



# SMARTER SKIES: ADVANCING FLEET RELIABILITY THROUGH AI-DRIVEN INSIGHTS & TOOLS

**Dave Purfurst**

Director, Solutions Consultant

# OVER 50 YEARS OF INNOVATION



Our mission has never wavered over our 50+ years – to provide products and services that safely and reliably get your aircraft off the ground and back into the sky.

As the industry has changed, so has Veryon – adding new capabilities, expanding into new markets, constantly innovating – to better serve you, our customers.

**Let's Get You More Uptime®**



## ATP TAKES FLIGHT

ATP launches Publications in 1970, revolutionizing how aircraft technical publications are organized and distributed to drive smarter and efficient troubleshooting for business and general aviation.



## CASEBANK TECHNOLOGIES

ATP adds Diagnostics, expanding into the commercial troubleshooting market, building upon publications hub foundation while also adding chronic diagnostics capabilities.



## FLIGHTDOCS

ATP adds Tracking, a market leader in maintenance tracking, addressing customer needs for integrated publications and tracking in the business and general aviation.



## VERYON REBRAND

New brand represents the product portfolio and better captures the spirit of the company, both past and future, established a unified vision as **Veryon**.



## RUSADA

Company adds Tracking+ product while also expanding into the international markets and strengthens MRO capabilities.



## RCMBT

Veryon adds Reliability, adding predictive analytics for both parts and fleet performance.

# VERYON PRODUCT PORTFOLIO



Comprehensive aviation software capabilities from maintenance to reliability to troubleshooting

PRODUCT LINE	VERYON PUBLICATIONS	VERYON TRACKING	VERYON TRACKING +	VERYON DIAGNOSTICS
PRODUCT OR ADD-ON	Technical Publications	Technical Publications		Guided Troubleshooting
	Profile & Compliance	Maintenance Tracking	Maintenance Tracking	Defect Analysis
		Work Center	MRO – Base and Component	Fleet and Parts Reliability Analytics
		Inventory Management	Inventory Management	Fleet Reliability Reporting Services
		Flight Operations	Flight Operations	Data Cleaning and Management
		OEM Aircraft Data	Employee Management	OEM Digital Fault Isolation Material
			Quote & Invoice Management	

End User Focus:

Operator	MRO/Repair Station	Operator/MRO Repair Station	OEM/Operator	OEM Services
----------	--------------------	-----------------------------	--------------	--------------

