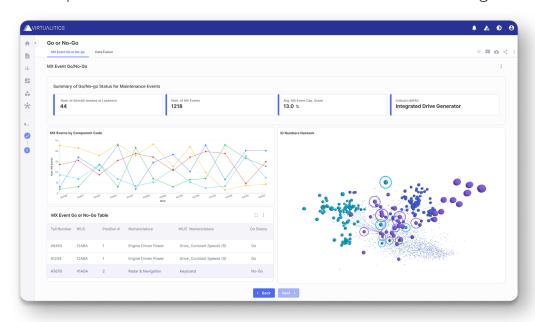


Integrated Readiness Optimization

Exceptional mission readiness demands holistic strategies



Disconnected data systems leave teams without answers and put your mission at risk. Virtualities transforms data into impact with AI-powered Integrated Readiness Optimization (IRO) applications to improve availability and meet objectives.

AI Makes Integrated Resource Optimization Applications Possible

Powerful AI methodologies fuel each IRO application, synchronizing data across sources to provide an unparalleled view of what is impacting your mission.







IRO Cognition



IRO Materiel



IRO Cyber

Informed Decision-Making Leads to Strategic Wins

IRO Applications guide teams to take impactful action and deliver significant value by combining the science of AI with the knowledge of subject matter experts.

- Enhanced Coordination
- Synergized Resource Allocation
- ► Effective Risk Mitigation
- Reduced Unplanned Downtime
- Increased Productivity
- Maximized Mission Readiness



IRO Maintenance

Avoid Operational Downtime and Maximize Mission Readiness

Maintenance operations leaders often face siloed technology and manual data aggregation in their efforts to answer mission-critical questions.

IRO Maintenance empowers teams to maintain peak operational readiness by considering inventory, manning, and repair equipment constraints simultaneously.

IRO Maintenance shows:

What is about to fail?

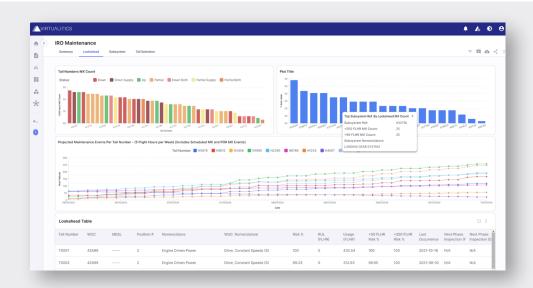
Identify components and assets at risk and when failure is likely.

How should you respond?

Schedule maintenance to optimize resources and availability.

What if?

Find solutions to unanticipated challenges.



AI-Powered Sustainment Operations

IRO Maintenance is based on four key areas that impact operational readiness.



Asset Risk Assessment

Run machine learning survival analysis to determine when and why a component is going to fail.



Resource Constraint Analysis

Identify limiting factors across inventory, staffing, and repair equipment based on current, scheduled, and predicted needs.



Operational Planning

Simulate strategies and surges in asset usage to determine impacts on operations and availability.



Scheduling Optimization

Optimize maintenance schedules based on resource constraints, asset usage, and uptime requirements.

Deployed at Scale in the Mission Today

10 Years

Historical Data + Backtesting

Across 161 bombers, 495 launch facilities, and 99K critical maintenance events

10+ US Patents

Supporting IRO

Our growing patent portfolio demonstrates the level of innovation in IRO applications

3 Months

Time to Value

From contract award to fielding for additional platforms

24%

Open + Scheduled MX Flagged

Potential improvement in jobs flagged as "No-Go" by IRO based on resource constraint analysis

1 Million+

AI-Generated Insights

Insights drive strategic prioritization and actionable recommendations

32%

Improved Scheduling

Potential improvement in the efficiency of scheduling team process

