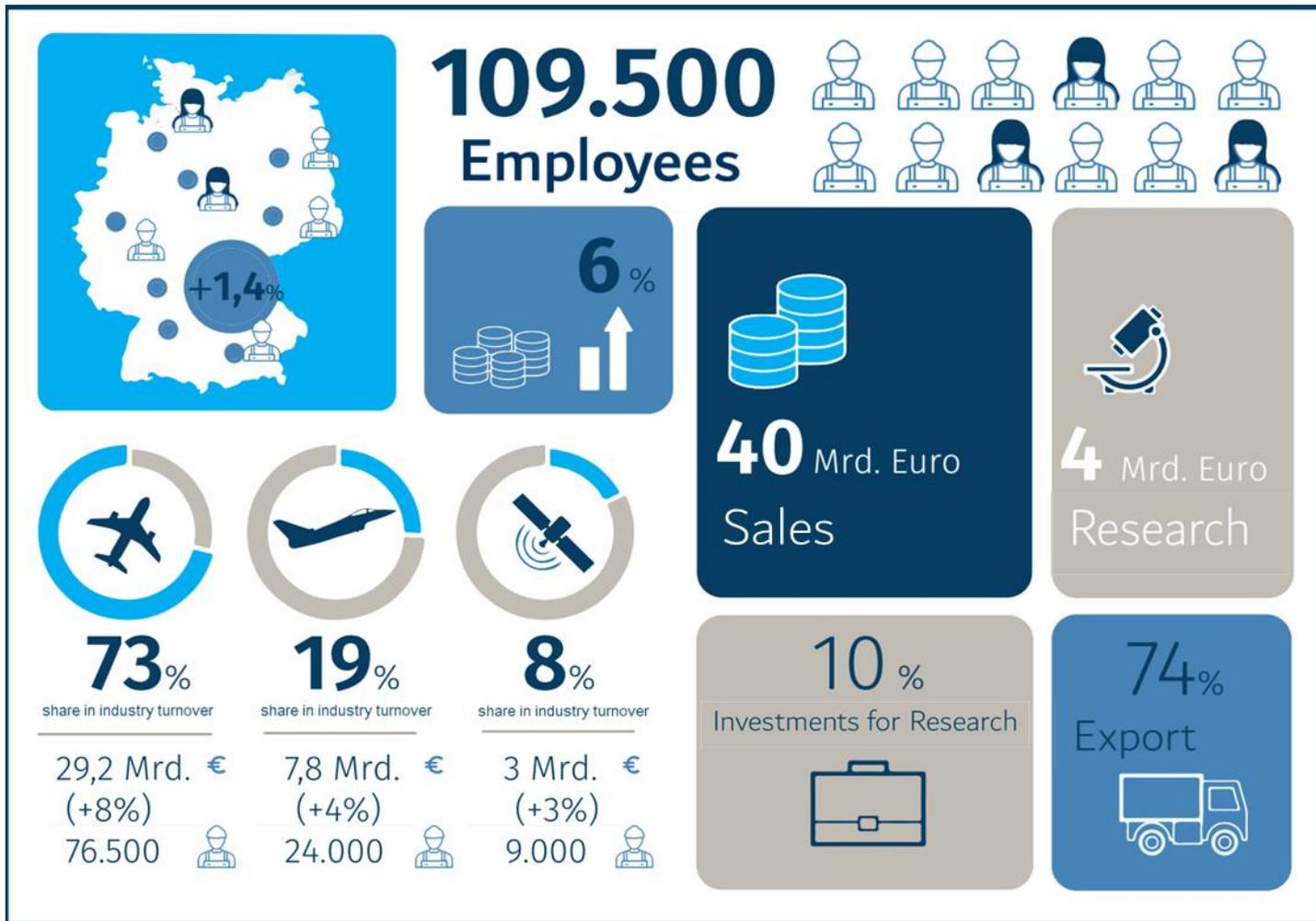


Cooperation possibilities in (New)Space in Bavaria

Baerbel Deisting

Helsinki, 11.02.2019

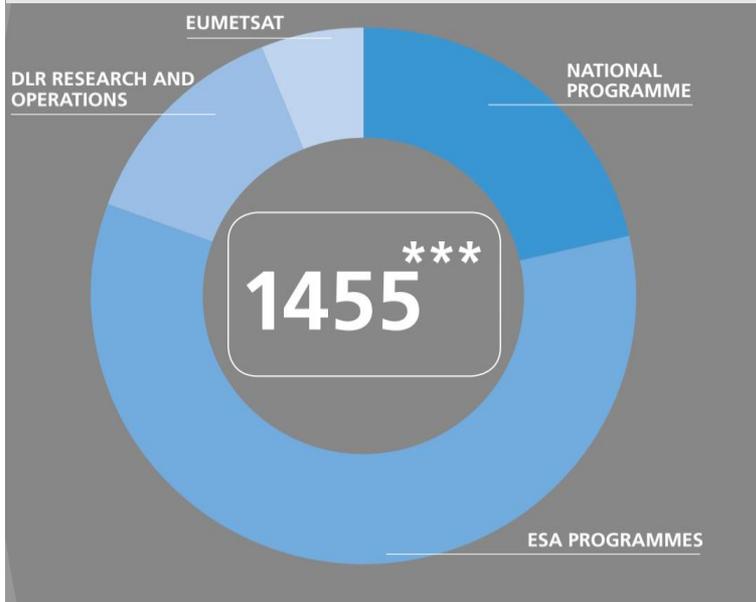
Aerospace in Germany – Facts & Figures



Source: BDLI

Germany's Investment in Space

Germany's investment in the space sector 2017

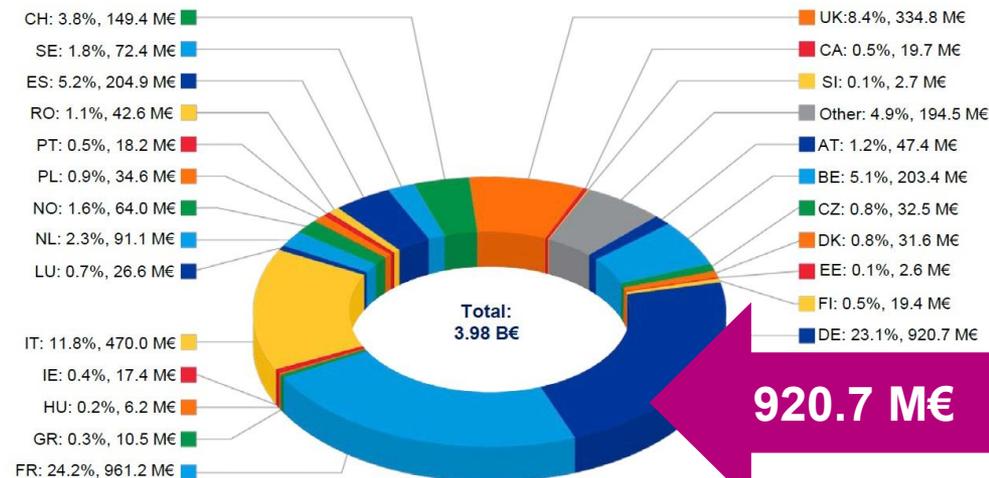


*** Million euros/DLR Space Administration
Source: DLR countdown- 2016

Germany's ESA Contribution in 2018

ESA budget for 2018: 5.60 B€

ESA Activities and Programmes



Source: ESA

B€: Billion Euro M€: Million Euro

High-Tech Strategy 2025 of the German Government

addresses thematic priorities

- concentrating on areas featuring especially dynamic innovation and holding potential for economic growth and prosperity.
- concentrating on areas helping to address global challenges and enhancing the quality of life for everyone.

