# Airbus in Germany

AIRBUS

# AIRBUS – A SUCCESS STORY

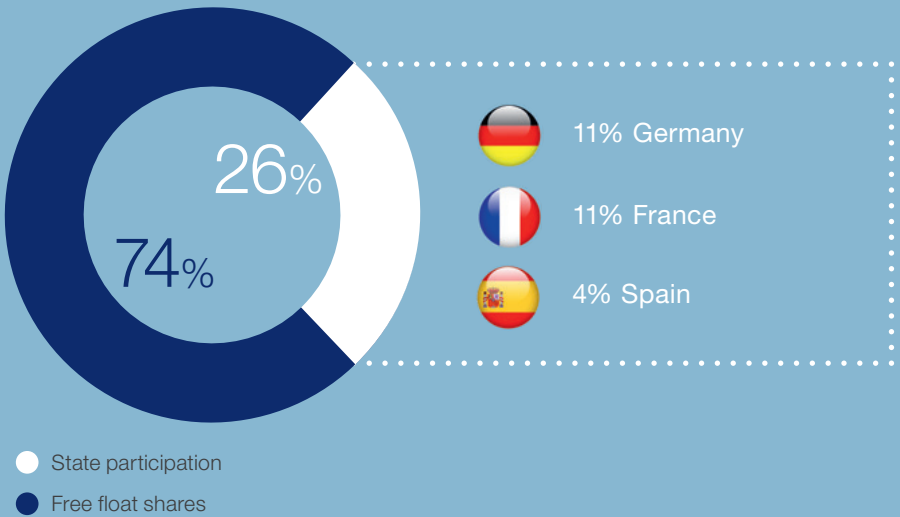
**Airbus – formerly EADS – was formed in 2000 from the merger of German DaimlerChrysler Aerospace, French Aérospatiale Matra and Spanish CASA. Today, the Group is the best example of European integration in the field of high technology.**

**180**
SITES

EMPLOYEES
**126,000**

**€ 52.1**
**BILLION**
REVENUES 2021

## SHAREHOLDER STRUCTURE

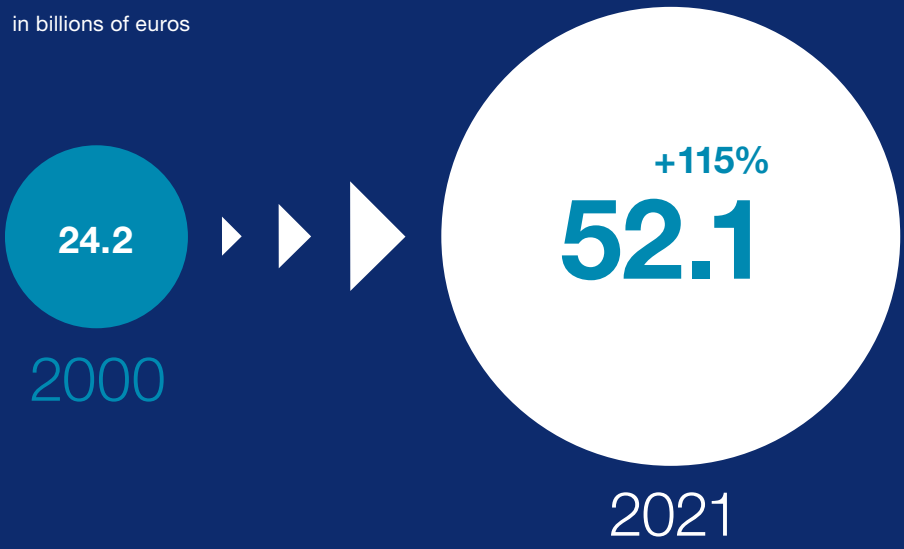


Airbus is a global leader in aeronautics, space and related services. The Group employs a workforce over 126,000 people in nearly 180 locations around the world. Airbus offers the most comprehensive range of airliners, from 100 to more than 400 seats. Airbus is also a European leader providing tanker, combat, transportation and mission aircraft, as well as Europe's number one space enterprise and one of the world's largest space businesses. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions worldwide.

In 2021, Airbus generated revenues of € 52.1 billion. Thus, the Group has more than doubled its business volume since its formation in 2000. Orders totalling over € 1,800 billion since 2000 saw the Group's order backlog increase to € 398 billion by the end of 2021.

