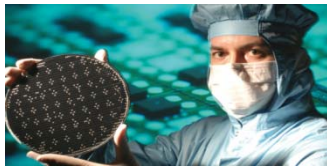


# ICT-RTDI in Austria

## Facts, figures, elements, theses

*EC – going local*  
*BIG-Meeting/Fed. Chancellery*  
*21. Nov. 2011*



*M. Wiesmüller / BMVIT*



Competence Centers for Excellent Technologies



Information Society



FFG

Intelligent  
e  
Produktio  
n

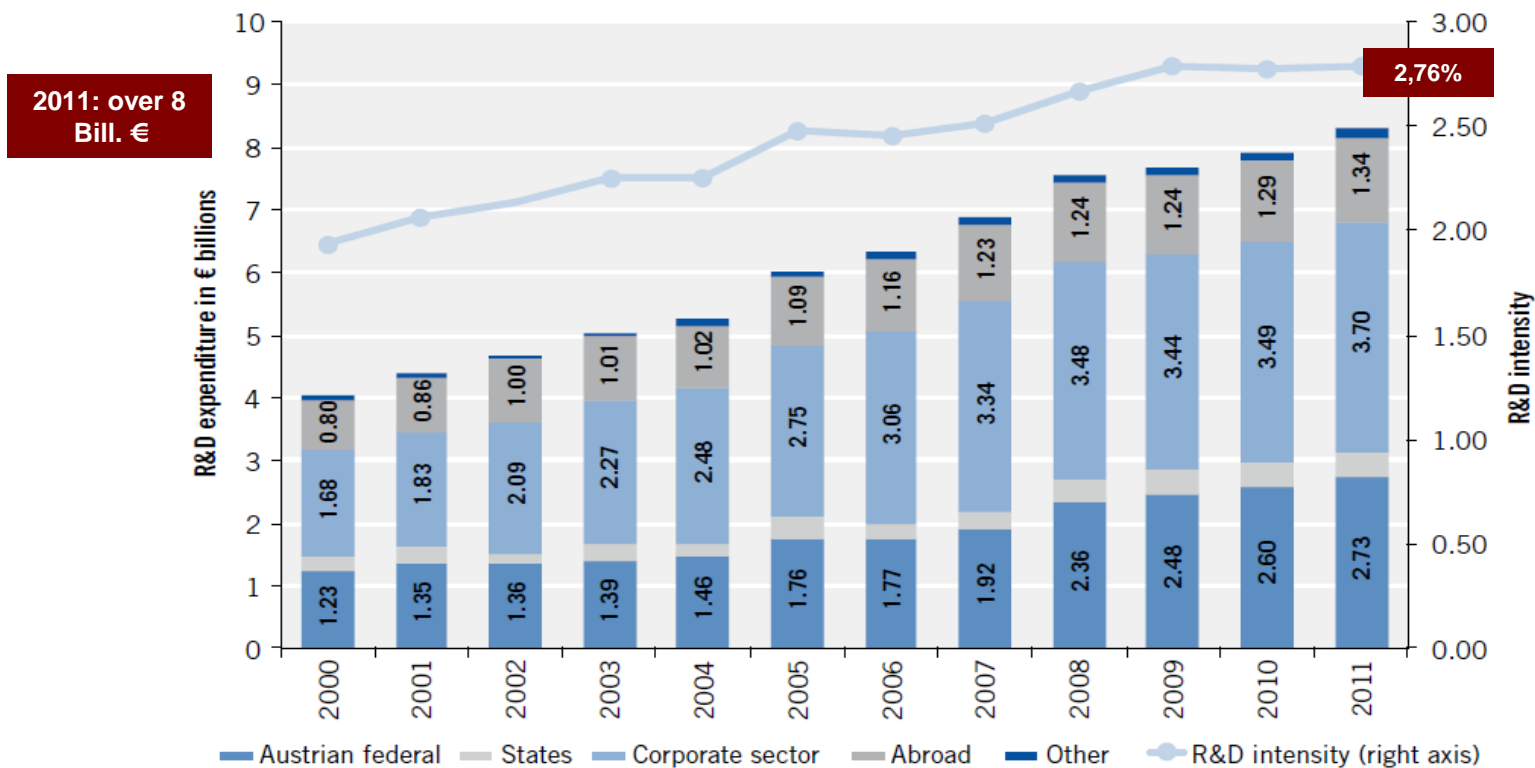
1. Some Highlevel trends in research and technology in Austria
2. ICT RTDI Landscape in Austria
3. Towards new RTDI Paradigms
4. Conclusions

**Some recent trends....**



# Historical footprints (last decade)

Figure 1: Research and development in Austria by funding source

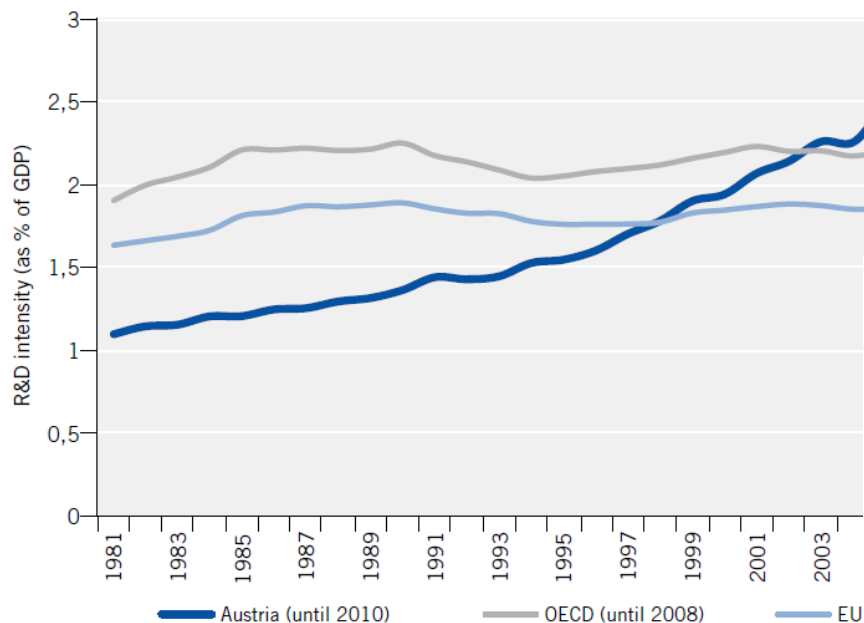


Source: Statistik Austria, Global estimate 2011, calculations by Joanneum Research

**Since 2000 AT has forcefully caught up in RTD investments**

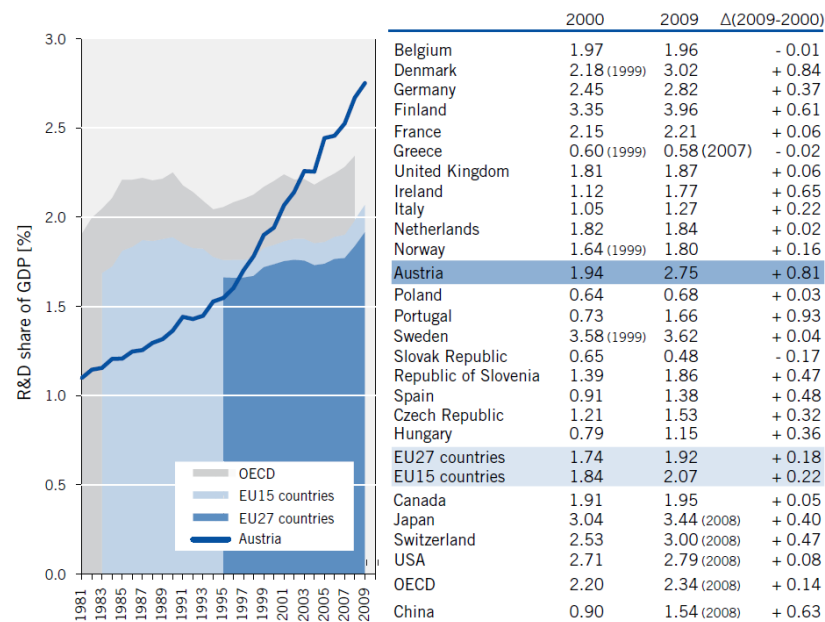
# Historical footprint (II)