# LARGEST FOOTPRINT: EXPERIENCE, TAILS, INSIGHTS



*Integrated platform connecting aviation insights across the market*

## Decades of Experience Supporting Aviation



**50+**

Years of industry experience

**320+**

Employees with decades of aviation experience

**61K**

Users with ~10 years of experience

**25**

Portfolio Product Net Promoter Score

## With Broad Reach and Access Across the Market



**43K**

Total Distinct Tails

**5,000+**

Unique Customers

**1.2K+**

Distinct Makes/Models

**100+**

Distinct OEMs users

## Generating Insights for Comprehensive Maintenance & Reliability



**86.1M+**

Maintenance Events

**1.3M**

Total Parts

**2M+**

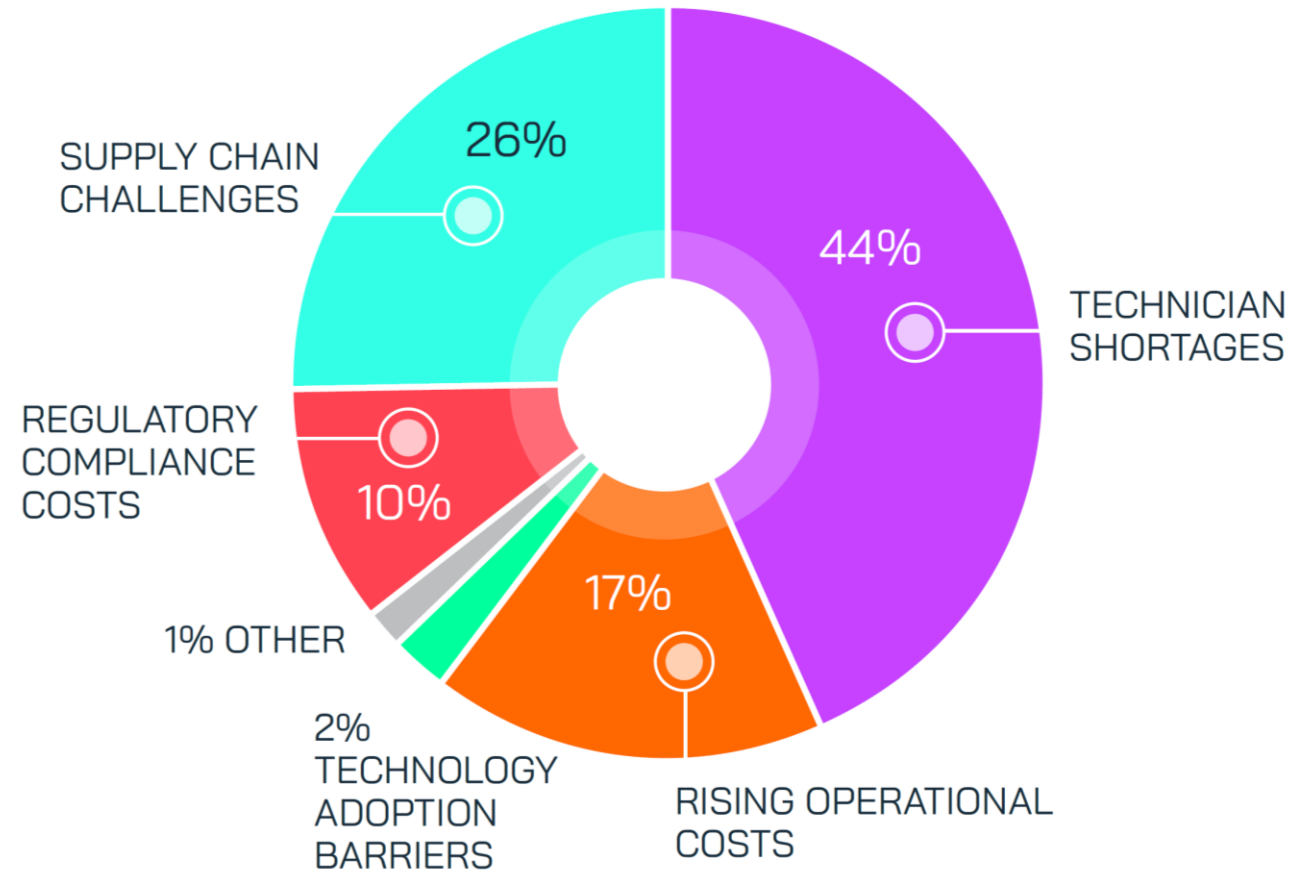
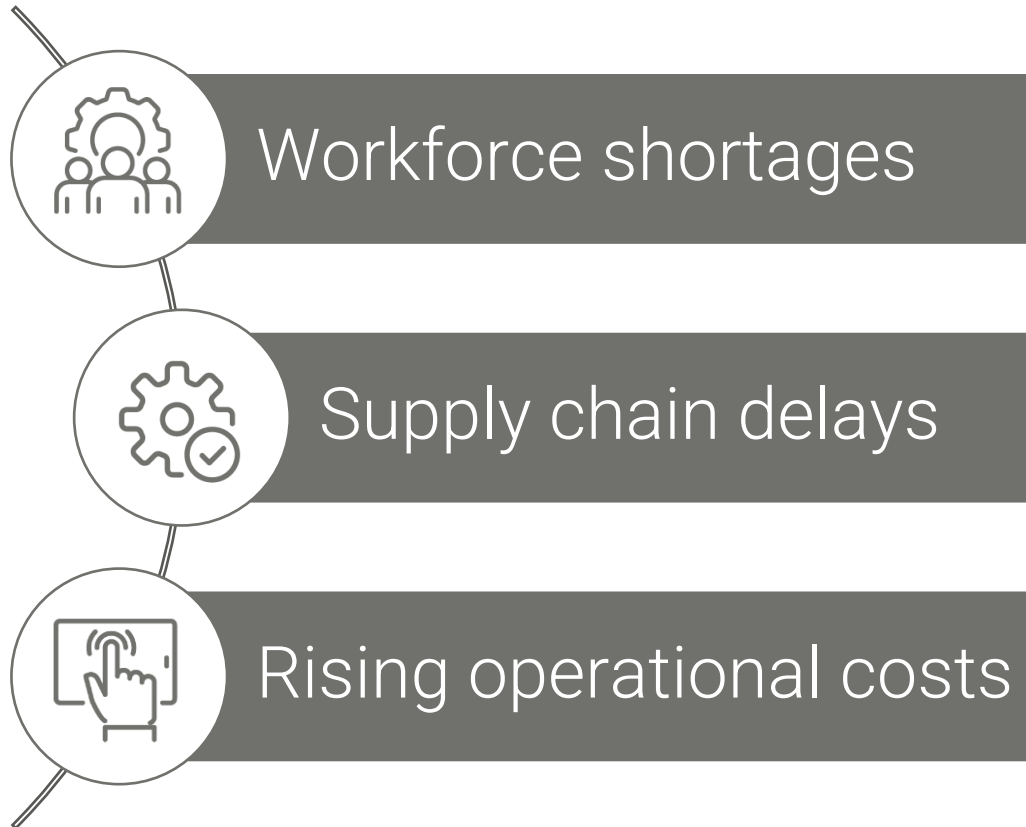
Chronic Events

