# BANK OF AMERICA GLOBAL RESEARCH GLOBAL INDUSTRIALS CONFERENCE

MIKE MADSEN PRESIDENT AND CHIEF EXECUTIVE OFFICER AEROSPACE

## Honeywell

#### **Forward Looking Statements**

This presentation contains certain statements that may be deemed "forward-looking statements" within the meaning of Section 21E of the Securities Exchange Act of 1934. All statements, other than statements of historical fact, that address activities, events or developments that we or our management intends, expects, projects, believes or anticipates will or may occur in the future are forward looking statements. Such statements are based upon certain assumptions and assessments made by our management in light of their experience and their perception of historical trends, current economic and industry conditions, expected future developments and other factors they believe to be appropriate. The forward-looking statements included in this presentation are also subject to a number of material risks and uncertainties, including but not limited to economic, competitive, governmental, technological, or impacts of the Russia-Ukraine conflict affecting our operations, markets, products, services and prices. Such forward-looking statements are not guarantees of future performance, and actual results, and other developments, including the Russia-Ukraine conflict, and business decisions may differ from those envisaged by such forward-looking statements. Any forward-looking plans described herein are not final and may be modified or abandoned at any time. We identify the principal risks and uncertainties that affect or performance in our Form 10-K and other filings with the Securities and Exchange Commission.

## **AERO KEY MESSAGES**

#### Long Term Tailwinds

- Well-positioned to take advantage of accelerating bizjet OEM jet growth and widebody return to flight
- Industry leading cost position growing investment as percent of sales while expanding segment margin to 29% by 2024
- Great positions on growing defense programs: F-35, GBSD, Long Range Strike, National Programs
- Best in class space franchises: RWAs, CMGs, optical interlinks

## Best in Class Positioning for Future of Aviation

- ~\$2.5B Content Secured on Valor platform for FLRAA
- Over \$7B in UAM / UAS equipment wins with \$10B+ pipeline
- Revolutionizing flight decks in all markets with Honeywell Anthem<sup>®</sup>
- Industry leading R&D investment profile at a rate of 5% - 8% of revenue
- Retrofits / Modifications / Upgrades (RMUs): \$1B+ per year and growing at 10% CAGR

#### Productivity Improvements Driving Continued Margin Expansion

- Digitized Processes: >75% of customer transactions M-to-M
- Leader in Connected Systems: Installed on 10,000+ aircraft
- One instance of ERP across entire enterprise
- 50% reduction in manufacturing footprint (2016 - 2022)
- Breakthrough Initiatives: vapor cycle cooling, alternative nav, electromechanical actuation, and LIDAR systems

#### Leading the Industry Today and Tomorrow

## **AERO EXCITING MARKET OUTLOOK**



## **AERO INVESTMENT PRIORITIES**

#### **ADVANCING FRANCHISE TECHNOLOGIES**



Next-Gen Navigation for Defense and UAM Entry Into Service: 2023 2030 Revenue: \$100M+



Next Gen Cockpit for All Market Verticals Entry Into Service: 2024 2030 Revenue: ~\$500M



#### **Decoupled Revenue Investments**

Next Gen SATCOM Systems Retrofits/Mods/Upgrades Hybrid Power Systems Entry Into Service: Today 2030 Revenue: \$1B+



Military Turboshaft and Next-Gen Business Aviation Propulsion Entry Into Service: 2025 thru 2030 2030 Revenue: ~\$500M



Family of Vapor Cycle Cooling Systems for Bizjet, Gen Av, Helos, and UAM Entry Into Service: 2025 2030 Revenue: \$100M+

## **Growing R&D Investments While Expanding Margins**

## **AERO** SECURING THE FUTURE OF AVIATION

Won

















#### **HIGHLIGHTS**

- **\$7B+** in content wins
- **\$10B** in pipeline over **next 5 years** ٠
- Leader for UAM fly-by-wire, avionics with simplified ٠ vehicle operations, and aerospace-grade motors that can be built at automotive scale
- Highly differentiated high assurance fly-by-wire controls, detect-and-avoid systems and multi-function cooling systems
- Building **pervasive aerial autonomy** to launch a revolution in aerial transportation and logistics
- Potential to generate ~\$2B in revenue by 2030

## Launching a Revolution in Aerial Transportation and Logistics

## **AERO SUSTAINABLE AVIATION LEADERSHIP**

#### **TECHNOLOGIES**

#### Sustainable Aviation Fuels (SAF)





**Auxiliary Power Unit** 

**Fuel Efficiency** 

#### **More-Electric and Full Electric**



**Electric Propulsion** Motors & Controllers



**1MW Generator** 

#### Fuel Cell



**Turbo Generator** 



#### **CLIMATE IMPACT**

#### **ENTRY INTO SERVICE**

#### Material CO<sub>2</sub> Reductions:

- ~5% via software optimization
- 30% 60% on 100% SAF



#### Hybrid Electric Power Gen:

10% - 20% emissions reduction with conventional fuels



#### Hydrogen Fuel Cell:

- CO<sub>2</sub> Reduction: 100%
- NOx Reduction: 100%



## Portfolio of Technologies Enabling Decarbonization of the Industry

**Proton Exchange Membrane Fuel Cells** 

## **AERO SUMMARY**

<ul> <li>Shaping the Future</li> </ul>	<b>185+</b>	<b>5% - 8%</b>	<b>\$7B</b>
	NPIs Over the	R&D as % of	In Recent
	Last Three Years	Total Sales	UAS / UAM Wins
<ul> <li>Industry Recovering</li> </ul>	<b>&gt;10%</b>	>120%	<b>MSD</b>
	Widebody Flight	Business Jet Activity	Long-Term
	Hour Growth CAGR	Relative to 2019 Levels	Sales CAGR
Strong Execution	<b>~100%</b>	<b>&gt;25%</b>	<b>~29%</b>
	Cash	Segment Margin	Long-Term
	Conversion	Through Pandemic	Margin Target

#### Innovation, Market-Leading Growth, and Best in Class Cost Position

# Honeywell



Mike Madsen became President and CEO of Honeywell Aerospace in October 2019. Based in Phoenix, Honeywell Aerospace products and services are found on virtually every commercial, defense and space aircraft, and its hardware and software solutions create more fuel efficient aircraft, more direct and on time flights, and safer skies and airports. Madsen has held a variety of executive roles over more than three decades in the business, leading multi billion dollar business units as well as global support functions. He is a change agent with a long track record of strong results in difficult environments and multiple disciplines.

Prior to his current role, he served as Vice President of Integrated Supply Chain for Aerospace with broad responsibility for the global supply chain and manufacturing facilities. Prior to that, he was President, Honeywell Aerospace Defense and Space, a business that serves original equipment manufacturer (OEM), aftermarket, military, government agency and commercial helicopter segments internationally. Before that, Madsen was Vice President of the Airlines Customer Business team within the Air Transport and Regional (AT&R) business. He advanced to that role after serving as Vice President for AT&R's Regional Aircraft and Aero Component business. Madsen's career at Honeywell started as an engine performance engineer in the Aerospace Engines business. Following this, he held a series of positions of increasing leadership responsibility in program management within Honeywell's Aerospace business. Madsen led development activities on a wide range of products ranging from solar dynamic power systems to cryogenic valves, launch vehicle actuation systems and aircraft pneumatic components. Madsen later served as a production program manager and product manager supporting Honeywell's aerospace components business, as well as Director of Program Management and Velocity Product Development for Honeywell's Business and General Aviation organization.

He earned his B.S. in aerospace engineering from Arizona State University and his M.B.A. from Duke University.