

OTTO

AVIATION



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Otto Aviation Announces New Manufacturing Facility and Headquarters in Jacksonville, Florida

[Florida Governor Ron DeSantis announced the project today at the Paris Air Show](#)

PARIS, June 16, 2025 - Otto Aviation, a pioneering force in sustainable aviation, has announced plans to establish an advanced manufacturing and production facility at Cecil Airport in Jacksonville, Florida. This strategic expansion represents a significant milestone in the development of Otto's next-generation business jet, the Phantom 3500.

The Jacksonville Aviation Authority (JAA) has approved a \$34.9 million incentive package to support Otto Aviation's investment in the region and the City of Jacksonville has approved up to \$20 million in a Revenue Enhancement Value grant. Additionally, the State of Florida has approved over \$430 million in Corporate Income Tax Credits (CITC) and High Impact Performance Incentive (HIPI) grants to facilitate the establishment of the manufacturing plant and long term operations, which will occupy 80 to 100 acres of land at Cecil Airport.

Florida Governor Ron DeSantis formally announced the project today during remarks at the Paris Air Show: "I'm pleased to welcome Otto Aviation to Jacksonville. This is a win for Florida and a testament to the kind of innovation we're attracting. Our infrastructure and talent are primed for the next generation of aerospace manufacturing, and this project is another indicator that Florida will be home to the future of flight."

"This new facility will become more than a manufacturing site – it's the launchpad for the future of sustainable aviation," said Paul Touw, CEO of Otto Aviation. "Jacksonville stood out as a city that shares our long-term vision: pushing boundaries in aerospace innovation while creating high-quality jobs and meaningful impact. We're excited to become a part of this dynamic community."

Otto Aviation's Phantom 3500 is a revolutionary twin-engine business jet designed to deliver exceptional fuel efficiency, extended range, and reduced emissions. The aircraft features a full laminar flow design that cuts drag by 35% compared to traditional jets, enabling it to travel farther on less fuel. With a range of 3,500 nautical miles and a cruise altitude of 51,000 feet, the Phantom 3500 is poised to redefine the standards of business aviation.

The Jacksonville facility will serve as the primary site for the final assembly of the Phantom 3500, with production of its flight test vehicles slated to commence in 2026. The project is expected to create hundreds of manufacturing and engineering jobs, contributing to the local economy and reinforcing Jacksonville's position as a hub for aerospace innovation.

Otto plans to begin operations in Hangar 825, originally built by the U.S. Navy for aircraft fleet operations, and will subsequently develop a dedicated manufacturing plant to produce the Phantom 3500. The company's headquarters will also relocate to Jacksonville, further solidifying its presence in the region. The company plans to begin flight tests by early 2027, and aims to achieve certification and entry into service in 2030.



PRESS RELEASE



OTTO
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Otto Aviation and its Phantom 3500 to Beat Carbon Neutrality Goals by 20 Years

At a Paris Air Show press briefing, CEO Paul Touw detailed Otto's breakthrough technology and aircraft that enables ultra-efficient, low-emission flight

PARIS, June 17, 2025 - Otto Aviation, a pioneering force in sustainable aviation, held a press briefing today at the Paris Air Show where CEO Paul Touw announced the company would achieve net-zero carbon emissions with its Phantom 3500 aircraft when it enters service around 2030 – two decades ahead of the aviation industry's net-zero carbon goal.

The aviation industry has set a goal to achieve net-zero carbon emissions by 2050. This goal, adopted by the International Civil Aviation Organization (ICAO) and supported by organizations like the International Air Transport Association (IATA), aims to mitigate the industry's impact on climate change by balancing CO2 emissions with equivalent amounts sequestered or offset.

Touw's remarks took the assembled journalists and industry leaders behind the scenes of Otto's groundbreaking aircraft, the Phantom 3500, the first true aircraft of the sustainability era. With an AI-supported clean sheet design, transonic super-laminar flow architecture, and cutting-edge aerodynamics, the Phantom 3500 is a lightweight, ultra-low-drag aircraft that burns 60 percent less fuel than similar-sized jets and reduces emissions by 90 percent when combined with sustainable aviation fuel.

"The Phantom 3500 is the result of relentless innovation and bold thinking," said CEO Touw during his remarks. "By achieving carbon neutrality 20 years ahead of the 2050 target, we're not just meeting expectations—Otto is redefining what's possible in aviation. It's a transformative step toward a future where cutting-edge technology and sustainability go hand in hand."

