

MAY 2022

THE EV/STOL PLATFORM TO GO FAR AND FURTHER



MANTA
AIRCRAFT



**A NEW INNOVATIVE
AIR VEHICLE FAMILY**

HYBRID-ELECTRIC
VERTICAL AND SHORT TAKE OFF AND LANDING
LONG RANGE, HIGH SPEED
LESS INFRASTRUCTURE REQUIREMENTS

The unique long-range AAM
eV/STOL aircraft platform



Taking off like a Helicopter
Flying like an Airplane

MANTA AIRCRAFT is an innovative engineering and design company founded by top-class professionals engaged in the development of a multipurpose aerial platform of hybrid-electric eV/STOL vehicles for advanced and regional air mobility.

Key Investment Highlights



Promising Business Fundamentals

- ↓ Addressing a Massive Global TAM:
- ↓ Ability to participate in the establishing \$1,5trill - \$3trill UAM Market

The most versatile Aircraft Platform for a new era of Regional and Inter-Regional Air Mobility

- ↓ Longer Range, Higher Speed, Hybrid-Electric
- ↓ Scalable Solution - A common platform for multiple aircraft models
- ↓ Total Ownership Cost : 1/5 – 1/10 of a Helicopter
- ↓ No new Infrastructure or regulated Airspace required to start operations
- ↓ Environmental, Social and Governance (ESG) Impact – Reducing CO2 Emissions with bio-fuels, hydrogen and battery solutions

Attractive Investment Opportunity

- ↓ Attractive Early Stage Entry with High Growth Potential
- ↓ Only AAM initiative in Italy - One of the two initiatives in Southern Europe
- ↓ Strong Business plan based on conservative sales targets
- ↓ Access to a Top-In-Field-Ecosystem
- ↓ Designed by a highly experienced Team
- ↓ Advised by former CEO of Leonardo and by the former CTO of Agusta-Westland

An Experienced Team



Lucas Marchesini

CEO-CTO

25+ years experience in aircraft design, flight mechanics and simulation in Pilatus, Calidus and others; motorsport in F1, Indy and Moto GP; management in high tech sectors for several SMEs. Co-founder in several startups.



Juanjo Espinosa

Chief Design Officer

30+ years supplying engineering & design services to automotive OEMs like Lamborghini, Volkswagen, Audi, Skoda, Aston Martin, Porsche, Ford, AMG-Mercedes, Citroën, and motorsport collaborations for FIA GT1, GT3, and ACO Le Mans.



Ashley Appleton

Head of Structures & Manufacturing

35+ year as head of composites and manufacturing at Boeing, Airbus, Bombardier, Embraer, Mahindra, Gulfstream.



Fabio Nannoni

Advisor CTO

Former senior vice president of engineering at Leonardo. Multi-award-winning expert in vertical lift and covert-planes Father of most of the modern Agusta helicopters: A109 Power, A129, the new "AW Family" with the AW139, AW169 AW189, the tilt-rotor AW609 Key contributor to the EH/AW101 and NH90, and the ERICA advanced configuration.



Michael Mesaric

Head of Marketing & Sales

15+ years experience in marketing, marketing communications, branding, brand consultancy & advertising for world leading agencies like FCB Global, BlueBarracuda & Horizon Group UAE, GGK Mullenlowe, McCann and VMLY&R.



Giuseppe Orsi

Advisor to the Board

Top world aerospace manager. CEO of Agusta-Westland (2004) CEO and Chairman of Finmeccanica (now Leonardo) (2011)



Alberto Recchi

Strategic Finance

20+ years in finance (Wall Street and London) 12 years at Credit Suisse advising US and European PE funds Expert in LBOs, recapitalizations, equity offerings, M&A Managing Director of a boutique merchant bank based in the US Co-founder of Galileo SPAC (now in NYSE)



Strategic Partnerships, Suppliers, Contacts



Engineering



Systems



Manufacturing



Authorities



Unique Capabilities



- ⚡ Long Endurance & Range
- ⚡ High Cruising Speed
- ⚡ Very Limited Ground Infrastructure Needs
- ⚡ Affordable Operating Cost
- ⚡ Versatile commercialization platform
- ⚡ Easy to deploy
- ⚡ Low Noise Emissions
- ⚡ Enhanced Safety Systems
- ⚡ Environmentally Friendly



RANGE: 300 – 800 km



CRUISING SPEED: 250-300 km/h



PASSENGERS: 0-6

Very low Infrastructure Requirements allow Point-to-Point Travels (take-off and land in your garden)



- ⚡ No Need For Electric Recharge Infrastructure on Ground
- ⚡ In-flight Batteries Recharge
- ⚡ No High Cost of Battery Replacement
- ⚡ Short Ground Time and High Dispatch Readiness



Hybrid-electric for a Greener Aviation



- ⚡ Capable of battery-only mode for zero-emissions flight
- ⚡ Use of Bio Fuels: Bio-Diesel, Bio-Jet A1 or any other Synthetic Green Fuel
- ⚡ Full Electric Propulsion
- ⚡ Modular Design: ready to evolve to Hydrogen or Full Electric (Batteries)



