



**GREEN**  
ENERGIJA  
AUTOMATIZACIJE  
D.O.O.



**SKYWORKS  
AERONAUTICS**

**SIMPLE. TRANSFORMATIVE. DISRUPTIVE.**

Modernizing aeronautics, Skyworks Aeronautics is poised to innovate and disrupt VTOL & eVTOL transportation



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# SKYWORKS AERONAUTICS

Striving to make air travel safer, more cost-efficient and effective

Skyworks Aeronautics Corp. ("Skyworks" or the "Company") with over 40 patents is the world leader in the science and technology of gyroaerotics - focusing on the design and development of manned and unmanned high-performance gyroplanes capable of vertical take-off and landing (VTOL)

With prototyping complete for Skywork's first gyroplane, the Company is looking to go public via Special Purpose Acquisition Company (SPAC) reverse merger to accelerate commercialization and development of future designs

6

+40

+30

EVTOL

SECURED DESIGN  
CONTRACTS

MILITARY &  
CIVILIAN

AIRCRAFT MODELS

AWARDED PATENTS

YEARS OF R&D

OUTFIT CAPABILITIES

WITH PREMIER PARTNERS

END MARKET CUSTOMIZATION

## BEST-IN-CLASS LEADERSHIP TEAM

With Great Organizational Backgrounds



## DESIGNS FOR EVERY END MARKET



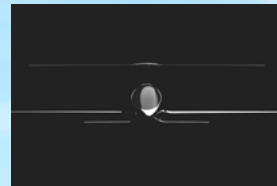
Hawk 5



SparrowHawk IV



ScoutHawk



eGyro



VertiJet



Gyroliner



# THE PROBLEM

Helicopters are useful tools for industries ranging from patrol to medicine to agriculture to air taxis...

...but owners and pilots face several challenges

✕ OVERLY COMPLEX FLIGHT SYSTEMS

✕ HIGH OPERATING COSTS

✕ SAFETY & RELIABILITY ISSUES

## Recent Headlines

**"PHILIPPINE AIR FORCE BLACK HAWK HELICOPTER CRASHES, KILLING 6"**

Military.com - June 25, 2021

**"HELICOPTER INSURANCE COSTS ARE SKYROCKETING, THREATENING TO GROUND AERIAL SERVICES LIKE MUSTERING"**

ABC News – September 6, 2020

**"AUSTRALIA GROUNDS MRH90 HELICOPTER FLEET OVER SAFETY CONCERNS"**

The Defense Post - June 24, 2021

**Skyworks Aeronautics' Solution:** Gyroplanes - proven aircraft that retain the utility of helicopters and benefit from a streamlined, cost-effective, reliable design



# THE SOLUTION: SKYWORKS

Skyworks offers a proven transformative flight system: gyroplanes, which rise above helicopters on several levels



## **SAFER & MORE RELIABLE**

Fewer moving parts, rotor always rotating – higher safety and fewer problems



## **MISSION READY**

Less maintenance required; nearly always available



## **LOWER ACQUISITION & OPERATING COSTS**

Due to simpler design



## **ALLOWING FOR HIGHER PROFIT**

Due to lower complexity, maintenance, acquisition, and operational costs

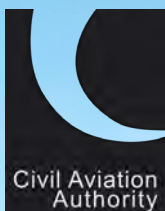


# HAWK 5

Safety, reliability, and cost effectiveness of a fixed wing aircraft with the runway independence of a helicopter



## MANUFACTURING AND DISTRIBUTION PARTNER



## RUNWAY INDEPENDENT OPERATIONS

Utilizing an engine-driven pre-rotation system while the aircraft is on the ground, the Hawk 5 is capable of vertical take-offs, allowing take-off from almost anywhere

## UNSURPASSED SAFETY

With a rotor that is always in autorotation, in the unlikely event of a complete engine failure, the Hawk 5's autorotating rotor continues to rotate, keeping the pilot in complete control to safely land

## ECONOMICAL WORKHORSE

With no powered rotor in flight and no transmission and no antitorque equipment, the Hawk 5 also has none of the periodic maintenance or lost business days associated with these systems, leaving the owner with lower costs and higher reliability

### July 1, 2021: Skyworks Launched Hawk 5 Initial Certification Effort

Skyworks will initially utilize the U.K. CAA Part 21 Approval Process and then exercise bilateral agreements for Certification Ratification with EASA and the FAA





# VERTIJET™

An aircraft that blends the key advantages of helicopters (VTOL) and fixed wing aircraft (speed, range, efficiency)

## VTOL AND HOVER

'Hover/VTOL Mode' Rotor Powered by Reaction Drive



## FORWARD FLIGHT AND HIGH-SPEED CRUISE

- Rotor In Autorotation (Not Powered)
- Lift Primarily By Wing, Rotor Increasingly Offloaded as Speed Increases
- Forward Thrust Provided Only By Engines



Skyworks has partnered with **Northrop Grumman's Scaled Composites unit**, which is a global leader in design and prototype fabrication of compelling and cutting-edge aircraft.



**NORTHROP  
GRUMMAN**



# GYROLINER

Runway Independent Airliners will transform airline industry by providing relief from airport gridlock

## RUNWAY INDEPENDENT REGIONAL AIRLINERS AND CARGO AIRCRAFT ARE DESIRABLE BECAUSE OF VERTICAL TAKE-OFF AND LANDING:

- Currently nearly 50% of runway operations are commuter distances: 350 miles or less
- Nearly all of these can be operated 'off runway' by Skyworks' GyroLiner runway independent aircraft
- This nearly doubles runway capacity for large aircraft and should more than double human thorough-put
- Trip times comparable to regional jets over a 300 mile segment (no time lost to taxi and runway lineup or Air Traffic Control stack)
- Straightforward integration into Airport and Air Traffic Control environments
- Large aircraft size possible due to absence of scale-limiting helicopter transmissions
- The safety and stall-free characteristics of a gyroplane in autorotation





# INVESTMENT HIGHLIGHTS



## UNIQUE TECHNOLOGY IN MARKET

Simpler gyroplane design allows for lower operating costs with higher-speed, range and safety compared with helicopters