On the inside, the Phantom 3500 provides space for nine passengers and has a cabin height of 6 and a half feet. In place of traditional porthole-style windows along the fuselage, the Phantom 3500 includes high-definition digital displays called Super Natural Vision™, which provides passengers with views of the sky and scenery while also enjoying increased efficiency thanks to the streamlined design.

Otto Aviation plans to manufacture the Phantom 3500 at Cecil Airport in Jacksonville, Florida, an announcement made yesterday at the Paris Air Show by Florida Governor Ron DeSantis. The company will invest approximately \$430 million and move its headquarters to the city. Otto's plan is to establish initial operations in an available hangar, then build a new plant to manufacture the Phantom 3500 on land at the airfield. The company plans to begin flight tests by early 2027, and aims to achieve certification and enter service in 2030.

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.





PRESS RELEASE

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Otto Aviation Selects Garmin Avionics System for Phantom 3500 Flight Test Campaign

The collaboration reflects Otto's strategy of working with forward-looking suppliers who bring experience, reliability, and technical agility to the table

PARIS, June 17, 2025 - Otto Aviation, a pioneering force in sustainable aviation, has announced the selection of the Garmin G700 TXi™ flight display to equip its initial Phantom 3500 flight test vehicle, marking a key development milestone as the company moves closer to first flight and FAA certification of its next-generation aircraft. The company plans to begin flight tests in early 2027 and aims to achieve certification and enter service in 2030.

Purpose-built for demanding precision of experimental and certification programs, the G700 TXi was selected for its configurable architecture, robust real-time data acquisition capabilities, and its ability to seamlessly integrate with the Phantom 3500's advanced digital systems.

"Flight testing is a pivotal phase in any aircraft program, and the G700 TXi gives us the precision, flexibility, and situational awareness we need to execute a rigorous and data-rich campaign," said Scott Drennan, COO of Otto Aviation. "Garmin's technology aligns perfectly with our system architecture and development philosophy."

Flight Test-Ready Avionics for an Innovative Aircraft

The G700 TXi system supports Otto Aviation's mission to develop the Phantom 3500 as a high-efficiency, long-range aircraft with a radically aerodynamic design. In the initial flight test environment, the system provides:

- **Real-time telemetry and data logging:** essential for monitoring and analyzing aerodynamic performance, propulsion, and system behaviors during flight.
- **Customizable display interfaces:** tailored for test pilot operations, with synthetic vision.
- **Streamlined integration:** designed for modularity and interoperability, enabling fast deployment and efficient interfacing with other aircraft systems.
- **Trusted performance:** the G700 TXi has been successfully deployed in multiple experimental and certification programs, offering a proven track record in demanding development environments.

Designed for Scalability and System Growth

The G700 TXi enables reconfiguration as flight test requirements evolve. This makes the system particularly well-suited for a dynamic and iterative test program like Otto Aviation's. The avionics decision enables Otto Aviation to lock in the final FTV configuration, supporting upcoming taxi trials, systems verification, and initial flight readiness as the company targets first flight in the coming months.

A Shared Commitment to Innovation and Flight Safety

This collaboration reflects Otto Aviation's strategy of working with forward-looking suppliers who bring experience, reliability, and technical agility to the table. Garmin's track record in experimental aviation and certification support ensures that the G700 TXi will be a critical enabler as Otto Aviation enters a new phase of program execution.

About Garmin

Garmin products and services have revolutionized flight and become essential to the lives of pilots and aircraft owners and operators around the world. A leading provider of solutions to general aviation, business aviation, rotorcraft, advanced air mobility, government and defense, and commercial air carrier customers, Garmin believes every day is an opportunity to innovate. Recipient of the prestigious Robert J. Collier Trophy for Garmin Autoland, Garmin developed the world's first certified autonomous system that activates during an emergency to control and land an aircraft without human intervention.

PRESS RELEASE



OTTO
AVIATION

Otto Aviation Partners with Williams International for the Phantom 3500 Program

Williams' FJ44-4 QPM turbofan engine to power Otto's ultra-efficient, clean-sheet business jet designed to redefine sustainable flight



PARIS, June 17, 2025 - Otto Aviation, a pioneering force in sustainable aviation, announced today it has selected the FJ44-4 QPM turbofan engine from Williams International as the powerplant for its revolutionary Phantom 3500 aircraft, marking a major milestone in the path toward first flight and FAA certification.

