



NEXUS

NAVAL ENTERPRISE EXECUTION
& UNIFIED SYSTEMS

Connecting the Digital Shipyard Enterprise

Transforming Digital Investments
into Operational Outcomes

Powered by

appian



DATA TO DECISIONS.



DECISIONS TO READINESS.

The Next Evolution of Shipyard Modernization

Building on Decades of Progress. Advancing to Operational Outcomes.



**INDUSTRIAL
MODERNIZATION**

Foundational
Capabilities



**INFRASTRUCTURE
MODERNIZATION**

Capacity and
Facilities



**DIGITAL
MODERNIZATION**

Systems and
Information



**OPERATIONAL
MODERNIZATION**

Process and
Synchronization



**READINESS
MODERNIZATION**

Predictive and
Outcome-Driven



The industry has made significant investments in infrastructure, facilities, digital engineering, and technology modernization. The next opportunity is transforming those investments into measurable operational outcomes.

The Digital Shipyard Ecosystem

Many Systems. One Mission.



The challenge is no longer creating digital information.
The challenge is connecting decisions across the enterprise.

Visibility Is Not Enough

From Data to Readiness Outcomes





Introducing NEXUS

Connecting People. Processes. Systems. Assets.

NEXUS connects people, processes, systems, and assets into a unified operational environment capable of accelerating shipyard performance and fleet readiness.



UNIFY

Connect across the enterprise



UNDERSTAND

Gain process intelligence



DECIDE

Make better, faster decisions



IMPROVE

Continuously optimize performance



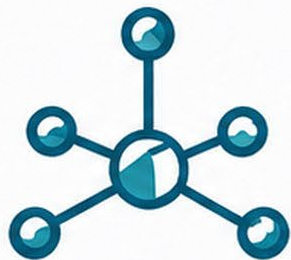
ACHIEVE

Accelerate readiness outcomes

What Makes NEXUS Different

Four Core Capabilities. One Unified Platform.

OPERATIONAL SYNCHRONIZATION



- Connect people, processes, and systems
- Break down silos and handoffs

PROCESS INTELLIGENCE



- Understand how work really happens
- Identify bottlenecks and risk

CONFIGURATION INTELLIGENCE



- 3D context for every asset and system
- Real-time configuration status and changes