**1.5K**

Worldwide Repair Stations

# WHAT WE HAVE HEARD

*We understand the top challenges and are uniquely positioned to solve them*



Source: 2025 Aviation Maintenance Benchmark Report

# VERYON EXPERIENCE

How Veryon is transforming towards an integrated experience across our solution portfolio



# VERYON EXPERIENCE

*An all-in-one in platform delivering solutions across flight operations and maintenance teams.*



## Why it Matters for our Customers

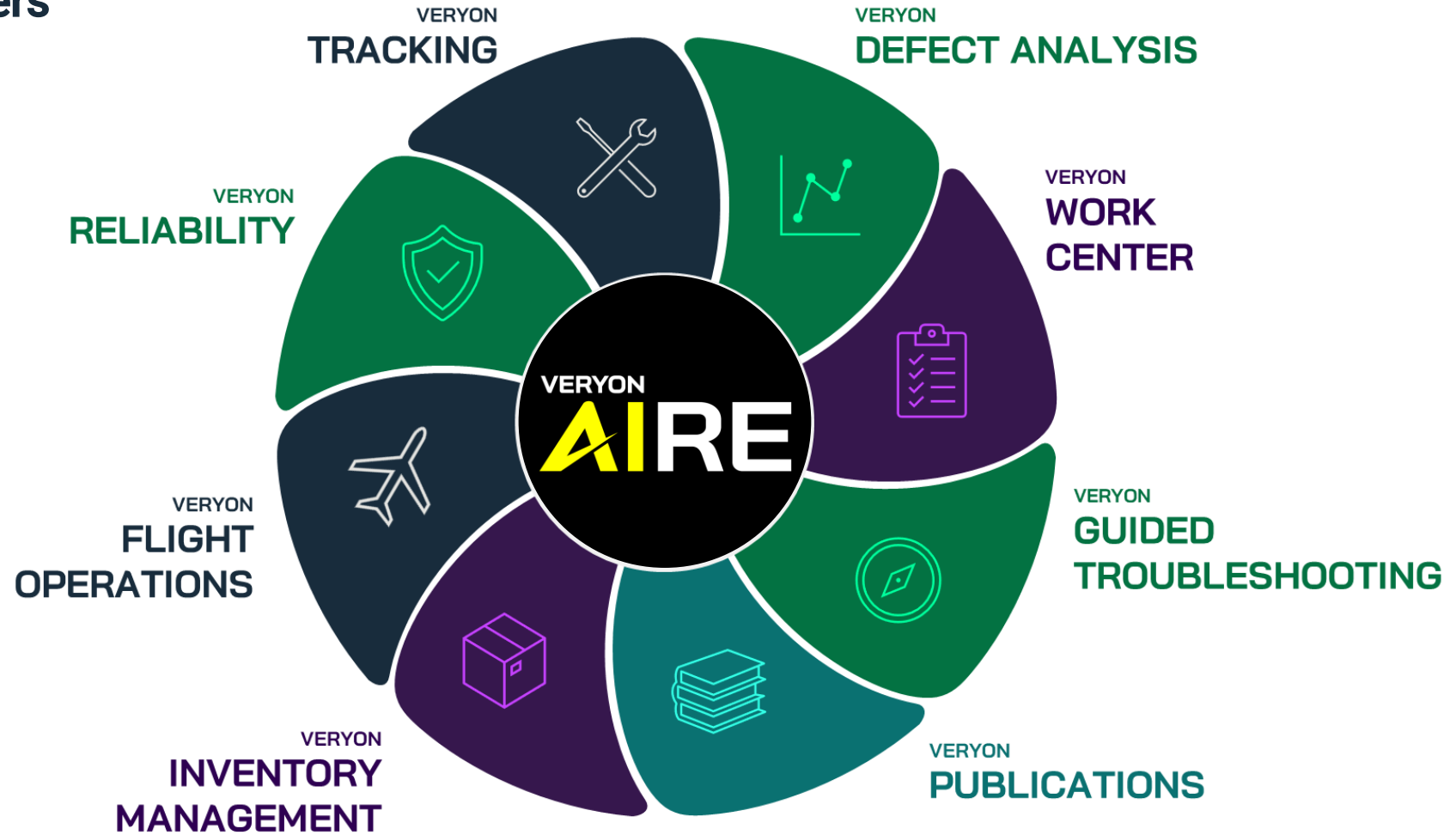
**Unified Experience:** Purpose built for each user profile and job to be done.

**Unified Workflow:** Integrated products allow maintenance, reliability, and operations teams to work together effectively.

**Unified Data Insights:** One source of truth to unleash the power of predictive analytics.

**Unified Platform:** Reduce system complexity, costs, and risk with SSO across Veryon products.

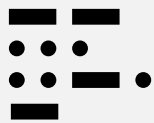
**Unified Intelligence:** Enabled with Veryon AI across all products.