This engine selection reinforces Otto Aviation's commitment to delivering a sustainable, high-performance, and cost-efficient aircraft designed to redefine private air travel. The Phantom 3500 is a lightweight, low-drag aircraft that burns 60 percent less fuel than similar-sized jets and reduces emissions by 90 percent when combined with sustainable aviation fuel.

"The FJ44-4 QPM aligns perfectly with the Phantom 3500's mission," said Scott Drennan, COO of Otto Aviation. "Its combination of fuel efficiency, thrust performance, and sustainable design will enable us to deliver on our promise of long-range capability with dramatically reduced environmental impact."

Engineered for a New Era of Private Aviation

The FJ44-4 QPM brings a suite of benefits that match the Phantom 3500's forward-thinking design and performance targets:

- **100% Sustainable Aviation Fuel (SAF) compatibility:** Supporting Otto Aviation's drive toward decarbonizing flight.
- **High Performance and Efficiency:** This engine delivers a compelling combination of high thrust-to-weight ratio, fuel efficiency, and reduced noise emissions, in alignment with the Phantom 3500's advanced aerodynamic design.
- **Quiet Power Mode Advantage:** The QPM variant integrates auxiliary power unit (APU) functionality, allowing for independent ground operations and streamlined support infrastructure.
- **Extended Range and Reliability:** The engine enables the Phantom 3500's targeted 3,500 nautical mile range, with proven reliability and low lifecycle operating costs.

"Williams International is proud to partner with Otto Aviation on this groundbreaking program," said John Sordyl, Executive Vice President of Customer Experience at Williams International. "The FJ44-4 QPM was designed to meet the next generation of aviation requirements, and the Phantom 3500 is an ideal platform to showcase its capabilities."

Shared Vision for Innovation and Sustainability

Built upon the proven FJ44 engine family, the FJ44-4 QPM represents the latest in propulsion innovation. The selection reflects the shared vision between Otto Aviation and Williams to push the boundaries of private aviation through bold design, sustainable technologies, and operational efficiency.

With this selection, Otto Aviation continues to advance toward its upcoming flight test campaign and FAA certification milestones for the Phantom 3500. The company plans to begin flight tests in early 2027 and aims to achieve certification and enter service in 2030.

About Williams International

Headquartered in Pontiac, Michigan, Williams International is the world leader in the design, manufacturing and support of gas turbine engines. In addition to its world class reputation for customer support, Williams is also well known for establishing the most highly integrated and automated manufacturing facilities in the world to support high quality, high volume production and on schedule delivery of its rapidly growing family of commercial and military products. Ingot and other raw materials enter one end of these facilities and finished engines exit the other. For more information about the company, its products, and support, please visit www.williams-int.com



Otto Aviation Selects Advanced Integration Technology^(AIT) as Tooling and Automation Production System Supplier for Phantom 3500 Program

Supplier recognized globally for expertise in complex aerospace tooling systems

PARIS, June 18, 2025 - Otto Aviation, a pioneering force in sustainable aviation, is proud to announce the selection of Advanced Integration Technology (AIT) as the primary tooling and automation production system supplier for the Phantom 3500 aircraft program. This strategic collaboration marks a key production milestone as Otto Aviation advances toward credible rate-ready manufacturing for its next-generation, high-efficiency aircraft, designed to set a new standard in sustainable aviation.

Recognized globally for its expertise in complex aerospace production systems, AIT was chosen for its innovative solutions, precision engineering capabilities, and proven ability to deliver scalable, automated manufacturing systems that align with Otto Aviation's rigorous build philosophy.

"AIT's systems and expertise give us the precision, reliability and scalability we need to bring the Phantom 3500 to life," said Steven Afalla, Otto Aviation's Director of Manufacturing. "Their world-class tooling and automation solutions will help ensure we create repeatable, high-quality production systems as we transition from development to production ramp-up."

High-Precision Tooling for Advanced Aircraft Manufacturing

AIT will provide a full suite of tooling solutions, including:

- **Automated Assembly and Joining Systems:** Enabling precise, repeatable joining of critical aircraft structures.
- **Advanced Positioning and Metrology Tools:** Supporting tight tolerance requirements for laminar flow-critical assemblies.
- **Flexible Automation Cells:** Designed for scalability, allowing adaptation across future Phantom 3500 variants and production rate increases.
- **Turnkey Integration Support:** Ensuring seamless installation, commissioning and optimization of tooling systems within Otto Aviation's production environment.