## LARGE ADDRESSABLE MARKET

Skyworks sits at the crossroads of multiple multi-billion-dollar aviation end markets including government, civilian and commercial



## ROBUST INTELLECTUAL PROPERTY

43 granted patents covering multiple facets of gyroplane design



## OUTSOURCED MANUFACTURING MODEL

Asset-light manufacturing allows for low overhead and reduced operational risk



## COMPELLING FINANCIAL MODEL

Significant expected revenue and profitability in 2026



## HIGHLY EXPERIENCED SENIOR MANAGEMENT TEAM

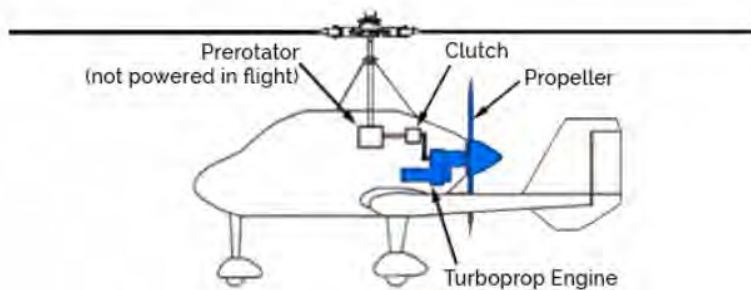
300+ years of combined aerospace and defense experience



# UNIQUE TECHNOLOGY IN MARKET

Simple designs with outsized performance

## GYROPLANE



2-8  
PEOPLE

35-160  
MPH

5,000-16,000  
FT.

50-360  
MILES

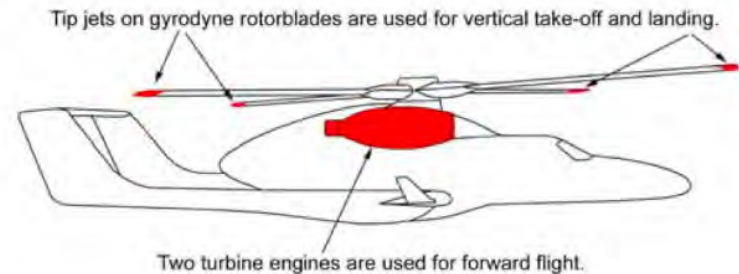
PASSENGERS

CRUISE SPEED

ALTITUDE

RANGE

## GYRODYNE



5-90+  
PEOPLE

200-400  
MPH

16,000 -  
30,000 FT.

500-1,000  
MILES

PASSENGERS

CRUISE SPEED

ALTITUDE

RANGE

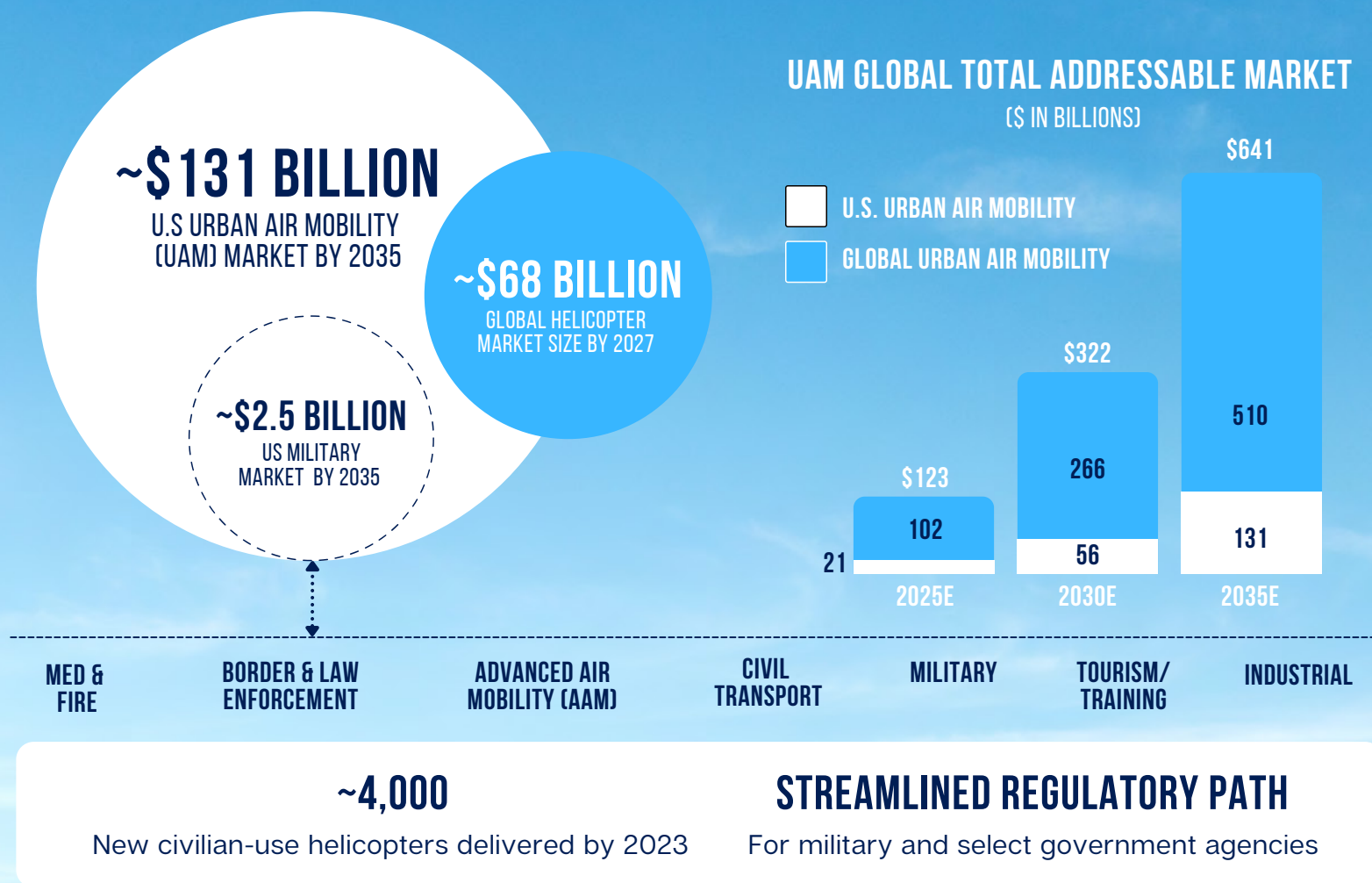
Unpowered rotor allows for **safe and reliable VTOL** while boasting impressive speeds, range, maneuverability, and payload capabilities



