



# EVE AIR MOBILITY

SEPTEMBER 2023



# VEHICLE DESIGN OPTIMIZED FOR URBAN MOBILITY



## Flexible seating capacity

**4** passengers at EIS, up to **6** in autonomous configurations

**Tailored for urban mobility**  
**100 km** (60 mile) range at EIS addresses  
**99%** of UAM missions

## High utilization rate

Designed for **thousands** flight cycles per year with industry-leading reliability

**Unmatched cost efficiency**  
Over **6X** lower cost-per-seat than helicopters

## Lift + Cruise Design

The **most practical** design choice for efficiency and certification

## Community-friendly

Up to **90%** lower noise footprint compared to equivalent helicopters

# MOST PRACTICAL DESIGN CHOICE FOR UAM MISSIONS

## LIFT + CRUISE



- Simple design
- High reliability
- Straightforward to certify
- Quiet in cruise mode
- Low battery drain
- Simple maintenance



## TILT ROTOR



- High speed
- Long range
- Complex design
- Lower reliability
- Challenging to certify

## VECTORED FAN



- Efficient cruising
- Long range
- Energy intensive hover
- Take-off noise level
- High battery drain

## MULTI-ROTOR



- Efficient takeoff and landing
- Simplest to certify
- Less efficient cruising
- Slower speeds
- Very short range
- High battery drain

Source: Assessment by Eve management and market analysis as per "Market for Urban Air Mobility" from KPMG dated June 2021

