

# Defending America at Home and Abroad

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Mr. Jim Bryan, [Boeing](#)  
Executive Director for Integrated Air and  
Missile Defense

Mr. Bob Kelley, [RTX](#)  
Senior Director for Land and Air Defense  
Solutions

Mr. Steve Layne, [Lockheed Martin](#)  
Vice President, Strategic & Missile Defense  
Systems

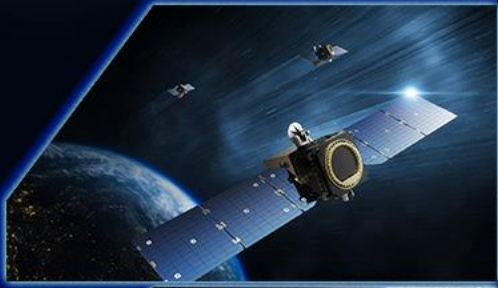
Mr. Jason Morgan, [Leidos](#)  
Chief Technology Officer

Ms. Jackie Schmoll, [Northrop Grumman](#)  
Vice President, Enterprise Next-Gen Layered Homeland  
Defense

Mr. James Johnson, [Parsons](#)  
Senior Vice President, Space Solutions Sector

# BOEING

Mr. Jim Bryan





# RTX

Mr. Bob Kelley







# LOCKHEED MARTIN

Mr. Steve Layne

# Rebuilding the Arsenal of Freedom

2026 Space and Missile Defense Symposium

Steve Layne  
Vice President & Deputy General Manager  
Strategic and Missile Defense Systems  
Lockheed Martin Space



# NGI: Missile Assembly Building (MAB-5) Opens

## Expanding Industrial Base

- 88,000-square-foot purpose-built facility opens
- Synergized with new Troy, Alabama facility

## Integrated Defense Backbone

- Open system architecture
- Designed for in-silo updates

## Digital Factory Efficiency

- Digital twin methodology reduces risk
- Data-driven production drives faster delivery times



# NGI: Proven Milestones Driving Toward Build in 2027

## Programmatic Momentum

- Program is vibrant and moving toward CDR, the final milestone before build

## Proven Hardware Milestones

- Second-stage motor case passes pressure test
- Proves advanced motor architecture can meet harsh conditions with precision performance
- Sensors and electronics moving through final CDRs, critical tests and early builds

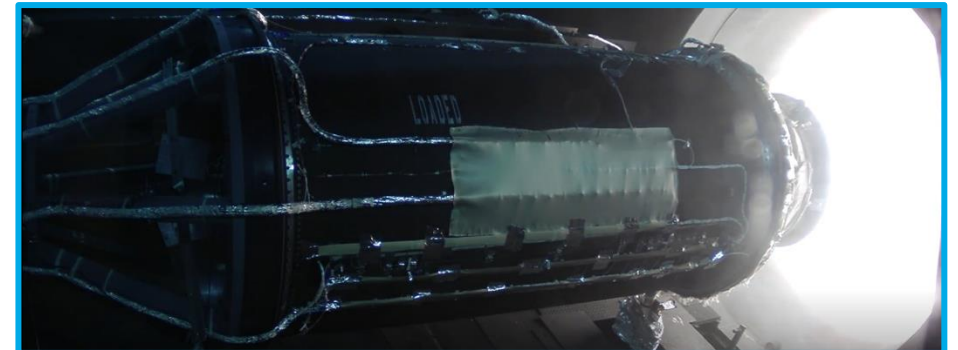
# NGI: Stage 2 Solid Rocket Motor Completes Vacuum Test

## Low-Earth Orbit Validation

- Tested in a high-vacuum chamber replicating low-earth orbit (LEO)
- Confirmed key performance metrics for thrust & combustion safety
- L3Harris Stage 2 motor meets demanding thermal limits

## Critical Path to CDR

- Empirical test data directly informs final interceptor design
- Validates hardware readiness for fielding by 2030



# Advances in Hypersonics

## Modular Payload Delivery System

- **Speed to Capability:** Rapidly scales hypersonics to accelerate Department of War priorities.
- **Modular Architecture:** Standardized interfaces allow payload integration with minimal system impact.
- **Multi-Mission Flexibility:** Supports deep long-range strike, heavy payloads and missile defense.
- **Cost & Time Savings:** Eliminates the cost and delay of building single-purpose airframes.



## Partnership with Albany Engineered Composites

- **Strategic Collaboration:** Unites Lockheed Martin integration with AEC composite manufacturing.
- **Scalable Delivery:** Built for upcoming full-rate production hypersonic programs.
- **Bridging the Gap:** Moves flight-proven designs into high-rate, affordable production.
- **Industrial Capacity:** Strengthens the national security industrial base at required speed and scale.

