

UAM PLAZZA ACCELERATOR

PROGRAMME'S 2024 EDITION



Co-funded by the
European Union



UNLEASH THE POTENTIAL OF URBAN AIR MOBILITY

The Urban Air Mobility Plaza Accelerator programme is one of the Market Readiness Accelerators co-funded by the EIT Urban Mobility. We aim to help startups in the field of Advanced Air Mobility find and reassure their product-market fit, showcase their solutions and bring them to market.

The UAM Plaza Accelerator programme is supporting 6 startups from across Europe and EU-associated countries which are developing advanced air mobility solutions mainly focused on the transport of medical goods, surveillance, security and safety, and ground enabling infrastructures.

Expert coaches are guiding selected startups through the design of their business plan, product development, investment and go-to-market strategies. Additionally, the accelerator programme is offering startups networking opportunities with experts, access to living labs to test and validate their products, investment opportunities, and privileged access to the European UAM ecosystem.

The programme is organised by the international consortium composed of Toulouse Métropole –home of a pioneering aeronautics innovation ecosystem–, Aerospace Valley –the leading European competitiveness cluster in the aerospace sector–, and CARNET –an open hub for automotive and mobility research & innovation partners–.

Click on each logo to learn about each partner



EIT Urban Mobility

EIT Urban Mobility is an initiative of the European Institute of Innovation and Technology (EIT), a body of the European Union. As such, it aligns with EU-level, national, and local government transport and mobility plans and strategies and is committed to making a positive impact on citizens' quality of life and the environment.

