

OTTO

AEROSPACE



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PRESS RELEASE



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Otto Aerospace CEO Paul Touw to Speak at the Global Aerospace Summit

Touw will take industry leaders behind the scenes of Otto's groundbreaking Phantom 3500

FORT WORTH, Texas, Sept. 4, 2025 – Otto Aerospace, a pioneering force in sustainable aviation, today announced that its CEO Paul Touw will serve as a keynote speaker at the U.S. Chamber of Commerce's 2025 Global Aerospace Summit. The event takes place September 9-11 at the U.S. Chamber's headquarters in Washington, D.C.

Titled "Otto Aerospace Insights," Touw's Sept. 10 keynote will take industry leaders behind the scenes of Otto's groundbreaking aircraft, the Phantom 3500.

The Phantom 3500 is a clean-sheet aircraft developed to usher in a new era of efficient, sustainable aviation. Its transonic super-laminar flow architecture, lightweight composite structure, and ultra-low-drag design enable fuel savings of up to 60% compared to similar-sized jets. When operated on sustainable aviation fuel (SAF), the aircraft reduces emissions by up to 90% and will achieve net-zero carbon emissions when entering service in 2030—two decades ahead of the aviation industry's 2050 goal.

"As the aviation industry faces growing pressure to decarbonize, true transformation requires rethinking the aircraft itself, beyond fuel alternatives," said Touw. "I'm honored to join industry peers to share how Otto is pushing the boundaries of what sustainable flight can be."

Paul Touw is a visionary entrepreneur, engineer, and private pilot with years of aerospace experience. He previously founded and led XOJET, a disruptive private aviation company, and co-founded Ariba, a supply chain technology firm now part of the SAP portfolio. At Otto, he's on a mission to redefine aviation through bold thinking and breakthrough design.

Otto recently rebranded to Otto Aerospace – a name that reflects the company's growth into a next-generation aerospace company driven by science and technology, powered by innovation, and ready to lead. Otto's mission remains unchanged, while the scope now includes opportunities in both commercial and defense markets.

About Otto Aerospace

Otto Aerospace is an advanced aerospace company committed to transforming private and regional aviation through innovative aircraft design. Headquartered in Fort Worth, Texas, Otto is developing the Phantom 3500, a new, clean-sheet design aircraft that establishes – and leads – a new category in highly efficient, affordable, and sustainable business jet aviation. Learn more at ottoaerospace.com.

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**PRESS
RELEASE**

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Otto Aerospace Develops Proprietary AI Model for Aerodynamic Innovation

Tailored AI model to streamline design speed and precision of Otto's revolutionary Phantom 3500 aircraft program

FORT WORTH, Texas, Sept. 8, 2025 – Otto Aerospace today announced its development of a proprietary aerodynamic AI model designed to optimize and accelerate the configuration of next-generation laminar flow airfoils and ultra-efficient sustainable aircraft. The AI model is trained on extensive computational fluid dynamics (CFD) simulations and wind-tunnel test data. This new AI capability allows Otto to explore the aircraft design space for optimal configurations within a day, a process that previously required months or years.

The AI model will operate on Luminary Cloud's GPU-accelerated Physics AI platform, enabling detailed aerodynamic analysis of current and future Otto aircraft configurations. Recognized for its SHIFT family of pre-trained physics AI models, including SHIFT-Wing for aerodynamic analysis of transonic wings, Luminary provides advanced tools to support fast and accurate design evaluations.

"Our Phantom 3500 program has generated extensive high-fidelity simulation and wind-tunnel test data," said Obi K. Ndu, PhD, Chief Information and Digital Officer at Otto Aerospace. "At Otto, we believe that the future of aircraft design is at the intersection of artificial intelligence and first principles. Luminary's platform gives us the computational power and infrastructure to quickly train an AI model optimized for next-generation laminar flow aircraft and our unique design approach."