Six priority tasks:

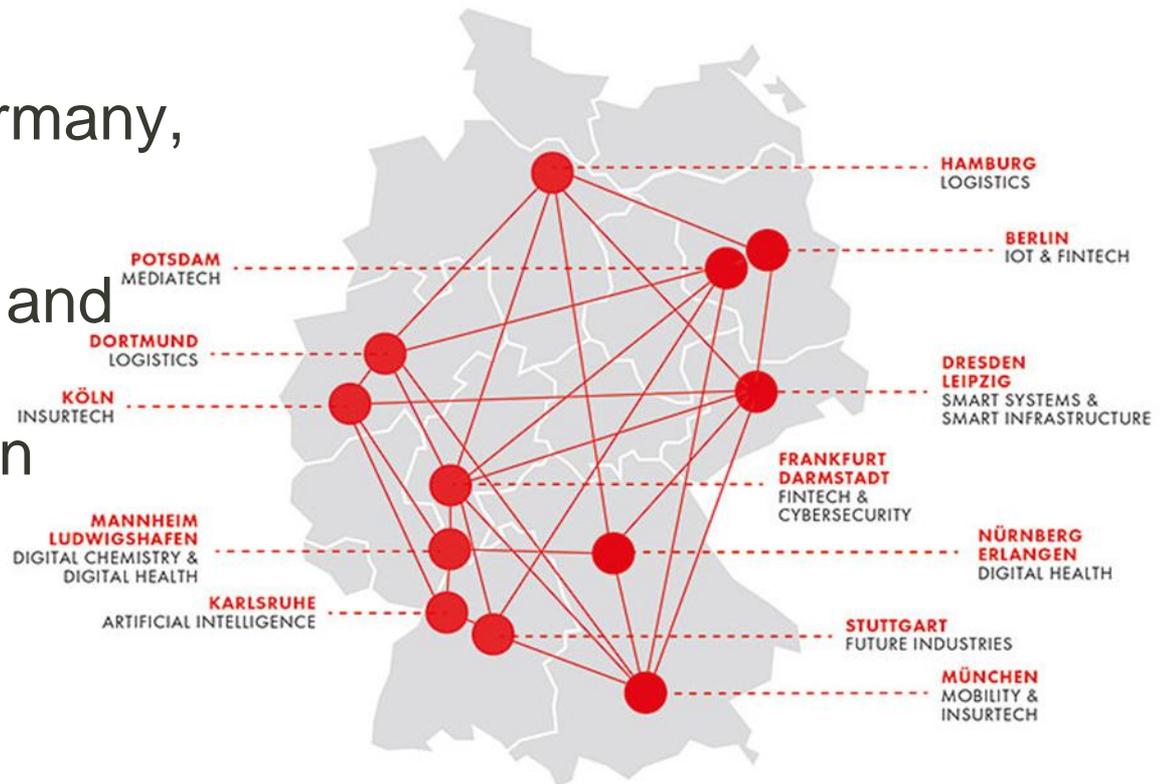
- digital economy and society
- sustainable economy and energy
- innovative working environment
- healthy living
- intelligent mobility
- civil security



(New-) Space and space based applications play a major role

German Digital Hub Initiative

- Initiative of the Federal Ministry of Economic Affairs & Energy
- 12 locations in Germany,
- 12 topics
- Connecting SMEs and larger corporates with new innovation partners from science and the start-up scene



Activities in Germany

INNOspace promotes intersectoral innovation transfer

- Activities: Competitions , Cross-sectoral Conferences & workshops and Mobile INNOspaceEXPO "ALL.täglich"
- Conference themes:
 - Space, Agriculture, Agricultural Engineering, Digitisation, Climate Change and Biodiversity
 - Earth observation, energy, insurances, civil engineering and critical infrastructures
 - Space and new materials
 - Space, cars and mechanical engineering
 - Space and maritime business
 - Space, production technologie
 - Space and ICT



Brand-new Directory of German Space Actors

- Published by
 - German Aerospace Center (Space Management) and
 - Federal Ministry of Economic Affairs and Energy



Bavaria: Economic Dynamics and Quality of Life

- Area: Germany's biggest Federal State (70,550 km²)
- GDP (2017) € 594 billion: No. 8 in EU
- Population (2018): 13 Mio.
Inhabitants: No. 11 in EU
- World class industry headquarters

**SIEMENS****Munich
Airport**

1/3 of German Aerospace and Space Industry

- Excellent infrastructure:
- International airports Munich & Nuremberg
- Over 42.000 km of road networks
- Rhine-Main-Danube waterway & extensive railway system

Bavaria - Innovation and Tradition

- Key players in European and global space and space applications scene
- Bavaria is home to
 - internationally operating companies
 - innovative small and medium sized companies
 - numerous startups
- Technological expertise in such fields as satellite navigation, earth observation, satellite communication, robotics, and space propulsion systems
- Space actors along the entire value chain