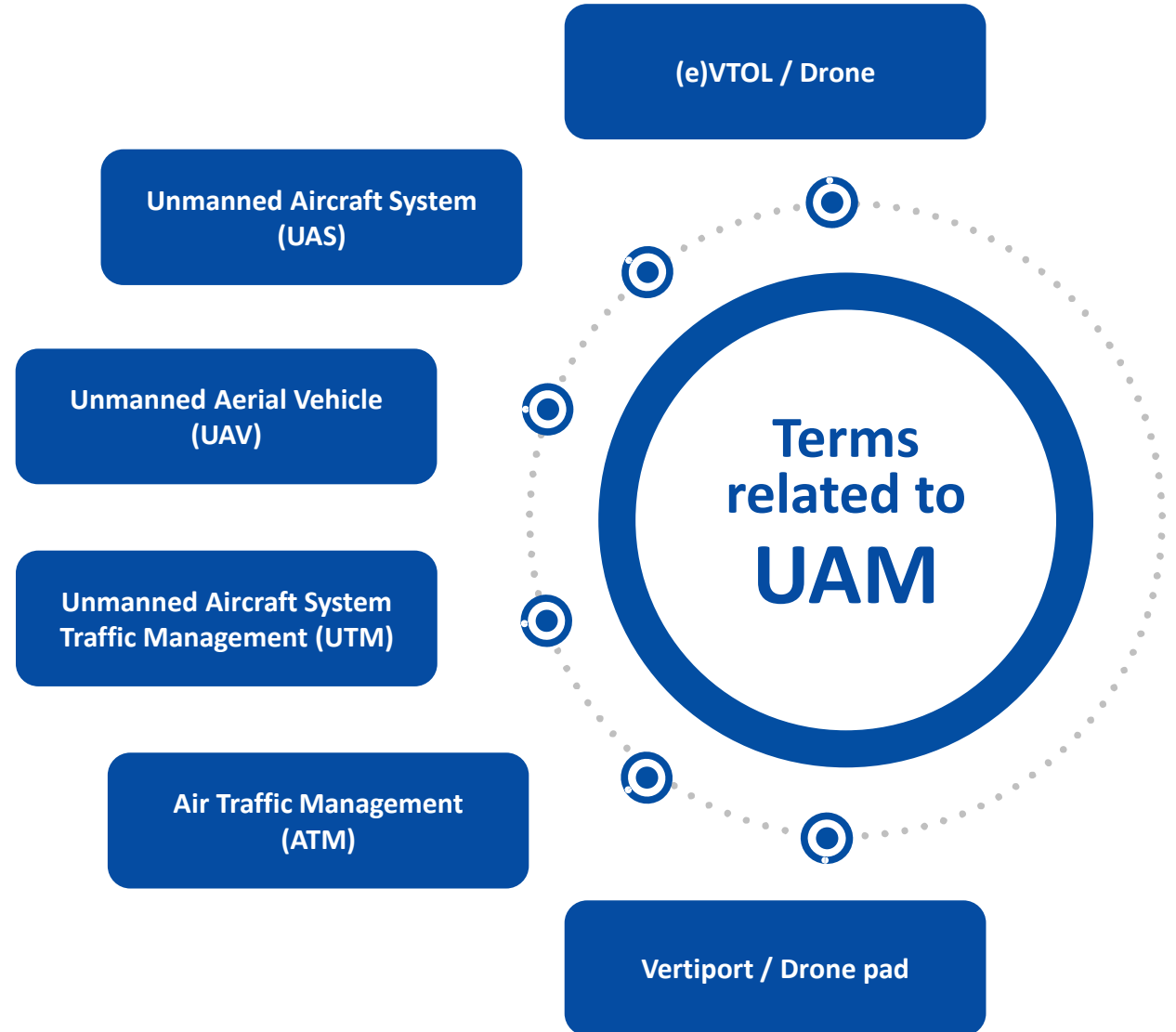


WHAT IS URBAN AIR MOBILITY?

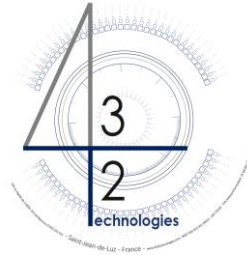
Urban Air Mobility (UAM) or **Advanced Air Mobility (AAM)** or **Innovative Air Mobility (IAM)** is the use of small, highly automated aircraft to carry passengers or cargo at lower altitudes in urban and suburban areas. The transportation is performed by electric aircraft taking off and landing vertically, remotely piloted or with a pilot on board.

UAM is a new safe, secure and more sustainable air transportation system for passengers and cargo in urban environments, enabled by new technologies and integrated into multimodal transportation systems.¹

¹ Source: EASA.



UAM PLAZZA 2024 PARTICIPANTS



AERIX SYSTEMS



FIRST AIRBORNE

 **SKYPUZZLER**[®]
ADVANCED AIR MOBILITY



Maple Aviation

[Click on each logo to learn about the startup](#)



432 TECHNOLOGIES

*Master your vertical
take-off and landings*

www.432technologies.com

Mission

Our product displays to all operators the operational limits in its manoeuvre considering atmospheric conditions, wind and aircraft's performances. - Pilots can assess airborne their manoeuvre margins - Operator, spot managers or pilots at rest can foresee and plan all the eligible trajectories. This awarded product uses environmental sensors, performance prediction and trajectory algorithms and low bitrate communication protocol.

Technology Field

Security and safety, Drones, EVTOL, Ground enabling infrastructure.

Business Model

B2B

Problem solved

Our solution helps to plan and operate VTOL aircraft during take-off and landing. It enables optimised VTOL operations in urban areas with a controlled level of flight safety and possible large-scale deployment.


Market

Helicopter & new VTOL mobilities markets through 2 segments : maritime industry & ashore mobilities including the UAM sub-segment.