"On behalf of the entire AIT team, I want to extend our sincere thanks to Otto Aviation for selecting AIT as the primary tooling and automation production system supplier," said Ed Chalupa, CEO of Advanced Integration Technology, LP (AIT). "We are proud and honored to support Otto and its innovative and exciting Phantom 3500 program. We look forward to a strong and successful strategic partnership."

A Shared Vision for Scalable, Efficient Production

With AIT's tooling and automation systems, Otto Aviation gains a critical enabler for meeting its manufacturing objectives: rapid assembly cycles, minimal rework and robust quality assurance. The modularity and scalability of AIT's solutions also support long-term program growth, accommodating design evolutions, production ramp-ups and future aircraft developments.

This partnership reflects Otto Aviation's ongoing strategy to collaborate with industry-leading suppliers whose technical expertise and innovation drive forward its vision of sustainable, accessible private aviation.

About AIT

Advanced Integration Technology (AIT) is a global leader in the design, manufacture, and integration of complex aerospace tooling and automation solutions. With decades of experience supporting major aerospace programs worldwide, AIT delivers innovative systems that drive manufacturing excellence and improve production outcomes. Learn more at aint.com.

ABOUT OTTO

→ Otto Aviation 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 ottoaviation.com

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

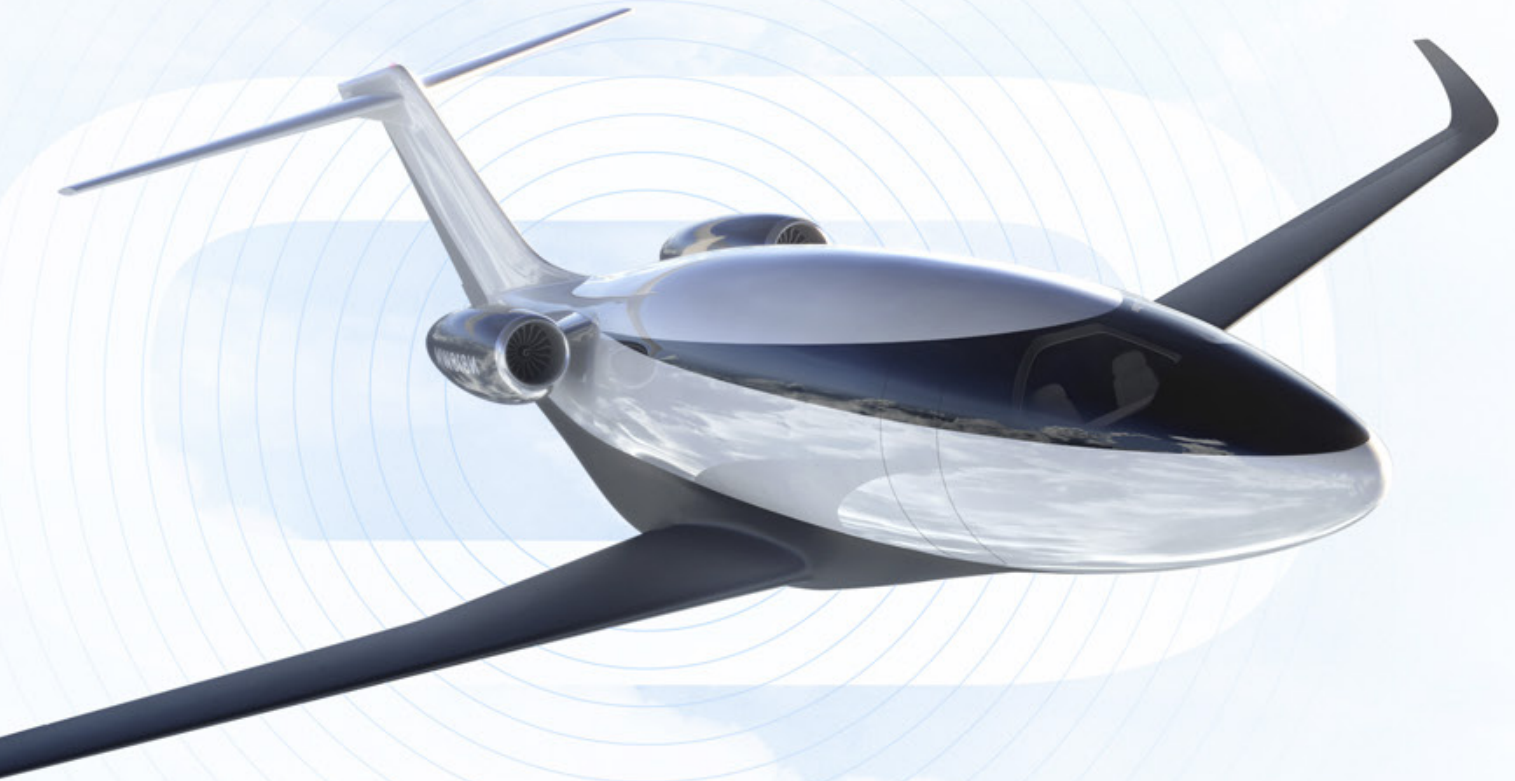


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PHANTOM 3500

EVOLUTION
IN FLIGHT

→ Otto Aviation'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 Aviation's Virtuous Cycles

EFFICIENCY MANUFACTURING PERFORMANCE

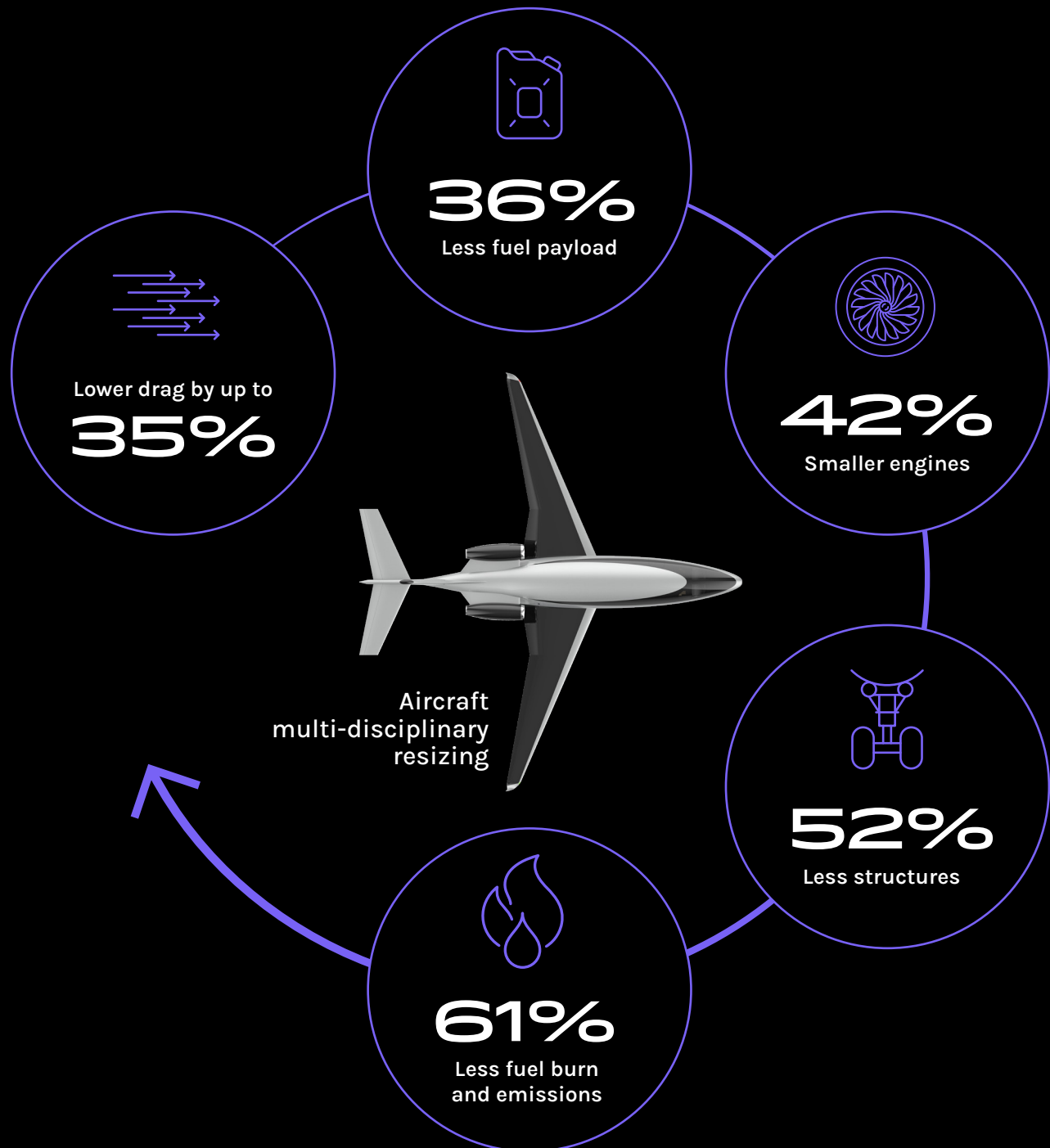
Improved aircraft are just the first step. Otto's laminar flow breakthrough triggers broader shifts that will reshape aviation as we know it. At the core of this transformation are Otto's Virtuous Cycles, each compounding the impact of our laminar flow technology, advanced manufacturing, and scalable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