Figure 9: Development of R&D intensity in the last three decades



Source: OECD/MSTI, Statistik Austria, calculations by Joanneum Research

Figure 3: Development of R&D expenditures as a percentage of gross domestic product by country

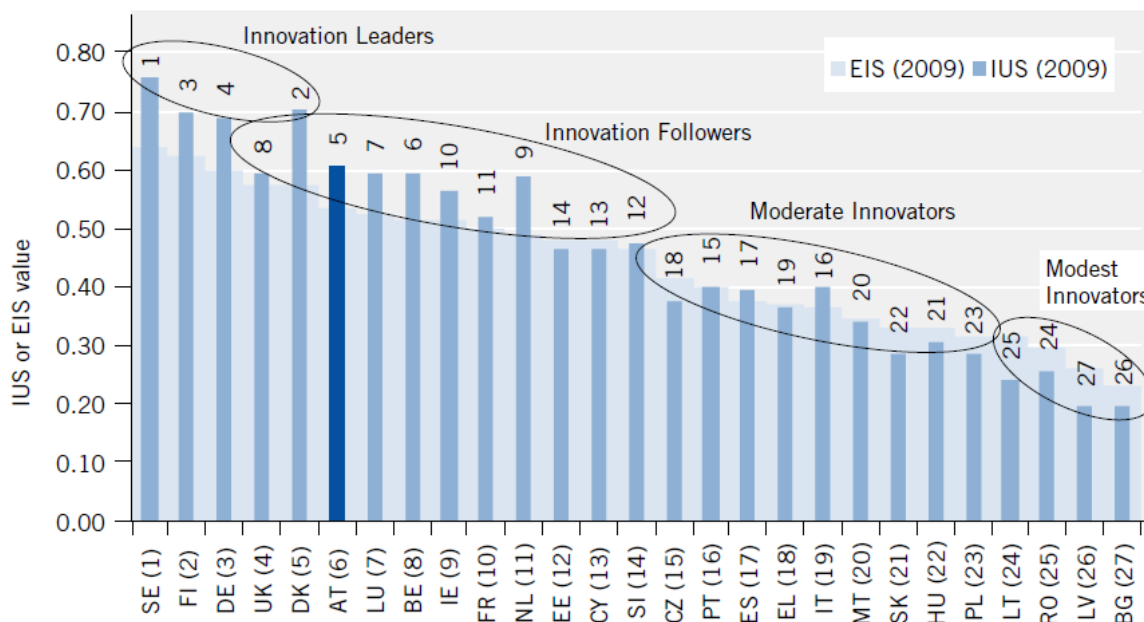


Source: The OECD's Main Science and Technology Indicators (MSTI), calculations by Joanneum Research

**TOP 3 fastest growing RTD-investments in OECD**

# Yet...“output“ wrt Innovation tb improved

Figure 6: Comparison between countries for 2009 based on EIS and IUS



Source: InnoMetrics, calculations by Joanneum Research

## Innovation Union Scoreboard:

Solid results with a firm grip on seventh place. Confirms Austria’s pattern of strengths and weaknesses, already familiar from the EIS. *Weaknesses* in tertiary education, venture capital availability and knowledge-intensive service exports.

*Strengths* include scientific publications, R&D expenditure by firms, innovative SMEs, and intellectual property.

*The IUS intends to capture structural aspects; accordingly, several indicators are oriented towards a long-term perspective*

**Thus megatrend in RDTI/AT: “From RTD to innovation”**

# From follower to leader...?

The federal government's RTDI strategy (approved in March 2011) sets forth ambitious goals.

- "We want to continue developing the potential of science, research, technology and innovation in Austria, thereby making our country one of the most innovative in the EU by 2020, strengthening the competitiveness of our economy and increasing the prosperity of our society.
- We want to continue expanding and leveraging the potential of science, research, technology and innovation in Austria, to tackle the great societal and economic challenges of the future".

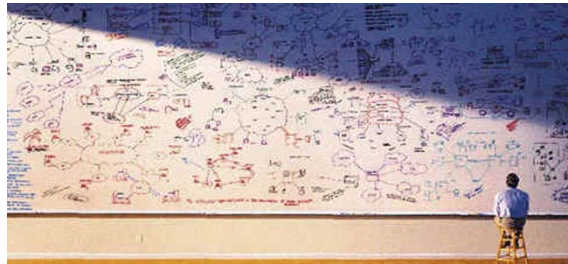
Strategic framework defines five interrelated area:

- **Education system**
- **Basic research** (RTD-Infra, Univ. financing, performance agreements, AT excellence init.)
- **Innovation and corporate research** (broad package for increasing innov.; +25% RTD performing business, + direct funding, + VC, PCP, + linkage science)
- **Governance** of the research and innovation system (strengthening cross policy, clear focal points)
- **Funding system** (adjust funding systems tw. goals, reducing prg. diversity, streamline instruments, concentrate resources)



**Input goal: increase R&D intensity to 3.76% (2020).**

## Policy and Programm Landscape in AT



## As in other highly developed economies and due to “nature” of ICT’s: ICT pervasive distributed in various policy sectors and layer’s:

### Ministries:

Fed. Chancellery (ICT coordination/ e-government)  
Ministry for Transport, Innovation and Technology (ICT innovations, broadband infrastructure, ICT related R&D)  
Ministry of Economy, Family and Youth (ICT innovations, e-Business, e-Content)  
Ministry of Science and Research (basic research)  
Ministry of Finance (electronic documents and payment, e.g. taxes)  
Ministry of Justice (legislation concerning e-commerce, e-security)  
Ministry of Labour, Social Affairs and Consumer Protection (consumer protection in e-commerce, development of IT-applications)  
Ministry for Education, Arts and Culture (IT education)

### Other Players/agencies

Council for Research and Technology Development  
Austrian Science Fund (FWF)  
austria wirtschaftsservice (aws)  
Austrian Research Promotion Agency (FFG)  
Telecom-Control Commission  
Data Protection Authority (DSK)

### Other Players/agencies (cont.)

Secure Information Technology Center – Austria (A-SIT)  
Austrian Regulatory Authority for Broadcasting and Telecommunications (RTR)  
Austrian Federal Chamber of Labour (BAK)  
Association of the Austrian Electrical and Electronics Industries (FEEI)  
Federation of Austrian Industries (IV)





### *Regional / provincial level:*

Vienna Science and Technology Fund (WWTF)  
Centre for Innovation and Technology (ZIT),  
Vienna Employment Promotion Fund (WAFF),  
Upper Austria: TMG  
Zukunftsstiftung Tirol (Tyrol)  
Zukunft Innovation (Styria)  
Kärntner Wirtschaftsförderungsfond (KWF) - Carinthia



## Active RTDI policy drivers: Ministries, Agencies, Regions

“Program Owner” for ICT RTDI 

### Ministries:

Fed. Chancellery (ICT coordination/ e-government)  
**Ministry for Transport, Innovation and Technology** (ICT applications, broadband infrastructure, ICT related R&D)   
Ministry of Economy, Family and Youth (ICT in business, e-Business, e-Content)   
Ministry of Science and Research (basic research)   
Ministry of Finance (electronic documents and payment services)   
Ministry of Justice (legislation concerning e-commerce, e-security)  
Ministry of Labour, Social Affairs and Consumer Protection (consumer protection in e-commerce, development of IT-applications)  
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# Main RTDI Programs (fed. level)

Not  
exhaustive

## BMVIT

- FIT-IT ●
- BENEFIT ●
- AAL ●
- ARTEMIS ●
- ENIAC ●
- CATRENE ●
- ITEA 2 ●
- Basic Program (FFG) ●
- Bridge ●
- COMET (jointly with BMWFJ) ●
- COIN (jointly with BMWFJ) ●
- AT.NET ●
- ASAP ●
- Smart Production* ●
- IV2plus* ●
- Energy of the Future* ●
- AIT ●

## BMWfJ

- Research Studios ●
- CD-Labs ●
- Josef Ressel Centers
- Eurostars
- AWS ●
- Innovative Services