# LARGE ADDRESSABLE MARKET

Diversified end markets provide revenue stability and growth potential

The global market for gyroplanes and gyrodynes is expansive, ranging from border & police patrol use, air tourism, air taxis, and air rescue & ambulance to farming and military & defense as well as civil transport



SOURCES: MORGAN STANLEY (2018); NASDAQ.COM;



# ROBUST INTELLECTUAL PROPERTY

Extensive patent portfolio covering multiple facets of gyroplane design

Category	Explanation	# of Patents
Blade Configuration	Patents directed to the configuration of the blades and the manipulation of different surfaces of the blades to achieve different blade profiles during flight	18
Hub, Configuration, Lubrication, Thermal Control	Patents directed to various aspects of the rotor hub	10
Yaw/Directional Control	Patents directed to the flow of air across surfaces	6
Tip Jet Configuration	Patents directed to different aspects of tip jet design and configuration	1
Mast Movement & Control	Patents directed to the control and the movement of the entire mast structure to, for example, handle torsional forces, resonant frequencies and flapping, among others	3
Power Systems	Patents directed to taking power from or applying power to the rotor system	2
In-Cabin Control Systems	Patents directed to in-cabin structures that are used by the pilots to control the aircraft	3
Total		43

**Skyworks has amassed significant technical and industry know-how directly related to gyroplane design as a result of decades of R&D**



# OUTSOURCED BUSINESS MODEL

Skyworks Aeronautics partners with industry experts to design, manufacture, and distribute best-in-class aircraft, while minimizing capital expenditure and ongoing SG&A costs

## RESEARCH & DESIGN



## MANUFACTURING & DISTRIBUTION



**EXTERNAL R&D PARTNERS LEVERAGE DECADES OF  
EXPERTISE AND CUTTING-EDGE TECHNOLOGY**



Eliminates requirement of costly engineers and testing facilities with expensive equipment

**MANUFACTURING & DISTRIBUTION PARTNERS BRING EXTENSIVE PRODUCTION  
CAPABILITIES AND VALUABLE END MARKET RELATIONSHIPS**



No manufacturing facility required and reduced logistical considerations for the company

**Same outsourced manufacturing model  
playbook as successful Silicon Valley  
technology companies like Apple**



**Asset-Light Model Reduces Capital Expenditure Outlay**



**Minimizes Potential Inventory Throughput Issues**



**Lower Overhead and Working Capital Requirements**



# HIGHLY EXPERIENCED LEADERSHIP TEAM

## SENIOR LEADERSHIP TEAM



**Brig. General (Ret.) John E. Michel**  
Co-Founder, Director & CEO

- Served in the Air Force for 26 years, spearheading efforts to develop Air Capabilities in Southwest Asia, Africa, and most notably, as the Commanding General of NATO's AirPower development efforts in Afghanistan. He was also the only General officer in DoD to successfully lead three separate multi-billion transformation efforts from 2008-2014
- As a result of his leadership, his team was awarded the US Department of Defense's highest award for innovative nation-building efforts in 2014
- After his military service, he served as the Chief Strategy & Innovation Officer and President, Global Operations for MV Transportation, the largest privately held specialty transportation company in America



**Steve G. Stevanovich**  
Co-Founder & Executive Chairman

- Mr. Stevanovich led the \$210 million acquisition of the assets of Groen Brothers Aviation Inc. into what ultimately became Skyworks
- 30-year career in international investing and technology commercialization including as a member of the Board of Governors of the US Department of Energy's Argonne National Laboratory and a member of the University of Chicago's Board of Trustees. He is a member of the Executive Committee of the US Council on Competitiveness and a Commissioner for the National Commission on Innovation and Competitiveness
- He is also on the Council of the University of Chicago's technology accelerator, the Polsky Center for Entrepreneurship & Innovation



**Robert Tirva**  
Director & Audit Committee  
Chair

- Over 25 years of experience, including as a public company Audit Committee Chairman and as Chief Accounting Officer of a Fortune 500 Company
- Currently serving as President, COO & CFO of Sonim Technologies, Inc, a NASDAQ listed technology Company
- Previous roles include CFO of Intermedia, Corporate Controller of Dropbox, Inc., Corporate Controller & Principal Accounting Officer of Broadcom Corporation as well as senior accounting positions with IBM & Navistar Financial Corporation



**John W. "Jack" Carter**  
Director

- Mr. Carter has been on the Board of Directors of Skyworks Aeronautics since 2012 and has served as Vice-Chairman of Skyworks' controlling shareholder since 2007
- Amongst various prior positions, Mr. Carter worked with Invesco Capital Management where he was the Secretary of the Global Asset Management Committee and he also ran the futures desks for both Continental Bank and Archer Daniels Midland at the Chicago Board of Trade.
- He was also Director of Research and Product Development for Global Treasury at the Bank of Bermuda (now HSBC) § Mr. Carter remains involved in the Carter Center ([www.cartercenter.org](http://www.cartercenter.org))





# HIGHLY EXPERIENCED LEADERSHIP TEAM (CONT'D)

## SENIOR LEADERSHIP TEAM



### **Don Woodbury**

Co-Founder & Chief Technology Advisor

- Former Director at the US Defense Advanced Research Projects Agency (DARPA) as well as the former Technical Director of the Homeland Security Advanced Research Projects Agency
- More than 30 years of experience within the government science and technology community
- Also serves as a Director of Innovation and Partnerships at the University of Maryland



### **Dr. Ashish Bagai**

Chief Engineer, eGyro™

- Dr. Bagai previously served as a Program Manager in the US Defense Advanced Research Projects Agency's (DARPA) Tactical Technology Office where he led vertical flight technology development programs
- Prior, Dr. Bagai served as Chief Aerodynamicist at Sikorsky Aircraft where he helped design and build the Sikorsky X2 Technology™ (X2) demonstrator aircraft as the Chief Aerodynamicist



### **British Army, Air Corps Captain (Ret.) Barry Jones**

Director of Aviation Operations and Chief Pilot, Skyworks Aeronautics Corp. Managing Director, Skyworks Aeronautics (U.K.) Ltd.

