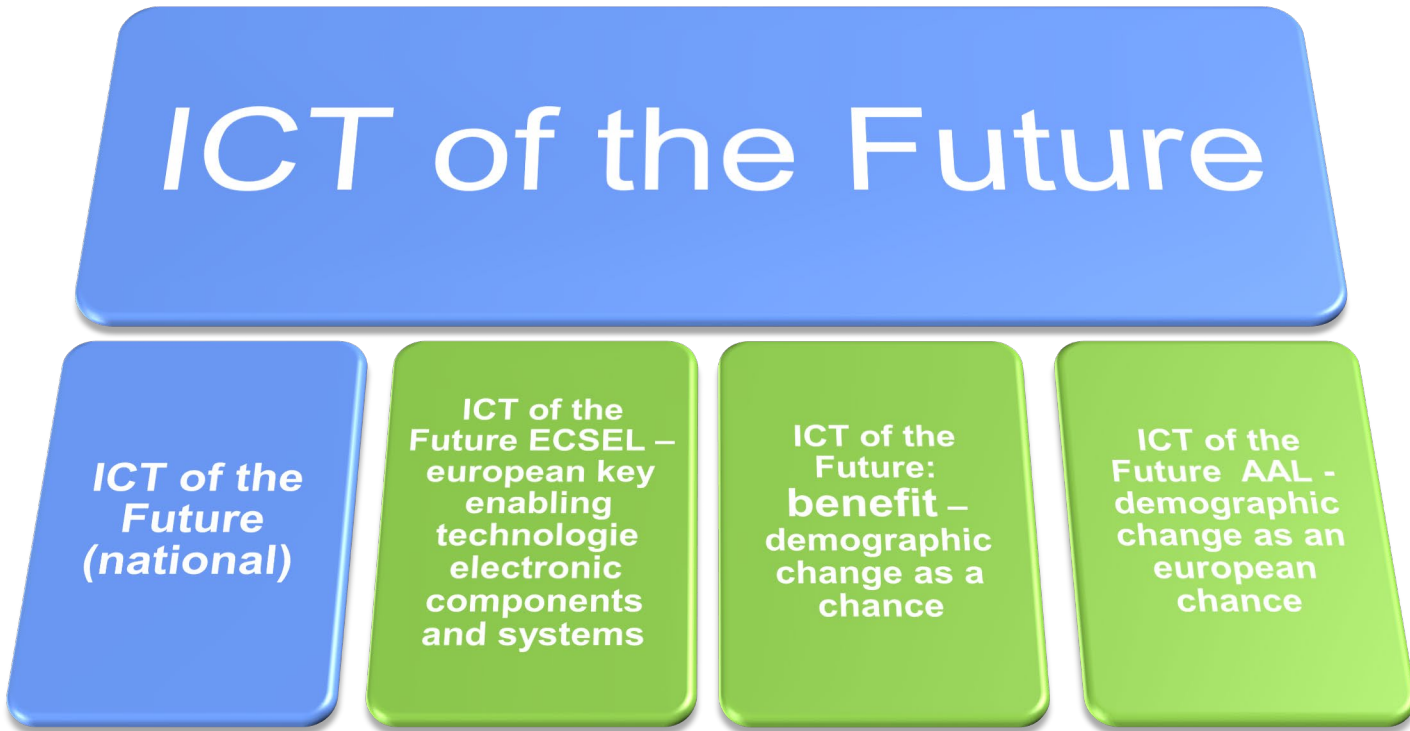Peter Kerschl / Programme Manager ICT

FUNDING OPPORTUNITIES FOR IN THE NATIONAL FUNDING PROGRAMME ICT OF THE FUTURE

14.11.2019, TU Vienna

FFG
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ICT OF THE FUTURE

4 ICT THEMATIC FIELDS

- A) Mastering complex ICT solutions: **systems of systems**
  - Rigorous systems engineering
  - Adaptivity and evolution
  - Autonomy
- B) Justifiying trust: **safe and secure systems**
  - Safety & security by design
  - Usable security
  - Ubiquitous security

- C) Conquering data: **intelligent systems**
  - Search and analytics
  - Semantic processing
  - Cognitive systems
- D) Ensuring interoperability: **interfaces of systems**
  - Interface concepts
  - Compatibility
  - Technologies and tools for interfaces