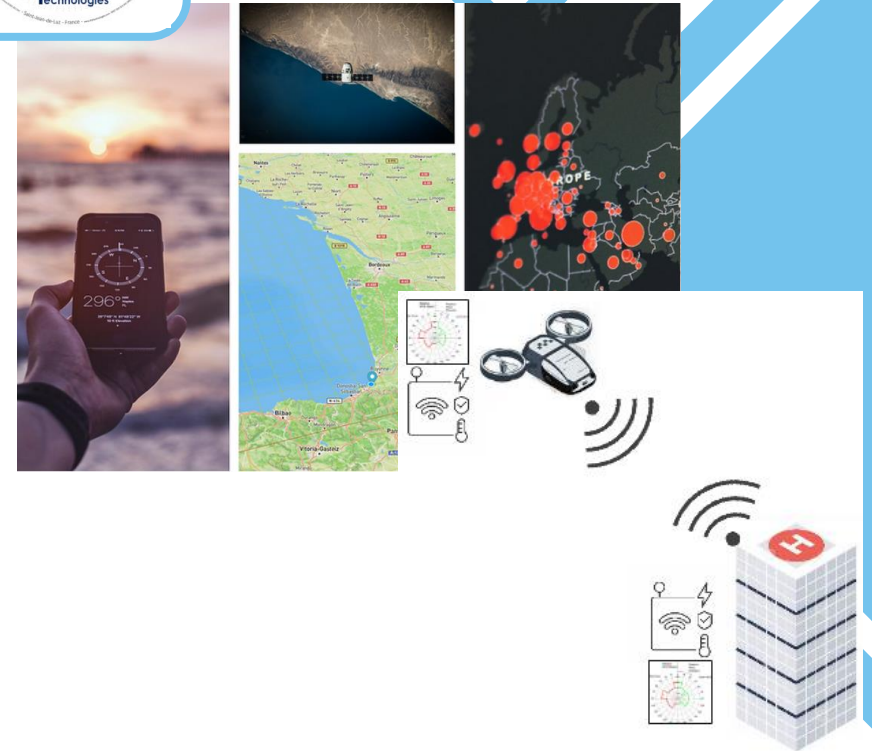
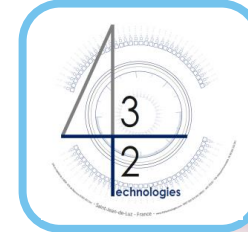
Looking for

Pilots with industry, Pilots with cities, Connection with EIT partners, Mentorship, European promotion.

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Aerix Systems

aerix-systems.com

*Fast, hypermaneuverable electric
drones UAV based on omnidirectional
propulsion technology*

Mission

Aerix Systems develops agile electric drones with proprietary omnidirectional propulsion, ready for integration. Our drones excel in complex urban inspections, safety interventions, and all-weather operations, offering unmatched precision, speed, and versatility for critical industrial and public safety applications.

Technology Field

Security and safety, Drones.

Business Model

B2B2G

Problem solved

Aerix Systems addresses the limitations of traditional UAVs in maneuverability, speed, and versatility. Our drones' omnidirectional propulsion allows for complex inspections, rapid response in safety scenarios, and reliable performance in adverse weather conditions.

Market

Aerix Systems Market is based on the value chain of drone maker or system designer destined for industrial inspection or security domain. We used to work with them by offering new aerial capabilities to their end users through their existing market channel or expertise.

Looking for

Funding, Pilots with industry, Pilots with cities, European promotion, Connection with EIT partners, Mentorship.