"Luminary Cloud is thrilled to support Otto Aerospace as they bring their revolutionary Phantom 3500 aircraft design to market faster by leveraging our Physics AI platform," said Juan J. Alonso, CTO and co-founder of Luminary Cloud. "Otto is at the forefront of adopting AI to modernize aerospace design and engineering practices."

The Phantom 3500's laminar-flow fuselage and airfoil demand precise aerodynamic modeling for ultra-low-drag and long-range efficiency. Utilizing Luminary's accelerated cloud computing capabilities, Otto will significantly expedite parametric design exploration compared to traditional CFD simulation workflows, fast-tracking the current and future development of aircraft designed to burn up to 60 percent less fuel and achieve up to 90 percent lower emissions when operating on sustainable aviation fuel.

"This collaboration maximizes the value of our proprietary flight sciences data and leverages Luminary's advanced simulation and Physics AI capabilities," said Scott Drennan, President and COO at Otto Aerospace. "We retain full control over our design methods and data, maintaining the flexibility and speed necessary for rapid innovation."

The Phantom 3500 is expected to begin flight testing in 2027, with entry into service targeted for 2030. Otto recently rebranded to Otto Aerospace—a name that reflects the company's growth into a next-generation aerospace company driven by science and technology, powered by innovation, and ready to lead. Otto's mission remains unchanged, while the scope now includes opportunities in both commercial and defense markets.

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PHANTOM 3500

SPECIFICATIONS

Maximum Take Off Weight	19,000 pounds
Basic Operating Weight	11,700 pounds
Dimensions	64' W x 58.3' L x 17.7' H
Cabin Volume	800 cubic feet
Cabin Height	6'5"
Cabin Length	22 feet
Cabin Width	7'6"
Max Passengers	9
Maximum Range	3,500 NM
NBAA 4 PAX Range	3,200 NM
Cruise Altitude	51,000 feet
Maximum Mach Speed	.8 Mach
Long Range Cruise Speed	.78 Mach
Balanced Field Length	< 3,500 feet
Operating Cost	50% less than an average Super-Mid jet



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PHANTOM 3500

EVOLUTION
IN FLIGHT

→ Otto Aerospace's Phantom 3500 business jet is 60% more fuel efficient than existing business jets, and when using sustainable aviation fuel, will reduce carbon emissions by 90%.

The Phantom 3500's lightweight, fuel-efficient design reduces the amount of fuel required, which allows for a more spacious cabin without compromising range or performance. Otto's design allows for 50% lower operating costs, further reducing the total cost of ownership.

GROUNDBREAKING INNOVATION FOR A SMARTER WAY TO FLY

Otto is redefining what's possible in aviation. By pioneering full laminar flow technology, we've created the most aerodynamically efficient aircraft ever designed—delivering super-midsize jet performance at half the operating cost and a fraction of the environmental impact. The Phantom 3500 is a masterpiece of engineering. At Otto, we've set a new standard in private jet flight where performance and sustainability exist in perfect harmony.

• **35%** LESS DRAG

⦿ **50%** LESS FUEL

• **90%** LESS EMISSIONS

OUR MISSION

At Otto, we envision a future where flight is radically more efficient, dramatically more sustainable, and accessible like never before. By pioneering full laminar flow aircraft, we are not just improving aviation—we are redefining it.

LAMINAR FLOW



61%

More fuel efficient

Reduce carbon emissions by up to

90%

*with the use of sustainable aviation fuel

50%

Lower operating costs

OTTO'S LAMINAR FLOW BREAKTHROUGH

Because the company has mastered laminar flow technology, Otto will forever change aviation by reaching the global goal of carbon neutrality decades before the industry's goal of 2050.

Laminar flow technology doesn't just improve one aspect of aircraft design—it creates self-reinforcing virtuous cycles that drive exponential gains in efficiency, operating cost, manufacturing cost, and sustainability.