- 26-year career in the British Army Corps with a long career covering both Helicopters and Gyroplanes
- Led the OCU Flight (Operational Conversion Unit) at the School of Army Aviation to produced up to 100 Combat Ready Lynx Helicopter pilots every year
- Chief Instructor to the UK's Manned Airborne Surveillance Regiment, which provided surveillance to military operations worldwide
- Ran the Blue Eagles Helicopter Display Team
- 2003 reset the World Gyro Range Record with a flight the length of Great Britain in 7 hours 23 mins
- Extensive work with the Aviation Regulators of Europe (EU's' EASA and the UK's CAA



### **Stephen Judd**

Director of Global Business Development™

- Successful track record in delivering high profile sales in the global aerospace, defense and marine industries
- Led business development and delivery of advanced active flight control systems to prestigious programs with Boeing Helicopters, NASA, Gulfstream, Embraer and many more, including winning the key contract to supply active controls to Lockheed Martin F-35 training program.
- Developed expert teams in advanced engineering specialties to primes including Airbus, Bombardier and BAE Systems



# HIGHLY EXPERIENCED LEADERSHIP TEAM (CONT'D)

## STRATEGIC BOARD OF ADVISORS



### **Peter David Price**

- Mr. Price became a Strategic Advisor to the company after a career in the aviation industry. Mr. Price is a Former Director, Chief Operating Officer (COO) and Chief Technology Officer (CTO) at Rolls-Royce – Aerospace
- He is also a recipient of the prestigious Royal Academy of Engineering's Silver Medal for his outstanding contribution to British engineering and commercial development in Vertical Lift Systems



### **Dr. Peter B. Littlewood**

- Dr. Littlewood is the Executive Chairman of the UK's Faraday Institution
- He is also a Professor of Physics at the University of Chicago
- Dr. Littlewood is an Emeritus Director of the Argonne National Laboratory, which is a part of the US Department of Energy



### **Dr. Stefan Berger**

- Amongst other positions, from 2017 to 2021 Dr. Berger served as Director of Electrification at Jaguar Land Rover Limited
- He also served as Trustee on the Board of The Faraday Institution, part of the UK government funded \$350 million Faraday Challenge, an initiative to develop, design and manufacture world-leading batteries



### **Hon. Deborah L. Wince-Smith**

- Ms. Wince-Smith is the President and CEO of the US Council on Competitiveness (<https://www.compete.org>)
- She has more than two decades of experience as a senior US government official in the US Department of Commerce
- She was also the Assistant Director for International Affairs in the Reagan Administration



### **Dr. Fred H.M. Gertsen**

- Dr. Gertsen was a Partner with PwC for +two decades and a member of the PwC Central Cluster Asset Management Leadership Team
- He also serves as Principal Investigator with the University of Chicago's Stevanovich Institute on the Formation of Knowledge where his research is focused on environmental, social and governance issues (ESG), the three central factors in measuring the sustainability and ethical impact of socially responsible investing and corporate governance



# COMPANY OVERVIEW



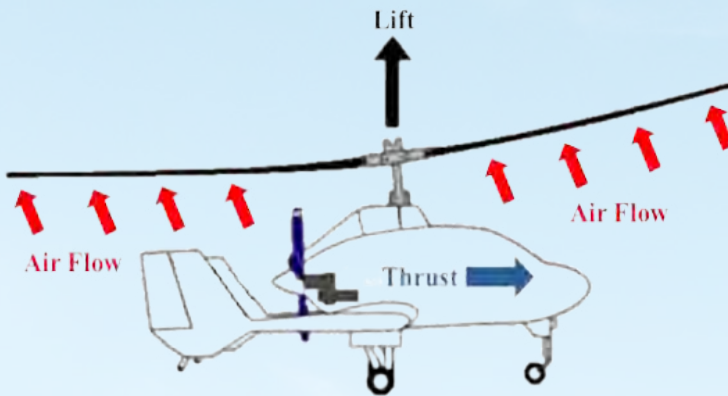


# GYROPLANE VALUE PROPOSITION

The core of Skyworks Aeronautics technology is their deep understanding of sustained autorotative flight

## GYROPLANE BASICS

**Autorotation:** the ability of a free-spinning rotor to generate lift



For a gyroplane in forward flight, the unpowered rotor creates lift through autorotation, with forward thrust provided by an engine-driven propeller(s) or by jet engine(s)

**Eliminates complex powered-rotor assemblies of traditional helicopters and lowers rate of descent in the unlikely event of engine failure**

## HISTORY

**1950S**

Fairey Aviation attempted to enter the gyroplane market with the Fairey Rotodyne in the 1950s, but it was cancelled in 1962 due to lack of government funding

**2000S**

Defense Advanced Research Projects Agency (DARPA) under Woodbury's leadership designed the GBA-DARPA Heliplane through a strategic partnership with Groen Brothers Aviation (GBA)

Aimed to demonstrate the performance of gyrodyne configuration and to break the complex and unsustainable cost cycle within the defense VTOL community

**2010S**

Steve Stevanovich formed a new entity which acquired all of the assets of GBA, which ultimately became Skyworks Aeronautics in 2017

**1950S**



**2021**



	Fairey Rotodyne	Heliplane
Speed	200 mph	+400 mph
Range	380 nmi	+1,000 nmi
Mu (advanced ratio)	0.6	+1.6