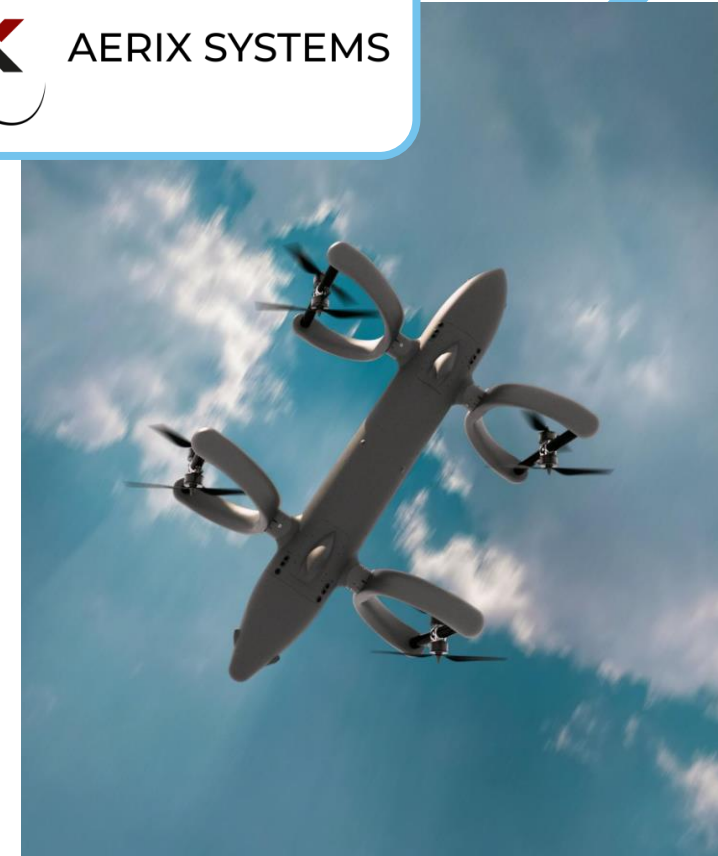
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AERIX SYSTEMS



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Mission

Avy develops autonomous drone networks to support emergency services during incidents and disasters.

Technology Field

Transport of medical goods, Security and safety, Surveillance, Drones, EVTOL, Charging infrastructure.

Business Model

B2G

Problem solved

Our aircraft create a fast and easy way to gain a better situational awareness of any incident. That could save people and assets.

Market

Emergency services.

Looking for

Pilots with industry, Pilots with cities, European promotion, Connection with EIT partners.



First Airborne

firstairborne.com

*Wind turbine performance
testing at scale*

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Mission

First Airborne transforms logistically intensive services rendered in the wind power industry into automated robotics-based services. Front and centre is the proprietary, validated, drone-based Windborne sensor, which provides wind turbine performance testing at exceptional scale and accuracy. The Windborne is as accurate as the very best measurement instruments in the industry, verified by Deutsche WindGuard – but with a unique advantage: it can fly.

Technology Field

Drones, UTM, Performance Testing of Wind Turbines.

Business Model

B2B

Problem solved

Operators worldwide have focused on avoiding major turbine faults, with reducing downtime as the main KPI. Performance optimization is relatively new, and few have addressed it. High costs and poor ROI of legacy Lidar tech have discouraged investment.

Market

The wind energy industry, with +900 GW capacity and 15% annual growth, generates \$140 billion annually. Despite \$3 billion in losses from WTG inefficiency, the sector is committed to improvement, with expected expenses of \$435 million, potentially reaching \$1 billion by 2030.

Looking for

Funding, Pilots with industry, European promotion, Connection with EIT partners, Mentorship.

FIRST AIRBORNE




Maple Aviation

maple-aviation.com

Transporting laboratory samples with drones

Contact Information

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Maple Aviation

Mission

We deliver medical products directly to the window of the healthcare facilities, by using onboard AI for a fully autonomous operation. We are already operating today as we don't need U-Space regulation. Thanks to our fully contained drone architecture, we can reliably transport up to 10kg / 125l cargo in a range of 100 km.

Technology Field

Transport of medical goods, Drones, EVTOL.

