



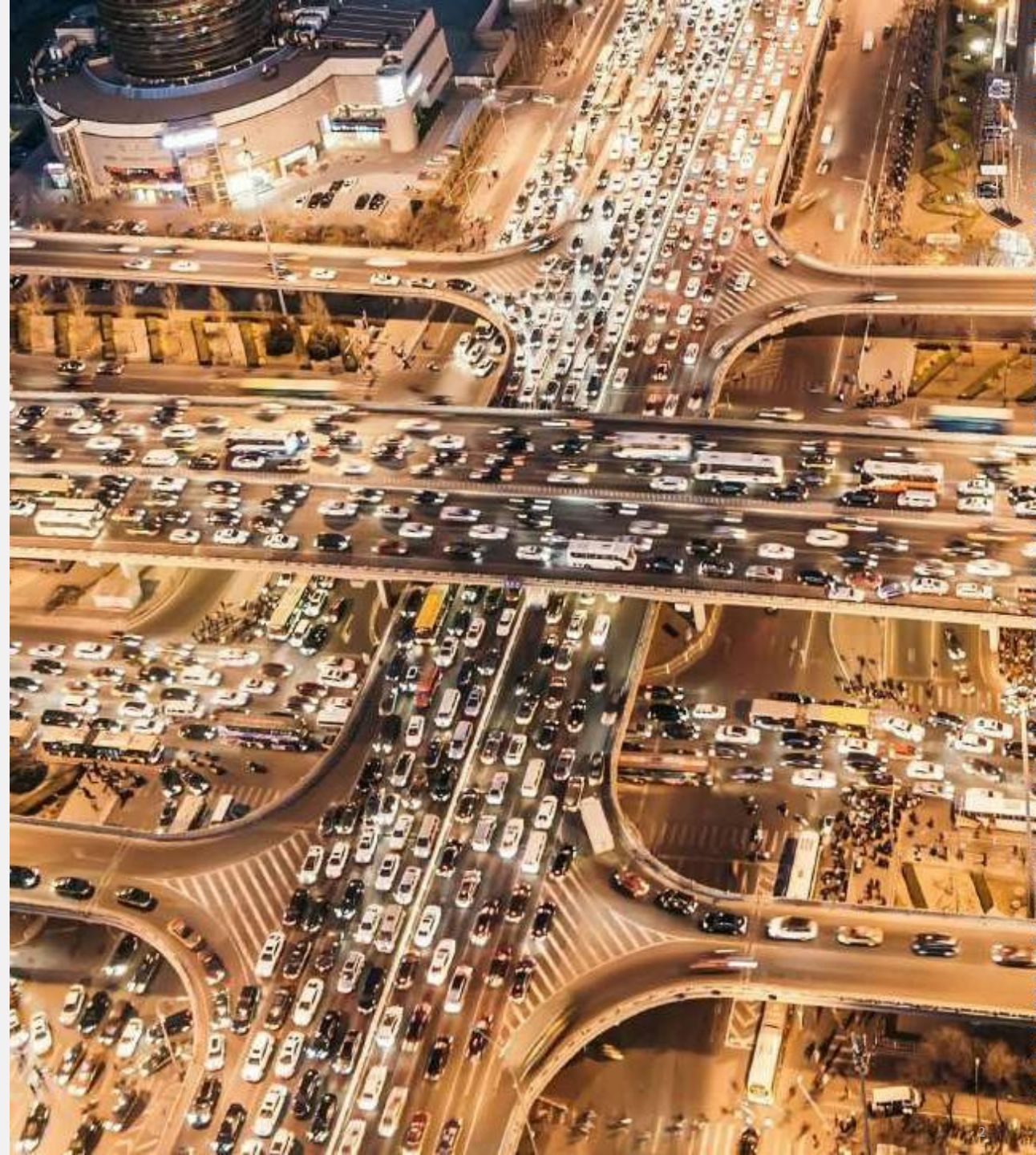
# VERTICAL

PIONEERS IN ELECTRIC AVIATION



## WHY NOW?

- Decarbonisation is imperative
- Urbanisation is unstoppable
- Ground transport can't meet the demand







