

avathon.

Industrial AI and the autonomous supply chain.

INFRASTRUCTURE RUNS THE WORLD.
WE KEEP INFRASTRUCTURE RUNNING.



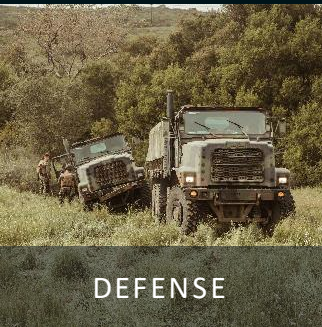
PRODUCTIVITY



SAFETY



SUSTAINABILITY



DEFENSE



AUTOMATION



Global Supply Chains and \$100T of Infrastructure are Under Stress.

Evolving Supply Chains | Underperforming Assets |
Aging Workforce | Climate Change | Urbanization |
Defense Readiness | Skill Gaps | Supply Disruptions
| Resource Scarcity | Population Growth |
Cyberattacks | and more...

Industrial focus on 4 verticals and 1 horizontal

INDUSTRIAL AI PLATFORM

AI-powered products on a unified data platform to unlock the full potential of infrastructure, assets, and supply chains—driving actionable insights and delivering workflow transformation



ENERGY



Sufficient, sustainable, and reliable **Oil & Gas** and **Renewable** energy production

AEROSPACE & DEFENSE



Defense readiness and seamless **Commercial Aviation** operations

MINING



Build, design and automate the next-generation **tech forward** mining operations

RETAIL & CPG



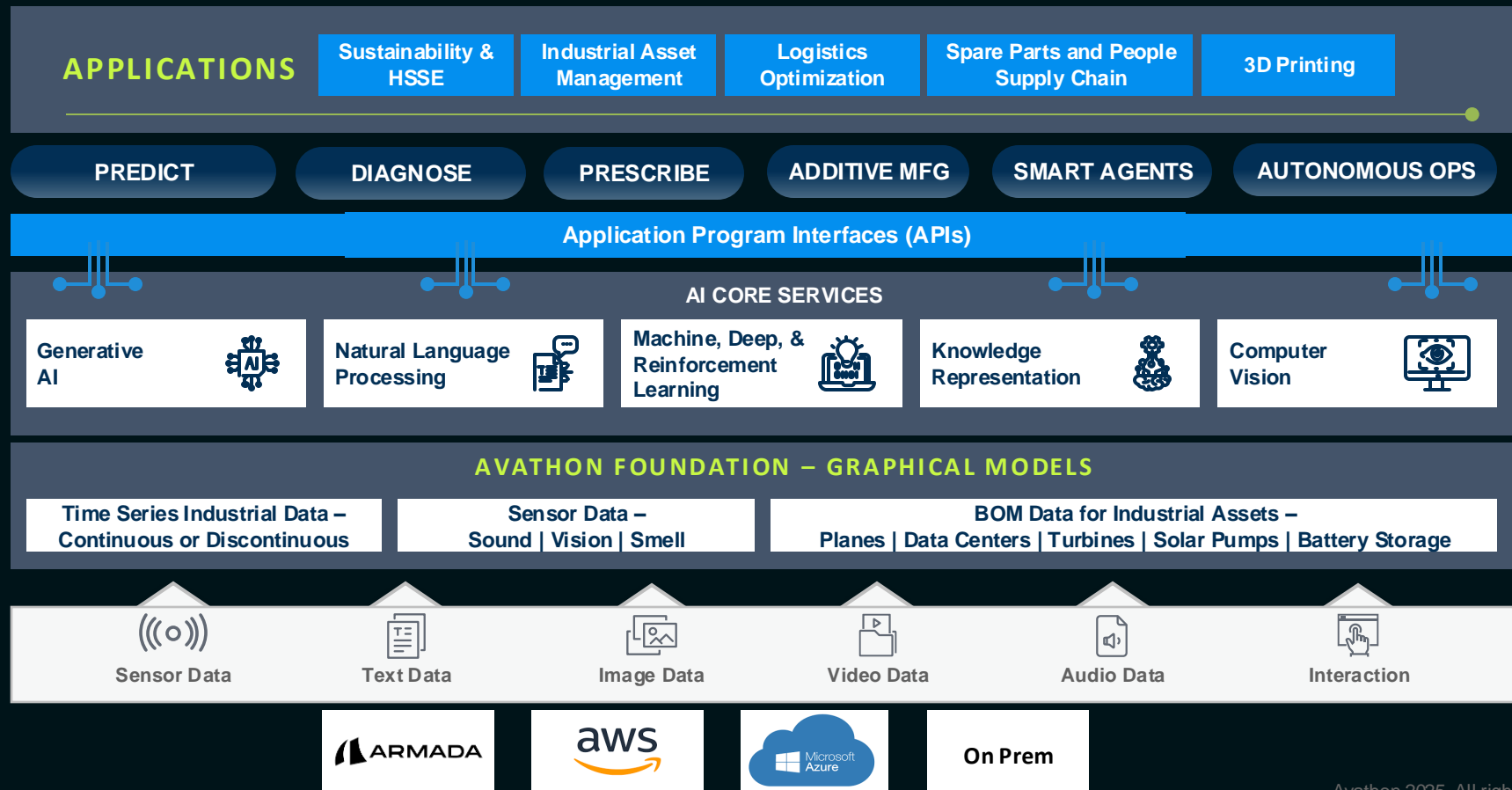
Optimize logistics, reduce cost, meet customer demands while maintaining zero-tolerance **employee health and safety**