## BMWf

- FWF
- University Research

- Dedicated ICT-Focus ●
- Open domain with strong ICT share ●
- Non ICT-Focus with strong ICT share ●



## ARTEMIS and ENIAC JTI's:

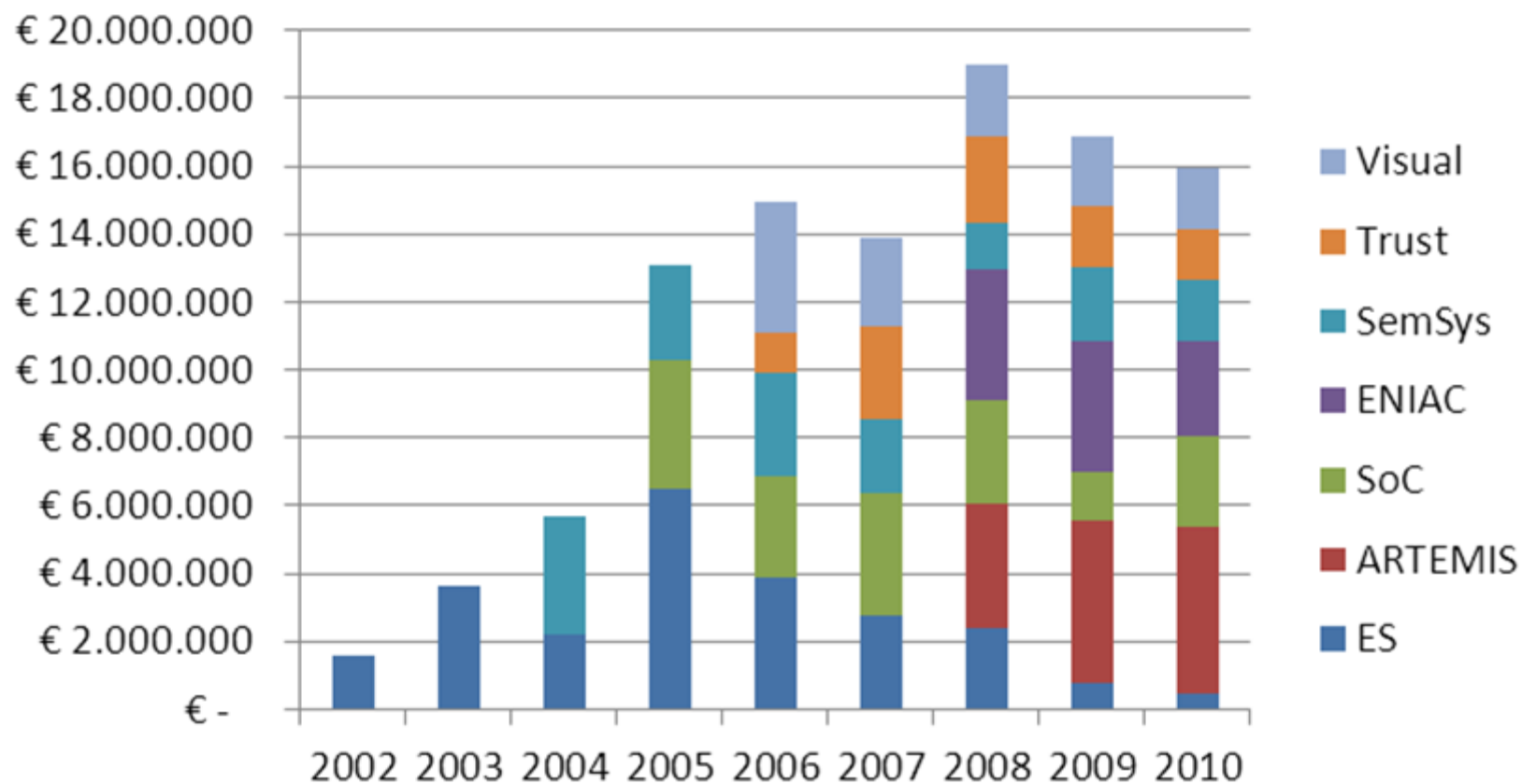
In late 2007 the European Council of Research Ministers decided upon the establishment of several so called Joint Undertakings, two of them in the scope of ICT: ENIAC, focusing on Micro- and Nanoelectronics and ARTEMIS, focusing on Embedded Systems.

Austria, exhibiting a favorable knowledge base and industry profile in these areas, has been among the **pioneering countries** both during preparation and establishment of the JU. For this reason from 2008 FIT-IT has been extended towards an international co-funding scheme, FIT-IT –ARTEMIS and FIT-IT - ENIAC, 2 sub-programs of FIT-IT. Since 2008 Austria has invested 15 Mill. Euro for ARTEMIS and 18 Mill. Euros for ENIAC (**32 Mill Euro in total**), thus leveraging additional 15 Mill. Euro community funds and enabling industrial RDT-investment of approx. **85 Mill.**

Both JTI initiatives are seconded by **national Technology Platforms** (ARTEMIS-Austria, ENIAC-Austria)



## Distribution of Grants



## benefit and Ambient Assisted Living (AAL):

In order to support a national implementation of the Ambient Assisted Living Joint Program (AAL JP), the Austrian Federal Ministry for Transport, Innovation and Technology has designed BENEFIT, a new mission orientated R&D Program in the field of “ICT Technology for Elderly People”.

The vision of the program is

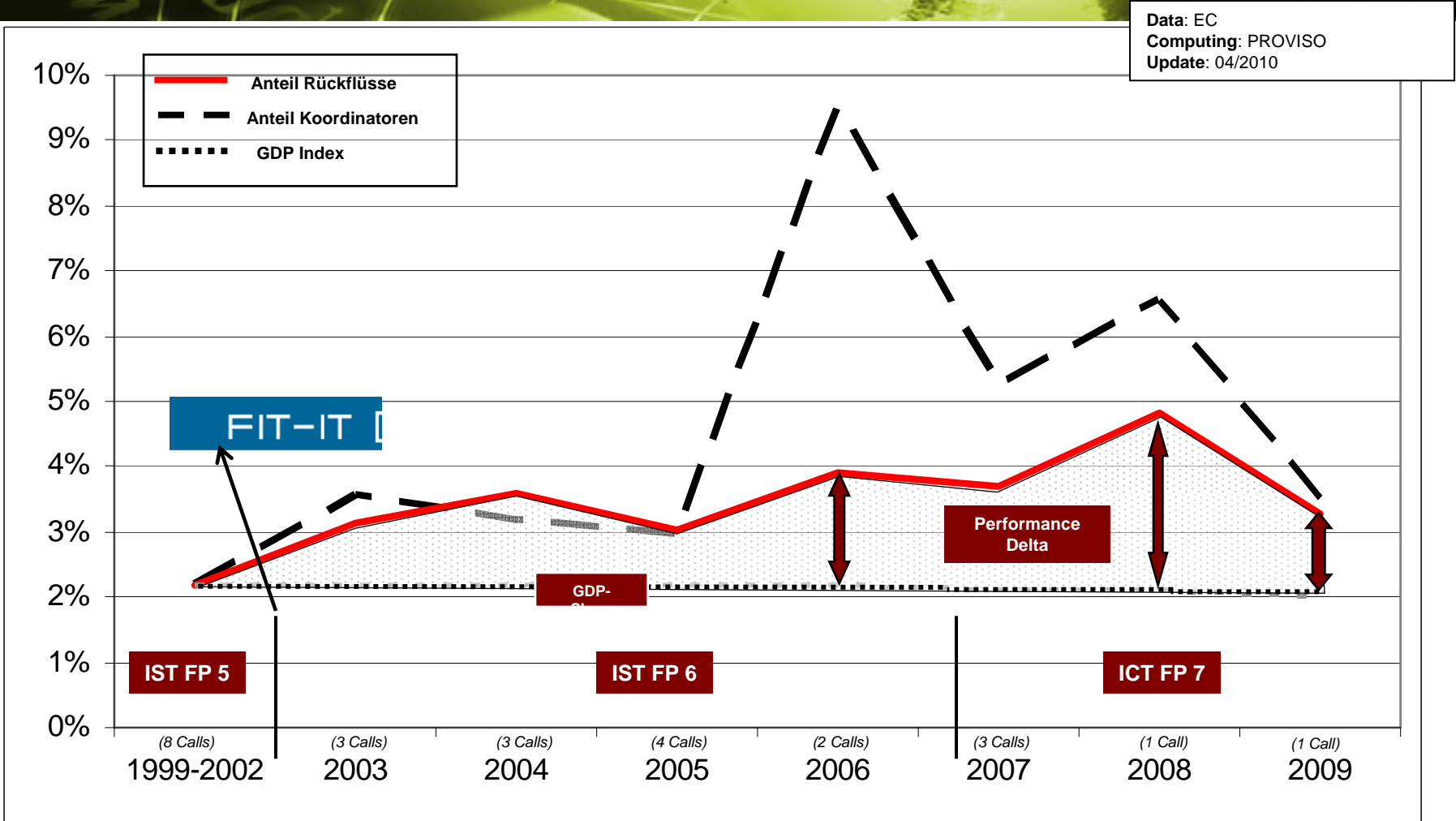
- i. to extend the time people can live in their preferred environment by increasing their autonomy, selfconfidence and mobility;
- ii. to support maintaining health and functional capability of the elderly individuals;
- iii. to promote a better and healthier lifestyle for individuals at risk;
- iv. to enhance the security, to prevent social isolation and to support maintaining the multifunctional network around the individual;
- v. to support carers, families and care organisations; and
- vi. to increase the efficiency and productivity of used resources in the ageing societies.

