Istrian R&D-Strategy and Initiatives for the Aeronautics Sector

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Austrian Federal Ministry for Transport, Innovation and Technology - bmvit Unit of Mobility and Transport Technologies







- **1.** The Austrian aeronautics landscape
- 2. The Austrian RTI aeronautics strategy
- **3**. TAKE OFF the national aeronautics research and technology programme
- 4. Austrian catalogue of aeronautics competencies



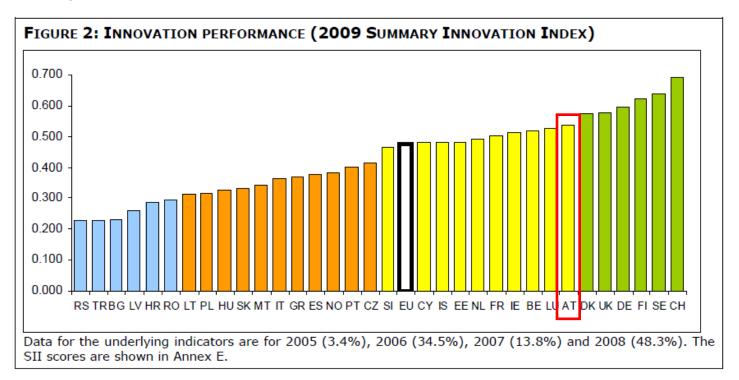


The Austrian Aeronautics Landscape

Research and Development in General in Austria



- Ranked 6 in OECD Innovation Score Board 2009
- R&D-quote 2010: 2.78% of GDP (€ 7.81 B)



Figures about the Austrian Aeronautics Landscape

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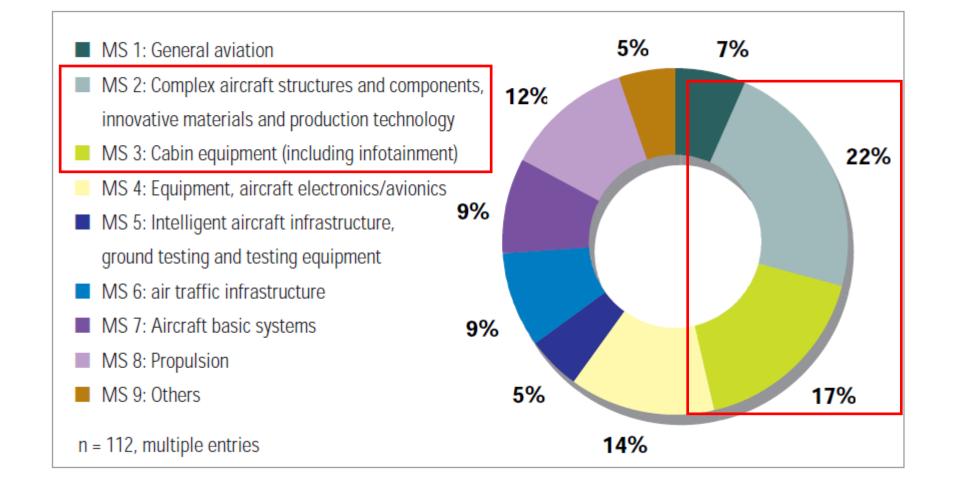
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Screening of aeronautics sector

- 240 companies, 75% SMEs
- 13% employees in R&D
- Number of aeronautics (supply-) industry (n=112)
 Cumulative turnover of aeronautics (supply-) industry in Mio. € (n=87)

Companies according to the Segments

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Austrian Aircraft and Austrian Contribution to international Aircraft Programmes



Austrian Contribution to the Boeing 787

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Austrian Contribution to the Airbus A380

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The Austrian RTI Aeronautics Strategy Research - Technology - Innovation

Austrian RTI-Strategy for Aeronautics

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- **2006**
 - Initiative
- **2007**
 - Development
- As of 2008
 - Implementation



Bundesministerium für Verkehr, novation und Technologie

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FTI-Luftfahrtstrategie

Österreichische Forschungs-, Technologie- und Innovationsstrategie für die Luftfahrt

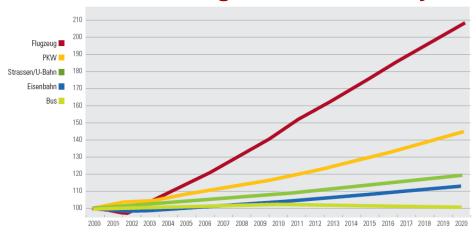


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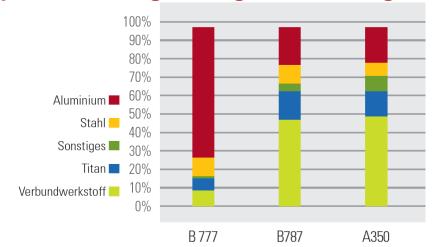
Analysis of General Trends in Aviation

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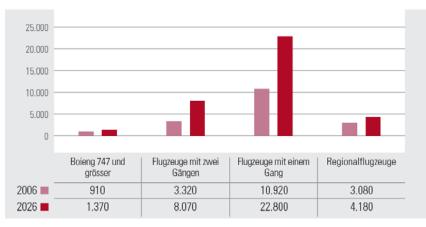
Increasing Need for Mobility



Application of light-weight Technologies



Increasing Demand for more Aircrafts



Change of Cost-Structure in Aviation



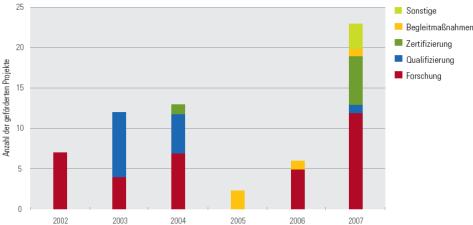
Specific Situation of the Aviation Sector in Austria