Framework of the Bavarian Cluster Aerospace



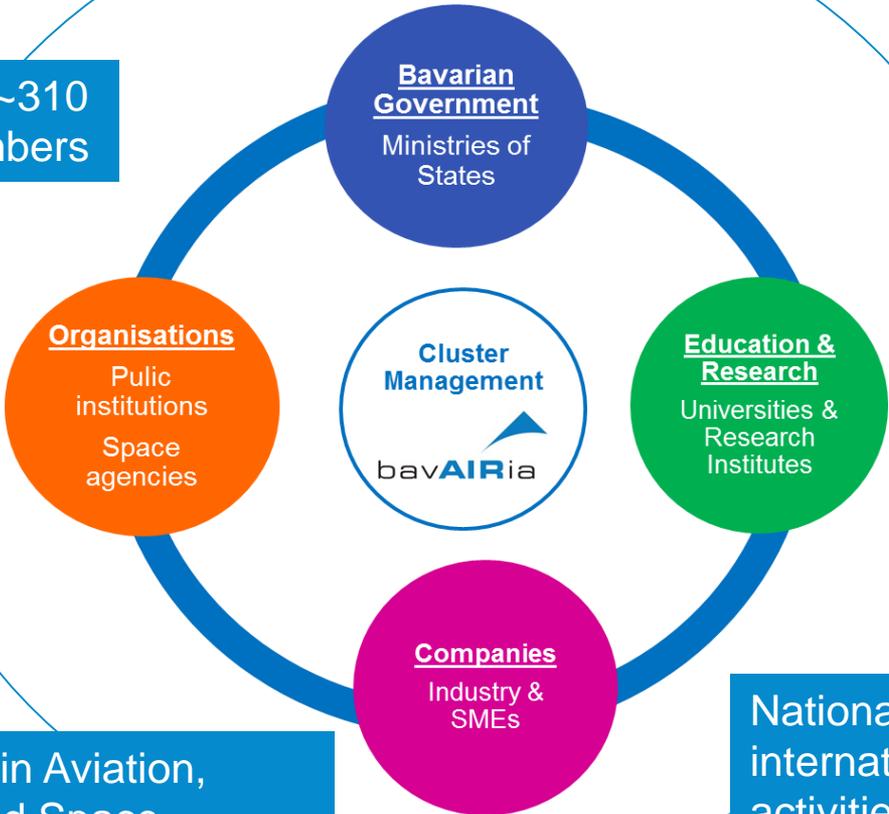
10 Bavarian Space Priorities

- Education & Training
- Space Start-Ups
- Promotion of Space Technologies
- Earth Observation
- Satellite Navigation & Galileo
- Small Satellites
- Space Components
- Launcher and corresponding Technologies
- Information- and Quantum-Technologies
- Space Robotics and Exploration Technology