Up to now **50** projects in **benefit** (total grantvolume: **7,3 Mill. Euro**) and **33** projects in **AAL** (total grantvolume: **11,6 Mill. Euro**) has been contracted

Both AAL and benefit will be soon seconded by a **national Innovation platform** (AAL-Austria).

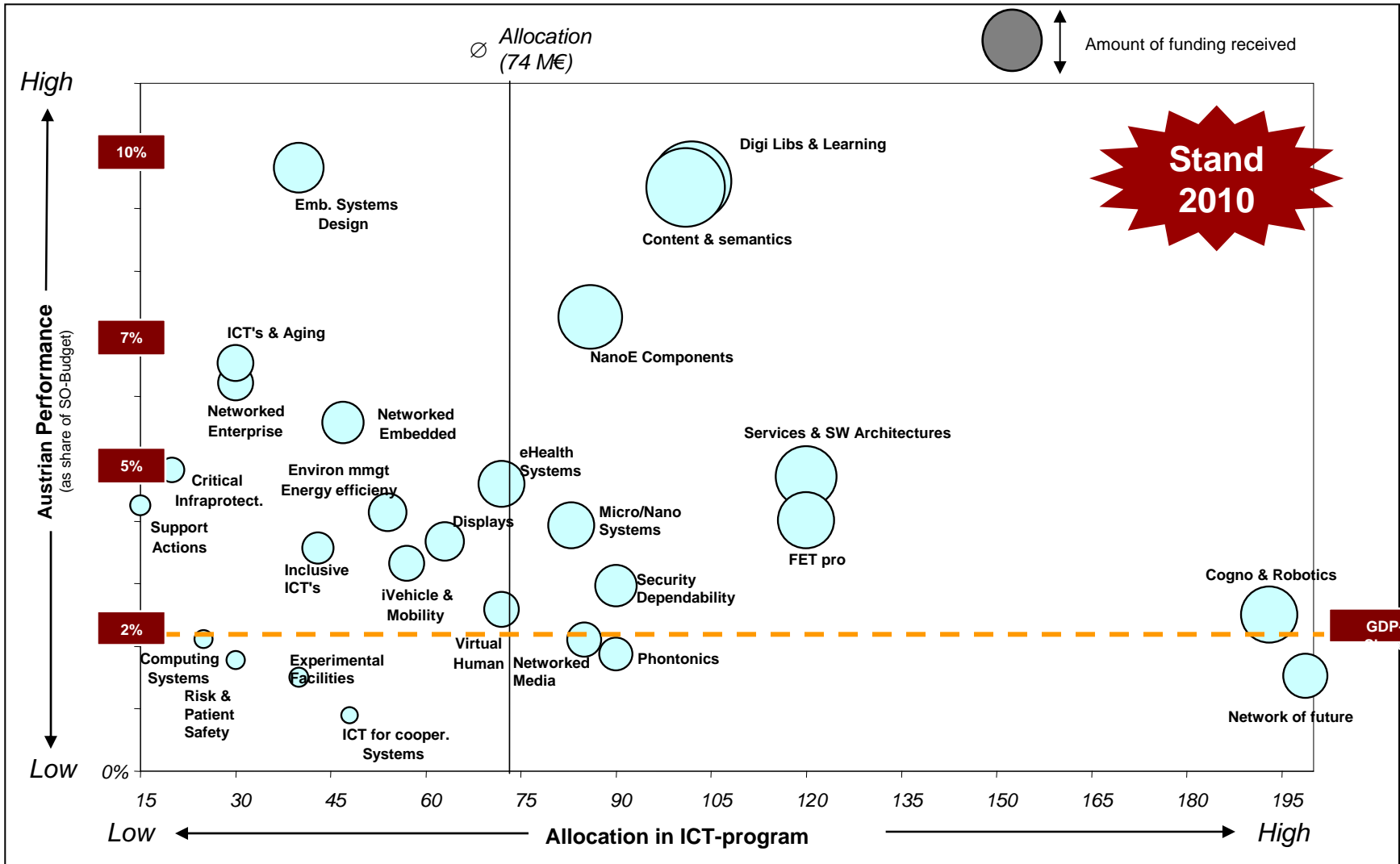


# Austrian Performance Path FP V-VII

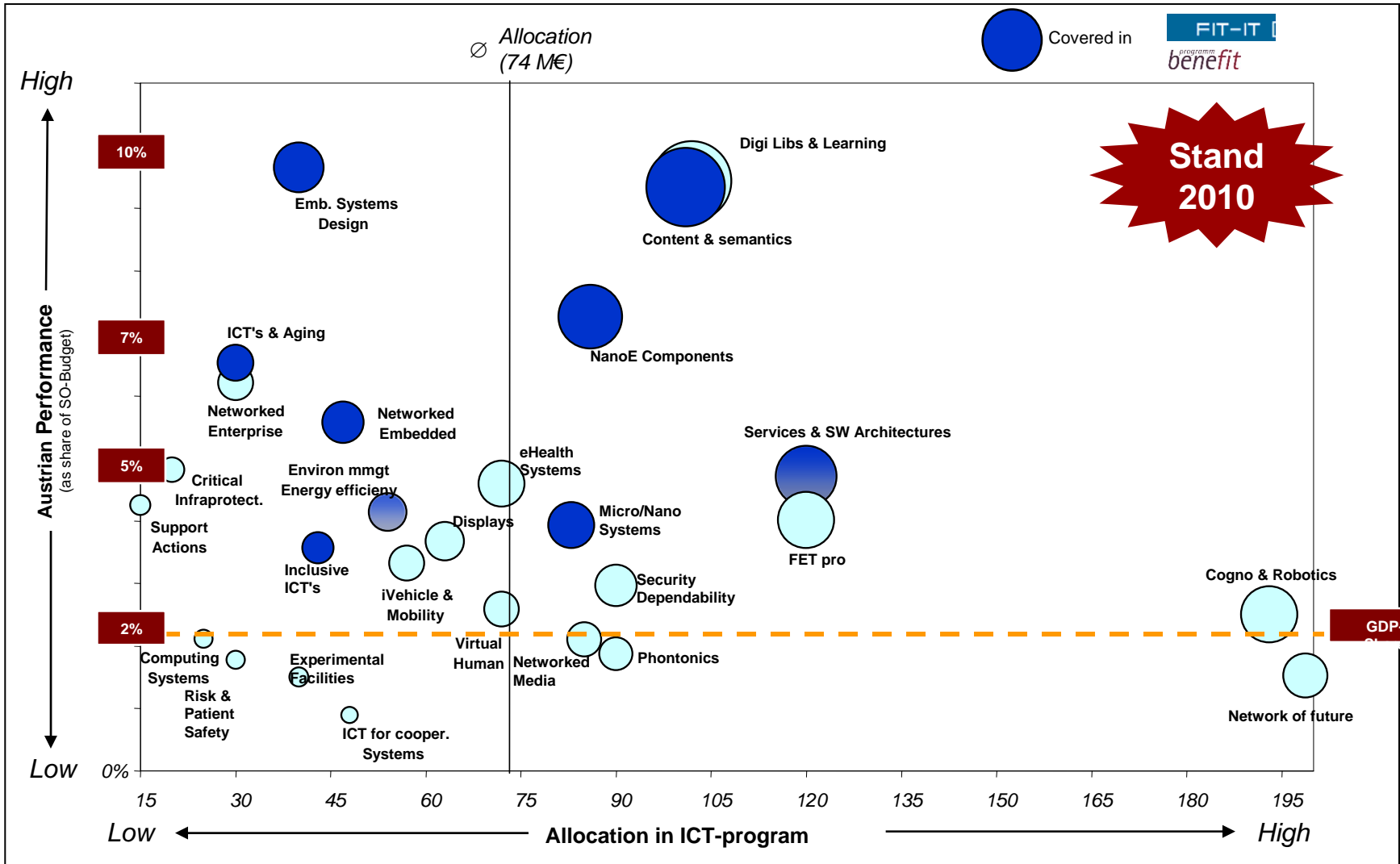


**Last 10 Years: IST/ICT – extremely high performance!**

# FP 7: Performance along Objectives



# FP 7: Performance along Objectives (1)



## Smart Manufacturing:

Intelligente  
Produktion

- Programm launched 2011
- Main goal: fostering Innovation base of Austrian manufacturing sector (640 k Jobs; 29 k Companies; 20% GDP; 56% export; Impact x2 in services)
- Lever: production and process technologies
  - raising productivity und efficiance
  - HVA Products
- Return to real economy (vs. New Economy, DL)
- Implemented along 7 challenges and mobilizing broad portfolio

High-Tech Materialien	Prozesse	Produktions-systeme	Produkte	Biobasierte Industrie	Substitution & Recycling	Querschnitts-themen
Neue Werkstoffe ...	Leistungsfähig, robust, ressourceneffizient	Flexibel, adaptiv, wandlungsfähig	Miniaturisierung	Nutzung NAWAROS	Substitution kritischer Rohstoffe & Recycling	Virtuelle Methoden...

1st Call 2011 under evaluation

Expected total volume: approx. **46 Mill. Euro**

Deep **ICT footprint** in nearly all areas.

SM is seconded by **national Technology Platforms** (Manufuture-Austria and Photonik-AT)



## FFG: General programs – general funding:

The FFG uses this instrument to support commercially relevant research projects which are run by companies, research institutes, individual researchers and inventors. Key funding criteria include project quality (e.g. technical risk, innovation potential), commercial exploitation (e.g. market experience and prospects), technical and financial feasibility and program relevance (e.g. additionality).

The FFG's general funding is **application-oriented** and **not limited to specific research topics** or deadlines.

