

FACT SHEET – BUSINESS OPPORTUNITIES IN THE HAMBURG REGION

Aircraft and Aircraft Systems in Hamburg



Hamburg is fundamentally involved in the development and **production of all civilian Airbus programmes**. Competencies are concentrated on the areas of fuselage structural development and assembly, system integration and installation, overall aircraft integration for final assembly, including paintwork, and cabins. Important materials for manufacturing here are aluminum, titanium, and carbon fiber composites.

Alongside cabin systems, the industrial and research segments are focusing on air conditioning as part of an integrated energy and heat management system for the aircraft. **Alternative air conditioning systems** (electric and hybrid), for example, are a subject of research. Questions of integration in the aircraft as a whole are of primary significance here. Beyond this, innovative energy supply systems, such as **fuel cell technology**, are being investigated as means of improving the energy efficiency of future aircraft.

As one of the world's largest production sites for aircraft, Hamburg is also engaged in enhancing its assembly competencies. The target is to improve performance and efficiency in production. Great importance is given to questions of **flexible automation and human-machine interaction**. Technological enablers include robotics, sensors, big data, artificial intelligence and simulation.

The region is currently developing other areas of competency in the fields of **digital design and the links to digital production** to smooth the path to a "digital aircraft".

Other areas of research, such as **cybersecurity, autonomous systems and urban airborne mobility** are also derived from the opportunities and consequences of progressive digitalisation.

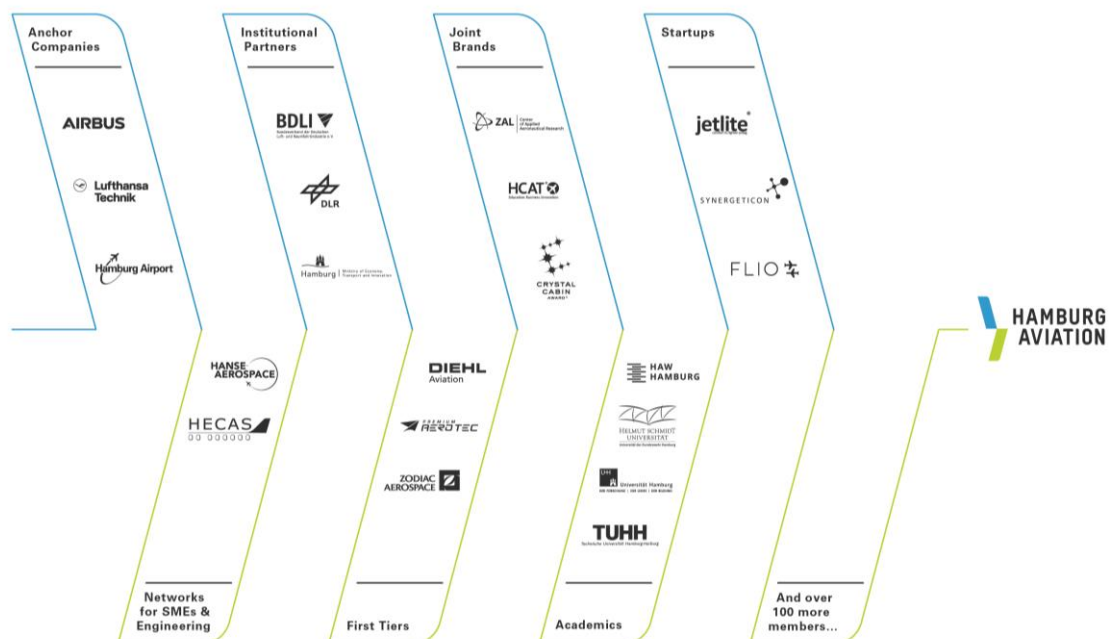
Companies and Institutions related to aircraft systems already:

- AES Aircraft Elektro / Elektronik System
- Airbus
- Alten Technology
- Altran
- Diehl Comfort Modules
- DLR Institute for System-Architecture
- HAW Hamburg
- Hutchinson Aerospace
- Jenoptik
- Lufthansa Technik
- Prettl Electronics Lübeck
- TUHH Institute for aircraft systems
- ZAL GmbH



HAMBURG: HOME OF AVIATION AND YOUR PLACE FOR BUSINESS

- The 8th-largest city in the Europe, with a population of 1.8 million (5 million in the metro region)
- The place with the **highest GDP per capita of all German states** (53,611 EUR) and the fourth-highest GDP per capita in Europe
- **Among the world's 10 most livable cities**, according to The Economist
- The global capital of wind power, the world leader in research with free-electron lasers, a renowned center for life science, the leading seaport in Northern Europe, and a powerful startup hub – **all connected in a tight network of 9 cluster initiatives**
- The **third-largest civil aviation site in the world** with **more than 40,000 highly-qualified employees** and way over 100 years of tradition
- An **internationally awarded network** forming a powerful alliance of Hamburg based business, science, education and politics: **Hamburg Aviation**.



Contact

Dr. Franz Josef Kirschfink
Managing Director
Hamburg Aviation e.V.
Phone: +49 40 2270 1953
franzjosef.kirschfink@hamburg-aviation.com