 2022 and DARPA Blackjack 2023

#### **Assured PNT**

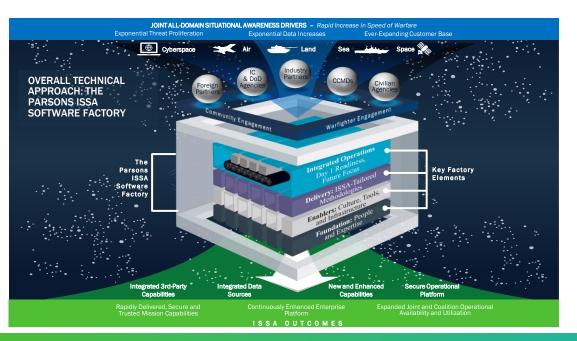
- Limitation of fixed L-band PNT signals
  - Combating with software defined radio (SDR) agility and integration with all source PNT
- ER310 Handheld SDR 2x2 RF Transceiver
  - Tx and Rx RF pre pre-selection filters, 70 MHz to 6 GHz frequency range, up to 56 MHz instantaneous bandwidth
- Field tested signal capabilities with multiple RF sources
- Building low SWAP for mounted and munitions integration



### **PARSONS SERVICES AND SUPPORT**

#### **Space Situational Awareness**

- Integrated Solutions for Space Situational Awareness (ISSA)
- Customers include both operational and analytical
- Provide integrated knowledge (past, current, and predictive) of space events, domain awareness, threats, activities, and conditions/contextualization.
- All of software source code and end-to-end technical baseline are owned by the U.S. government



#### Integrated C2

- Command Post Computing Environment enabler for both modernizing AFATDS and JTICS
- Geospatial solution and common data services, including an extensible database and data persistence.
- Firestorm Al-enabled "sensor to shooter" decision aid for Project Convergence
- Systems and software support for Next Gen Intelligent Fire Control (NGIFC)





# NORTHROP GRUMMAN Ms. Lisa Brown

### The Threat Continues to Advance in Quality & Quantity

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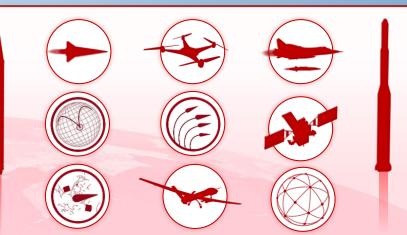
Drone Strike Kills American Contractor in Northeast Syria By The Associated Press • March 24, 2023 News   Nuclear Weapons North Korea warns US of r retaliation as tensions rise	Nor di Nor da fil co 2 short runge
World Africa Americas Asia Australia China Europe India Middle East Unit North Korea said it fired a Hwasong-18 intercontinental ballistic missile on Wednesday	Second Consecutive Flight Test Success Brings North Korea's Hwasong-18 ICBM Closer to
in Hypersonic Weapons	Deployment Iran's ballistic missile capabilities are a growing threat to Europe
Ukraine war: Russia targets Od with missile and drone attacks	esa Iran unveils what it calls a hypersonic missile able to beat air defenses amid tensions with US

#### NORTHROP GRUMMAN

### **Key Missile Defense Challenges and Opportunities**

#### Today's Rapidly Evolving Threats...

- Hypersonics
- Emerging Rogue State ICBM Threats
- Cruise Missile Threats from Land, Sea, and Air
- C2 and Space-Based Systems
- Missile Defense Countermeasures
- UAVs and Small UAS
- Cyber Attack

