

of Economics and Technology



The German National Aeronautics

Research Programme

Integration of Aeronautics RTD on European national and regional level

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Motivation for Complementary Research

Federal Programme LUFO

Regional Programmes



Federal Ministry of Economics and Technology

Rationale for Complementary Research

EU

enhancement of international competitiveness

projects with socioeconomic benefits for Europe

projects with workshares in different Member states

National

Projects that focus on national core Competencies in industry and academia

projects with socioeconomic benefits for Germany

joint projects with industry, SMEs and academia from different Länder

Regional

enhancement of regional locations for industry and academia

projects focused on the regional supplier base

concentrating on SMEs and academia



Status of Complementary Research

EU	6. FWP, final call 3 7. FWP, call 1		closed 2007	**** **** ****
Federal	LuFo III(2003-2007) LuFo IV(2007-2012), (Call 1 Call 2	closed ongoing 2008	Bundesministerium für Wirtschaft und Arbeit
Länder				
Bayern	dedicated Projects		n/a	
	(no specific programm	ıe)		
	(no specific programm rogramme Aeronautics Technologies		ngoing	



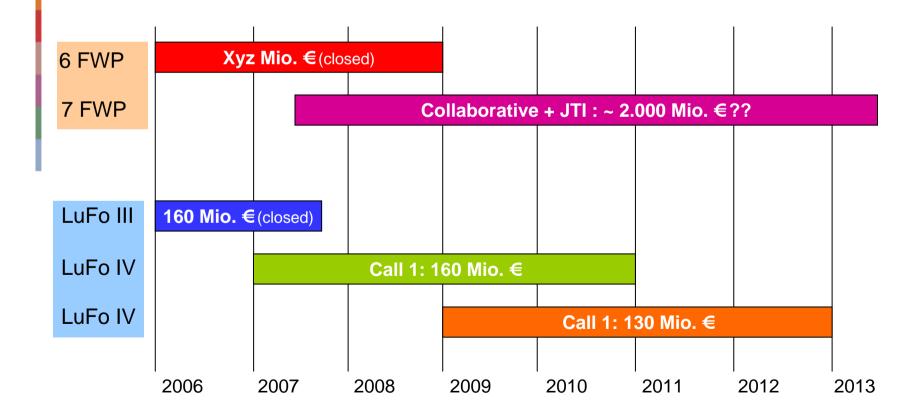
Why national R&T for the small aeronautical industry sector in Germany (less than 1% of GNP) ?

- Strategic sector with technological multiplier effects on other industry sectors
- Fully privatized industry with primarily SME structure
- High R&T expenditures (18% of turnover compared with 5-6 % e.g. in automotive sector)
- Level Playing field in relation to global competitors
- Societal Needs/Environment