bavAIRia - the Cluster AeroSpace



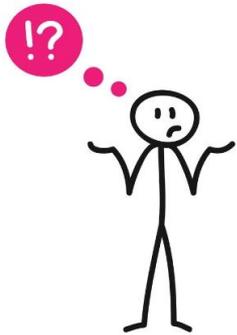
has ~310 members



engaged in Aviation, Space and Space Applications

National & international activities & cooperations

bavAIRia's Tasks



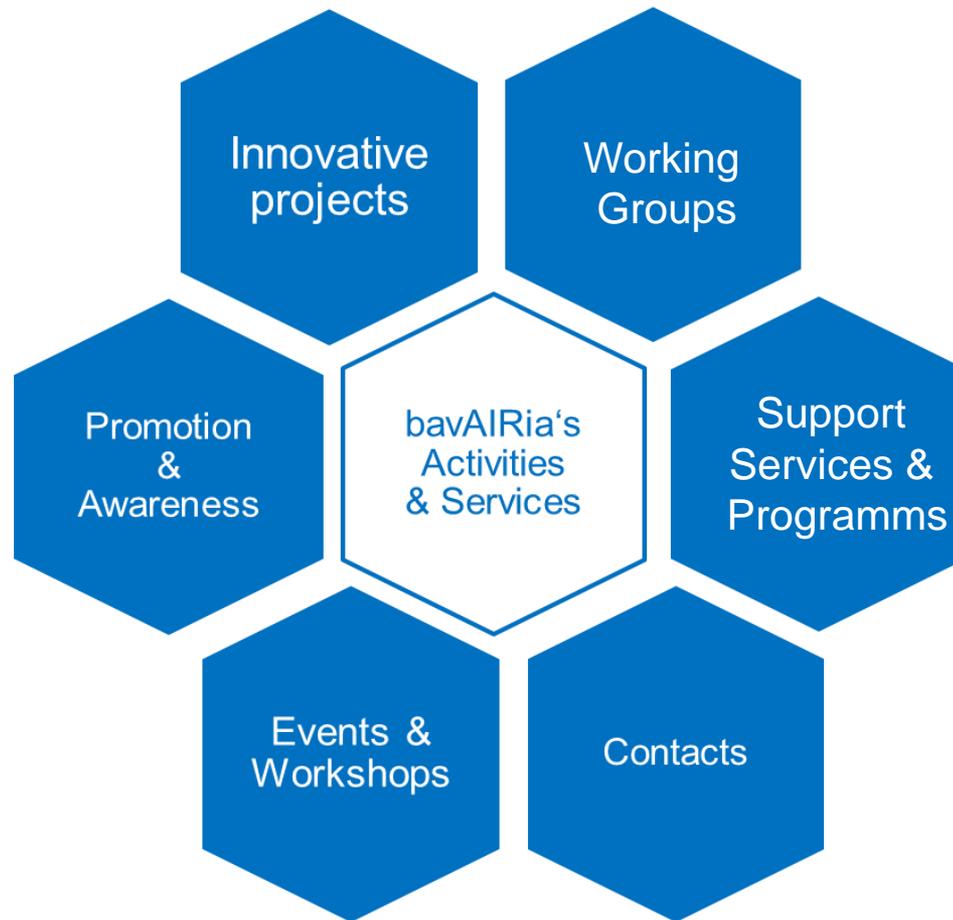
- Support the Bavarian space sector
- Facilitate the development of innovative space-based applications and services in various fields



- Foster cooperation between industry, SMEs, universities, research institutes as well as politics
- Support international cooperation
- Enable international business and cluster cooperation