## INCREASE IN REVENUE

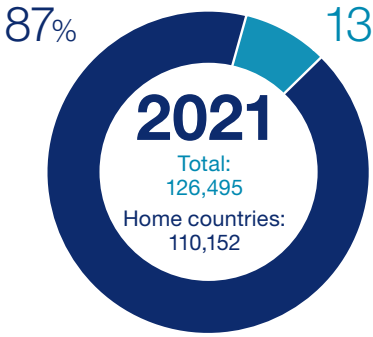
in billions of euros



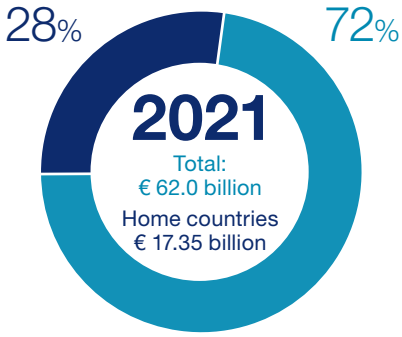
# WORLDWIDE GROWTH THANKS TO EUROPEAN BEST PERFORMANCE

Since the Group's formation, the number of employees has increased by 52%. In the home countries of Germany, France, Great Britain and Spain alone, the number of employees has increased by almost 48,000 since the formation of Airbus (EADS) in 2000.

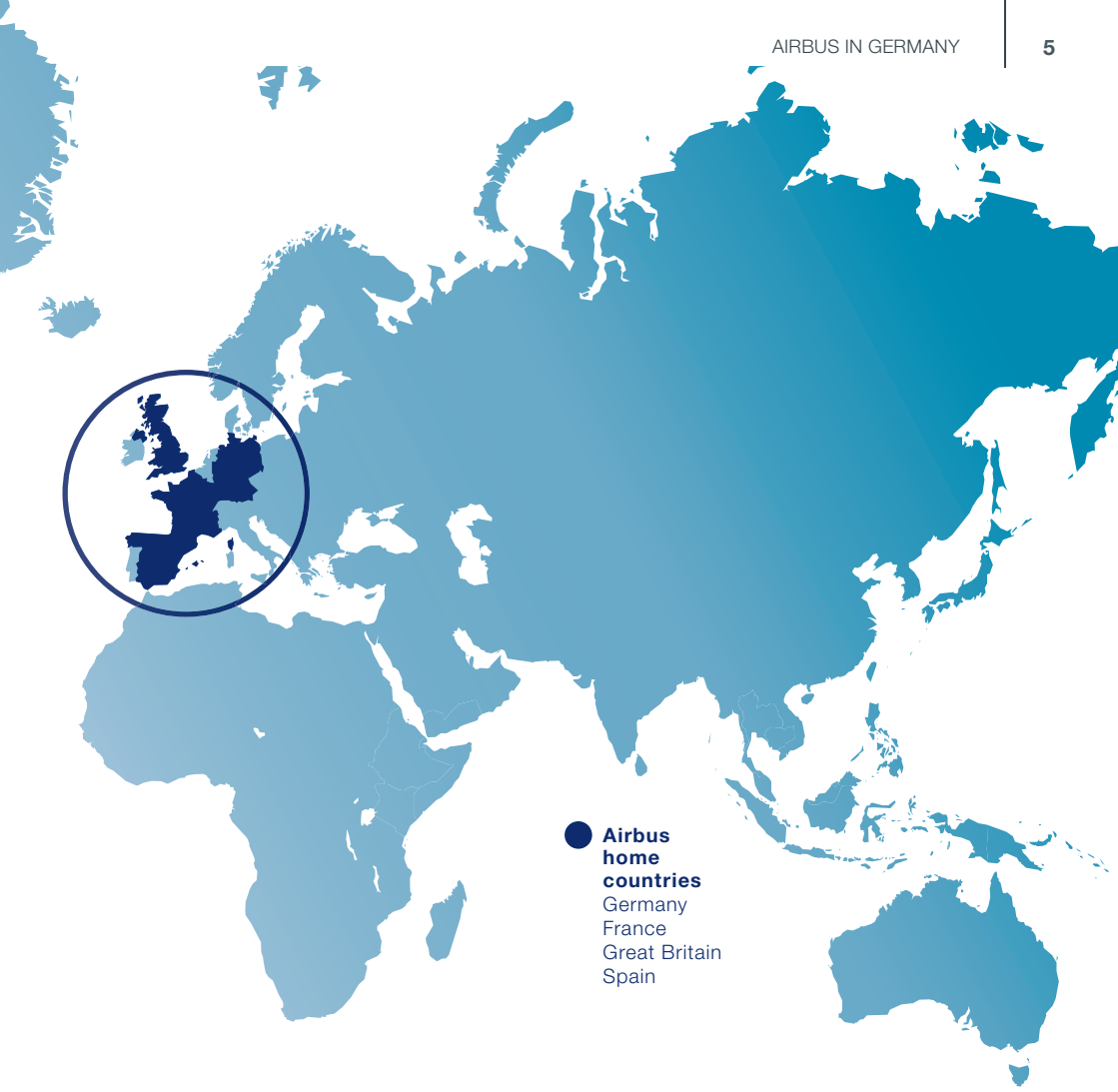
Today, the bulk of the order volume comes from markets outside Europe. In 2021, Airbus' home markets accounted for around 28% of new orders. The Group faces a trend of increasing internationalisation with a growing global presence. Examples include the final assembly lines in Tianjin (China) and in Mobile, Alabama (USA), as well as the Airbus China Innovation Centre (ACIC), which opened in 2019 in the southern Chinese city of Shenzhen, widely considered to be the Silicon Valley of China.