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

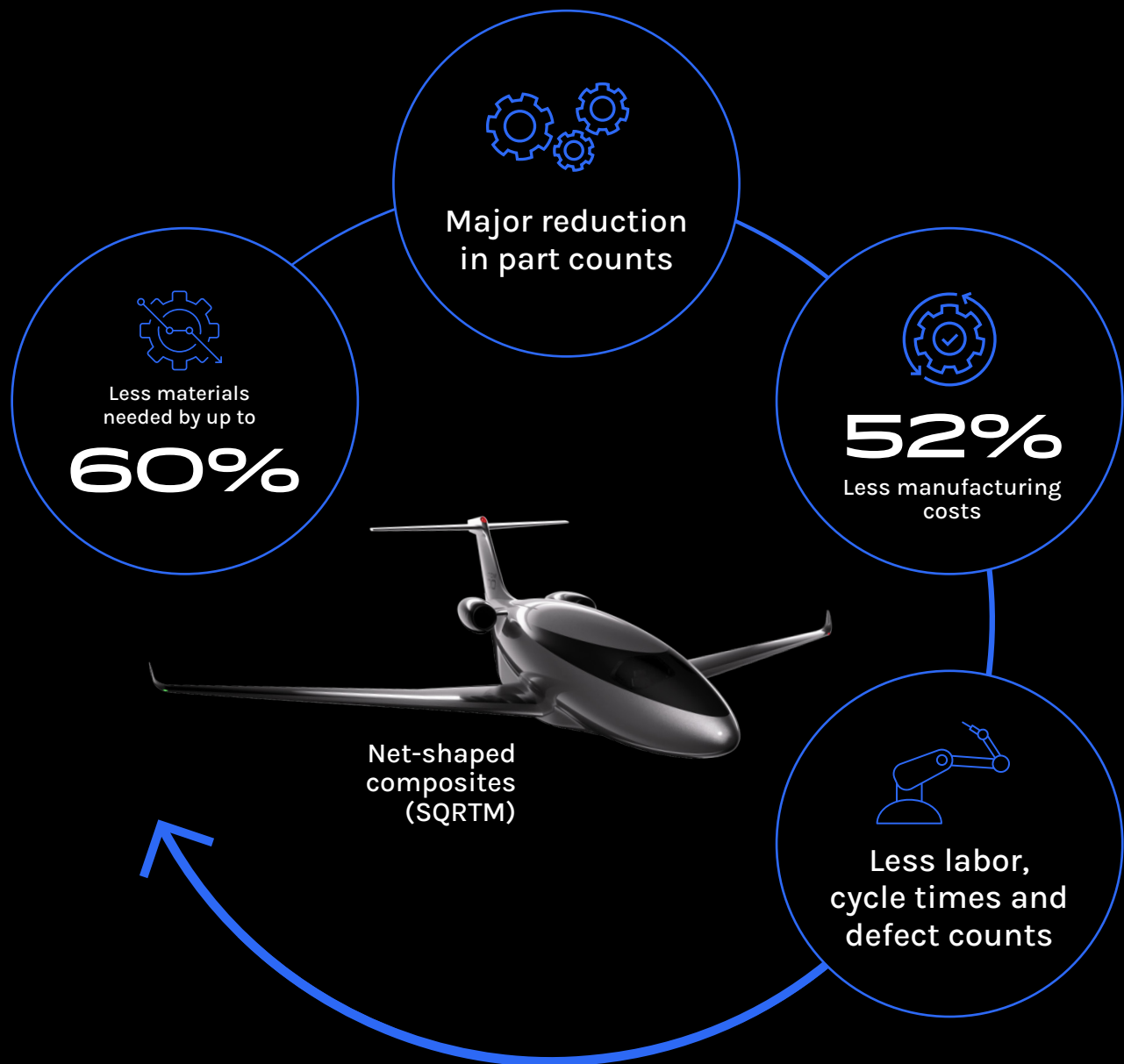
THE VIRTUOUS CYCLE IN DRAG REDUCTION

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.