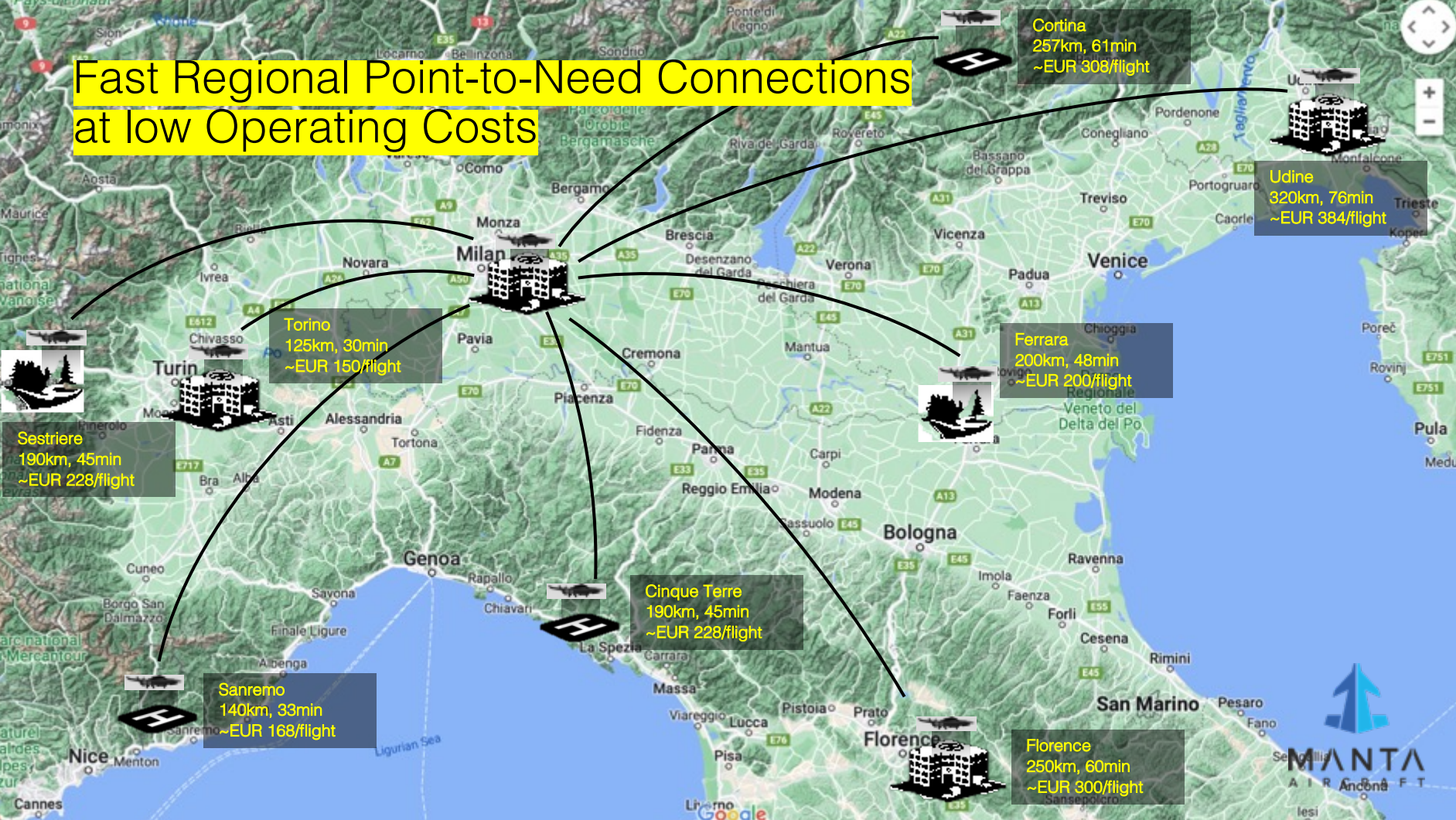
Evolution: The Multi-seater Model ANNTMPlus (concept)



- ⬆ Seats: 4-6
- ⬆ Empty Weight: 1.100 kg
- ⬆ MTOW for VTOL: 1.600 kg
- ⬆ MTOW for STOL: 2.200 kg

- ⬆ Cruising Speed: 250-300 km/h
- ⬆ VTOL Standard Range: 300 km
- ⬆ STOL Range: 800+ km

Fast Regional Point-to-Need Connections at low Operating Costs



The Widest Range of Applications in the AAM sector



- ↑ Cargo Delivery
- ↑ Law Enforcement
- ↑ Disaster Control
- ↑ Infrastructure Surveillance
- ↑ Survey & Imaging
- ↑ Special Transportation
- ↑ First Aid Response



Not a Dream, but Reality

Timeline to Achieve Entry Into Sales



2020 - 2021

- ⬆ Market Analysis
- ⬆ Initial concept
- ⬆ Initial market studies
- ⬆ Preliminary Design ANN2
- ⬆ **Production 1:3 Scale Prototype**
- ⬆ First flight tests (take off, hovering)
- ⬆ Organization Structure Set up
- ⬆ Key-Team Set up
- ⬆ Advanced Wind Tunnel tests
- ⬆ **Set up Digital Twin (Simulator)**
- ⬆ **Design Freeze ANN2**
- ⬆ **Office Opening in ITA and USA**

2022

- ⬆ Detailed Design ANN2
- ⬆ **Production enhanced 1:3 Scale Prototype**
- ⬆ Certification – Start preparations
- ⬆ Enhanced Team Set Up
- ⬆ Create Flight Test capabilities
- ⬆ Start Manufacturing of two Full-scale flying Prototypes
- ⬆ Preliminary Design ANN4
- ⬆ **Design Freeze ANN Plus**

2023

- ⬆ **Assembly of two Full-scale flying Prototypes**
- ⬆ Flight Test campaigns
- ⬆ Certification start (ANN2)
- ⬆ Serial Manufacturing Set Up ANN2
- ⬆ Detailed Design ANN Plus

2024

- ⬆ Sales Pre-Series ANN2 (experimental)
- ⬆ **Certification Start ANN Plus**

- ⬆ **ANN2 certification → end 2025**