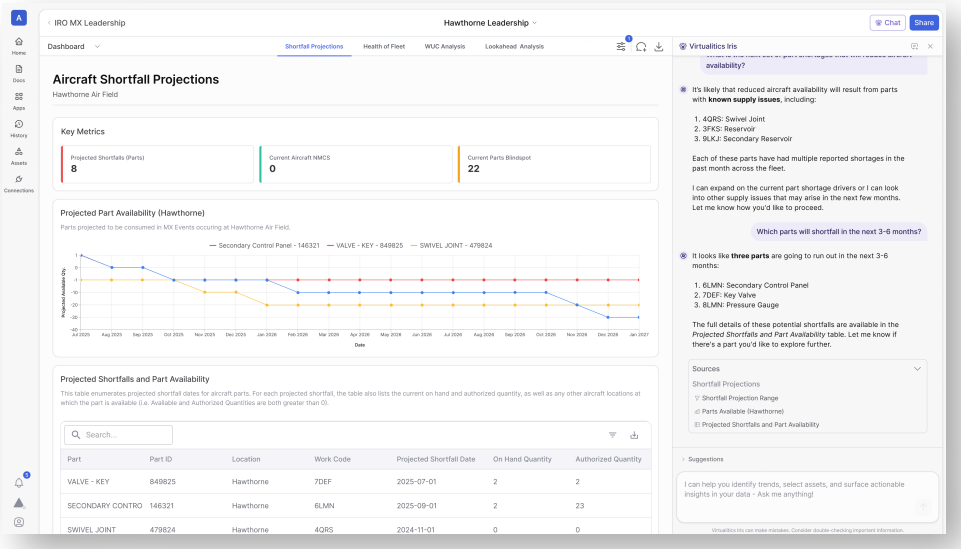
VIRTUALITICS®
THE MISSION AI COMPANY

Integrated Readiness Optimization

Exceptional mission readiness demands holistic strategies



Disconnected data systems leave teams without answers and put your mission at risk. Virtualitics transforms data into impact with AI-powered applications to improve availability and meet objectives.

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Virtualitics Iris

An intuitive **Chat Interface** enables the use of natural language to quickly and easily find relevant and critical insights in readiness data.

Readiness AI Agents are purpose-built to generate and surface insights within a specific mission context while operating with awareness of institutional structures and stakeholder expectations.

AI Makes Integrated Readiness 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 Maintenance | **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.

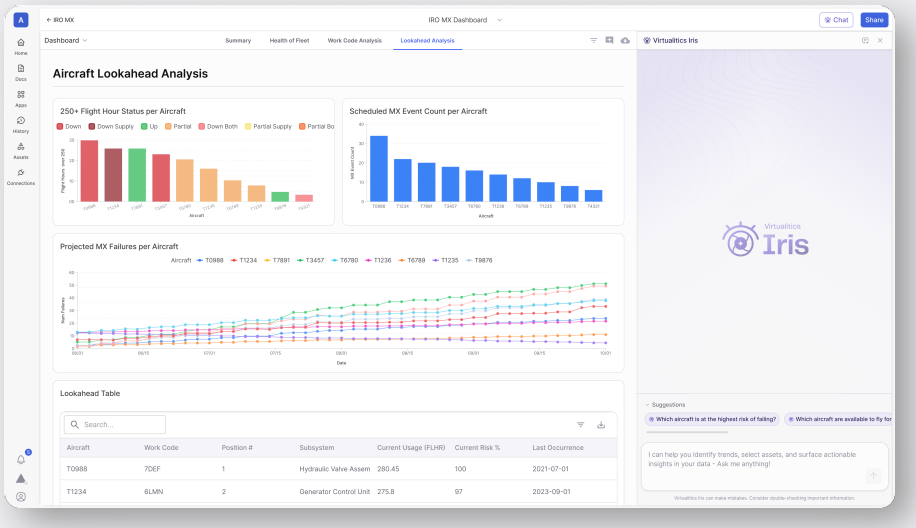
IRO Maintenance empowers teams to maintain peak operational readiness by considering inventory, manning, and repair equipment constraints simultaneously.

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.

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

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

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

3 Months
Time to Value
From contract award to fielding for additional platforms

1 Million+
AI-Generated Insights
Insights drive strategic prioritization and actionable recommendations

10+ US Patents
Supporting IRO
Our growing patent portfolio demonstrates the level of innovation in IRO applications

24%
Open + Scheduled MX Flagged
Potential improvement in jobs flagged as "No-Go" by IRO based on resource constraint analysis

32%
Improved Scheduling
Potential improvement in the efficiency of scheduling team process