MANUFACTURING & SUPPLY CHAIN →

Planning, sourcing, quality, production, and distribution **across all focus markets**

Agentic Industrial AI Platform

avathon.



Scalable Applications to Keep Infrastructure Running.

AI Enabled Supply Chain Orchestration

Autonomous Planning

- **AI Demand predictions**
- Increased supply reliability and efficient inventory at all echelons
- **Reduced exception risk** and increased customer responsiveness and delivery reliability

Dynamic Sourcing

- **Suppliers risk & performance**
- Network sourcing intelligence
- Dynamic supplier selection and performance collaboration
- **AI enabled part quality inspections**

Smart Factories

- **Normal behavior prediction for machinery reducing downtime**
- Optimize process
- Smart AR enabled quality inspections

Intelligent Logistics

- Real time visibility reduces expedited overrun costs
- **Reduce exception cost and optimize spend management**
- Streamline customs and trade compliance
- Predictable delivery reliability

Outputs

AI CORE SERVICES

Generative AI



Natural Language Processing



Machine, Deep, & Reinforcement Learning



Knowledge Representation



Computer Vision



DATA AND MODEL SERVICES

Data Integration & Management

Horizontal Scaling

Container Management

ML Ops

Inputs



Structured Data



Unstructured Data



Quality Data



Transactional data



Customer/material master data

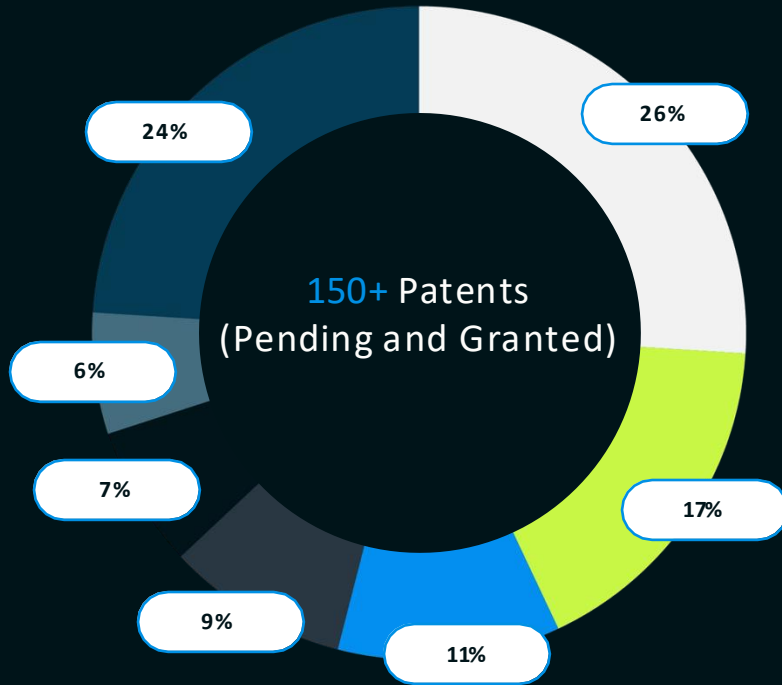


Internal data



External data

Our Science Underscores the Robustness of Our Offerings.