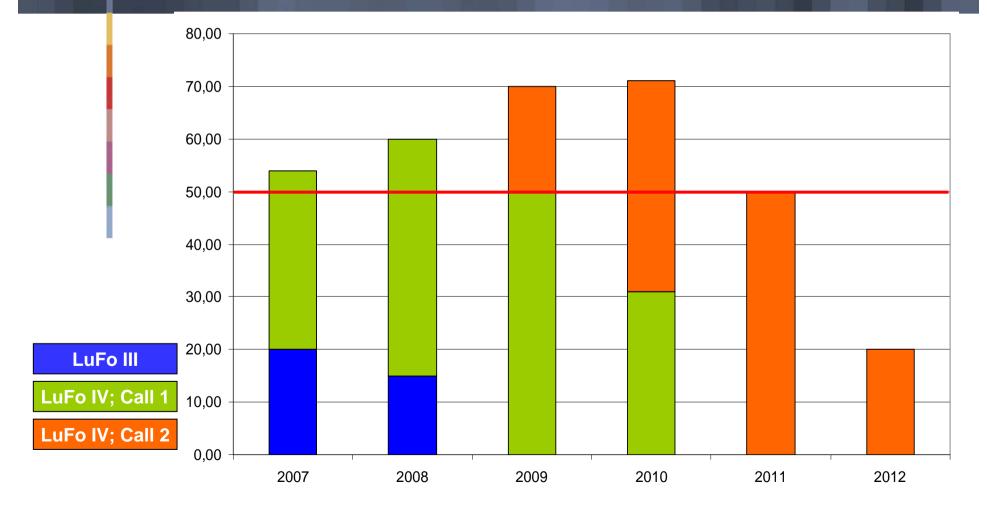
and Technology

European and national R&T-Programme Synchronisation





National R&T-Programme Spending Profile





Federal Ministry of Economics and Technology

Federal Government Civil Aeronautics Research

Lufo I	1994-1998
Lufo II	1999-2002
Lufo III	2003-2007
Lufo IV	2007-2010
Lufo IV	2009-2012

300 Mio €
120 Mio € + Länder Funding
160 Mio € + Länder Funding
160 Mio € (1st Call)
130 Mio € (2nd Call)

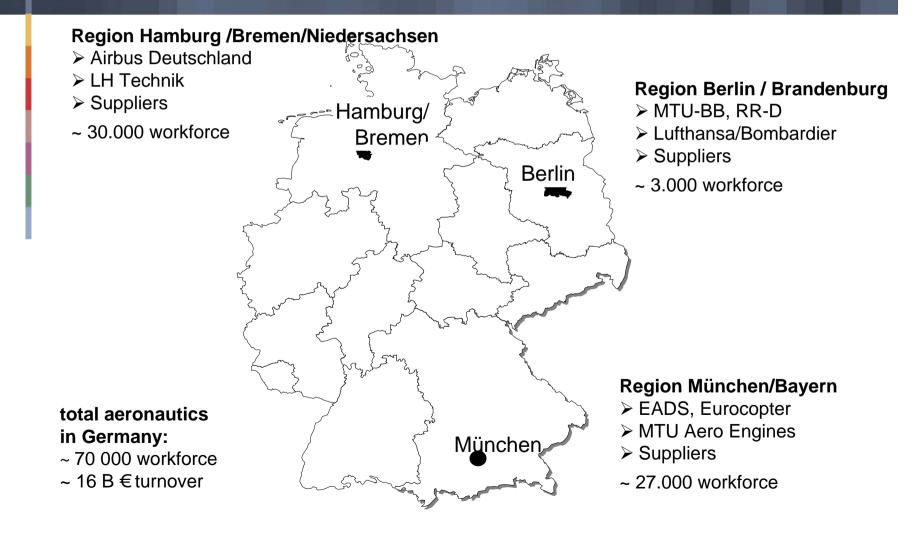
dedicated to deliver answers to the challenges as defined in SRA II.

- Traffic Growth and Environmental Pro
- Safety and Passenger Friendliness
- Economic Efficiency and Market share

via cooperative and integrated projects carried out by industry, universities and research institutions



Regions with major aeronautical capabilities in Germany





Complementary Research on Federal and Regional Level

Federal Research Programmes (LuFo):

- LuFo III (2003 2007):
- LuFo IV
 1st Call (2007 2010):
 2nd Call (2009 2012):

194 Research Projects
160 Mio. € Funding
1st call closed
160 Mio. € Funding
130 Mio. € Funding



Regional Programmes:

- Bavaria (since 1997):
- Hamburg (since 2001):

60 Research Projects

40 Research Projects



Brandenburg (since 1999):

few Larger Research Projects



Complementary Research on Federal and Regional Level

- Common Management of Federal Programmes and larger Regional Programmes by Programme Management Office to assure harmonised Research Efforts
- Programmatic Coordination with Industry and Science via:
 - ACARE on **EU-Level**
 - National Research Council on National Level
 - Bund-Länder-Forum between Federal and Regional Level
- Common EU-Notification Framework of Regional and Federal
 Programmes



R&T - Funding Intensity

- EU: 10⁹€per Programme 10³ potential Participants
 - National: 10⁸€per Programme
 - 10² potential Participants
 - Regional: 10⁷ € per Programme
 10¹ potential Participants



Orchestrated Use of Aeronautics R&T Programmes