The Power of Otto Aerospace's Virtuous Cycles

EFFICIENCY MANUFACTURING PERFORMANCE

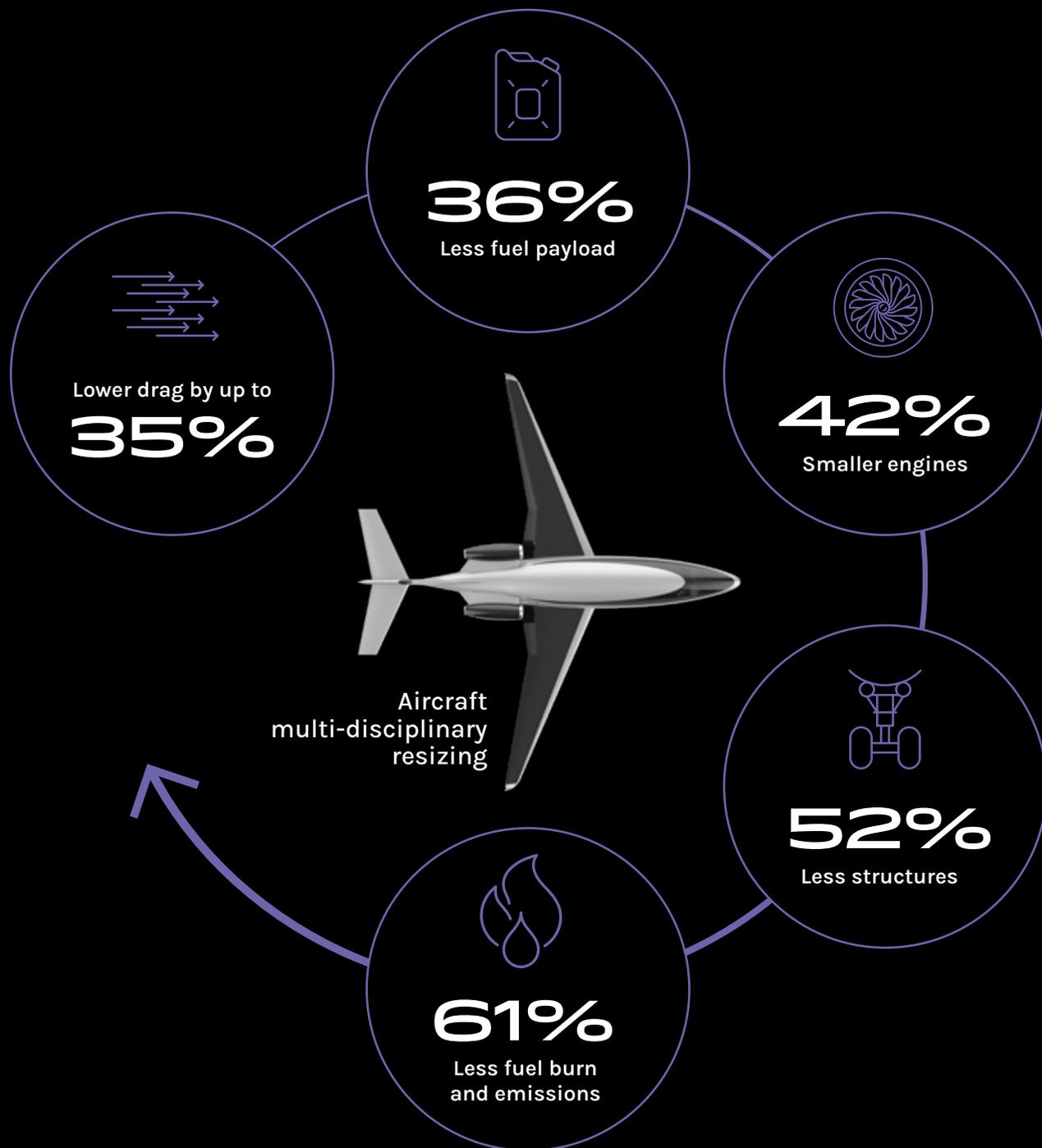
Improved aircraft are just the first step. Otto's laminar flow breakthrough triggers broader shifts that will reshape aviation as we know it. At the core of this transformation are Otto's Virtuous Cycles, each compounding the impact of our laminar flow technology, advanced manufacturing, and scalable production.