SUCCESSFUL IN  
FLIGHT

VA-X1

First flew in 2018

VA-X2

First flew in 2019



# VA-X4

## CAPACITY

5 People

1x Pilot  
4x Passengers

## RANGE

100+ miles

## TOP SPEED

200+ mph

up to an altitude of 5,000ft

## CO2 EMISSIONS

0

## CERTIFICATION

EASA/CAA

## OPERATING COST

c. \$1.06 per seat mile

for a 25 mile journey



**Rotors**  
Designed for high performance and low noise

**Battery**  
Designed around cells already in commercial automotive application

**Aerodynamics**  
Optimum aircraft stability with the lowest weight and drag

**Scalability**  
Allows development of variants at minimal cost



**Electric Propulsion Unit**  
6 years of development



**Avionics and Flight Controls**  
4 years of development



**Wing**  
Tech already in service



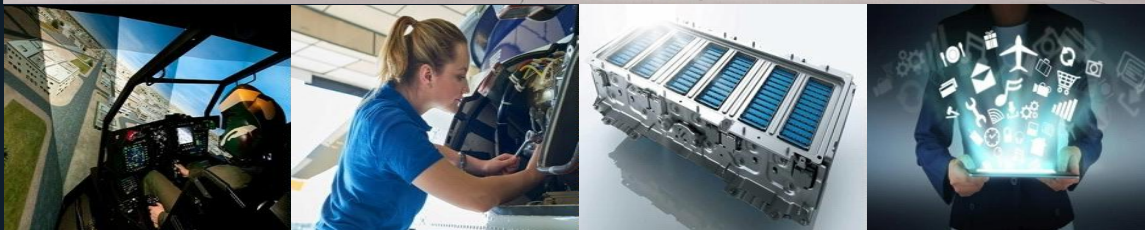
**Fuselage**  
Leonardo aerostructures



**Composite Materials**  
Tech already in service

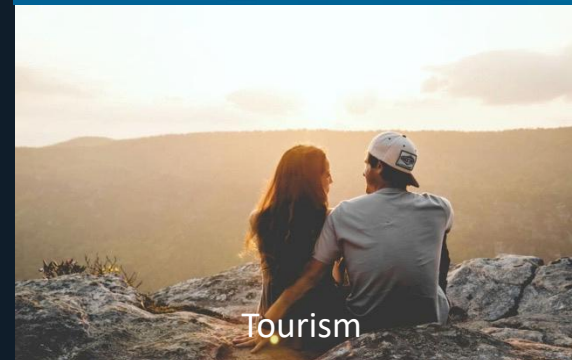


## PROPOSITION



Combined OEM aircraft sales and aftermarket services

## TARGET CUSTOMERS



Launch partners with existing proven demand

## COMPELLING PROPOSITION

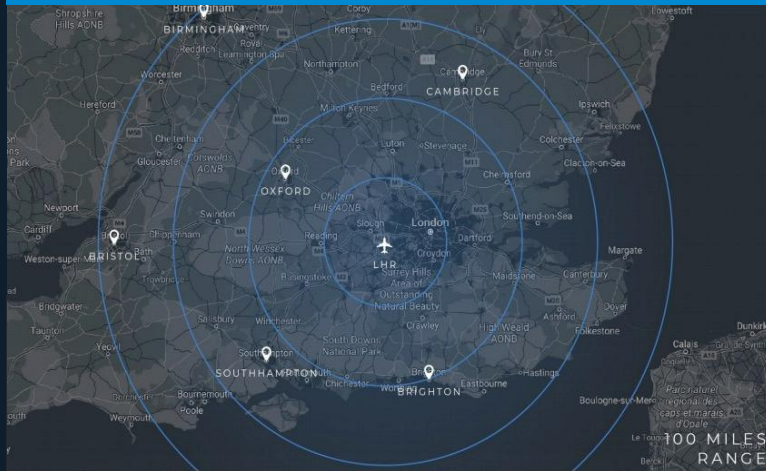


# WORLD-LEADING ORDER BOOK OF 1,350 AIRCRAFT





## AIRPORT TRANSIT (25 – 50 MILES)



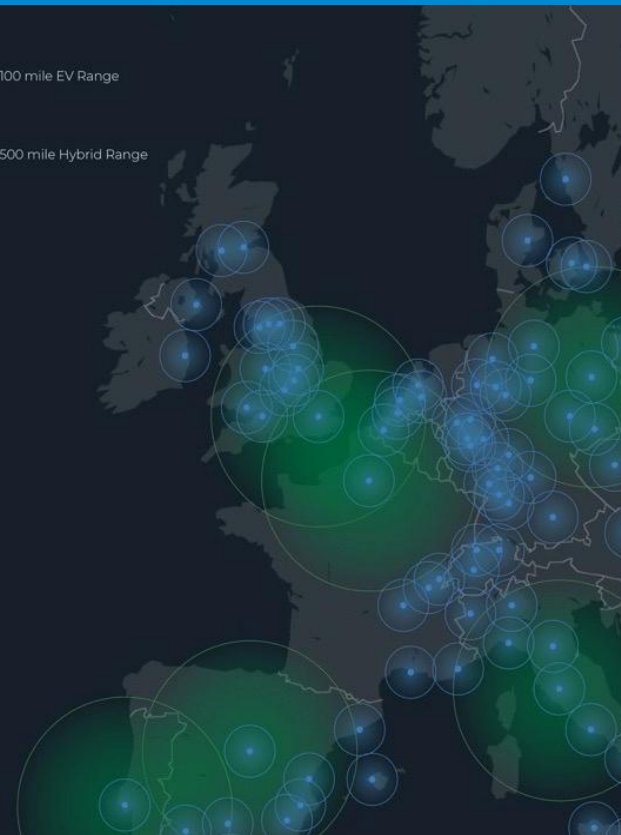
TOP 50 CITIES BY POPULATION  
AS OF 2018<sup>1</sup>