# UAM MARKET

by 2035 we forecast

**50.000** operating eVTOLS

performing over **770k** flights per day

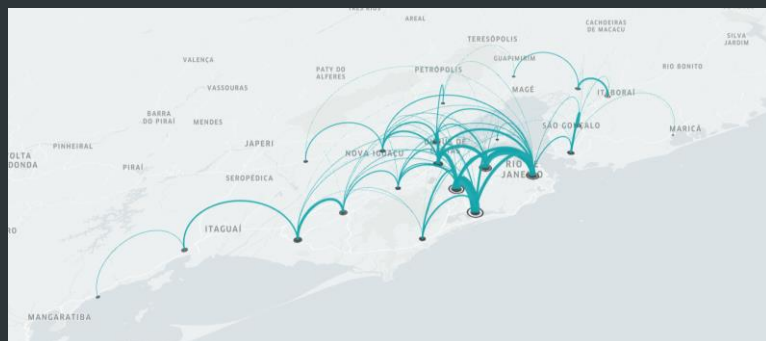
transporting over **900M** passengers

In **500** cities



# POTENTIAL OF UAM IN MAJOR URBAN AREAS

## RIO DE JANEIRO



**245** eVTOLS

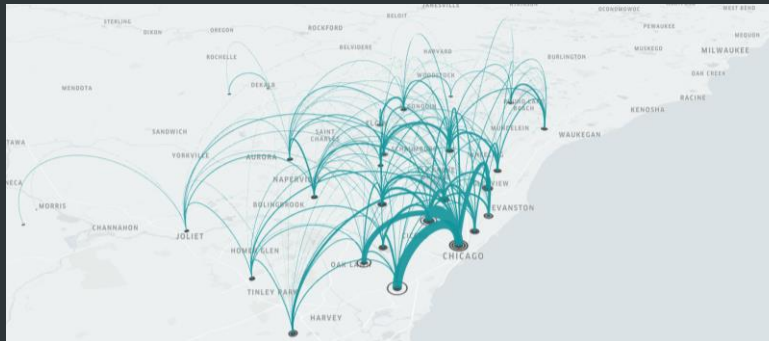
**37** Vertiports

**100+** Routes

**4.5M** Annual passengers

**\$220M** Annual revenues

## CHICAGO



**240** eVTOLS

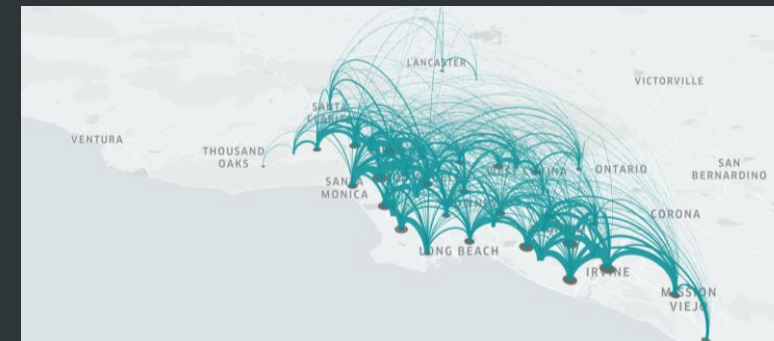
**30** Vertiports

**120+** Routes

**4.5M** Annual passengers

**\$225M** Annual revenues

## LOS ANGELES



**390** eVTOLS

**38** Vertiports

**150+** Routes

**7.1M** Annual passengers

**\$350M** Annual revenues

# eVTOL AND URBAN ATM DEALS

**28 eVTOL** customers in **14** countries

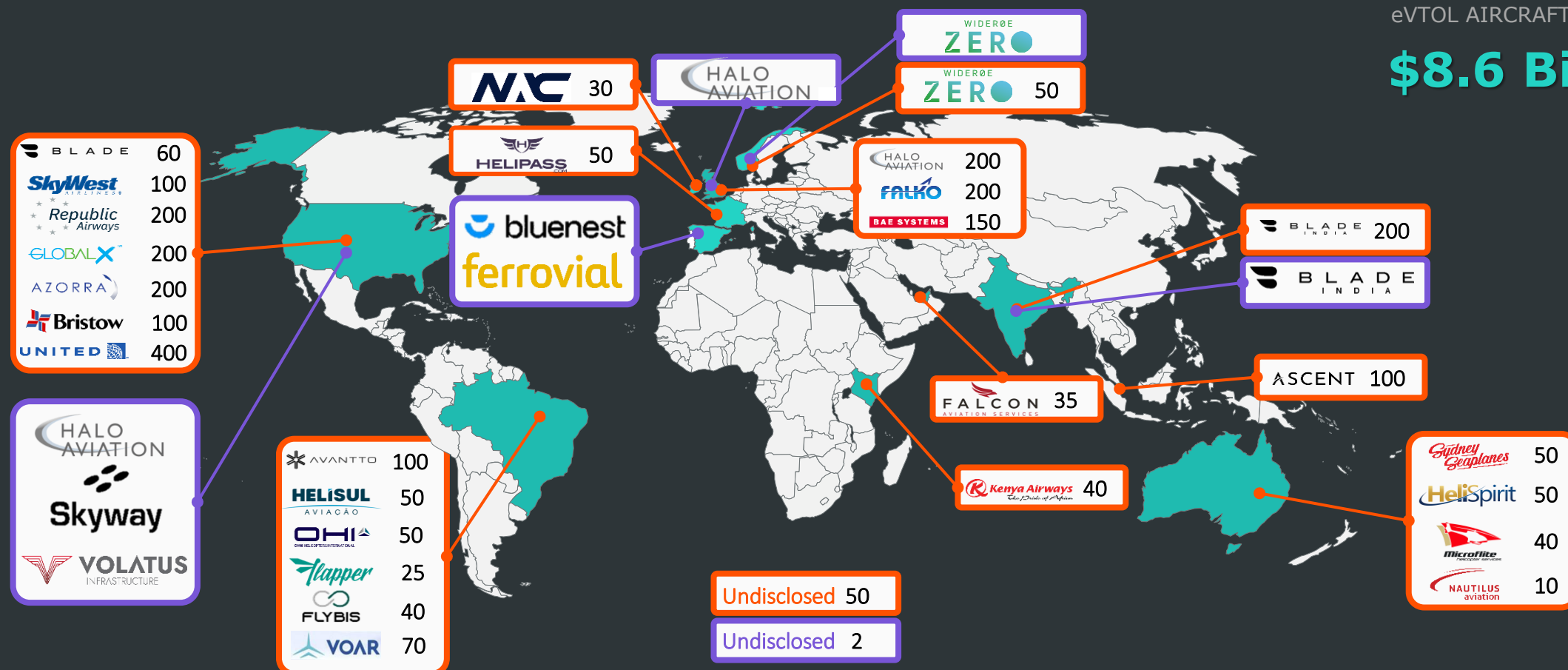
**9 UATM** customers & partners in **3** continents

Letters of Intent for up to

# 2,850

eVTOL AIRCRAFT

# \$8.6 Bi



# LATEST PRODUCT DEVELOPMENTS

## eVTOL CONFIGURATION CONCLUDED IN 2Q23

Final design presented at the Paris Air Show; detailing eVTOL's architecture and subsystems