# Dark Eagle at Valiant Shield



UNITED STATES  
06.06.2026

Photo by Staff Sgt. Brandon Rickert  
7th Infantry Division (Multi-Domain Command - Pacific)

Subscribe 11



Capt. Alexander Vahadji (left) assigned to 7th Infantry Division (Multi-Domain Command - Pacific) Adm. Samuel J. Paparo (center) Commander of U.S. Pacific Command and Lt. Col. Alexander Mullin (right) assigned to 7th Infantry Division (Multi-Domain Command - Pacific) observe soldiers training with the Dark Eagle Long-Range Hypersonic Weapon during exercise Valiant Shield, June 2026. Exercises like VALIANT SHIELD allow Pacific Command Joint Forces the opportunity to integrate forces from all branches of service and with our allies to conduct precise, lethal, and overwhelming multi-axis, multi-domain effects that demonstrate the strength and versatility of the joint force and our commitment to a free and open Indo-Pacific.(U.S. Army photo by Staff Sgt. Brandon Rickert)





# LEIDOS

Mr. Jason Morgan



## WHO WE ARE

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Leidos is an industry and technology leader serving government and commercial customers with smarter, more efficient digital and mission innovations.

Leidos Defense develops and produces advanced space, aerial, maritime, and ground platforms, creating value-driven, interoperable solutions for U.S. and allied warfighters.

# INTEGRATED SPACE & MISSILE DEFENSE BEGINS WITH MISSION UNDERSTANDING

- ▶ Global mission awareness is maintained across combatant commands, domains, and allied partners
- ▶ Integrated sensing creates a shared understanding of an increasingly complex operational environment
- ▶ Decision timelines continue to compress; decisions must be made at machine speed while maintaining human trust
- ▶ Decisive kinetic and non-kinetic effects deliver confident protection and response



Mission understanding transforms global awareness into operational advantage

# KILL CHAIN INTEGRATION

## Sense

- ▶ Space domain awareness
- ▶ Persistent surveillance
- ▶ Counter-UAS radar
- ▶ Advanced signal processing

## Decide

- ▶ Mission planning
- ▶ Orchestration of data, sensors, and effectors
- ▶ AI-enabled decision support and battle management

## Act

- ▶ Integrated Air and Missile Defense launcher
- ▶ Counter-UAS weapons
- ▶ Kinetic and non-kinetic mission effects



Integrated kill chain delivers speed, accuracy, and control to reduce risk and improve efficiency

# FROM MISSION UNDERSTANDING TO OPERATIONAL CAPABILITY

**MISSION UNDERSTANDING → INTEGRATED KILL CHAIN → OPERATIONAL CAPABILITY**

## **Mission Enablers**

- ▶ Mission engineering
- ▶ Modeling & simulation
- ▶ AI-enabled mission software
- ▶ Open Architectures
- ▶ Systems integration

## **Capability Delivery**

- ▶ Design and development
- ▶ Rapid prototyping
- ▶ Production at scale
- ▶ Trusted mission execution
- ▶ Lifecycle sustainment

Leidos combines in-depth decision support with robust mission orchestration across domains, systems, and partners to deliver synchronized, autonomous, and manned mission outcomes at scale.



# Northrop Grumman

Ms. Jackie Schmoll

# Meeting Today's Challenge of Next Generation Air and Missile Defense

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Space and Missile  
Defense Symposium

**Jackie Schmoll**

Vice President, Enterprise  
Next-Gen Layered  
Homeland Defense,  
Northrop Grumman

August 2026



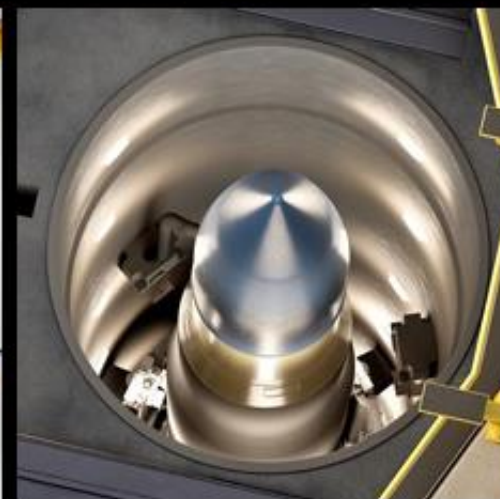
**Delivering modern, layered missile defense solutions  
that protect the homeland across all domains**

# Global Power – Made in Alabama



## MADISON and HUNTSVILLE

Northrop Grumman has been making history in Alabama since the 1950s resulting in decades of innovation in the defense industry. We have more than 1 million sq. ft. of facility space across Alabama with over 300,000 sq. ft. dedicated to delivering critical capabilities at speed.