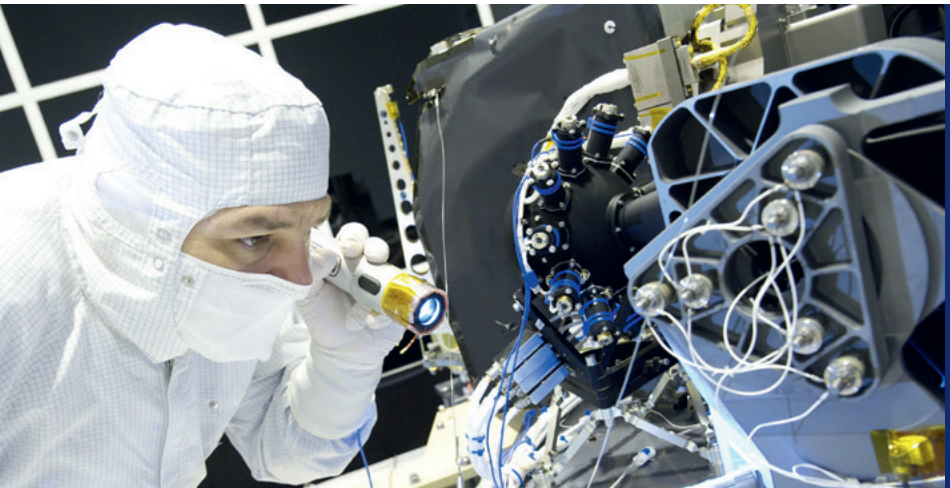



EMPLOYEES




INCOMING ORDERS


**Airbus home countries**
Germany
France
Great Britain
Spain



# STRONG ROOTS IN GERMANY

**Airbus is one of the most innovative and successful companies in the aerospace and defence industry. Airbus' strong German roots provide significant impetus for growth and the ability to competitiveness – for the Group as well as for Germany as an industrial location. Airbus is represented at numerous sites throughout Germany.**

## AIRBUS AS AN EMPLOYER

Airbus employed about 46,000 people at numerous German sites in 2021, which represents about half of all employees in the German aerospace industry. Since its formation in 2000, the number of employees in Germany has risen by more than 10,000 – a trend that is continuing. In Germany, almost 400 early career positions were filled in 2021 – internships, work placement positions and final theses. In 2021, 630 new apprentices and dual students were also recruited. In total, almost 2,600 apprentices and dual students are employed at 15 sites.

## AIRBUS AS A POWERHOUSE FOR THE ECONOMY

In 2021, Airbus generated revenues of around € 4.7 billion in Germany. The Group worked together with almost 7,500 external suppliers in Germany and bought goods and services worth nearly € 7 billion in 2021.

## AIRBUS AS A PIONEER OF INNOVATION

With cumulative self-financed research and development investments exceeding € 45 billion since 2000, the company has expanded its portfolio of patents to more than 32,000. Additionally in 2021, Airbus invested € 2.8 billion in research and development. The focus is on environmentally friendly technologies such as alternative drive systems, lightweight construction and 3D printing. Another multiplier for innovative ideas is cooperation with partners from research and SMEs (for example, the Centre for Applied Aeronautical Research (ZAL) in Hamburg, the CFK Valley Stade and the Ludwig Bölkow Campus in Ottobrunn near Munich).

## RESEARCH AND DEVELOPMENT INVESTMENTS

# AIRBUS PRODUCTION SITES IN GERMANY

## COMMERCIAL AIRCRAFT

The world's leading aircraft manufacturer employs almost one-third of the entire German workforce in the civil aeronautics industry.