In **2010** the total amount of funding for ICT provided by the General programs of the FFG was about **94 million Euros** (2009: 105 million), which means that the General programs allocated about **33 %** (2009: 33 %) of this funding to ICT projects. The total number of **ICT-related projects** were about **400** (2010) and 470 (2009), respectively.

Thus, due to its scale, this scheme is among the **major programs in fostering ICT-related R&D** projects of the private business sector.



## Bridge:

Bridge acts as an umbrella structure developed to tackle the perceived “promotion gap” between basic research on the one hand and applied research and development on the other hand. It consists of two interdependent programs:

- (i) the “Bridging program” (“Brückenschlagprogramm”) in the responsibility of the FFG aimed at the private industry sector and
- (ii) “Translational Research” in the responsibility of FWF aimed at the public research sector (“academia”).

Both programs address researchers and businesses irrespective of thematic orientation or industrial specialisation. One of the main characteristics is that Bridge provides funding for projects which are predominantly of a basic research character but which demonstrate a realistic potential for commercialisation so that one or more companies are prepared to act as partners and contribute to financing. Currently the 14<sup>th</sup> call is under implementation. The allocated funding of **ICT-related projects** in the last years was about **20 to 30% of all Bridge projects**.

Austrian ICT Competence Centres → „COMET K1-Centres“



Competence Centers for  
Excellent Technologies

Criteria for K1 centres are →

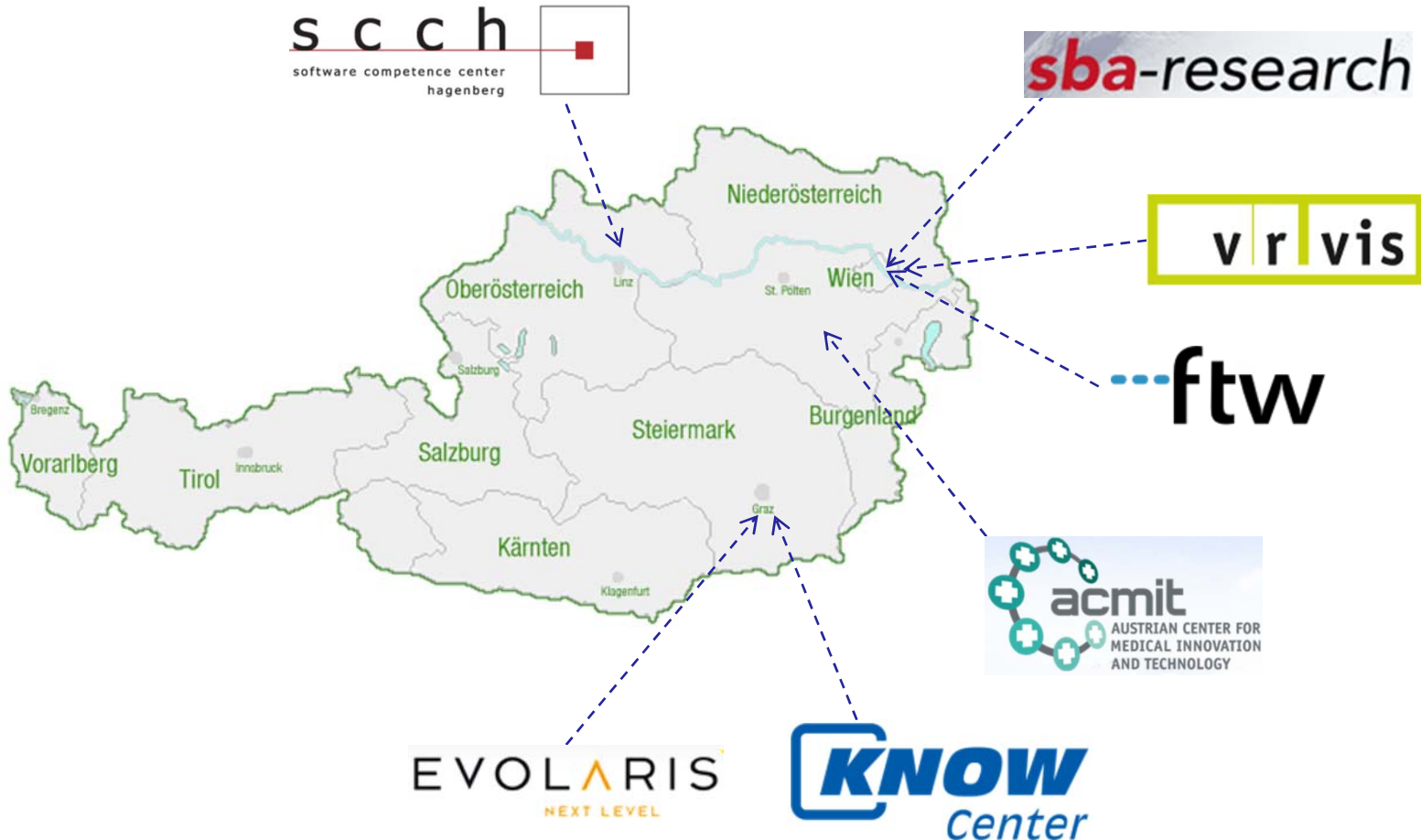
- corresponding with joint research programs,
- at least 5 company partners,
- mid-term evaluation in the fourth year
- Where possible and appropriate, existing structures and focal points of excellent research are to be bundled,
- or to be newly created, respectively.

