



Sector presentation Aerospace



▪ **Facts & figures**

- More than 550 companies in Bavaria in the aerospace sector.
- More than 60.000 qualified employees (including airlines & airports).
- More than 7 billion € in revenues annually.
- 8 universities and universities of applied sciences engaged in aerospace topics.
- Aerospace as one of the cross-sector high-technologies is a key industry in Bavaria
- Bavaria is one of just a few regions worldwide featuring the entire valueadded chain of the aerospace sector.

▪ Facts & figures

- Development and manufacturing of systems and subsystems in aviation, military and civil aircrafts, space systems, defence and security as well as top quality engineering services.
- Strong focus on application in Bavaria especially in the domain of satellite navigation.
- Aerospace sector shows generally an extremely high R&D percentage (17 % of the revenues in average) and a repectively high innovation activity.



„A sector of enormous strategical importantance“
(German Federal Ministry of Economics)

- According to the Federal Union of the German aerospace industry (BDLI) countrywide the sector tends to grow in terms of numbers of employees and revenues since 2002.

Aerospace location Bavaria

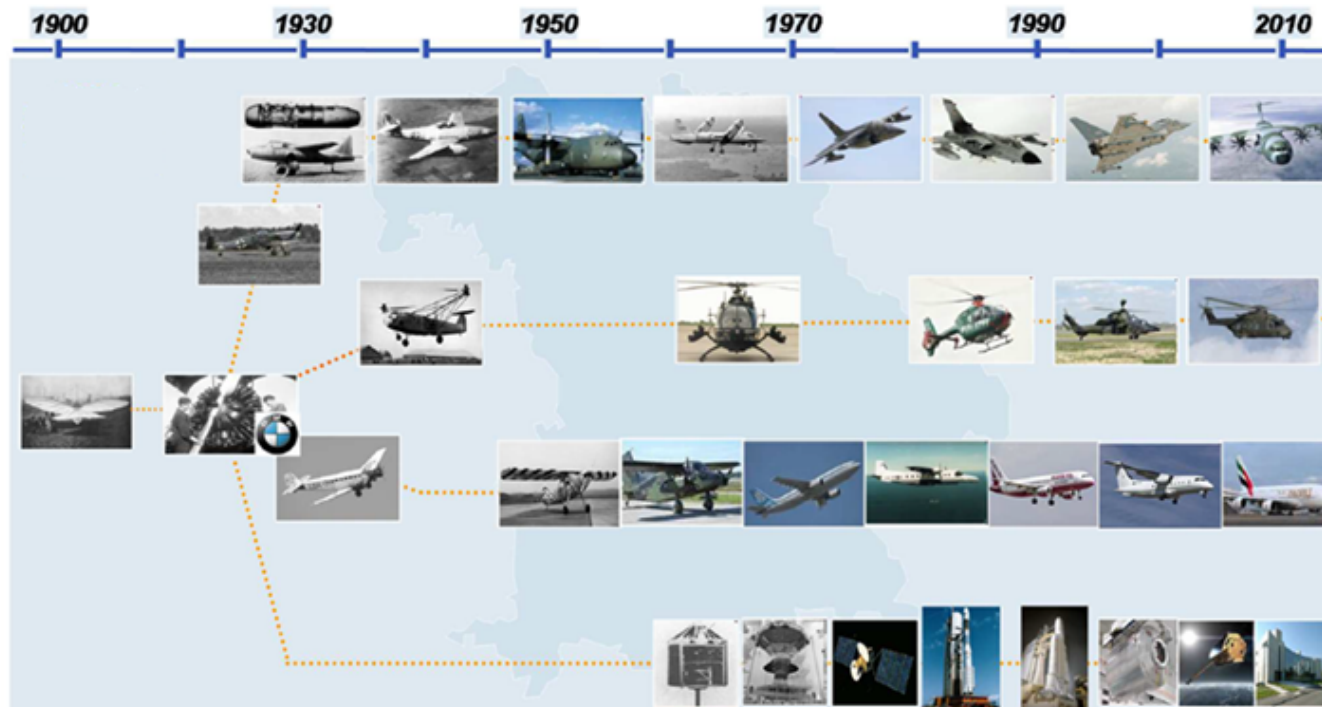
- **Image**

- Strong Industry ↔ Excellent Research ↔ Strong public grant programs



Hight potential of the aerospace location Bavaria

- Long aerospace tradition in Bavaria :