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Aeronautics/Supply/Industry

R&D-Aeronautics-Funding







Main Goals of the Austrian RTI Aeronautics Strategy

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GOAL 1

Co-ordination and expansion

AIR TRANSPORT SECTOR (OR AERONAUTICS SECTOR)

GOAL 2

Extension and development of technological expertise

AERONAUTICS INDUSTRY

GOAL 3

Updating and opening up of new applications

AIR TRANSPORT

According Goal 2





- 3 system-integrators (+1)
- 4 tier-1-suppliers (+1)
- 12 supply control operators (+6)
- 3 x sales
- 2 x number of employees
- ~70 companies with aviation as core business

According Goal 3





- Using national added value potentials
- Application of "SESAR-technologies"
- Developing Austrian key technologies
- Becoming
 - Environmentally-friendly
 - safe
 - secure
 - Time efficient
 - Cost efficient

According Goal 1

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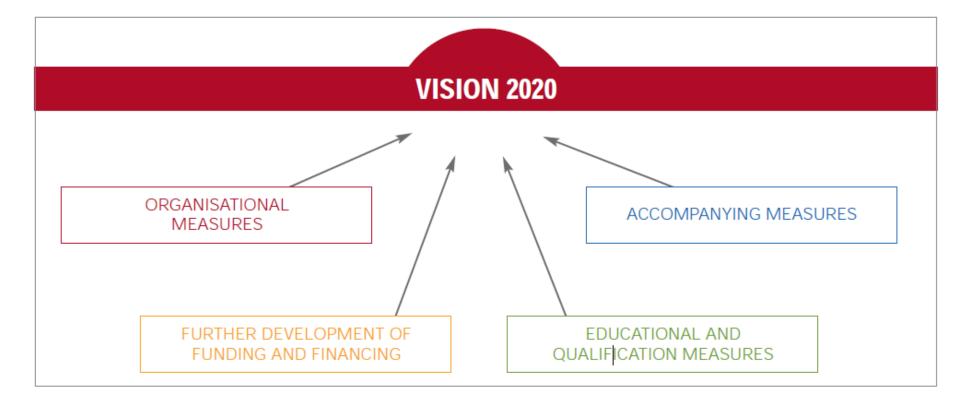


Strengthening 6 Segments

- General Aviation
- Complex aerostructures and components, innovative materials and manufacturing techniques
- Cabin interior components (incl. infotainment)
- Aircraft equipment and avionics
- Intelligent aircraft infrastructure and test equipment
- Linked air transport infrastructure and ATM

Strategic Measures for the Implementation of Vision 2020

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TAKE OFF - The National Aeronautics Research and Technology Programme

TAKE OFF - Objectives

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1) Competitiveness

- 2) Safe, efficient, climate protecting and comfortoriented air transport system (ACARE!)
- 3) Qualified researchers and technicians, ambitious co-operative research projects
- 4) Strengthening international image of Austrian research and development







- 1) Complex aircraft structures and components
- 2) Aircraft propulsion
- 3) Cabin equipment
- 4) Aircraft electronics/avionics
- 5) Intelligent aircraft infrastructure, test-equipment
- 6) Air traffic infrastructure and control applications

Results TAKE OFF 2002 - 2010

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- € 49 M funds
- 124 projects
- Grouping of topics
- Cooperation industryscience
- Qualification, certification
- Networking
- International activities (Eranet AirTN)
- Dissemination of results

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TAKE OFF

The Austrian Aeronautics Research and Technology Programme

Latest Results in 2010



TAKE OFF

Eranet AirTN Cooperation with LUFO

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- 1) Common Projects LH₂-Storage, Titanium Chip Removal, Profit
- 2) Common funding Germany/Austria € 36.1 M
- 3) German partners e.g. Airbus Germany, DLR, EADS Germany, Diehl Aerospace GmbH, Fraunhofer e.v., Premium Aerotech, Eurocopter Germany, Diehl Aircabin, General Electric



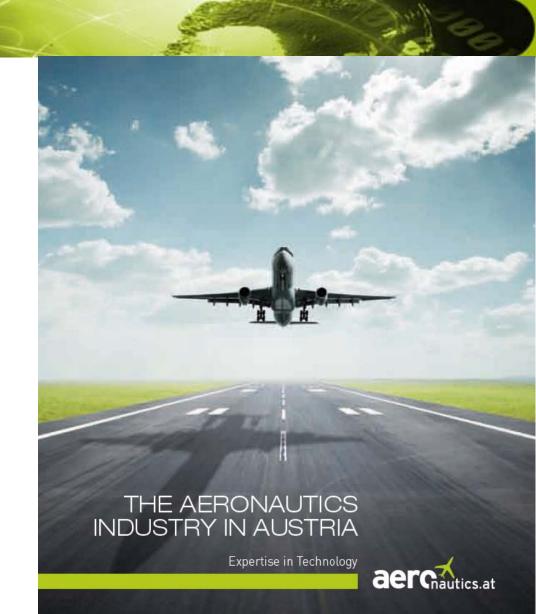


Austrian Catalogue of Aeronautics Competencies

The Aeronautics Industry in Austria

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- Catalogue of Austrian companies and competencies
- Published in March 2011
- Available on AirTN Stand 6
- Available as well on www.aeronautics.at





THE AERONAUTICS INDUSTRY IN AUSTRIA

www.aeronautics.at

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Successful Measures in Aeronautics





- 1) Sector has common vision through RTI-strategy
- 2) Creating community based on research and technology programme and events
- 3) Focus on industry and science
- 4) Focus on leading companies and SME
- 5) Network activities on the national and the international level
- 6) Thourough overview of aeronautics sector



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