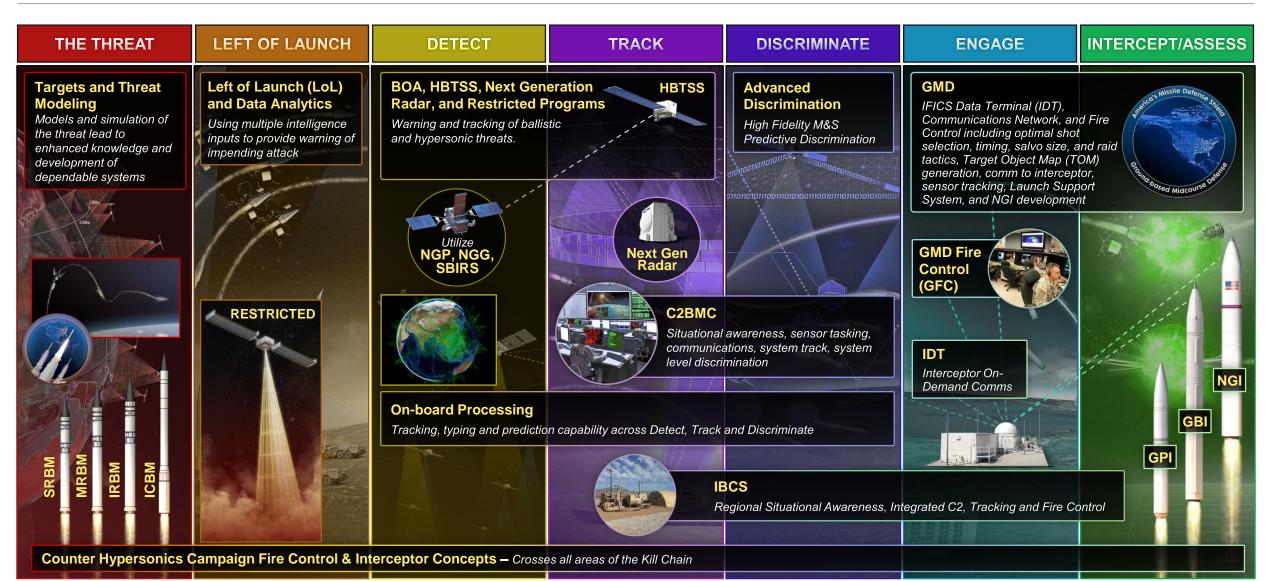


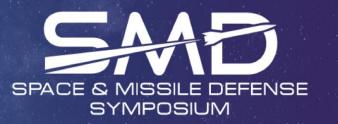
#### **Demand Next Generation Warfighting Capabilities:**

- Integrated Joint Sensor Networks
- Next Generation Battle Management
- Cyber Resiliency
- Next Generation Kinetic Effectors
- Non-Kinetic Effectors
- International Cooperation



### **Northrop Grumman's Kill Chain Integration**





# LOCKHEED MARTIN Dr. Sarah Hiza

# **Our Shared Challenges**

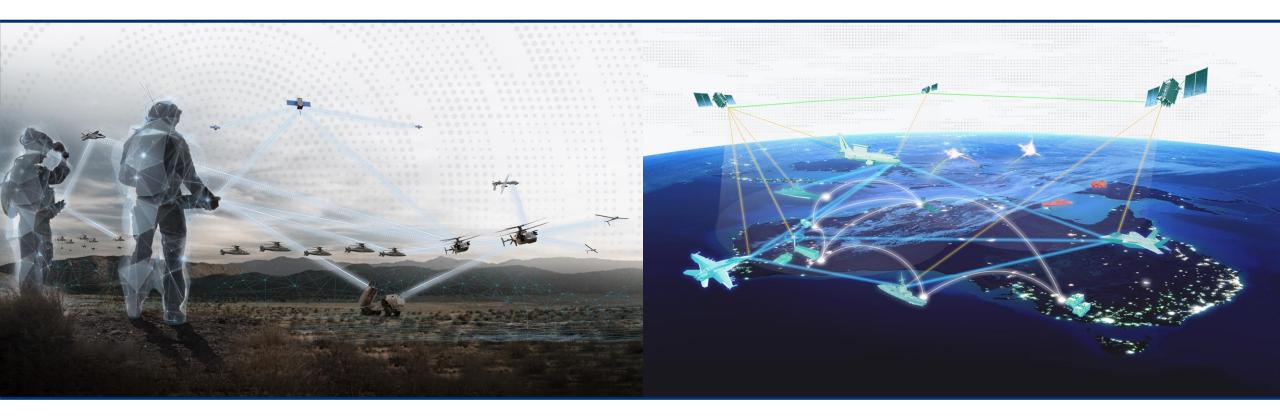


# **Solutions for Missile Defense Missions**

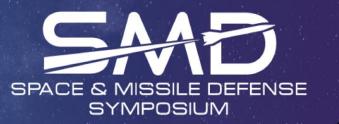


Lockheed Martin brings decades of experience and expertise supporting the missile defense mission, across the product lifecycle and all phases of flight.