# PARSONS

Mr. James Johnson



# IMAGINE NEXT

Creating The Future Of Space & Missile Defense

A Corporate Overview

**James Johnson**

Senior Vice President

Space & Missile Defense Solutions Sector Leader

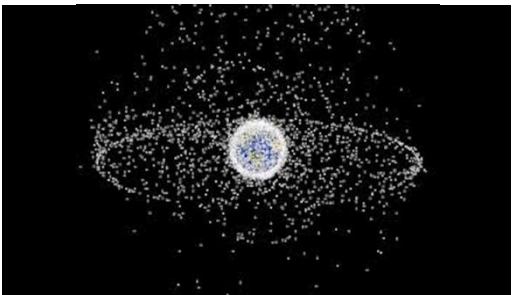




# SPACE SOLUTIONS MISSION AREAS & CAPABILITIES



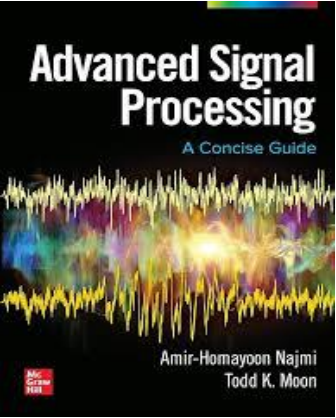
Cyber in Space



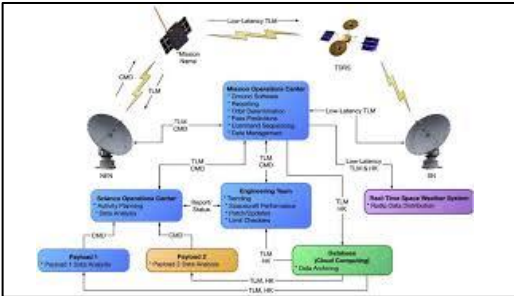
SSA/SDA/STC



Mission Operations



Signal Processing



C2/TT&C



AI/ML/Patterns of Behavior



Missile Defense SE&IT



Launch Mission Integration



Phased Array Antennas

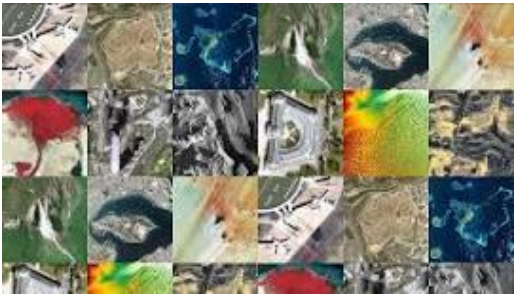


Image Processing



SETA Support



## Turning Organizational Complexity into Human/AI Powered Decisions

We design the data foundations, semantic models,  
and intelligent systems that let organizations  
understand themselves – and act faster!

### Data Pipelines

Reliable,  
production-grade  
pipelines that move,  
clean, and structure  
enterprise data at  
scale

### Ontologies & Knowledge Models

Formal  
representations of  
business concepts  
and relationships  
that make data

AI-ready

### Intelligent Apps

Custom applications  
that put advanced  
analytics and AI  
directly into  
operational workflows

### Decision Systems

AI solutions  
that surface insight  
and accelerate  
high-stakes  
decision-making



# Building a Digital Twin of the Organization

## What This Looks Like in Practice

### Semantic Layer

Modeling real business processes, entities, and relationships so machines can reason about them

### Operational Tools

Applications that embed data and AI into the daily work of teams across the organization

### Living Model

A continuously updated digital representation of how the organization actually functions

## Why This Work Matters

We work at the intersection of data engineering, knowledge representation, and applied AI — building systems that help organizations make better decisions faster.