## MATURING THE eVTOL TECHNICAL KNOWLEDGE

RUAG wind-tunnel results incorporated

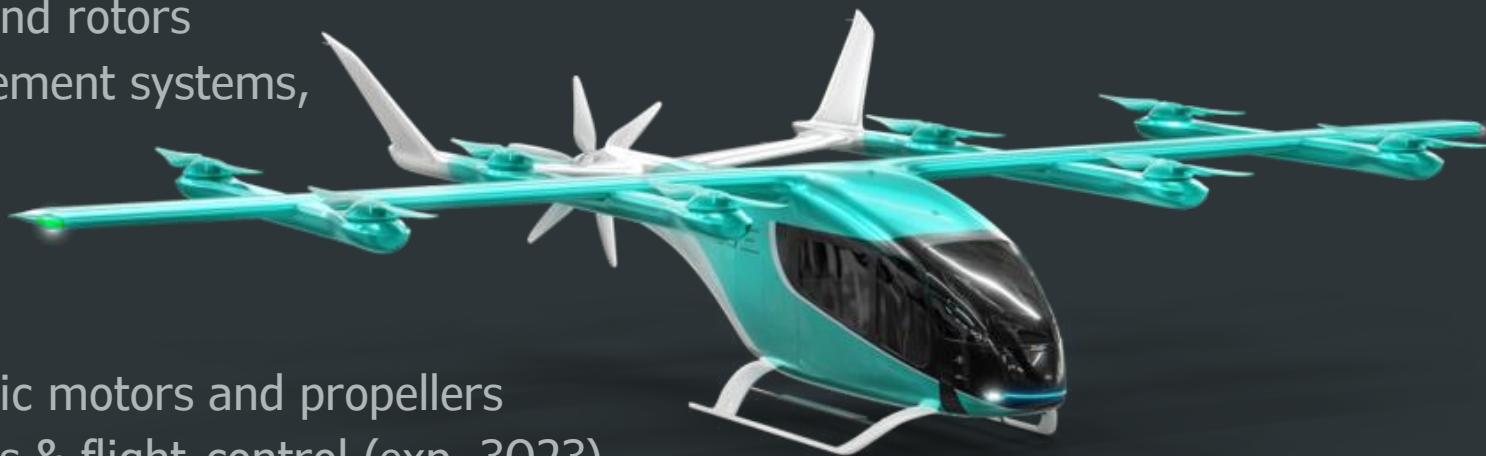
Mobile rig for high-performance, low-sound rotors

Rig employed for testing thermal management systems, batteries, motors and flight controls