# GYROPLANE VALUE PROPOSITION

Combining the best elements of current air travel offerings

## GYROPLANE

## FIXED-WING AIRCRAFT

## HELICOPTERS

## DISTRIBUTED ELECTRIC POWER AIRCRAFT



- ✓ **Greater Reliability**  
Fewer moving parts
- ✓ **Safer**  
Unpowered rotor is always in autorotation
- ✓ **Improved Performance**  
Higher speeds and longer range
- ✓ **Lower Acquisition Cost**  
Simpler design allows for lower upfront cost
- ✓ **Lower Lifetime Maintenance Expense**  
Fewer replacement parts required
- ✓ **Mission Ready**  
Less maintenance = more time in the air

**Superior range,  
payload, and speed**  
  
**Widely-installed base  
and use cases**

**Highly maneuverable**  
  
**Wide range of mission  
types**

**Diverse offerings and  
price points**

✗ Requires airport infrastructure

✗ Impractical for short duration flights (<45 min)

✗ High operating costs

✗ Poor safety record

✗ Very noisy

✗ Limited payload capacity

✗ Limited top speed

✗ Frequent inspection cycles

✗ Very inefficient use of power in designs with no wings

✗ Safety issues once power stops due to inability to autorotate

# THE ADVANTAGES OF SKYWORKS GYROPLANES

Safety – Simplicity – Efficiency

## SAFETY

- A gyroplane rotor is always in autorotation
- In the unlikely event of engine failure, the gyroplane is already in autorotation thus enabling the pilot to perform a normal gyroplane landing

## SIMPLICITY

- Low technical development risk
- Better safety and reliability
- Low-maintenance solution

## EFFICIENCY

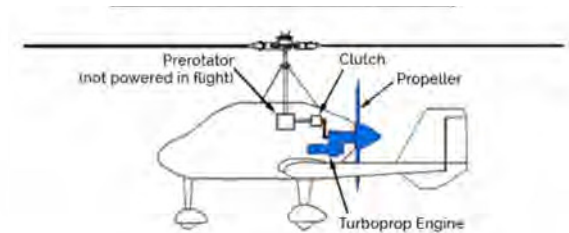
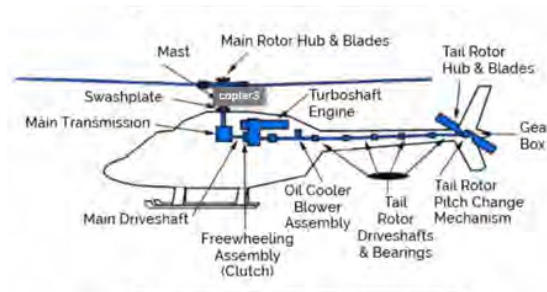
- Most efficient rotary wing platform

### Autorotation

Nature's Flight Safety System



## POWER DELIVERY COMPONENTS – CRITICAL TO SUSTAINED FLIGHT



***In addition to the above, Distributed Electric Power air taxi aircraft require additional complexity/safety measures via Ballistic Parachutes or increased system redundancy as they are not able to land safely in a power out situation***





# OUR ESG COMMITMENT



## ENVIRONMENTALLY FRIENDLY

With our Gyrocraft capable of delivering the utility of helicopters with far less complexity, our aircraft possesses fewer parts and produce less strain on supply chains, reducing energy use and associated carbon emissions.

In the future, as new clean technologies are developed, we remain committed to integrating the latest breakthroughs in battery technology and other environmentally friendly capabilities, such as hydrogen, across all our gyrocraft platforms so we can support our goal of producing fewer greenhouse gases, reducing noise, and minimizing disruption to communities and ecosystems worldwide.

Given the many advantages of gyrocraft, we are committed to identifying how we can support a host of causes such as anti-poaching efforts in Africa and other applications that enhance and preserve life across our planet.



## SOCIALLY RESPONSIBLE

Skyworks gyroplanes provide an elegant solution to the massive demand for affordable and sustainable aviation in emerging economies such as Africa, India, and Southwest Asia. From agriculture, police and border patrol, logistics sustainment, and medical movement, the list of applications and opportunities is near endless.

- Our aircraft provide nations that have limited aviation infrastructure practical and economical access to runway independent lift capability, transforming virtually any surface into an aerodrome and opening a world of new possibilities to currently unreachable areas.
- The inherent simplicity and reduced operating costs of our aircraft help emerging nations improve quality of life and enhance health outcomes to underserved populations, delivering doctors, medicines, and other life saving capabilities to locations too expensive to service by helicopter.
- Our aircraft unlock new sources of market potential while providing emerging economies an enhanced sense of empowerment, viability and credibility in the critical domain of aviation.



## GROUNDING IN GOVERNANCE

Skyworks intends to establish an ESG Committee of the Board of Directors to which we will appoint an independent board member with ESG experience to ensure shared accountability to our stated priorities.

We are committed to proper financial and accounting transparency and full and honest financial reporting in line with established regulatory standards and shareholder expectations.

- Board members are committed to effectively stewarding their fiduciary relationship with stakeholders and being careful to avoid any conflicts of interest with that duty.
- We plan to tie compensation for executives to appropriately increasing the long-term value, viability, and profitability of the business.



# COST EFFECTIVE ALTERNATIVE – HAWK 5

Attractive lifetime cost savings over current market offerings























Hawk 5

Bell 505 JR X

Robinson R66

MD 500E

Flight Hour Costs	\$266	\$486	\$368	\$453
Useful Load (lbs)	1,875 lbs	1,500 lbs	927 lbs	1,519 lbs
Typical Crew / Pass Seating	 Pilot     Passengers	 Pilot     Passengers	 Pilot     Passengers	 Pilot     Passengers
Maint. Hours / Flight Hours	0.18	1.12	0.84	1.15
Acquisition Price	\$1.25M	\$1.45M	\$1M	\$1.9M

*Gyroplanes are simpler and easier to learn to fly which reduces training time and costs*

Source: Skyworks, Avascent, and company websites.