These virtuous cycles work together to accelerate efficiency, reduce costs, and redefine the economics of aviation.

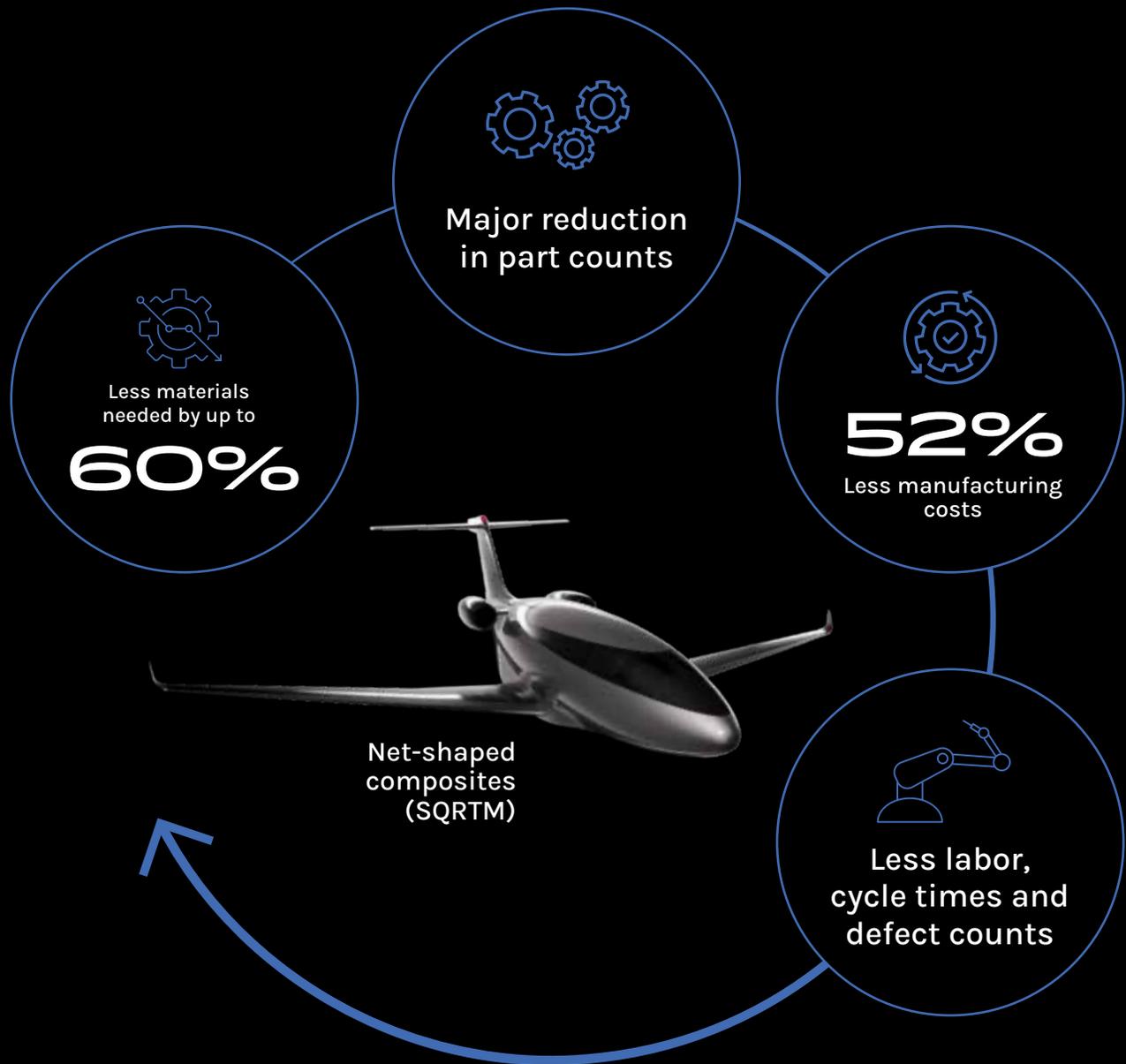
THE VIRTUOUS CYCLE IN DRAG REDUCTION

Laminar flow reduces aerodynamic drag to levels never achieved in commercial aviation. Unlike traditional designs that suffer from turbulence and inefficiencies, Otto's aircraft maintains smooth airflow, unlocking a powerful cycle of improvement. This continuous cycle means every Otto aircraft operates at peak efficiency, driving down operational costs while setting new industry standards for sustainability and performance.