## SUPPLIERS' SELECTION

Primary suppliers defined: battery, electric motors and propellers

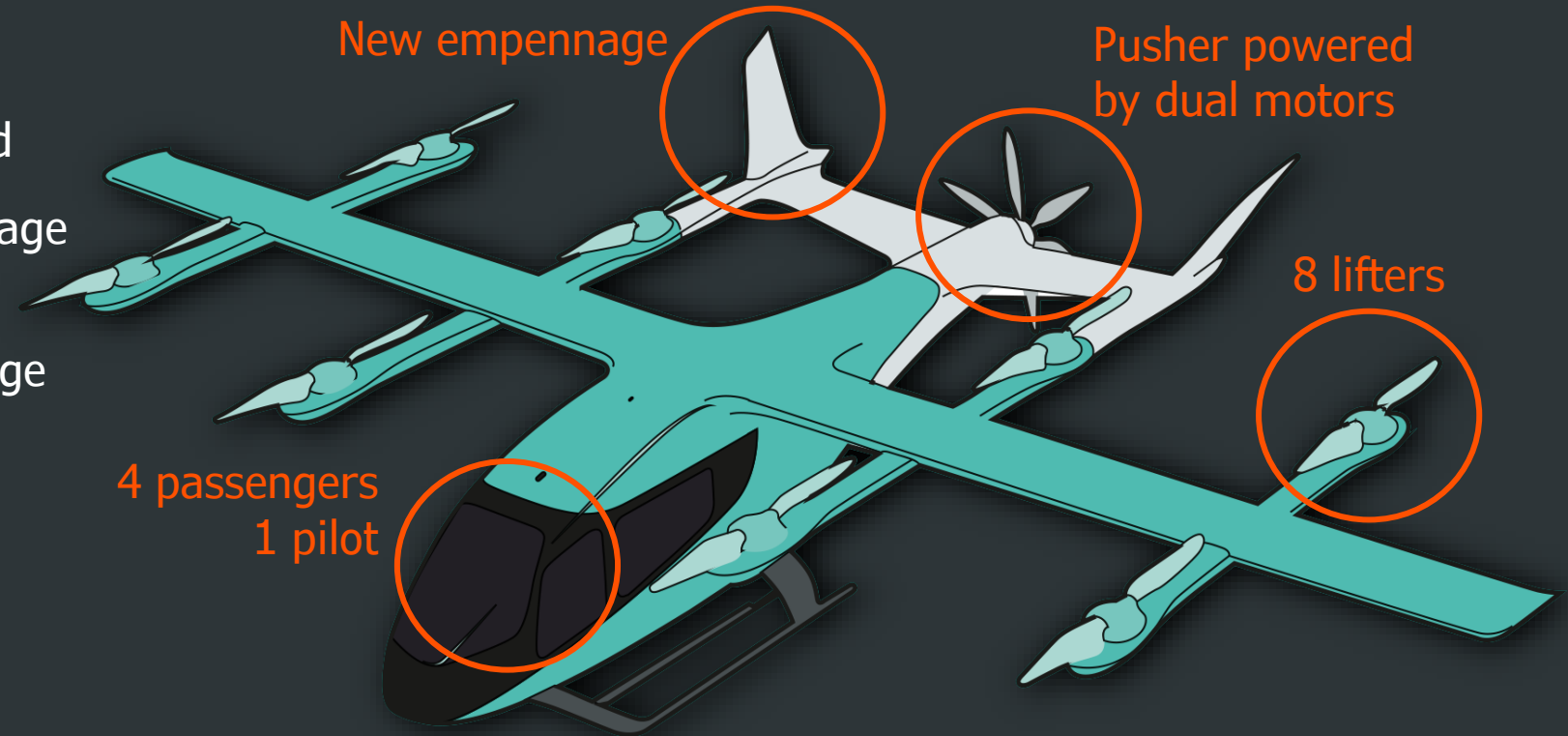
Upcoming selection for avionics, actuators & flight-control (exp. 3Q23)



# eVTOL CONFIGURATION CONCLUDED

Final eVTOL configuration; new empennage and pusher disclosed

- Final cabin dimensions & baggage compartments
- Refined fuselage and empennage



Upcoming milestones:

- BALANCE OF SUPPLIER SELECTION & HMI\* CONFERENCE (Q3)
- ASSEMBLY OF FULL-SCALE PROTOTYPE (2H23)
- INITIATE TEST CAMPAIGN (2024)

\* Human-machine interface





CRYSTAL  
CABIN  
AWARD®

SHORTLISTED 2023

EVTOL  
CABIN

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# SELECTION OF PRIMARY SUPPLIERS

