

OVERVIEW.

Advanced Air Mobility (AAM)



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Urban Air Mobility (UAM)

Regional Air Mobility (RAM)





Public services

ELEMENTS.



Infrastructure

- Vertiport location
- · Communication, navigation, surveillance (CNS) infrastructure



Aircraft

- eVTOL aircraft and drones
- Unmanned and manned operation



Airspace

- Air Traffic Management (ATM)
- Unmanned Traffic Management (UTM)

DFS Aviation Services



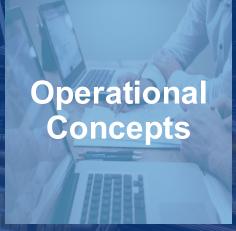


PORTFOLIO.









DETAILS.

Urban Air Mobility

Urban Air Mobility, a **megatrend** shaping tomorrow's air traffic, involves electric aircraft operating in urban environments. As UAM concepts proliferate globally, collaboration with the corresponding ANSP becomes crucial. ANSPs facilitate seamless integration of air taxi and drone projects into existing airspace structures, ensuring safe and efficient operations. For stakeholders less familiar with ATC topics, our expertise is available to support your UAM project.

Integration in controlled and uncontrolled airspace

Urban Air Mobility faces the challenge of integrating air taxis and drones into existing airspace structures. As air taxis become available in large urban areas, their unique selling point lies in connecting these regions. However, complex airspace structures - due to existing infrastructure like major airports - require careful integration. Consulting with a capable ANSP is essential. ANSP expertise ensures safe operations near runways, taxiways, and aprons. By collaborating with ANSPs, efficient flight paths and procedures can be developed, enabling airport shuttle operations to connect major airports with urban areas, revolutionizing travel time.



PROJECTS.

- Unmanned flight between the airports of Mönchengladbach (MGL) and Paderborn (PAD)
- Stopover at a vertiport in **Dortmund**
- UAS used as Small-Scale-**Demonstrator**



Development of the operational concept In cooperation with DRONIQ

Realization of demonstration flights between MGL and PAD

2024 2023

2025

Analysis of the airspace and evaluation of an urban landing site in Dortmund

Installation of **UTM** terminals and training of air traffic controllers

Validation of flight procedures and operational concept

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PROCESS.

Technology Deployment

Installation of **Unmanned Traffic** Management (UTM) systems in the respective Towers.

Seamless Integration

Conduction of risk assessment, safety analyses and design of flight procedures.

Flight Demonstration

Test of the operational concept with a UAS



Development of the concept for simultaneous flight operations of manned and unmanned air traffic, definition of flight procedures, operational ATC controller training.

Identification of threats and possible implications, development of safety measures to mitigate risks.

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EXPERTISE.

















and many more The first coffee - the start of a strong partnership.

Technology drives us.

A network for success – strong partnerships in aviation.

We act today for the aviation of tomorrow.





AHEAD.

DFS GROUP EXPERIENCE

INTER-DISCIPLINARY EXPERTS

ANSP & ATCO PERSPECTIVE

INDEPENDENT FROM SUPPLIERS

TURNKEY SOLUTIONS

KNOWING PARTNER-SHIPS At DAS, we offer more than "just" consulting services! We guide you through the whole project implementation process starting from strategy development to the later post implementation support. Through close collaboration, we can take on challenges based on your desired level of involvement whether this is a turnkey solution or advisory services.





"We support the customer from early strategy inception until implementation and later operations. As certified ANSP with experience in AAM we can assist in projects as an advisor for experienced guidance or take over the role as fullservice provider including the technical infrastructure realisation. "