Scheduled Number of CC: approx. 15 (currently 15)

Public financing: 40 – 55 %

Project duration: 7 years

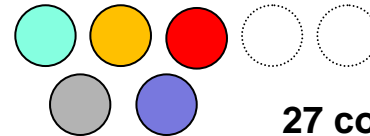
# ICT Competence Centres AT



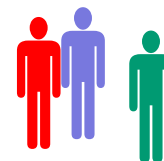
# SCCH - Software Center Hagenberg



The Software Competence Center Hagenberg was established in July 1999. Since January 2008, the SCCH is a COMET K1 center. Its research program maintains (1) Software Engineering Technologies (Processes, Quality, Integrated Development Methods, Software Architecture etc.), (2) Database Technology (Data Warehousing, Service-Oriented Architecture) and (3) Knowledge-Based Technologies (Computer Vision, Knowledge Discovery, Data Mining etc.)



**27 company partners**



Number of scientific personnel planned: 71 FTE (thereof 61 researchers)

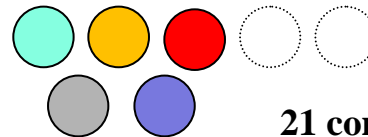


**8.1 mio. Euros** Federal financing for the first funding period (4 years): Start: January 2008

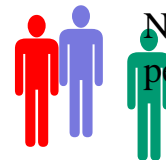


As K1 centre SBA2 - Secure Business Austria has its main goal in continuing basic research in IT security with a clear orientation towards the practical use by its industry partners and the general public. SBA2 incorporates its partners' own R&D efforts and contributes its basic research perspectives, targeted towards four areas of research: (1) Governance, Risk and Compliance, (2) Data Security and Privacy, (3) Secure Coding and Code Analysis, and (4) Hardware and Network Security.

**sba-research**



**21 company partners**



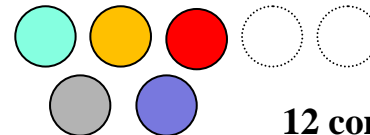
Number of scientific personnel planned: 31 FTE



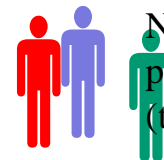
**9.9 mio. Euros** Federal financing for the first funding period (4 years):  
Start: April 2010



Founded in 2000, VRVis Center has become one of the international leading Visual Computing research centres, focusing on a wide range of aspects as follows: (1) Scalability with respect to data sizes, output device sizes, parallel and distributed resources, users, (2) Semantic information for intelligent queries, providing contextual information, (3) Fusion of different visual computing aspects to provide solutions for complex problems, (4) Interactive manipulation of huge data amounts, handling real-time data streams, and (5) Acquisition and intelligent processing of data.



**12 company partners**



Number of scientific  
personnel planned: 76 FTE  
(thereof 68 researchers)

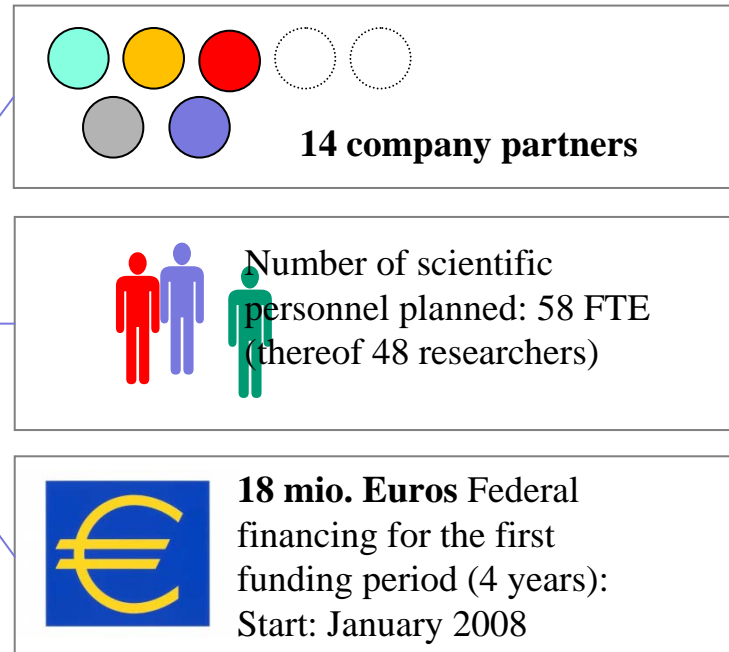


**13.2 mio. Euros** Federal  
financing for the first  
funding period (4 years):  
Start: January 2010



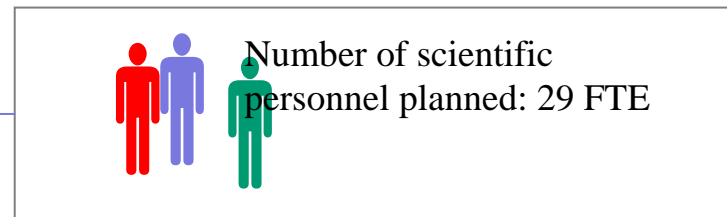
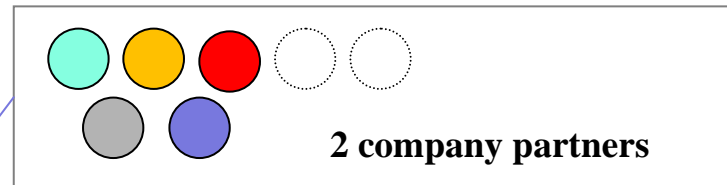
FTW concentrates on research and development of theories, algorithms and processes for the intelligent operation of future communication systems under real-time conditions, with the aim to ensure and advance

- (i) the quality of communications infrastructures, and
- (ii) the management of distributed data in infrastructures like telecommunications, intelligent transport, or intelligent energy.





In 2005 the company Integrated Microsystems Austria GmbH was founded and from 2005 to 2009 it received funding as Competence center for Microsystems technology. 2010 merged with the Medical Robotics Division of Profactor GmbH, and applied successfully for funding in the COMET program. Hence, since April 2010 ACMIT is set up as K1-Center, doing research in medical technology with focus on minimally invasive surgery and minimally invasive procedures incl. sensor technology, medical robotics incl. user-interface and training.



The Know-Center (established 2001) today is in the COMET program Austria's competence center for knowledge management and knowledge technologies and perceives itself as a point of origin of IT innovations at the interface between science and industry.



Its specialist areas of excellence are

(i) the conceptual design and implementation of intelligent IT services for knowledge work and learning in organizations and communities and

(ii) conceptual design and implementation of methods for the discovery and content based analysis of knowledge in complex knowledge spaces (e.g. text analysis and enterprise search)



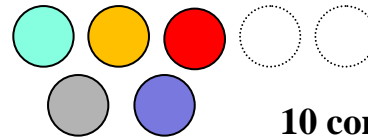
**23 company partners**

Number of scientific personnel planned: 42 FTE (thereof 12 researchers)

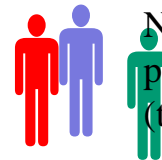
**14 mio. Euros** Federal financing for the first funding period (4 years): Start: January 2008



evolaris is the continuation of evolaris Competence Centre (founded in 2000 and then working as K\_ind center). In 2008 evolaris next level was established, following the primary goal to do research in mobile technology based systems, especially with regard to convergence with other interactive and classic media, in order to support customer relationship management in private companies and public entities. These systems are driven by new methods for the analysis of user requirements and the development of business models.