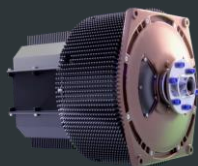


EVE

**Nidec**

**AEROSPACE**  
A Nidec & Embraer Joint Venture

**Electric Propulsion System**



**BAE SYSTEMS**

**Energy Storage System**



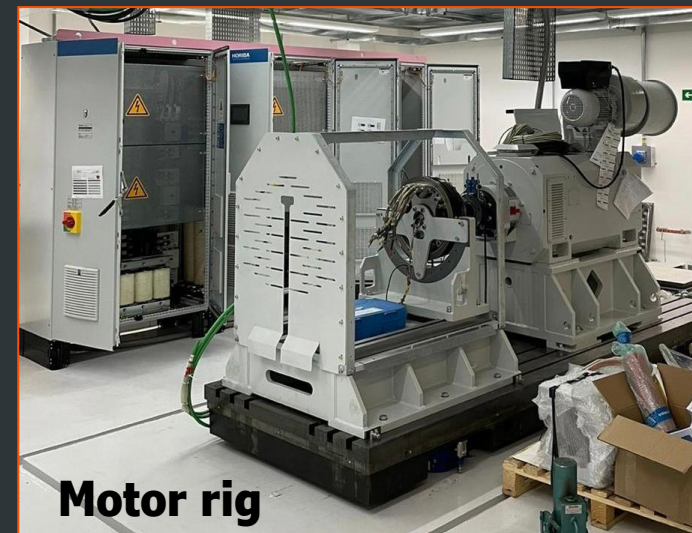
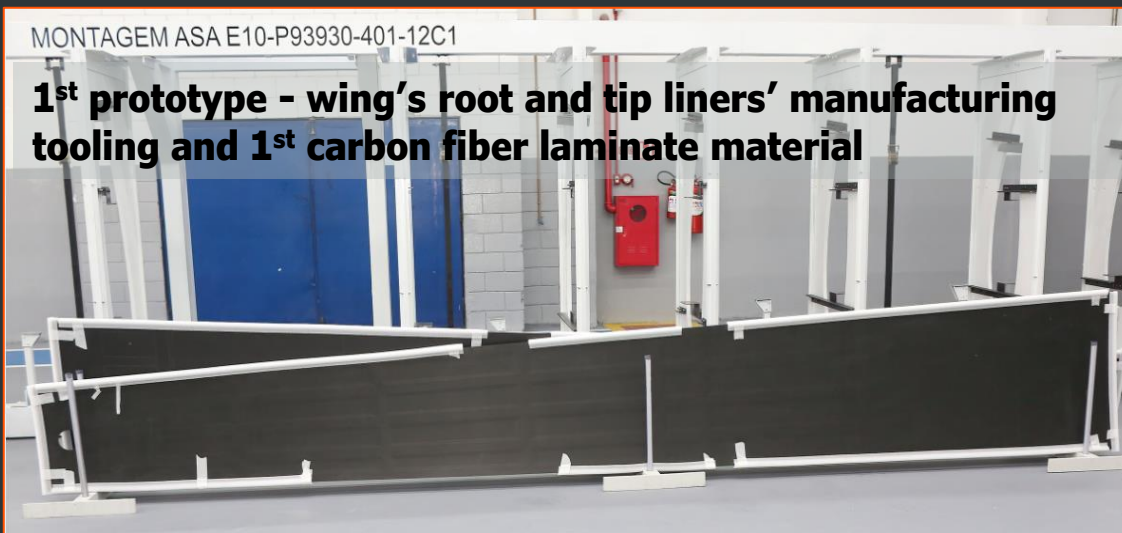
**DUC** Hélices Propellers

**Rotors and Propellers**





# EVTOL TESTING PHASE CONTINUES

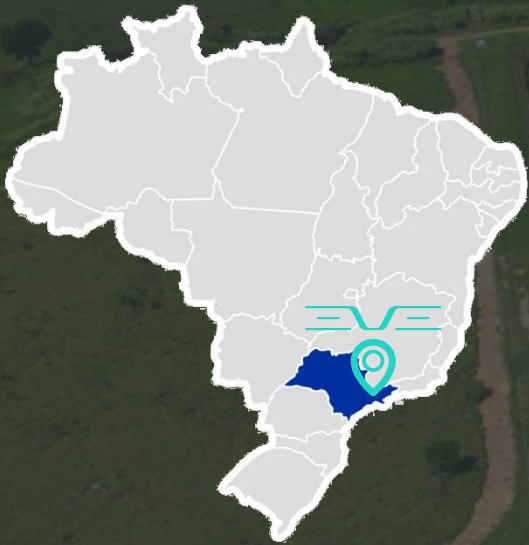




# SELECTION OF FIRST eVTOL PRODUCTION SITE IN BRAZIL



EVE



## 📍 TAUBATÉ - SÃO PAULO, BRAZIL

- Production facility situated within Embraer's existing unit that will be expanded
- Strategic logistical location, proximity to Embraer's headquarters in São José dos Campos and Eve's engineering and human resources team