# AI, Digital Technologies & Enablers



Advancing Global Space and IAMD Solutions



# LEIDOS

Dr. Arthur (Artie) Mabbett

# OUR **MISSION**

Leidos makes the world safer, healthier, and more efficient through technology, engineering, and science.

### OUR VISION

Become the global leader in the development and application of technology to solve our customers' most demanding challenges.

Engage, develop, and empower our diverse and valued people to foster a culture of creativity and growth.

Strengthen our communities through volunteerism, sustainable operations, and the advancement of equality.







INNOVATION

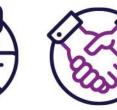




INTEGRITY

INCLUSION





AGILITY

COLLABORATION COMMITMENT



leidos



#### **SMD Industry Panel**

Dr. Artie Mabbett, Aug 2023



### Innovating at the "Speed of the Mission"



Speed and Agility to meet our Peer Adversary Capabilities

Foundational Crosscutting Innovation for Competitive Advantage



Innovation in Business Constructs to allow Speed and Agility



Emphasis on Rapid, Innovative Solutions for New Threats



Better Collaboration across the Defense Ecosystem



Fostered by Acquisition, Requirements and Budgeting Communities

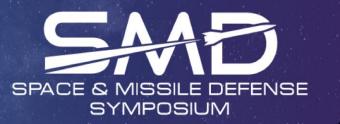










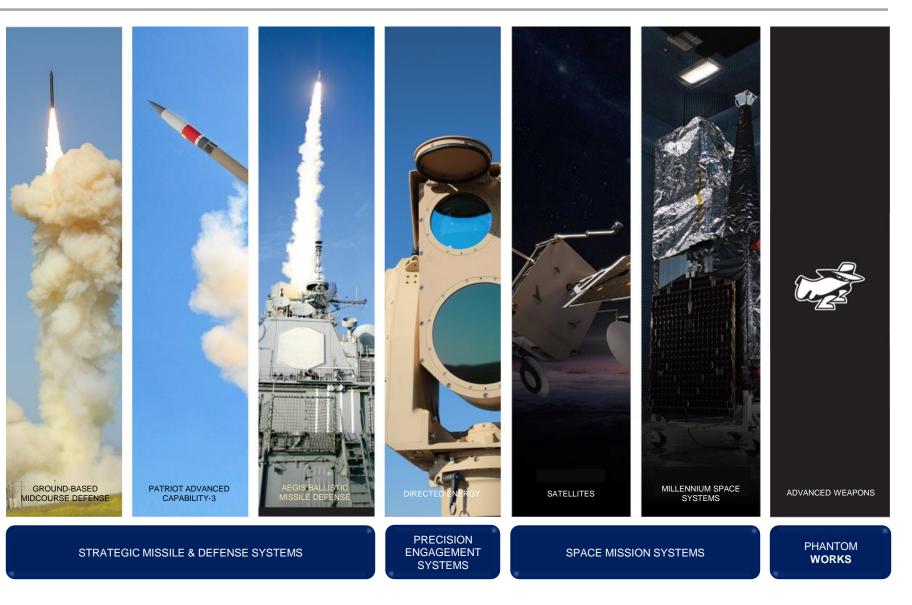


# **BOEING** Ms. Debbie Barnett

### **BOEING** Space, Intelligence & Weapon Systems



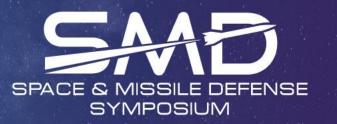
20 PRIMARY LOCATIONS SUPPORTING SPACE & WEAPON SYSTEMS







### DIGITALLY ADVANCED. SIMPLY AND EFFICIENTLY PRODUCED. INTELLIGENTLY SUPPORTED.



# **QUESTIONS?**