**10 company partners**



Number of scientific  
personnel planned: 30 FTE  
(thereof 25 researchers)



**16.04 mio. Euros** Federal  
financing for the first  
funding period (4 years):  
Start: April 2008

## ***ICT in Contract Research Organisations***

*There are several contract research organisations which are mainly engaged in applied research and consulting. Located in different provinces they also have a focus on ICT and cooperate with prominent industrial partners.*

**Austrian Institute of Technology (AIT):** The Austrian Institute of Technology is a limited company (GmbH) in accordance with Austrian law. It was set up by mid of June in 2009, and took over the former Austrian Research Centres. Hence, the Republic of Austria (through the Federal Ministry for Transport, Innovation and Technology) has a share of 50.46%, while the Federation of Austrian Industries owns 49.54%. AIT is the biggest CRO in Austria with a long history of applied research in various technological fields. In 2008 (per Dec. 31st) the AIT employed **853 researchers** (full time equivalents) at various locations, mainly in Vienna and Lower Austria. **ICT related research has a strong tradition at AIT**, as for instance there is a **special department on Safety & Security** doing research in areas as **intelligent video systems, highly reliable software and systems** etc.

## JOANNEUM RESEARCH Ltd. (JR):

JOANNEUM RESEARCH is the second largest CRO in Austria owned by the province of Styria (TNO, a Dutch research institution, holds a 10 % interest in JOANNEUM RESEARCH since 2004). By end of June 2011, Joanneum Research employed **442 researchers** and administrative staff. As a professional innovation and technology provider it cooperates with the business and public sector to generate new innovation and carries out application- oriented research and development projects to promote technology transfer to industry.

JOANNEUM RESEARCH also has a **long tradition in doing research in the area of ICT**. Indeed, its **Institute DIGITAL is a leading international research partner** and centre of expertise in the area of information and communication technology.

The Institute's technological and scientific basis includes **web and internet technologies, image, video and acoustic signal processing along with remote sensing, communication and navigation technologies**. These technologies are implemented in hardware and software development and in application- oriented solutions using scientifically sound methods. The research services are complemented by expertise in prototype development, project management and consulting.

## Upper Austrian Research Ltd. (UAR):

Upper Austrian Research was founded in 1999 to cluster and support R&D efforts and to promote knowledge transfer from science to the private business sector in the regional province of Upper Austria. It is fully owned by the province of Upper Austria. Traditionally, the research institution is strong in the area of ICT.. It takes an interest in the **Risc Software GmbH** (founded in 1992, developing remarkable software solutions in **logistics informatics, applied scientific computation and medical informatics**) and in the **Software Competence Center Hagenberg GmbH** (founded in 1999, funded as a K1 center since January 2008)..



## Salzburg Research Ltd.:

Salzburg Research is a contract research organisation founded in 2000, fully owned by the province of Salzburg. Today it has its major focus on **applied research and development in the field of information and communication technologies (ICT) and New Media**. It contains 7 research departments as follows: Advanced Networking Center which offers companies industry-driven, applied research services with a focus on planning, development and supervision of reliable networks, particularly stable IP networks (Internet protocol networks).

- **Knowledge and Media Technologies** (social media, content management and semantic technologies)
- **Mobile and Web-based Information Systems** (location-based information systems)
- **InnovationLab** (interdisciplinary know-how the fields of tourism, media, education and culture)
- **Salzburg NewMediaLab** (Taking Austria's content and media industry into the Future Internet by "Linked Media", digital content, social networks and structured data on the basis of semantic technologies)
- **e-Tourism** (mobile digital applications and innovation management systems for the sport and leisure industries and tourism).
- **e-Health** (improve and facilitate workflows and procedures in everyday healthcare).

## The Austrian Science Fund (FWF): Basic Research:

As the most important funding organisation for basic research the Austrian Science Fund (FWF) provides several programs covering all research disciplines. The most flexible and requested category are stand alone projects with a maximum duration of 36 months.

There are no application deadlines and the projects are, like in all FWF funding categories, evaluated by international reviewers. Besides the stand alone projects the FWF funding portfolio includes research programs such international mobility, career development for female scientists and awards and prizes, like START and Wittgenstein. On top of that the priority research programs, i.e. national research networks and special research programs, and the doctoral programs plus provide groups of excellent researchers a longterm perspective to establish research networks based on international standards and to form centres

of education for highly qualified young scientists, respectively. “Bridge” is part of basic research are the so-called translational research projects.

In **2007/2008** the FWF provided funding to **~85 projects with ICT relevance** over all funding schemes, covering a funding volume of **~21 million Euros**. Thus, **about 6%** of the total FWF budget was allocated for basic research on ICT relevant fields.

## The Institute of Science and Technology (IST) Austria:

is a new Institute dedicated to basic research and graduate education in the Natural Sciences, located in Klosterneuburg (outskirts of Vienna). IST Austria is committed to become a world-class research center offering, by 2016, an international and state-of-the-art environment for approx. 500 scientists and doctoral students.

In autumn **2011 18 research groups are active at IST Austria; seven out of 18 have an explicit focus on ICT**, focused on formal verification and participating in a national research network (NFN – Nationales Forschungsnetzwerk) on “Rigorous Systems Engineering” funded by the Austrian Science Fund FWF.

Other fields of interest in ICT at IST Austria are **computational geometry, computer vision, machine learning, computer graphics** and **cryptography**.

**Three** researchers received an **ERC Grant**: Thomas Henzinger (Advanced Grant, 2010), Krzysztof Pietrzak (Starting Grant, 2010), and Krishnendu Chatterjee (Starting Grant, 2011). In addition, Chatterjee was awarded with a Microsoft Research Faculty Fellowship.

## **Christian Doppler Laboratories**

The Christian Doppler Research Association (CDG) is a non-profit association which aims at promoting development in the areas of natural sciences, technology and economy as well as the economic implementation and utilisation of research results. Christian Doppler Laboratories (CD Labs) are organised at universities as public-private partnerships between industry (private corporations) and research institutes for a maximum of seven years. They support application-oriented basic research and enable talented scientists in renowned research centres to achieve high-quality research and knowledge transfer in line with the demands and to the advantage of the CDG member companies.

### **Currently there are six CD laboratories specialised in ICT:**

- *Automated Software Engineering*

University: Johannes Kepler University Linz

Partner: 3 industrial companies

Founding year: 2006

Number of employees: 12 (2008)

- *Contextual Interfaces*

University: University Salzburg

Partner: 2 industrial companies

Founding year: 2009

Number of employees: 6 (2009)

- *Embedded Software Systems*

University: University Salzburg

Partner: 1 industrial company

Founding year: 2007

Number of employees: 7 (2008)

- *Handheld Augmented Reality*

University: Graz University of Technology

Partner: 1 industrial company

Founding year: 2008

Number of employees: 6 (2008)

- *Non Linear Signal Processing*

University: Graz University of Technology

Partner: 2 industrial companies

Founding year: 2002

Number of employees: 16 (2008)

- *Wireless Technologies for Sustainable Mobility*

University: Vienna University of Technology

Partner: 4 industrial companies

Founding year: 2009

Number of employees: 10 (2009).