Employees:
- approx. 26,200

Main sites:
- Hamburg
- Bremen
- Stade
- Buxtehude

Produkte und Services:
- Airbus in Germany plays a central role in the development and production of all Airbus aircraft. Hamburg is the world's third largest civil aviation site. The product family covers the entire capacity range from 100 to over 400 seats – starting with the efficient short- and medium-haul aircraft of the A320 Family up to the A350, the most modern and efficient long-haul aircraft in the world.
- Spare parts management and services

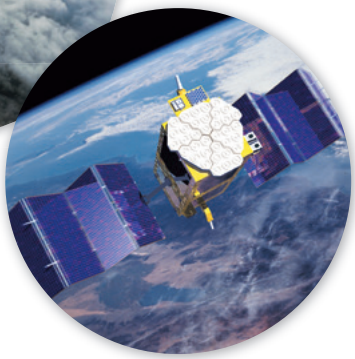
## HELICOPTERS

Manufacturer of the world's largest portfolio of civil and military helicopters, with a global market share of 48% in the civil and parapublic market. Approximately 12,000 Airbus helicopters are in operation in approximately 150 countries.

Employees:
- approx. 6,700

Main sites:
- Donauwörth
- Kassel

Products and Services:
- Development, production and marketing of civil and military helicopters
- Comprehensive maintenance and training offers
- Manufacturing of aircraft components



## DEFENCE AND SPACE

The European leader in the defence and space industry. With annual revenues of over € 10 billion in 2021, this company is a global leader in the space sector.

Employees:
- approx. 12,600

Main sites:
- Backnang
- Bremen
- Friedrichshafen
- Jena
- Lampoldshausen
- Manching
- Ottobrunn
- Potsdam
- Schrobenhausen
- Trauen
- Ulm

Products and Services:
- Eurofighter
- Unmanned aerial systems (drones)
- Maintenance, repair and upgrades of military aircraft
- Guided missiles
- Cyber Security
- Sensors and electronic systems
- Integrated security solutions
- Naval electronics
- Military transport, tanker and mission aircraft
- Ariane launcher
- Satellites (environment, weather, security, telecommunications, navigation, science) and related services
- Manned space travel and exploration

# URBAN AIR MOBILITY

In 2030, 60% of all people will live in cities. Half a dozen new megacities will emerge by then, and old metropolises will continue to grow. Urban planners are faced with the task of enabling mobility in these giant cities in the future. Airbus is working on innovative concepts to revolutionise local transport. The goal is to simply fly over traffic jams. The goal is to efficiently complement existing forms of mobility. This should make it possible to reach the destination quickly and reliably, even over traffic jams. Pioneering ideas are being developed in Airbus innovation centres around the globe. In order to drive the topic forward quickly, Airbus has set up the "Urban Air Mobility" division in its corporate research department and established a dedicated corporate unit, Airbus Urban Mobility GmbH. Among other things, the technological prerequisites for unmanned aerial systems are researched there and mobility solutions of the future are developed.

*CityAirbus NextGen*

In September 2021, Airbus unveiled the new CityAirbus NextGen prototype, which will be brought to market in the coming years. The concept is based on the experience gained with the Vahana and CityAirbus demonstrators. The CityAirbus NextGen is equipped with rigid wings, a V-shaped tail and eight electrically powered propellers as part of its distributed propulsion system. It is designed to carry up to four passengers in a zero-emission flight in various applications. The CityAirbus NextGen is being developed with a range of 80 km and a cruising speed of 120 km/h, making it suitable for use in major cities for a variety of tasks. The vehicle is optimised for efficient hover and cruise flight, with no moving surfaces or tipping parts during the transition of flight phases. With partnerships such as the Air Mobility Initiative (AMI), Airbus is developing the necessary infrastructure on the ground and in the air.

Airbus attaches as much importance to the integration of urban air transport into the existing urban infrastructure as it does to the development of corresponding aircraft. That is why the company is working with numerous partners on technologies for the safe control of aircraft movements or synchronisation with other means of transport, but also on issues such as the social acceptance of this new service.