Deep **IP Portfolio** with a differentiated focus on solving **Industrial challenges** for critical infrastructure

26%

Neural Networks

17%

Data Processing, Clustering and Classification

9% - Machine Learning

7% - Knowledge Models and Other Computing Techniques

6% - Natural Language Processing

24% - Other

11%

Land/Sea/Air Mobility AI

Bringing Industrial AI to life at **HyperWerx**—where the Physical and Digital worlds **Converge**.

- 50-acre campus outside of Austin, Texas to design, prototype, build, test, deploy and showcase the physical integration of Industrial AI
- Avathon, along with customers and partners, can perfect AI-enabled solutions—from drones to humanoids, theory to reality, and small steps to moonshots
- Imagine, develop, and prove Industrial AI technology under real-world conditions, so that AI can flourish in the real world



Trusted by World-Leading Clients.

avathon.

ENERGY



AEROSPACE & DEFENSE



RETAIL & CPG



MANUFACTURING & SUPPLY CHAIN



SELECT PARTNERS



Air Force F-16 Operational Readiness with Avathon Prescriptive Maintenance

- \$4.1B spent annually on F-16 maintenance with declining mission capable rates and skilled workforce shortages
- Product is reducing man-hours, upskilling maintainers, and informing critical operational decisions on parts, inventory, asset, and mission planning
- Avathon's solution is built to work on every system and subsystem of the F-16 to bring fleet management capabilities that connect prescriptive intelligence with autonomous planning
- Scalable to all Defense aircraft, ships, submarines, and ground vehicles—a \$100B+ US market

25K

Man-hours saved per F-16
fighter squadron

>91%

Accurate fault-code diagnosis
and improving as more data is
ingested into the Platform

>50K

Unstructured maintenance
logs and technical manuals
digitized and ingested



A scaled Digital Knowledge Platform for aircraft supply chain at Bill of Material level

- Partnered with Airbus to deliver the Airbus Cognitive Platform “AIRKOG” to encode subject matter expertise using Avathon’s knowledge graph capabilities
- AIRKOG provides solutions for engineering, procurement, logistics, quality, program management, and rapid analysis for plant and final assembly line improvements
- Orchestrates a range of tools to assist in development and deployment of intelligent applications to answer critical technical questions across Airbus fleet models
- From managing parts introduction for aircraft changes to optimizing electrical harness configuration changes to reduce scrap across plants, Avathon’s solution is delivering deep and broad enterprise value

400K

Users across a wide range of enterprise functions

30%

Reduction in digitalization platform costs

Delivering significant customer ROI across Supply Chain and Manufacturing by leveraging Avathon’s unique Knowledge Graph capabilities built on a unified Platform

Resolution of FADEC repairs with Avathon **Prescriptive Maintenance**

- Resolution time for Full Authority Digital Engine Control (FADEC) repairs is extensive, resulting in penalties and lost revenue; stems largely from labor shortage and knowledge loss
- Avathon Industrial AI Platform derives repair solutions to increase 1st and 2nd-time yield using historical test and repair data, which was often limited, incomplete, and inconsistent
- Solution is user-centric, built into customer workflow, and is improving operational planning via improved FADEC asset insights
- Roadmap to expand onto all FADEC families and other avionics and aerospace products at BAE Systems

25

FADEC programs on-ramped to the Platform over the next 4 years

20%

Improvement target in first final pass yield metric (ratio of units that pass final quality inspection on the first repair attempt)

FADEC repair solution with expansion into **inventory and supply operations** for more holistic asset mgmt. and supply chain value creation



Accelerating exploration through Generative AI

Subsurface imaging and data analysis is time-intensive and costly, relying on terabytes of data, high-performance computing, and complex physics-based algorithms to analyze and identify exploration opportunities.