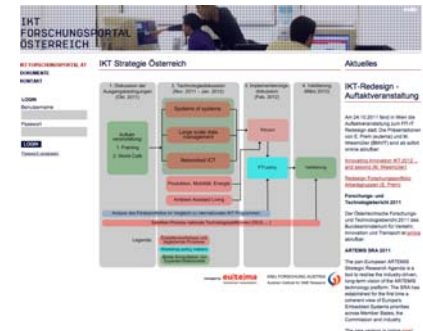
**Next steps...**



## ... towards the management of themes...

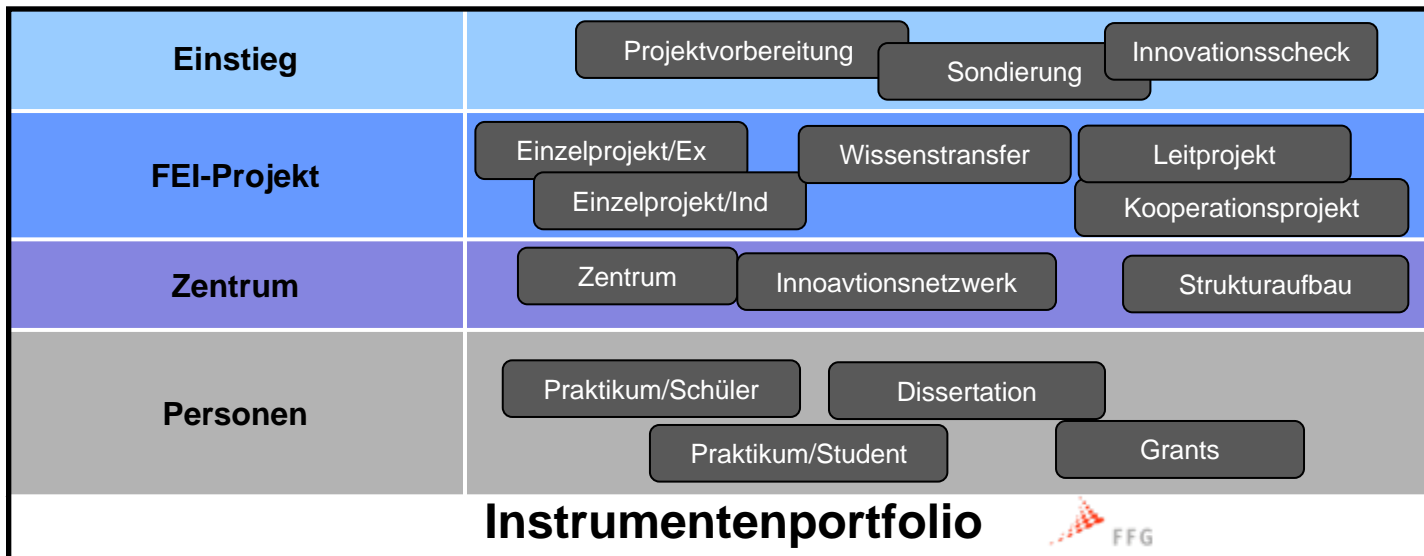
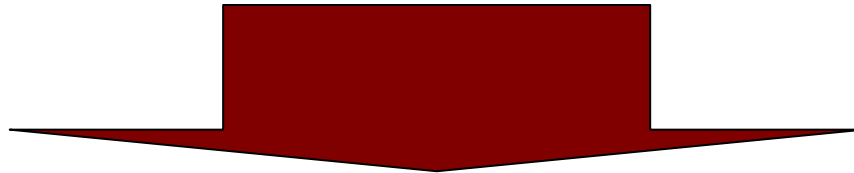
*Managing a theme (instead of a program) means to **mobilise all available instruments** of public intervention in order to address a challenge in a more coherent and comprehensive manner.*

- Building blocks of management of themes are:
  - Direct RTDI-funding (classical programmes such as FIT-IT, Benefit, ARTEMIS...)
  - „soft“ measures: Networks, Innovation Platforms, Technologytransfer...
  - Cross Policy Co-ordination (f.ex. Education, Environment, Health, Energy)
  - International anchorage/linkage
  - Regulation
  - Public Procurement
  - Tax incentives
  - .....

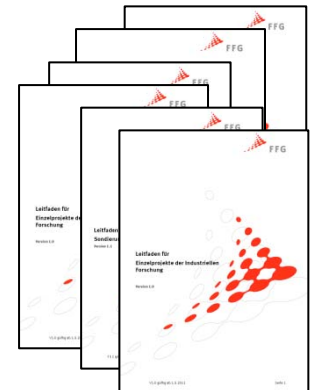


## Strategische IKT-Themen Kohärente ziel- und wirkungsorientierte IKT-FTI Maßnahmen

illustrativ

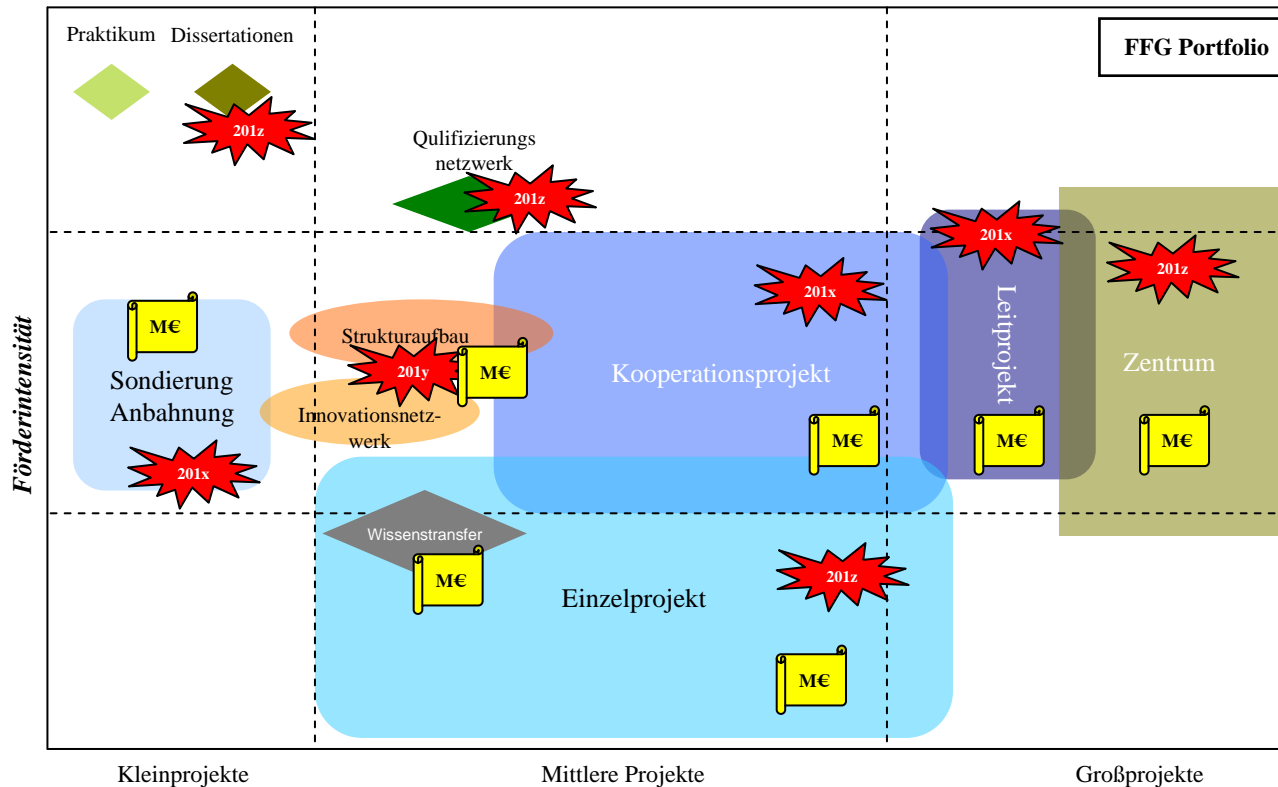


Leitfäden  
Standardisierte  
Instrumente



**Großer Designraum für strategische Intervention**

## Strategisches IKT-Thema A Implementierung Ausschreibungsinhalte:



+

### Non-F&E Maßnahmen:

- Netzwerkbildung
- Plattformen
- öffentliche Beschaffung
- Regulierung
- Standards
- VC
- T-Transfer
- Internationale Verankerung
- Ausbildung
- ...



**Conclusions...**

# Some findings...

- Austria is equipped with a (too?) highly differentiated RDTI system wrt ICT
- Very strong footprint in intern. programmes (ICT, JTI's JP)
- Currently: deep modifications in national Innovation and Funding System (incl. redesign of ICT-programms)
- Megatrends in Austrian RTDI-Policy:
  - Consolidation of landscape of instruments and policies
  - Increasing linkage btw. national and international
  - „From RTD to Innovation“/ „Bridging Death Valley“ / ROI
  - Performance Budgeting
- Readiness for Horizon 2020 and new Europ. ecosystems



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FIT-IT



programm  
benefit



AAL  
AMBIENT ASSISTED LIVING



eniac  
JOINT UNDERTAKING



ATRENE  
Safety, Quality and Technology Research for the Road



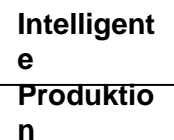
ARTEMIS



COMET  
Competence Centers for  
Excellent Technologies  
ITEA 2  
INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT



Information Society



Intelligent  
e  
Produktion



FFG