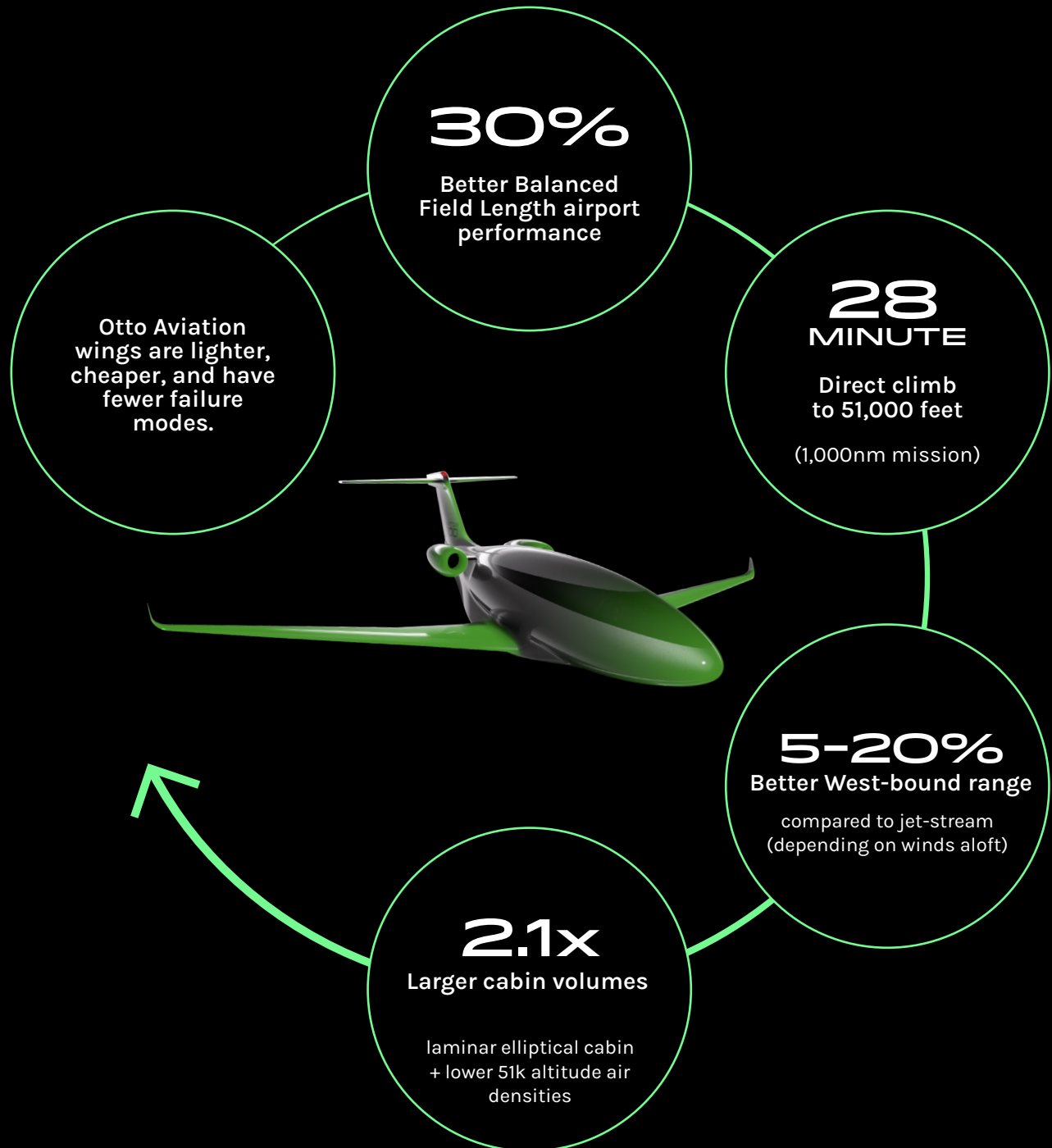
THE VIRTUOUS CYCLE IN MANUFACTURING

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.



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:

OTTOAVIATION.COM

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