SOLUTION

The Avathon Industrial AI platform implemented by developing a domain-optimized stable diffusion Gen AI algorithm augmented traditional exploration workflows with advanced machine learning

Requires as little as 5-10% of data compared to traditional approaches

IMPACT

AI-enabled solution capabilities allowed for fast RTM (Reverse-Time Migration) imaging by using generative AI to denoise few shots migrations

- Accelerates seismic imaging by at least 20-30x
- Delivered image at a fraction of the cost & time

20-30X

Acceleration of seismic imaging with FRTM compared to traditional approach

95%

Reduction in data required compared to traditional approach

Broad application across **energy exploration** as well as additional industrial applications such as mining

Avathon Asset Performance Management for Renewable Energy

- Orsted needed to improve North American asset management, reduce downtime, and optimize energy output for 5.5 GW renewables portfolio (global capacity >31 GW)
- Avathon provides full operational and real-time visibility into hundreds of wind turbines and inverters
- Predicting equipment failures and minimizing disruptions using sensor data from all of Orsted's North American renewable plants
- Deployed energy optimization models to improve energy production and maximize revenue across onshore and offshore wind, solar farms, and battery energy storage (BESS) assets

90%

Improvement in visibility into the data and operations

7%

Reduction in unplanned downtime

A diverse APM platform that will enable **Asset Management** solutions to drive significant customer value across planning, sourcing, and logistics

Avathon Computer Vision for Health, Safety, and Supply Chain

- Pepsi and Woolworths desired Computer Vision capabilities to deploy across all their retail, warehousing, and bottling sites to provide preventative safety, site security, and supply chain efficiencies
- Solution extended beyond any in-house or competitive offerings in Computer Vision models and capabilities
- Avathon's solution deploys quickly within any operational framework and existing edge-devices
- High customer interest in expanding on the Avathon Platform into Supply Chain and sustainability initiatives

200

Distinctive, pre-built computer vision use-cases modeled by Avathon

7

Unique product modules for priorities such as surveillance, workplace hazards, vehicle analytics, customer analytics, emergency response, weapons, and yard mgmt.

Significant **expansion opportunity** on the Avathon **Industrial AI Platform** as use-cases transition into asset management and supply chain operations

BOARD OF DIRECTORS



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Board Member / Chairman

Former CEO of BP, Former President of the Royal Academy of Engineering



Dr. Hamid Biglari

Board Member

Sr. Partner and Chairman of Asset Mgmt. & Financial Svcs. at RedBird Capital Partners. Former Vice-Chairman Citi.



Amir Husain

Board Member / Founder

A leader in the technology industry at large; holds 22 US patents with 40 pending



Dame Fiona Murray

Board Member

Associate Dean of Innovation and Inclusion at the MIT School of Mgmt.



Pankaj Patel

Board Member

CEO of Nile, Former Chief Development Officer & EVP at Cisco Systems, Inc.



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Board Member / Lead Director

Executive Chairman, Barrick Gold, Board Member, Ford Motors, Former President of Goldman Sachs



Lisa Disbrow

Board Member

Former Under Secretary of the United States Air Force



Sumant Mandal

Board Member

Managing Director and Co-Founder of March Capital Partners



Beckett Jackson

Board Member

Principal, AE Industrial Partners



Pervinder Johar

Board Member

CEO Avathon

MANAGEMENT



Pervinder Johar

Chief Executive Officer

Previously CEO of Blume Global. Former executive with HP, SteelWedge, and Manhattan Associates.



Santosh Pant

SVP Engineering

Served as SVP of R&D at Blume Global and Rez-1



Dr. Bruce Porter

Chief Science Officer

Two-time Chair of the University of Texas Computer Science Dept.



Niyati Kohler

Chief Strategy Officer

Former SVP of Strategy and Operations at Blume Global, Strategic Sales at Infosys and Xerox.



Ibrahim Gokcen

Chief Business Officer

Previously Chief Data and Analytics Officer of Aon, Formerly at Schneider Electric, Maersk, and GE in various CTO, CIO, and Chief AI and Digital Officer roles



Art Sellers

President & GM, Avathon Government

Formerly U.S. Army Infantry Officer with 27 years exp. including special operations, command billets, and combat.

ADVISORS (SELECT)



John Chambers

CEO & Founder of JC2 Ventures Chairman Emeritus, Cisco Corp.



Bill Shea

Former CEO and Chairman of DCLI



Paul Achleitner

Former Chairman Deutsche Bank



Gen. John R. Allen

Retired United States Marine Corps four-star general

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