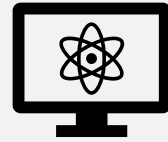
# DATA SCIENCE AT VERYON

*How we are investing in AI to leverage data and algorithms to find problems before they happen*



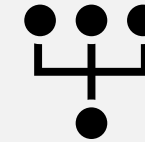
**Data Engineering:**  
Ingestion, processing and integrations.

Ingest over 2,000 daily files containing maintenance events.



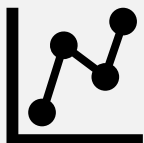
**Machine Learning:**  
Classification and clustering.

On average, created 41,247 clusters and classified 807,390 events



**Natural Language Processing:**  
Model dev and tuning.

3000+ iterations of NLP algorithms in Fix Prediction



**Statistical Analytics:**  
Pattern and trend discovery.

20+ trending categories.



**Generative AI:**  
Knowledgebases, media processing, and model mgmt.

Access to 100+ secure foundation models.



**Business Intelligence:**  
Dashboards and reporting.

Veryon portfolio: 200+ dashboards and 370+ reports.



# AI THAT TRANSFORMS MAINTENANCE: **SMART. FAST. PREDICTABLE.**



## AI FOR AVIATION MAINTENANCE AND RELIABILITY



Your Airworthiness and Reliability AI Partner

# HOW IT WORKS



*An integrated, AI-powered approach to keep your fleet flying with fewer delays, lower costs, and smarter decisions.*

## Real Predictive Maintenance



Veryon helps make the unscheduled, scheduled, providing you with insight into maintenance issues and potential part failures before they unexpectedly take your aircraft out of service.

## Smarter, Faster Fixes



Veryon helps make the unscheduled, scheduled, providing you with insight into maintenance issues and potential part failures before they unexpectedly take your aircraft out of service.

## Intelligent Fleet Management



Our AI-enabled solutions translate critical maintenance data into real-time insights and workflows for more efficient fleet management.

## Powerful Insights & Analytics



Identify failure patterns, predict short-life components, and forecast rogue parts before they fail.

## Predictive Troubleshooting



Cut troubleshooting steps by up to 75% with intelligent fault detection and real-time defect analysis.

# VERYON AIRE IN ACTION

Bringing it all together to provide analytics and insights across the product suite



Proprietary AI platform and data science fuel agentic applications

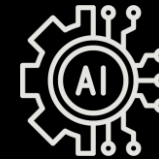
**Meaningful Insights**



**Customer Data**



**Veryon Algorithms**



**Veryon Data**



Driving Insights within Veryon product portfolio

Processing your data in Veryon's secure environment and enriching it with AIRE analytics

Advanced Clustering and NLP algorithms tuned over last 15 years, augmented with Generative AI

The industry's largest de-identified aircraft dataset

# DELIVERING REAL RESULTS



*Improving fleet availability, mechanic efficiency, financial outcomes, and safety*

**12%**

Increase in aircraft availability

**31%**

Reduction in repeat defects with improved first-time fix rates

**5%**

Reduction in unnecessary component replacement and parts expense

**75%**

Reduction in troubleshooting time for new technicians

**7%**

Improvement in fix effectiveness...even with limited sensor data

**23%**

Reduction in downtime related costs

# MORE THAN 25% OF THE WORLD'S COMMERCIAL FLEET RELY ON VERYON DIAGNOSTICS



To help them achieve an average 75% reduction in troubleshooting time for new techs and 23% reduction in downtime cost.

# LARGE NORTH AMERICAN AIRLINE + VERYON DIAGNOSTICS



*Driving chronic defect reduction and operational efficiency at scale*

## Background



- Maintenance Control manages a nationwide fleet, tackling chronic and hard-to-fix issues
- Legacy ATA-based system was slow, manual, and blind to cross-chapter issues

## Solution



- **Veryon Defect Analysis** with Natural Language Processing + Linguistics Database
- Near real-time chronic defect alerts
- Fleet-level clustering, first-time fix classification, and advanced search capabilities
- Integrated dashboards, KPIs, and custom alerts tied to operational impact

## Results & Impact



- Increased chronic issue awareness → more rapid resolution
- **Manpower shift** from searching for problems to fixing them
- Expanded chronic window from *3 in 30 days* to *3 in 45 days* due to reduced recurrence
- Faster reaction time: high-priority issues surfaced instantly
- Enhanced troubleshooting accuracy via synonym recognition across decades of fleet data



**QUESTIONS?**



# READY TO ELEVATE YOUR MAINTENANCE OPERATIONS?

Experience the transformative power of AI-powered predictive maintenance firsthand with a personalized demo.

**Please visit the team  
to learn more**