# FINANCIAL PERFORMANCE

USD MILLIONS

	2Q23	2Q22	1H23	1H22
<b>INCOME STATEMENT</b>				
Research and Development	(21.8)	(10.4)	(43.3)	(19.5)
Selling, General and Administrative	(6.6)	(15.7)	(12.8)	(17.0)
Warrant expenses, change in fair value of derivative liabilities	(6.8)	(81.5)	(9.0)	(81.5)
Financial and Foreign Exchange Gain/(Loss)	4.1	0.6	8.4	1.0
Net Earnings (Loss)	(31.4)	(107.2)	(57.2)	(117.2)
<b>CASH FLOW</b>				
Net Cash Used in Operating Activities	(27.7)	(20.0)	(47.6)	(21.9)
Net Additions to PP&E	(0.1)	-	(0.2)	-
Free Cash Flow*	(27.8)	(20.0)	(47.8)	(21.9)
Net Cash Provided by Financing Activities	(0.3)	337.7	(0.3)	337.7
	2Q23	2Q22	1H23	2H22
<b>BALANCE SHEET</b>				
Other Assets	2.5	0.2	2.5	2.1
Related Party Receivable	0.3	0.3	0.3	0.2
Total Payables	27.6	16.3	27.6	22.4
Cash, Equivalents and Investments, Beginning of Period**	294.6	14.4	310.6	330.8
Cash, Equivalents and Investments, End of Period**	269.0	330.8	269.0	310.6
Total Debt	-	-	-	-
Total liquidity including BNDES Standby Facility*(1)	370.7	330.8	370.7	330.8



Strong Liquidity

\* Net Cash and Cash-Flow items are non-GAAP measures

\*\* Includes Related Party Loans but it does not include BNDES approved finance line of ~\$101.7 million

(1) Includes Cash + Cash equivalents of up to 90 days and investments above it + Related Party Loans + BNDES Standby Facility of \$101.7 million

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# MILESTONES AND 2023 OUTLOOK UNCHANGED

EVE



SELECTION OF PRIMARY SUPPLIERS



AIRCRAFT SYSTEMS ARCHITECTURE DEFINITION



FIRST PROTOTYPE ASSEMBLY (2H23)



INITIATE TEST CAMPAIGN (2024)



TRIAL SOFTWARE OF URBAN AIR TRAFFIC MANAGEMENT – URBAN ATM (2H23)



2023 TOTAL CASH CONSUMPTION BETWEEN \$130 AND \$150 MILLION

# EVE'S GLOBAL UAM ECOSYSTEM INITIATIVES

For agnostic, integrated and equitable UAM ecosystem

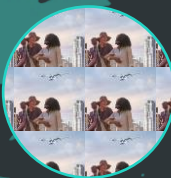
## Chicago CONOPs & Simulation

Simulating passenger services and operational ecosystem in commuting



## Miami UAM CONOPs

Understanding Passenger Experiences and eVTOL User Journeys to prepare for UAM implementation



## Rio CONOPs & Simulation

Simulating passenger services and operational ecosystem in airport shuttle



## UK CAA Regulatory Sandbox

Co-created solutions with ANSP to address regulatory barriers to airspace integration



## Japan CONOPs

Understanding ground infrastructure and traffic management systems



## India Pilot Project

Supporting pilot project offering passenger services for commuting in Bengaluru



## Australia UATM CONOPs

Developed and tested UATM CONOPS for airspace integration with Australia's ANSP





# EVE COMPLETED DEVELOPMENT OF URBAN ATM PROTOTYPE



## URBAN AIR TRAFFIC MANAGEMENT (UATM) PROTOTYPE

Focused on essential services to support introduction and scalability of Urban Air Mobility (UAM) operations

## FEEDBACK FROM SIMULATIONS AND ADVISORY GROUPS

Tests during Eve's Chicago Simulation and Advisory Groups/partners to ensure software development alignment

## NEXT STEP

Initiating commercial product development of UATM solutions to ensure airspace integration