■ - United States  
■ - Rest of World

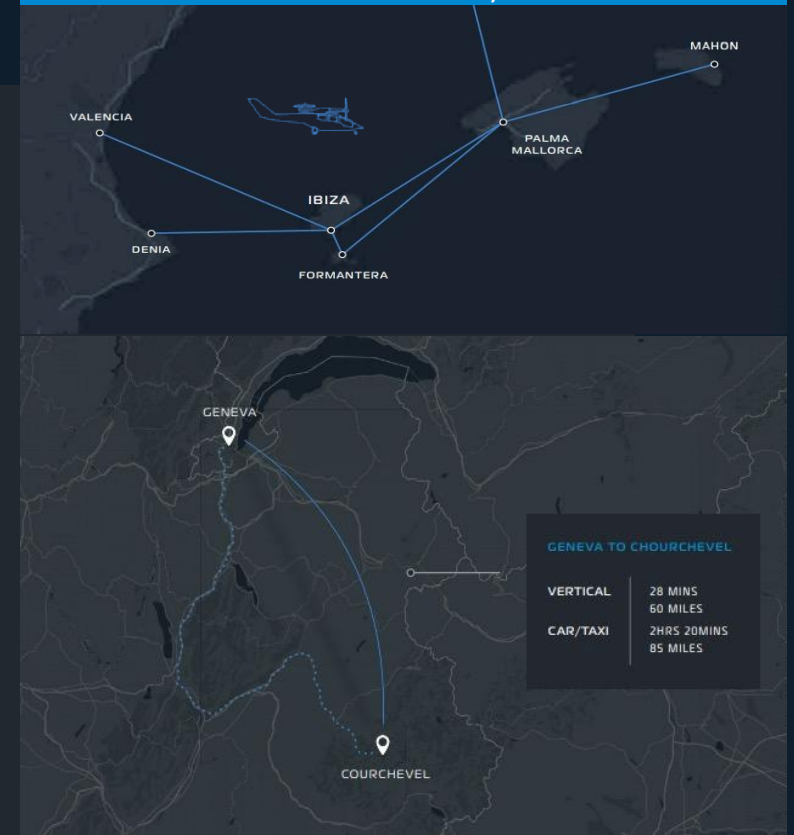


## 2. INTER CITY AND POINT TO POINT ROUTES (60 – 100 MILES)<sup>2</sup>

● = 100 mile EV Range  
● = 500 mile Hybrid Range



## 3. INTER ISLANDS & TOURISM (25 – 100 MILES)<sup>2</sup>



# VA-X4 IS DESIGNED AND TAILORED TO MISSION





# LONDON



## HEATHROW HUB CATCHMENT AREA

ILLUSTRATIVE USE CASE FOR 50 PLANE NETWORK

**\$93 MN**

NETWORK REVENUE PER ANNUM

**535,000**

PASSENGERS PER ANNUM

**39,000** TONNES

CUMULATIVE CARBON EMISSIONS  
SAVED BY 2030

**CAMBRIDGE - LHR**

VERTICAL 22 MINS  
56 MILES  
CAR/TAXI 1 HR 30 MINS  
CAR/TAXI 2 HRS 10 MINS

CAMBRIDGE

OXFORD

BRISTOL

**BRISTOL - LHR**

VERTICAL 37 MINS  
93 MILES  
CAR/TAXI 2 HRS  
CAR/TAXI 2 HRS 09 MINS

HEATHROW AIRPORT

CANARY WHARF

**BRIGHTON - LHR**

VERTICAL 20 MINS  
47 MILES  
CAR/TAXI 1 HR 30 MINS  
CAR/TAXI 1 HR 40 MINS

SOUTHAMPTON

PORTSMOUTH

BRIGHTON

BOURNEMOUTH





THANK YOU