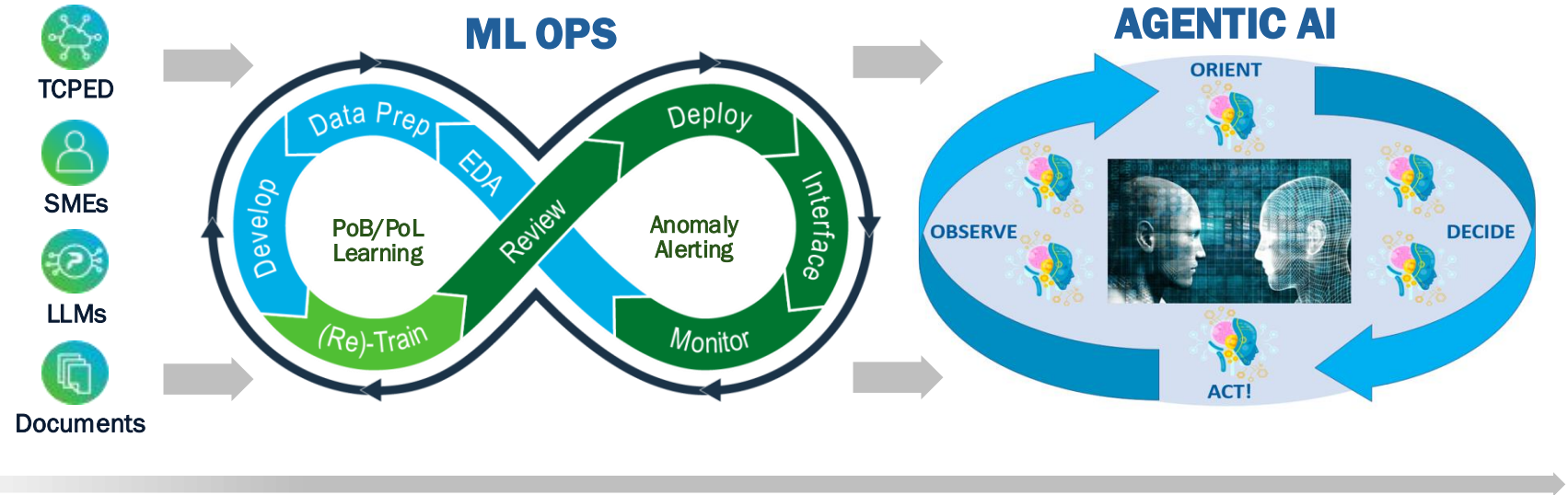
- 01 Real production systems, not just prototypes
- 02 Deep semantic modeling of complex domains
- 03 Direct line from data to operational impact

# Deployed – Proven – Trusted AI/ML Solutions

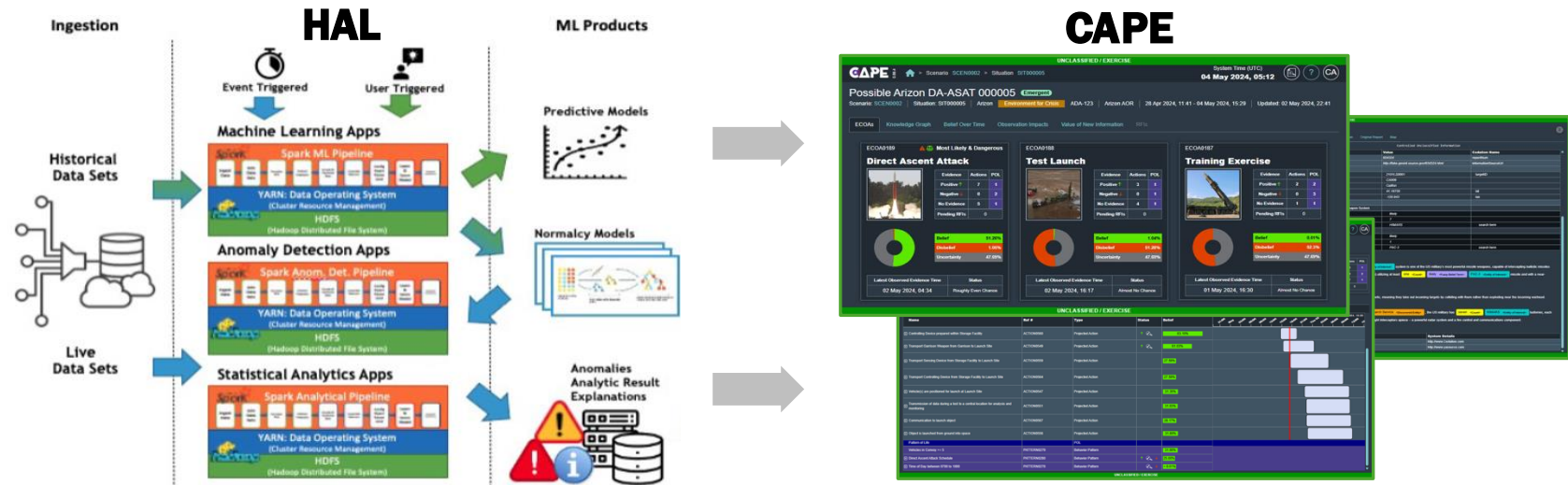


- ✓ Reusable AI-ML Frameworks & Algorithms
- ✓ R/T Integration with TCPED Systems
- ✓ Novel Pattern-of-Life Learning, Anomaly Detection & Ensembling Algorithms
- ✓ Adversary Goal & Plan Recognition
- ✓ Dynamically Generated Bayesian Networks for Uncertainty Quantification
- ✓ Decision Acceleration via RFI Automation & Natural Language Interfaces
- ✓ Intuitive Human-Machine Teaming Interfaces
- ✓ Commercial & GOTS Options
- ✓ Operationally Deployed & Sustained on JWICS via SSC/BMC3I PoR

## Frameworks



## Products





# QUESTIONS?