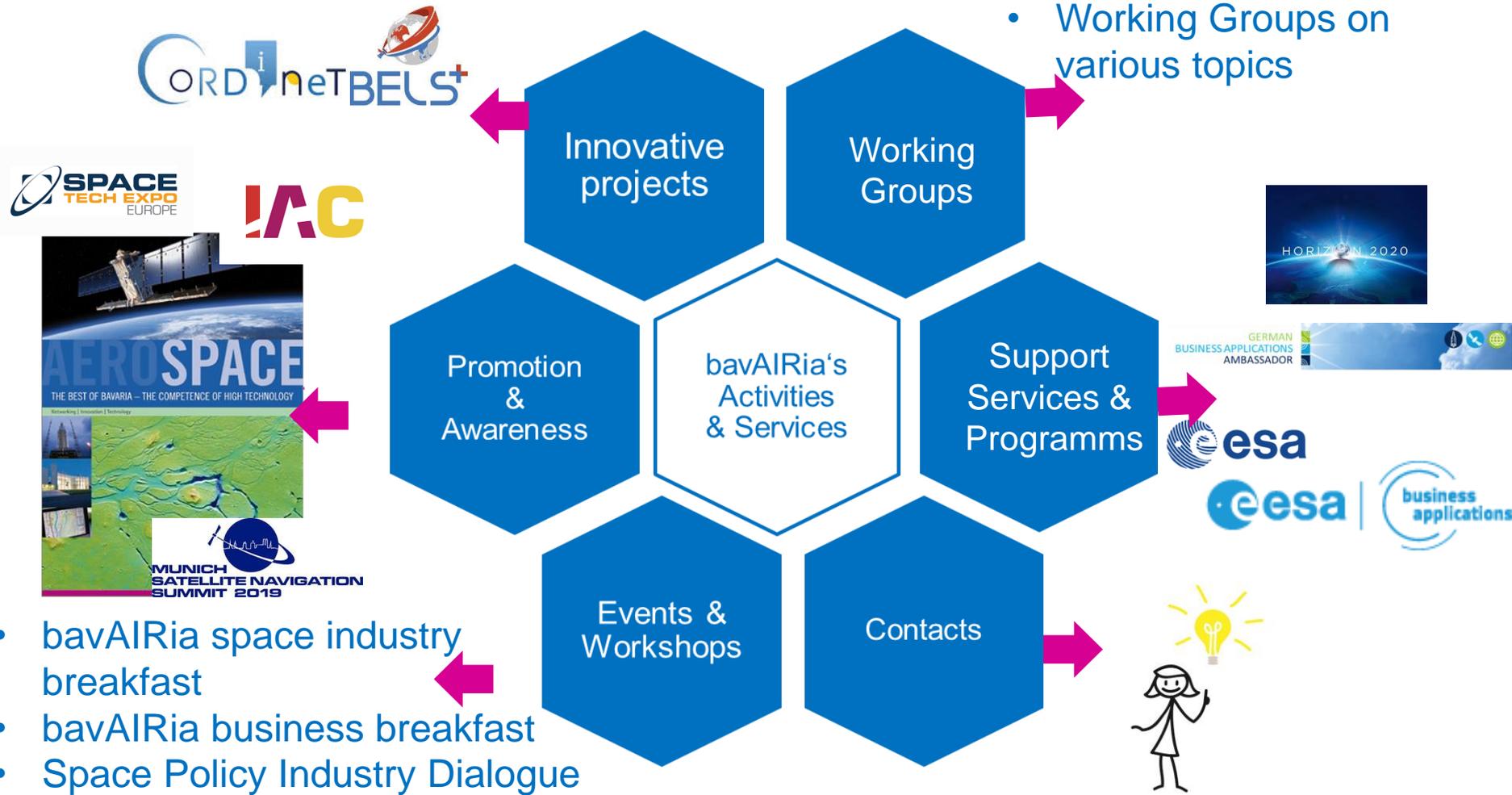


Our Activities & Services



Our Activities & Services

- Copernicus Working Group
- Working Groups on various topics



- bavAIRia space industry breakfast
- bavAIRia business breakfast
- Space Policy Industry Dialogue
-

bavAIRia Members in Space & Space Applications

Industry – Education & Training - Science & Research – Services – Administration & Associations

A collection of logos for various companies and institutions in the space and aerospace industry. The logos include:

- AIRBUS DEFENCE & SPACE**
- CAM** CAM Space GmbH
- DLR**
- MT AEROSPACE** An OHB Company
- OHB**
- navXperience**
- GAFAG**
- CCG** Carl-Cranz-Gesellschaft e.V. Gesellschaft für technisch-wissenschaftliche Weiterbildung
- TÜV SÜD** Management Service Mehr Sicherheit. Mehr Wert.
- ANWENDUNGSZENTRUM** Oberpfaffenhofen
- BAYERN-CHEMIE** an MBDA company
- Fraunhofer**
- BHO LEGAL**
- UNIVERSITÄT WÜRZBURG** Julius-Maximilians-Universität Würzburg
- HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN MÜNCHEN**
- IABG**
- ROHDE & SCHWARZ**
- EUROPEAN SPACE IMAGING**
- BERNIS ENGINEERS**
- TUM**
- HPS** High Performance Space Structure Systems GmbH The Team to Trust
- RSS** REMOTE SENSING SOLUTIONS GMBH
- LogiCom** GmbH
- EOMAP**
- TELESPAZIO** A Finmeccanica / Thales Company
- astopark** BUSINESS INNOVATION CENTER
- RUNDERTISCH GIS e.V.**
- ESG**
- ANavs** Advanced Navigation Solutions
- TRIA GNO SYS**
- outdooractive**
- space-tec** PARTNERS
- Teleorbit**
- gmV INS YEN** INNOVATING SOLUTIONS
- IFEN** GmbH
- ORORA.TECH** Advanced CubeSats for Weather Forecasting
- TraffiCon**
- Systems**
- ATMOSPHERE**

Contact

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