# ECO-EFFICIENCY THROUGH INNOVATION

Through the introduction of new technologies and operational improvements, the aviation industry has achieved the following goals over the past 50 years: increase fuel efficiency and reduce $CO_2$ emissions by more than 70%, reduce NOx emissions by 90% and reduce noise pollution by 75%. Airbus aims to bring the first $CO_2$ emission-free commercial aircraft to market by 2035 and is currently working on three design concepts to achieve this. The ZEROe concept aircraft will allow a variety of configurations and hydrogen technologies to be explored that will shape the development of future zero-emission aircraft. Around 2025, a decision will be made on one of these paths in preparation for an official programme launch towards the end of the decade. By 2050, aviation in Europe should then be climate-neutral overall. Hydrogen makes a decisive contribution to this. For this to succeed, the right course must be set today: technologically, logistically, politically. Therefore, in addition to demonstrator projects and test tracks for pilot projects, we now need to establish a hydrogen ecosystem. This must include not only the production ramp-up and transport, but also the hydrogen infrastructure at the airport, so that it is ensured that sufficient green hydrogen is available at competitive prices at the airports.

The first technology demonstrators are already being planned by Airbus, particularly in terms of changes to the overall architecture of the aircraft. The aviation fuel tank must be fundamentally rethought, as hydrogen requires four times more volume than conventional paraffin and must be cooled to around -250 degrees Celsius in its liquid state. Airbus can also draw on the experience of the rocket manufacturer Ariane in Bremen. The aircraft of the future will be fundamentally different from today's models.

Airbus Helicopters is continuously innovating to increase the eco-efficiency of its products and sites. Key targets include reducing fuel consumption, lowering noise levels and reducing $CO_2$ and NOx emissions through technologies such as diesel engines. A near-term goal is to certify all helicopters to fly on 100% sustainable aviation fuel (SAF), which will reduce $CO_2$ emissions by 80%. This should be possible in 2030.

The H160 is the first civil helicopter to be made entirely of composite materials. A technological breakthrough is the first serial use of BlueEdge rotor blades for the main rotor, which is up to 50% (3 dB) quieter than conventional rotors, depending on flight conditions.

Over the past 50 years, remote sensing via satellites has yielded both spectacular views of our planet and unprecedented scientific insight. Today, Earth-observation satellites are at the forefront of monitoring deforestation, rising sea levels and greenhouse gas emissions in the atmosphere. According to the United Nations, more than 50% of the essential climate variables are measured from Space. At Airbus, we not only build many of these satellites but transform geospatial data into actionable insight to help fight climate change.

More than 150 Earth-observation satellites are currently in orbit. Their mission is to provide scientists with the essential data needed to detect environmental changes on Earth. Because many climate variables can only be measured from space, Earth-observation satellites are a vital tool to monitor the effects of climate change on natural ecosystems.

At Airbus, we have been managing data from the European Space Agency (ESA)'s Earth-observation satellites since the early 1990s. We are involved in all major environment-monitoring satellite programmes in Europe and play a key role in all 12 of the Copernicus missions.

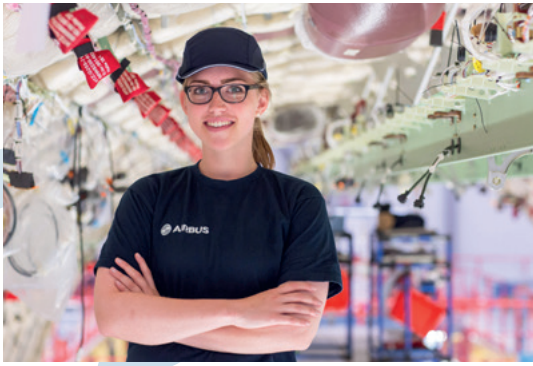
# TALENTS

At any one time, 20 of our satellites are involved in climate change monitoring and an additional 20 are in development. Our complete fleet of satellites measures at sea, on the ground and in Earth's atmosphere.

These examples underline Airbus' commitment to climate protection and eco-efficiency. However, the company is already going one step further and pursuing the ambitious goal of electric flying. Together with other industrial companies, Airbus is currently working on electric and hybrid engines with a capacity of up to four megawatts. The goal is to introduce predominantly electrically powered hybrid models for short- and medium-haul flights in the not too distant future.

Innovative working time models offer Airbus employees the opportunity to balance family and career. Among other things, the flexible value account "Care for Life" gives employees more flexibility to adapt to special life situations and to better reconcile family and career.

Time off is possible to take leave from work for a certain period of time or to take care of close relatives. Characteristic of both models is the pro-rata salary payment guaranteed by the company to ensure a continued financial basis.



Airbus offers a wide range of childcare options for parents. For example, their offspring are exposed to scientific topics at an early age in the Group's day care centres.

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# AIRBUS IN DIALOGUE

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