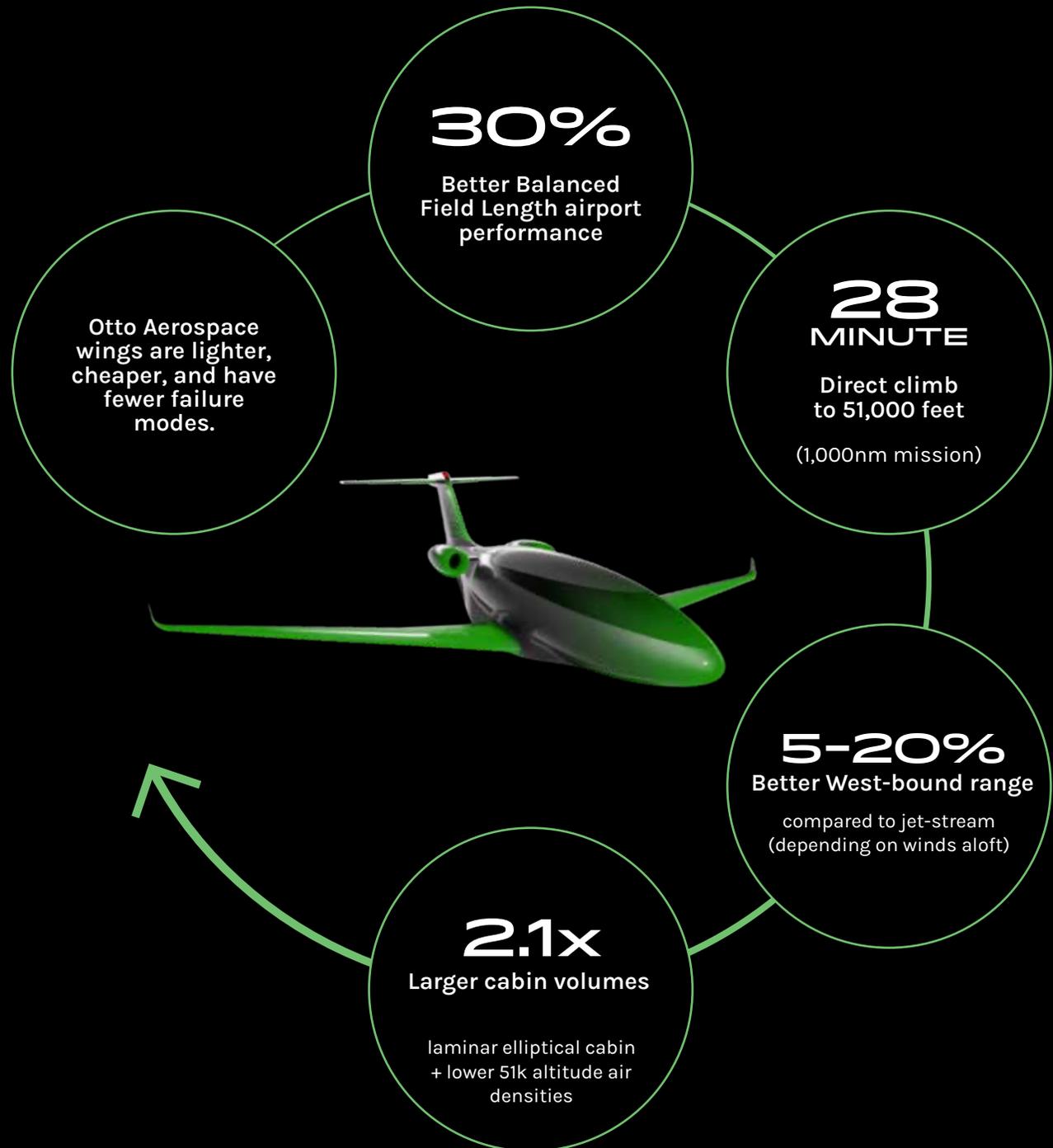
THE VIRTUOUS CYCLE IN MANUFACTURING

Innovative design leads to innovative manufacturing. Traditional aerospace manufacturing is slow, expensive, and restricted by outdated production methods. Our advanced design philosophy eliminates these bottlenecks, creating a cycle of efficiency in manufacturing. This manufacturing cycle ensures that Otto aircraft can be produced at scale, making high-efficiency flight more accessible to operators worldwide.



THE VIRTUOUS CYCLE IN PERFORMANCE

At Otto, we didn't settle for increased efficiency. We're redefining what's possible in speed, range, and sustainability. Traditional aircraft design has long been restricted by high drag, high fuel consumption, and rising operational costs. Our full laminar flow technology also unlocks a cycle of performance improvements.



SUPER NATURAL VISION™

Super Natural Vision™ redefines the passenger experience by replacing traditional windows in the rear cabin with state-of-the-art high-definition digital displays that seamlessly integrate real-time external views. This innovation eliminates the structural and aerodynamic compromises of conventional windows while delivering an immersive, panoramic visual experience. Passengers enjoy stunning, uninterrupted views of the sky and landscape, all while benefiting from the enhanced aerodynamics and efficiency that come with complete laminar flow design. Super Natural Vision transforms the way we experience flight, offering the beauty of the journey like never before.



A NEW
PASSENGER
EXPERIENCE

EXECUTIVE SPOKESPEOPLE

Decades of aerospace, defense, and engineering expertise to advance the aviation industry to new heights.



Paul Touw

Chief Executive Officer & Director

As Chief Executive Officer, Paul leads the company with a singular focus: building the most efficient and advanced aircraft of the modern era—leveraging laminar flow technology to transform sustainable flight from concept into reality.