# DESIGNED FOR LOW COST OF OPERATIONS

Significantly lower acquisition and ongoing maintenance costs vs. competitors

Category(1)	Hawk 5	Bell 505 JR X	Robinson R66	MD 500E
Parts	\$12	\$58	\$39	\$50
Maintenance Labor	\$19	\$118	\$88	\$121
Lubricants	\$2	\$4	\$4	\$4
Engine Restoration	\$75	\$94	\$75	\$75
Propeller Overhaul	\$9	NA	NA	NA
Fuel per Flight Hr. Cruise	\$128	\$159	\$118	\$143
Dynamic Comp / Life	\$21	\$59	\$44	\$60
Total Cost/Flight Hour	\$266	\$486	\$368	\$453

***Fewer parts and reduced aircraft complexity significantly reduces acquisition and maintenance costs***

- ✓ Major cost savings resulting from design simplicity
- ✓ Reduced complexity and part count leads to lower maintenance costs and more time in the air
- ✓ Hawk 5 uses the popular Rolls Royce 450HP turboprop engine – widely available, cost effective, extensive aftermarket support, and FAA approved
- ✓ Greater range and higher payload
- ✓ Due to increased uptime, a single Hawk 5 can deliver the operational effectiveness and capability of 2-3 helicopters

Source: Skyworks, Avascent, and company websites.  
Note: (1) Based on 2,800 flight hours/year.





# TARGET CUSTOMERS

Diversified end markets provide potential revenue stability and growth

## GOVERNMENT/PUBLIC SECTOR

Illustrative Industries:  
Military, Police, Border Patrol, MedVac



- ✓ **Lower complexity, higher speeds, greater range, and lower price point**  
Ideal for a wide variety of mission types and locations/governments where resources are limited
- ✓ **Increased government spending on defense and border security**  
Increasing globalization of developed markets and political turmoil in emerging markets
- ✓ **Commercial certification not required for military/police use cases**



## PRIVATE SECTOR

Illustrative Industries:  
Business, Recreation, Agriculture, Other



- ✓ **Established path to certification**  
Accelerate regulatory timeline through bilateral agreements
- ✓ **Cheaper alternatives lead to increased business productivity and profitability**  
Increasing air travel accessibility for businesses of all sizes
- ✓ **Direct participant in dynamic, quickly growing new economies**  
Air mobility (taxi), AgTech/crop protection, surveillance
- ✓ **Lower complexity, higher speeds, greater range, and increased payload efficiencies**  
Ideal for a variety of mission types and locations where resources/space are limited



# GROWING END MARKETS

QUICKEST

MARKET ENTRY

LONGEST

	Med & Fire	Border & Law Enforcement	Civil Transport	Advanced Air Mobility (AAM)	Military	Tourism/ Training	Industrial
2019 Inventory	~4,700	~4,900	~20,900	>5,000	~20,800	~8,500	~15,600
'19 – 35 CAGR	2.7%	1.1%	1.0%	50.4%	2.3%	2.1%	0.9%
Rotorcraft Inventory	3,269	4,585	569	NA(1)	NA(1)	6,316	11,799
Fixed Wing Inventory	1,389	324	20,331	NA(1)	NA(1)	2,181	3,780



Source: Avascent

Note: (1) Rotorcraft and fixed wing aircraft information not available.



# LEVERAGING YEARS OF RESEARCH AND INNOVATION

Blending the key advantages of helicopters (VTOL) and fixed wing aircraft (speed, range, efficiency)

## DESIGN CONSIDERATIONS



### Utilize Existing Research

Patent portfolio from DARPA-funded Heliplane (nka VertiJet) program as well as previously developed prototypes like the Hawk 4 significantly reduce risk



### Keep it Simple

Reduced tooling and R&D for Skyworks, less repair and maintenance for customer



### Cost Effective Alternative

Reduced complexity results in low operating and support costs



### Performance

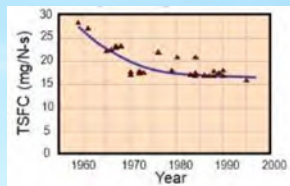
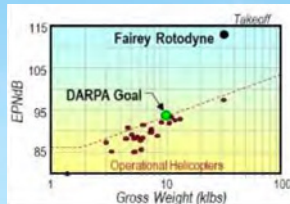
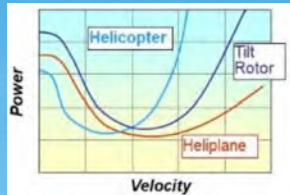
Turbojet engines outperform piston engines



### Customization

Easily customizable to best suit specific end market and use case

Skyworks leveraged VTOL and gyroplane research conducted by DARPA to serve as a foundation for designing the Gyroliner and VertiJet product lines



## Lightweight Structures

- Utilize Progen Manufacturing Techniques to Build Lightweight Composite Primary Structures

## Computational Analysis

- High  $\mu$  Airfoil Shapes
- Aerolastic Analysis & Simulation

## Digital Flight Control

- Smooth Transition Between Flight Modes
- Adaptive Control Blade Flapping, Stall & RPM
- Flight Envelope Protection to not Exceed Blade Flapping/Speed Limits

## Rotor System

- Advanced Composites to Increase Blade Torsion, Flap & Lead-Lag Stiffness
- Active Vibration Control
- Bearingless Hub Designs for Mechanical Simplicity and Low Aerodynamic Drag

## Noise Suppression

- Fairy Rotodyne Noise Suppression Nozzle Projected to have 16 db Reduction. Project Cancelled before Implementation.
- Noise Suppression Designs Addressed in Phase 1 Testing.