Aerospace location Bavaria

Particular Regional Aerospace competences in Bavaria



Important companies of the sector in Bavaria

Aeronautics		
Name	Comments	Homepage
Airbus Defence and Space GmbH	Development & Production of munitions and space systems, worldwide approx. 45.000 employees, HQ in Bavaria: Ottobrunn	www.airbusdefenceandospace.com
Airbus Helicopters GmbH	Development & Production of helicopters, worldwide approx. 16.000 employees, HQ in Bavaria: Donauwörth (approx. 5.000 employees)	www.airbushelicopters.com
Diehl Stiftung & Co. KG	Development & Production of products for the aerospace and defense sector , worldwide approx. 15.000 employees, HQ in Bavaria: Nürnberg	www.diehl.com
Liebherr Aerospace GmbH	Development & Production of aeronautoc equipment Liebherr Group worldwide approx. 38.000 employees, HQ in Bavaria: Lindenberg	www.liebherr.com
MTU Aero Engines Holding AG	Production and maintainance of power trains, Worldwide approx. 8.500 employees, HQ in Bavaria: Munich	www.mtu.de
Premium AEROTEC GmbH	Production of structures and manufacturing systems for the construction of airplanes, worldwide approx. 8.000 employees, HQ in Bavaria: Augsburg	www.premium-aerotec.com

Space		
Name	comments	Homepage
Airbus Defence and Space GmbH	Development & Production of space systems & munitions , worldwide approx. 45.000 employees, HQ in Bavaria: Ottobrunn	www.airbusdefenceandospace.com
IABG mbH	Provider of analytical and test services focussing aerospace, approx. 1.000 employees, HQ in Bavaria: Ottobrunn	www.iabg.de
MT Aerospace AG	Production of components in the fields of aerospace, construction of antennas, mechatronics, worldwide approx. 650 employees, HQ in Bavaria: Augsburg	www.mt-aerospace.de
Kayser Threde GmbH	Development and implementation of solutions for aerospace, approx. 300 employees, HQ in Bavaria: Munich	www.kayser-threde.de
Telespazio GmbH	Consulting-, Technologie- & Engineering-Services with focus aerospace, worldwide approx. 2.500 employees, HQ in Bavaria: Gilching	www.telespazio-vega.de
T-Systems International GmbH	Development of products and services in the field of satellite navigation, worldwide approx. 53.000 employees, HQ in Bavaria: Munich	www.t-systems.de

Important networks and institutes in Bavaria

Name	comments	Homepage
Application		
Anwendungszentrum Oberpfaffenhofen	Assistance in company foundations and commercial applications location: Gilching.	www.anwendungszentrum.de
Deutsches Raumflugkontrollzentrum (GSOC)	Central National Institute for leading space flight aviation missions. location: Oberpfaffenhofen.	www.dlr.de/rb
ESA BIC Bavaria	Business Incubation Centre of the European Space Office, ESA. location: Gilching, Nürnberg & Freilassing.	www.esa-bic.de
Galileo Kontrollzentrum (GCC)	Centerpiece of the European Satellite navigation project Galileo. location: Oberpfaffenhofen.	www.dlr.de/gfr/
Initiative Satellitennavigation Berchtesgadener Land	Regional Network with focus on satellite navigation. location: Freilassing.	www.satnav-bgl.eu

Important networks and institutes in Bavaria

Name	comments	Homepage
R&D		
Bauhaus Luftfahrt	Interdisciplinary Institute for Research in the field of aerospace. location: Munich.	www.bauhaus-luftfahrt.net
Deutsches Zentrum für Luft- und Raumfahrt (DLR)	R& D Center for Aerospace. location: Oberpfaffenhofen, Augsburg und Weilheim.	www.dlr.de
Europäische Südsternwarte (ESO)	European organisation for astronomical research. location: Garching.	www.eso.org
Fraunhofer Gesellschaft	Biggest organisation for applied research in Europe with headquarter in Munich and 25 other institutes in Bavaria.	www.fraunhofer.de
Ludwig Bölkow Campus Aerospace & Security	Research projects and study programs in the field of aerospace. location: Ottobrunn.	www.lb-campus.com
Max-Planck-Gesellschaft	Fundamental research in diverse scientific disciplines. 8 locations in Bavaria.	www.mpg.de

Name	comments	Homepage
Education		
Munich Aerospace	Association of the universities, research institutes and industrial companies based in Bavaria. location: Munich	www.munich-aerospace.de
Universitäten & Hochschulen	Numerous universities and universities of applied sciences related to aerospace, e.g. TU Munich, Universität der Bundeswehr Munich or Universität Würzburg.	www.stmwfk.Bavaria.de/hochschule/
Politics & Administration		
bavAIRia	Bavarian aerospace cluster. location: Gilching.	www.bavairia.net
Bavarian ministry of Economics	Departments in the Bavarian administration VI/4, III/7 and Invest in Bavaria related to aerospace topics	www.stmwi.Bavaria.de

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