BLADE  
INDIA



VOLATUS  
INFRASTRUCTURE



bluenest  
by globalvia

ferrovial

+1 undisclosed customer



# SUSTAINABILITY



**100%**

electric vehicle



**ZERO**

local carbon  
emissions



**FULL LIFE-  
CYCLE**

design approach



**UP TO 80% CO<sub>2</sub>**

emission  
reduction vs cars



**CARBON  
NEUTRALITY**

Achievable with  
minimum costs



# SUSTAINABLE MATERIALS

Composite wall

EVE

Water based paint

Sustainable leather

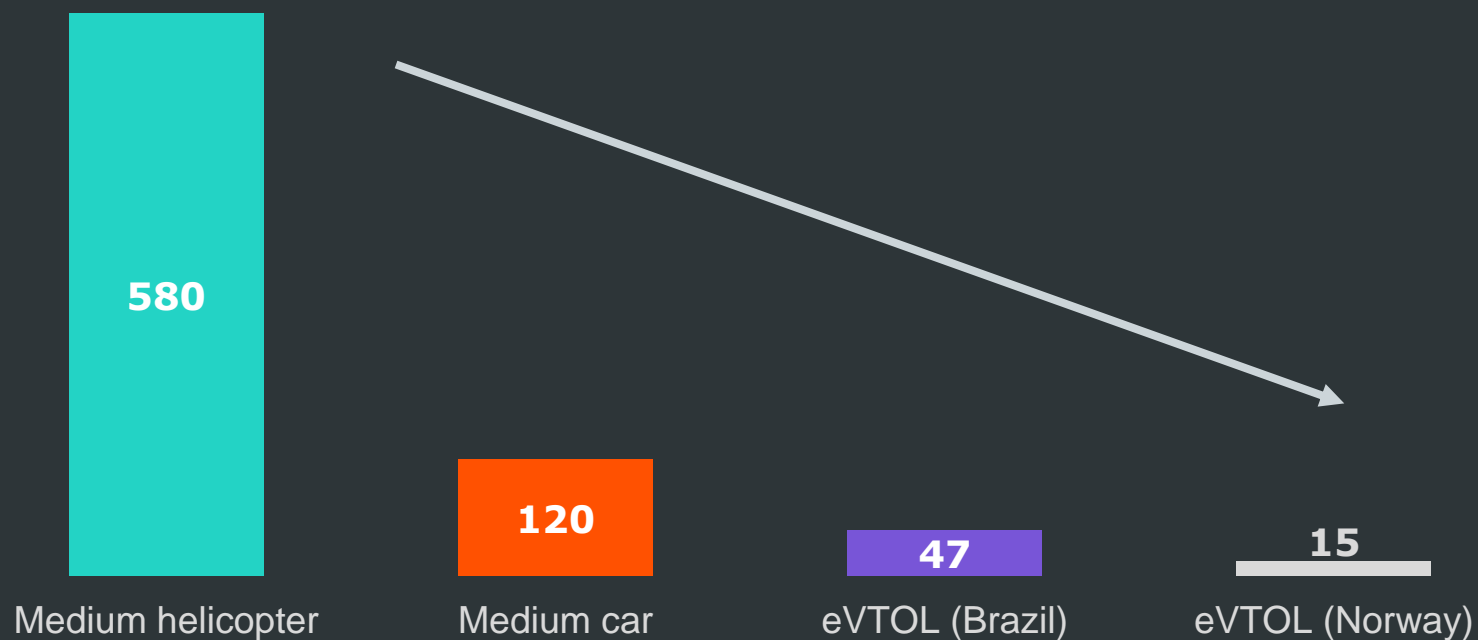
Wool fabric

Recycled rubber



# STRONG ENVIRONMENTAL APPEAL WITH CO2 EMISSIONS REDUCTION

**Operational Emissions by Transportation mode  
(g CO<sub>2</sub>-eq per passenger per km)**



**EVTOLS WILL HAVE SIGNIFICANTLY LOWER CARBON IMPACT THAN CARS AND HELICOPTERS**

IT WILL DEPEND ON THE ENVIRONMENTAL CREDENTIALS OF THE ELECTRICITY GENERATION IN EACH LOCALITY

# WORLD ECONOMIC FORUM



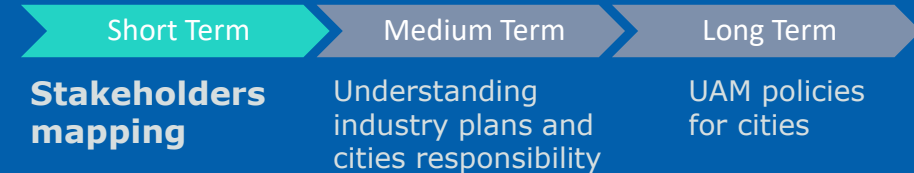
## Collaborating with knowledge into industry leaders' reports

Target True Zero  
Unlocking Sustainable Battery and  
Hydrogen-Powered Flight  
INSIGHT REPORT  
JULY 2022



## Joining the coalition to anticipate the impact of UAM on the top cities around the world

*Current Status*



Sharing solutions development and integrating with other stakeholders to enable the UAM ecosystem of the future



THANK YOU!

EVE