## Engines

- Since the FAIRY Rotodyne, Engine sfc has Improved by ~40%





# GAINING MARKET TRACTION

Strategic partnerships agreed to buy up to 260 Skyworks eGyro™ aircraft



X

South Korean startup focused on creating an electric aircraft Urban Air Mobility (UAM) ecosystem in Asia-Pacific markets



CA-based designer and manufacturer of advanced battery systems for elective aircraft and vehicles



Portuguese based aircraft training company in operation for over 30 years



World's 3rd largest rental car company and leading mobility provider

## OVERVIEW

**JUNE 25, 2021**

**Skyworks announced order of 100 eGyro from a consortium of Mint Air and Mobius.energy with options for an additional 100 aircraft**

- Consortium led by Mint Air and Skyworks signed a Letter of Intent (LOI) for exclusive partnership in South Korea
  - Will develop a pilot training program and maintenance and repair capability in Korea for efficient operation of eGyro™ fleet

**JUNE 28, 2021**

**Portuguese based Nortavia Transportes Aeros orders 10 Skyworks Aeronautics eGyro™ Electric Aircraft**

- Nortavia will use the eGyros to expand their existing Aviation Training and Maintenance Academy Program

**JUNE 28, 2021**

**Europcar Brazil Places Order for 50 Skyworks Aeronautics eGyro™ Electric Aircraft**

- For use in Brazil, the world's 4th largest market for civil helicopters

**~194 MILLION = ~1.94 MILLION**  
Contract Value per 100 eGyro per eGyro

**“The fundamental safety and performance advantages of the eGyro will enable Mint Air to accelerate the adoption of intra and inter-city passenger transport in Korea”**

– Eugene Choi, CEO of Mint Air –



# AIRCRAFT PORTFOLIO

## Skyworks Aircraft Pipeline

						
	Hawk 5	SparrowHawk IV	ScoutHawk	eGyro	VertiJet	Gyroliner
Range	360 miles	225 miles	380 miles	50 - 100 miles	1,000 miles	350 miles
Payload	1,825 lbs.	650 lbs.	920 lbs.	2 – 4 Pax + Pilot	1,000 lbs.	19 – 100 Passengers with Baggage
Platform Cost	\$1.25 Million	\$110,000	\$250,000	\$1.9 Million	Civilian - \$15.8M <sup>(1)</sup> Military - \$25.0M <sup>(2)</sup>	Civilian - \$25.0M <sup>(2)</sup> Military - \$25.0M <sup>(3)</sup>
Top Speed	160 MPH	75 MPH	138 MPH	150 MPH	400 MPH	240 MPH
Deliveries	2023	2024	2026	2025	2026	2027

Note:

(1) Expected start of sale to government users.

(2) For a six seat VertiJet aircraft. Size can be scaled up to 14 seats.

(3) Price is for a 40 seat GyroLiner. Price would lower or higher depending on the number of passengers.



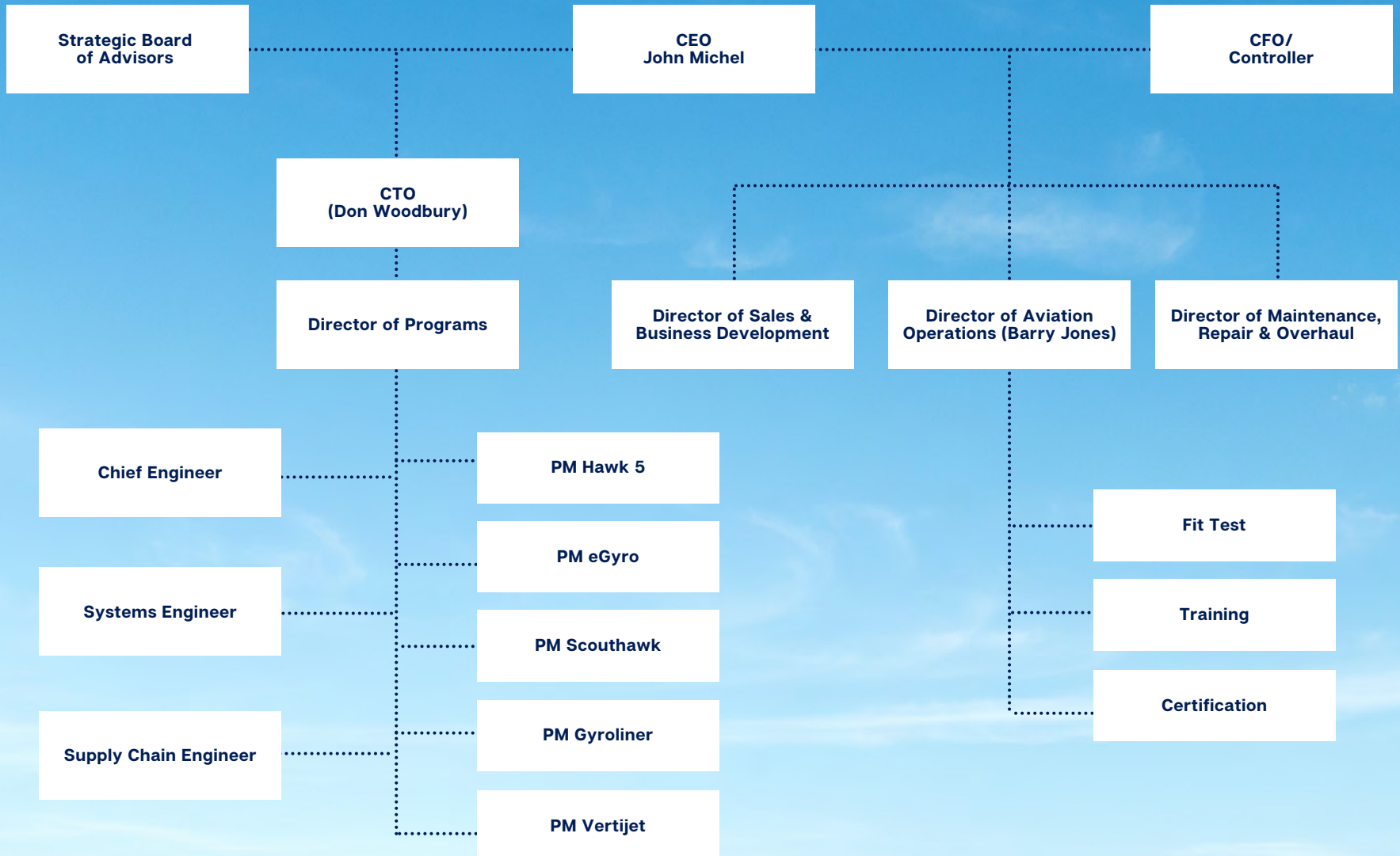
# OPERATIONS OVERVIEW





# ORGANIZATIONAL CHART

**Board of Directors: Steve Stevanovich (Executive Chairman)**



# DESIGN PARTNERSHIP: SCALED COMPOSITES

Skyworks benefits from an extensive relationship with the world-famous experimental aircraft manufacturer