A visionary entrepreneur with a passion for progress and a relentless drive to create positive change, Paul brings a deep track record of leadership across aviation, government, and enterprise technology. The engineer and private pilot previously founded XOJET, a private charter aviation company that redefined access to business jet travel, and co-founded Ariba, an innovative supply chain visibility platform now part of SAP. He also served as Senior Advisor and Chief Strategy Officer in the U.S. Department of State's Bureau of Economic Growth, Energy, and the Environment, helping shape policy at the intersection of technology and global development.

The common thread across Paul's pursuits is transformation—pinpointing challenges and delivering revolutionary solutions. He holds a bachelor's degree in engineering physics and mechanical engineering from the University of the Pacific.



Scott Drennan

Chief Operating Officer & President

As President and COO, Scott leads day-to-day operations while advancing a bold mission: to redefine aircraft performance with 30% greater aerodynamic efficiency, 60% lower fuel burn, 90% fewer emissions using SAF, and up to 50% cost savings.

Scott has spent nearly 30 years pushing the boundaries of aerospace and defense innovation, reimagining what flight could be and making it real. Known for visionary leadership and systems-level thinking, he's helped shape the future of air mobility at companies like Bell Helicopter, where he last served as vice president of Innovation and Advanced Concepts and was integral to a dozen military and commercial aircraft certification programs.

He also served as Chief R&D Officer at Supernal and is an advisor to several start-ups, guiding teams with a creative and growth mindset. A former NASA Aeronautics Committee member and FAA-designated engineering representative, Scott earned his aerospace engineering degree from the University of Maryland.

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EVOLUTION IN FLIGHT

Learn more at:

OTTOAEROSPACE.COM

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