PREDICTIVE READINESS

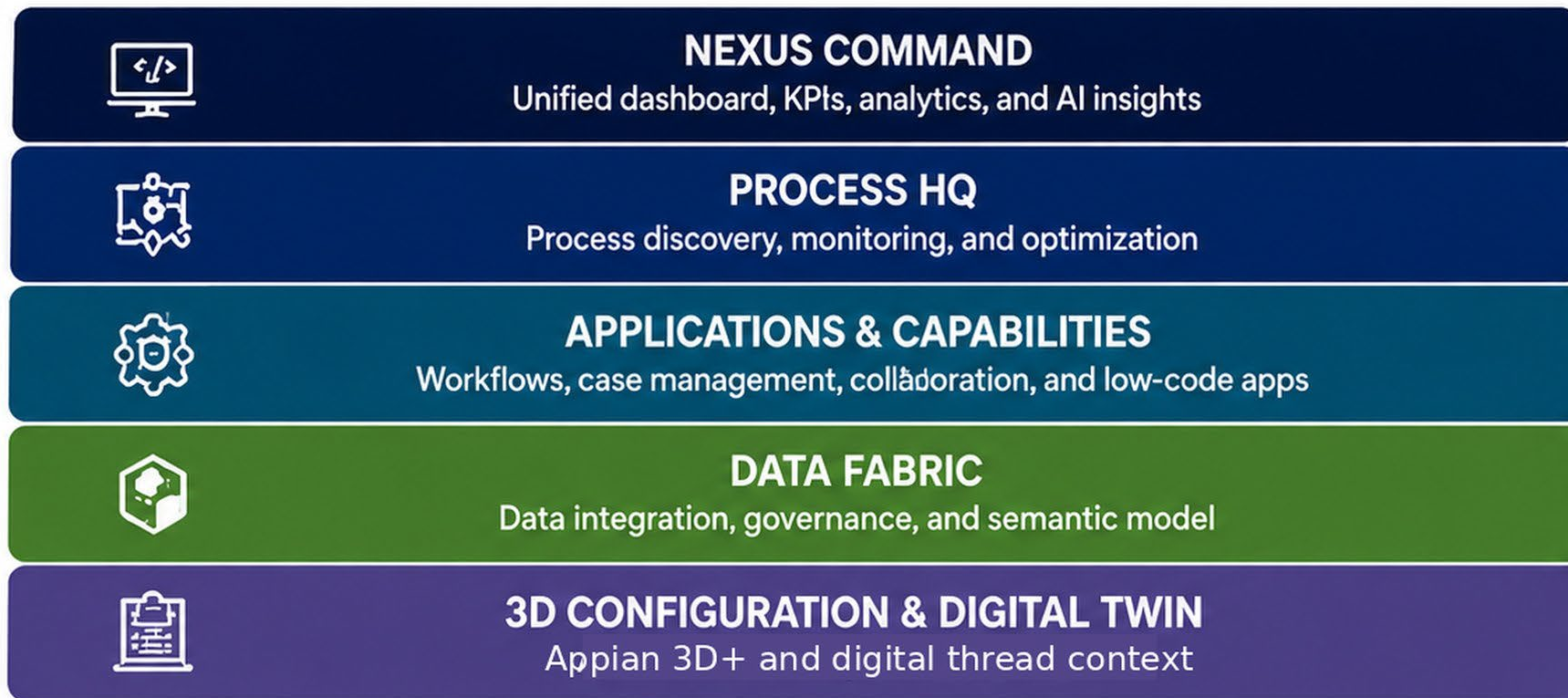


- AI-driven forecasting and risk assessment
- Improve current and future readiness

Transforming digital investments into operational outcomes.

NEXUS Architecture

A Unified Platform That Extends and Enhances Existing Investments



ENTERPRISE SYSTEMS (Preserve and Extend)



PLM



ERP



MES



P6 / Scheduling



Quality



Maintenance



Other Systems

PLATFORM ENABLERS



AI & MACHINE
LEARNING



SECURITY
COMPLIANCE



WORKFLOW &
AUTOMATION



COLLABORATION
& MOBILE



CROSS-CUTTING
SERVICES

NEXUS Digital Twin

A Living Operational Decision Environment



CONFIGURATION STATUS

Real-time configuration and change visibility



MATERIAL AVAILABILITY

Inventory and critical material status



WORK PACKAGE PROGRESS

Execution status and schedule performance



ENGINEERING CHANGES

Impact assessment and approval tracking



QUALITY FINDINGS

Deficiencies, NCRs, and resolutions



EQUIPMENT READINESS

Asset health and operational status



MAINTENANCE STATUS

Work orders, condition, and downtime



READINESS FORECAST

AI-driven prediction of current and future readiness



Real-Time Data



AI & Analytics



Process Intelligence



Actionable Insights

NEXUS Command Center

Executive Visibility. Operational Control. Mission Impact.

FLEET READINESS

75%

On Track



DRY DOCK UTILIZATION

82%

On Track



WORK PACKAGES

1,248

Active



COST PERFORMANCE

-3.2%

Under Budget



SCHEDULE PERFORMANCE

-6.7%

Ahead of Plan



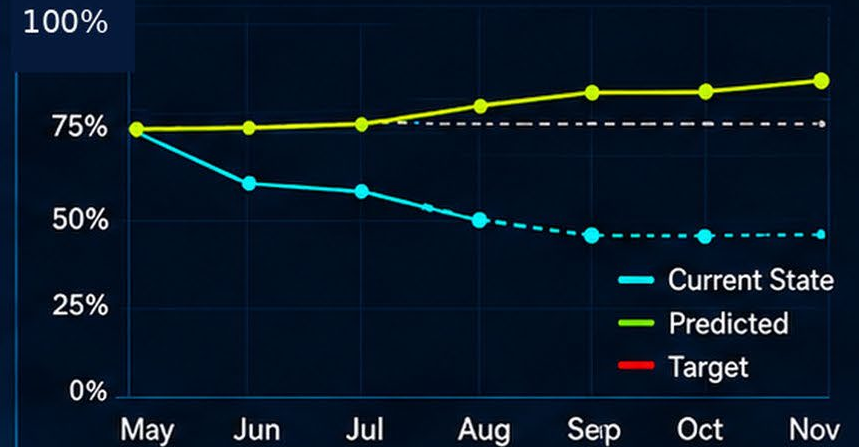
YARD OVERVIEW



RISK & ISSUES

Risk	Impact	Status
Material Delay - Propulsion	High	Open
Engineering Change Backlog	High	Open
Inspection Resource Constraint	Medium	Open
Vendor Performance	Medium	Open
Critical Spares Availability	Low	Low

READINESS FORECAST



People



Processes



Systems



Assets



Decisions



Readiness