Founded in 1982 and currently owned by Northrop Grumman, Scaled Composites ("Scaled") is the premier aircraft prototype designer in the world

- Scaled has won countless awards for their innovative designs and use of unconventional materials in helicopters, airplanes, and spaceships

As a result of Skywork's long history of innovation and experienced management team, Skyworks has developed an extensive relationship with Scaled Composites



**NORTHROP  
GRUMMAN**

***Scaled is under LOI to design, fabricate, and demonstrate the VertiJet. Skyworks will retain 100% of the intellectual property of the designs.***

Proteus



SpaceShipOne



Virgin Atlantic GlobalFlyer



Stratolaunch



LauncherOne



Firebird



Virgin Galactic SpaceShipTwo



Scaled Composites 401



NG X-47A Pegasus





# MANUFACTURING PARTNERSHIP: YUGOIMPORT UTVA

Accelerating Hawk 5 into production in 2022

- Yugoimport SPDR is a Serbian government-backed manufacturer and defense contractor founded in 1949
- Low labor costs and a long history of reputable qualifications
  - Boeing
  - Recent similar-scale partnerships (i.e. Dubai-based Smartlink)
- Acquired Utva Aviation Industry (UTVA), Serbian manufacturer of light military aircraft, in 2017



## HAWK 5 MANUFACTURER

***Connection with Yugoimport parent company  
can accelerate Skyworks' entry into European  
and developing markets***

UTVA Headquarters: Pančevo, Serbia



UTVA Lasta 95 "Kobac"



UTVA Aero 3



UTVA U75 A41M "SOVA"



UTVA 75





# OTHER PARTNERSHIPS

**WILLIAMS**  
ADVANCED ENGINEERING



## Reputable leader in electrification with a notable brand for prototype development

- ✓ Storied British racing team founded in 1977
- ✓ Advanced Engineering (WAE) division serves as an R&D house for sectors beyond F1
- ✓ Electrification expertise: proven work with commercial players such as Airbus and BAE Systems

## Leader in the concept development of prototype systems and components

- ✓ AS9100 certified
- ✓ Contractor to the US Army, Sikorsky, and Northrop Grumman for production of composite airframe components used on the S76D, UH60 Blackhawk, and Hunter UAV
- ✓ Expertise in both Composite and Metal Systems Design

## CA-based battery developer for electric aircrafts, vehicles, and stationary power systems

- ✓ Novel battery architecture for eVTOL
- ✓ High-energy density, safe, fast charging, on-demand power boost
- ✓ Low Total Cost of Ownership (TCO) by combining rapid self-heating cells with a fast-cooling module

- ✓ Tooele, UT-based manufacturer

- ✓ Entered partnership in 2020 to produce SparrowHawk III kits for American Autogyro Inc., a subsidiary of Skyworks

- ✓ Airo1 will offer commercial assistance for building the kits and after-market support/replacement parts for the aircraft

## EGYRO PROTOTYPE DESIGNER AND ELECTRIFICATION PARTNER OF EGYRO



## EGYRO PROTOTYPE DESIGNER



## ELECTRIFICATION PARTNER FOR EGYRO



## SPARROWHAWK III KIT MANUFACTURER



# PATHWAY TO CERTIFICATION

An existing route to International Certification

**Establish a Part 21 Approval for Skyworks via UK CAA utilizing CS27 as the certification basis**  
**Exercise existing bi-lateral agreements between EASA and the FAA to achieve Global Certification**

## PHASE 1

- ✓ **Establish certification team (Experienced team with a proven track record in certification)**
- ✓ **Establish Skyworks UK Office (Office and airfield facilities to support flight tests)**
  - Prepare document sets for certification (in accordance with Part 21 / CS27 plus applicable SC's)
  - Update existing documents/drawing sets to comply with Part 21 / CS27 and applicable SC's
  - Submit CAA application using Hawk 5 as First Aircraft Program

## PHASE 2

- Refine documentation in accordance with CAA procedures
- Prepare UTVA for Production Organization Approval
- Complete Hawk 5 flight tests and documents
- Review all documents and submit for approval

- With a 'Part 21 Approval' issued to Skyworks, the existing bi-lateral agreements between UK CAA / EASA / FAA will be exercised to expand Skyworks Approvals supporting Global Certification
- The award of a 'Part 21 Approval' to Skyworks is estimated to take between 18 – 36 months
- **The Hawk 5 is the first of Skyworks Aircraft Program to be submitted for approval, however concurrent approvals can be submitted for Skyworks aircraft utilizing the same process, thus shortening the certification time-line**



# RECENT GEM INVESTMENT COMMITMENT

Accelerating Skywork's commercialization efforts

## SKYWORKS RECEIVED A \$200 MILLION INVESTMENT COMMITMENT FROM GLOBAL EMERGING MARKETS (GEM)

### Use of Proceeds:

help finance the commercialization of Skyworks' cutting-edge gyroplane aircrafts

### Terms:

- Share Subscription Facility of up to \$200 million for a 36-month term following a public listing of the company
- Skyworks Aeronautics will issue warrants to GEM to purchase up to 3% of the common stock of the company
- Skyworks controls the timing and maximum drawdown amount under this facility and has no minimum drawdown obligation

## GLOBAL EMERGING MARKETS (GEM) OVERVIEW



<b>Location:</b>	New York, NY
<b>AUM:</b>	\$3.4 Billion
<b>Mandate:</b>	Buyout, PIPE, Venture
<b>Transactions:</b>	435
<b>Vehicle:</b>	GEM Global Yield LLC SCS

**“... this commitment by GEM positions Skyworks Aeronautics to become the first company in the world to commercialize gyrocraft at scale. Be it providing affordable vertical lift alternatives to developing nations, progressive electric aircraft capabilities for air carriers, or game-changing vertical takeoff and landing platforms, Skyworks Aeronautics is now poised to be a transformative force in the rapidly evolving air mobility industry.”**

– Brig. General (Ret.) John Michel –