Business Model

B2B

Problem solved

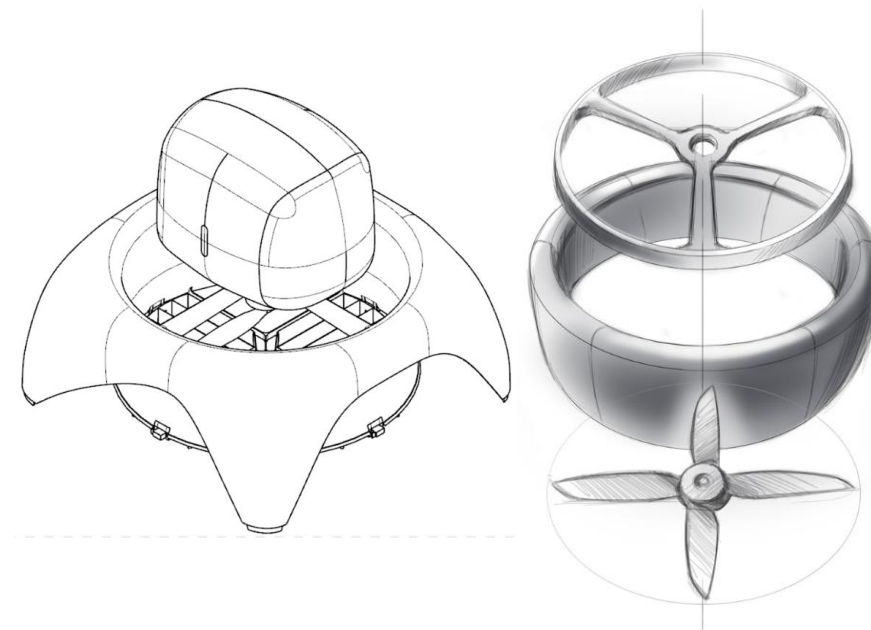
Traditional car transport requires one driver per car with risks such as traffic, illness etc., whereas our autonomous drones require one pilot per 50 drones. This allows us to operate at 8% of the cost of traditional car transport. With our high-speed delivery within 10 min, we reduce patient risk and save patient life by shortening surgery times by hours.

Market

The European medical supply delivery market is valued at €15 billion, with €8 billion covered by drug and lab specimen deliveries. In the future, drones are expected to cover around €600 million of this market, and Maple Aviation aims to capture €168 million of that by 2029.

Looking for

Funding, Pilots with industry, Pilots with cities, European promotion, Connection with EIT partners.



Skypuzzler

Skypuzzler.com

*Ensuring flight safety,
enabling drones to fly safely
from point to point.*

Mission

Skypuzzler's integrated Digital Air Traffic Control (iDATC) is an add-on module to UTM systems, providing tactical deconfliction in real-time and with a holistic traffic view to foresee and mitigate potential conflicts from a tactical perspective enabling drones to fly Beyond Visual Line of Sight (BVLOS) safely from point to point.

Technology Field

UTM

Business Model

B2B

Problem solved

Skypuzzler's product, iDACT, solves several pain points and problems by ensuring flight safety, making BVLOS operations possible, not requiring equipment to be installed on drones and optimizing sustainability.

Market

Our target market primarily comprises UTM providers, U-Space Service Providers (USSPs) with their own UTM and large drone operators with fleet management systems. We operate globally and see an increase in customers as the market matures.

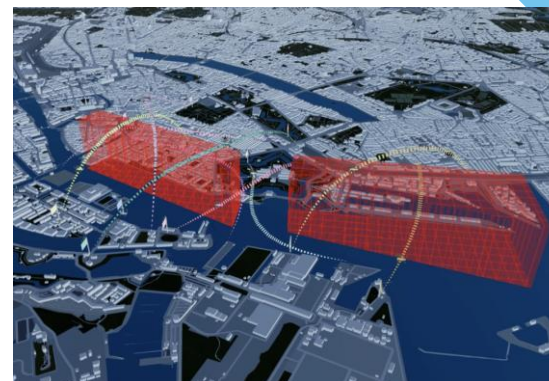
Looking for

Funding, Pilots with industry, Pilots with cities, European promotion, Connection with EIT partners.

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PAST EDITIONS' PARTICIPANTS



2023



2022



Click on each logo to learn about the startup

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 [@UAM Piazza Accelerator](#)

eiturbanmobility.eu/impact-ventures/accelerator/urban-air-mobility/