ICT of the Future is the support programme of the federal ministry for transport, innovation and technology (BMVIT) for the promotion of challenging technology development and innovation in ICT, interlinked with application fields and societal challenges.
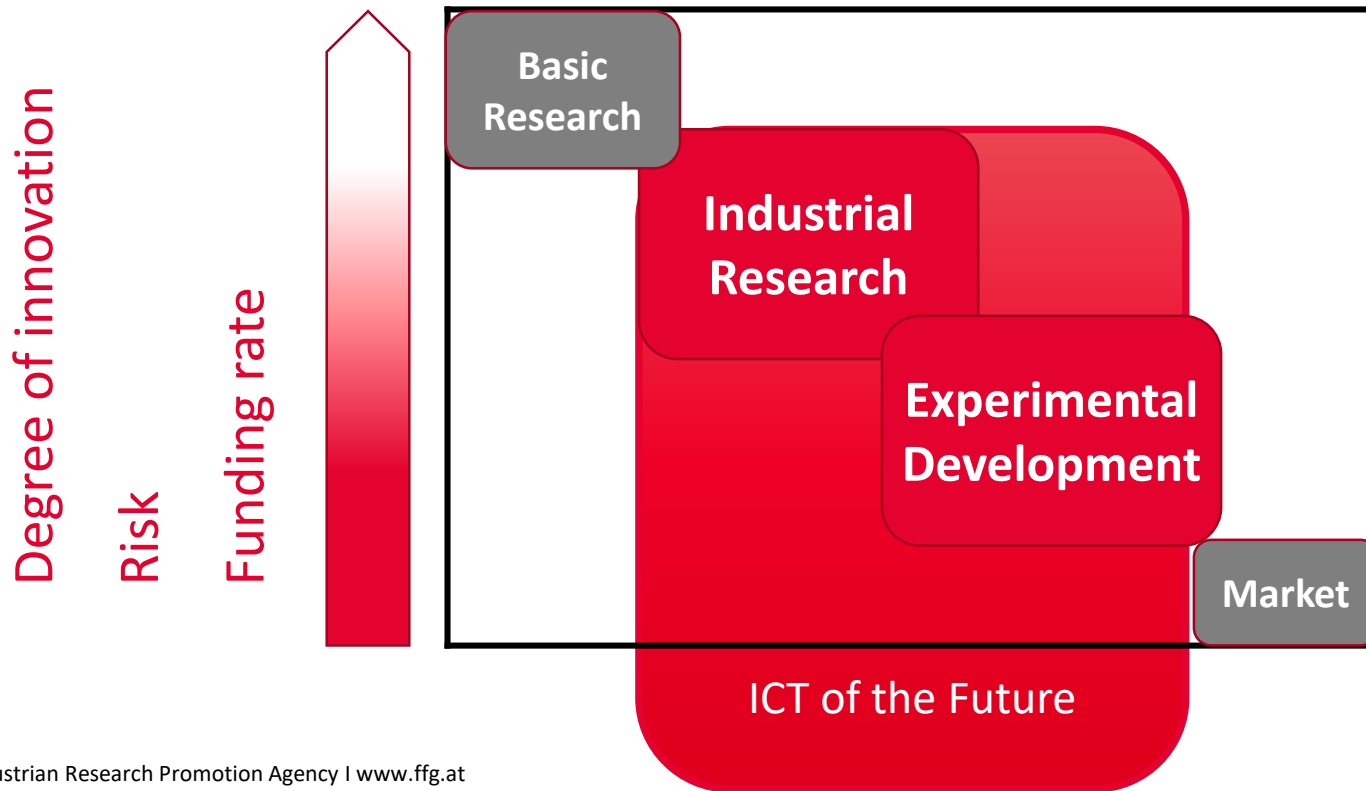
objectives of the programme

+ Develop lead technologies

+Achieve lead positions in competitive markets

+ Establish and extend a lead position as a location for research

+ Train and attract lead researchers

MAIN FUNDING INSTRUMENT: COOPERATIVE RESEARCH & DEVELOPMENT PROJECT

- Cooperative research and development (R&D) projects are collaborations of several consortium partners working together on a common project with defined R&D goals.

- At least one company together with another partner

- Funding per project: 0.1 up to 2 Mio €

- Duration: max. 36 month

- Participation of foreign partners is possible, but restricted

- Funding rate depends on type of organisation, size and research category: 35% up to 85%

FUNDABLE RESEARCH CATEGORY: MAINLY INDUSTRIAL RESEARCH

Degree of innovation

Risk

Funding rate

Basic Research

Industrial Research

Experimental Development

Market

ICT of the Future

2 CALLS ARE OPEN RIGHT NOW

8th Call of ICT of the Future 2018

deadline: 23rd March 2020,   ca. 6 Mio € available

MatchMaking event on 4th of December in Linz

Call for R&D-Services

deadline: 23rd March 2020, ca. 140 000 € available

    Challenges for AI in Media

    Challenges for AI in agriculture

2 BILATERAL CALLS ARE IN PREPARATION

R&D-Projects with german partners

information event on 22nd of November in Berlin

topics:

    Artificial Intelligence

    Smart Data economy

    ICT-thematic fields: Systems of Systems, Safe and Secure Systems, Intelligent Systems, Interfaces of Systems

GOALS OF THE 8TH CALL

- Working on a technical research challenge

- in (at least) one ICT Thematic field

- using proper research measures

- to contribute to the enabling of the user

- according to cooperative-creative ecosystems

CALL TOPIC

- Ecosystems for interdisciplinary information and communication technology
  - The key to a desired scenario of the future is seen in the building of a
  - **flexible cooperative-creative ecosystem**
  - in which a variety of different players work together

ECOSYSTEM

- open, inclusive frame

- project partners of different disciplines and areas

- cooperative creation of common ideas and projects

- developing in close relationship

- principles of such an ecosystem:

  - interdisciplinarity, oriented by the demands, opennes, transparency, inclusion, diversity, enabling, social responsibility, self awareness, new educational ways, and in total responsibility for technological impact with respect to the individual and the enivronment

EXEMPLARY AREAS OF POSSIBLE TECHNICAL CHALLENGES (NOT EXCLUSIV, I)

- trustworthy systems
  - encryption
  - universal identification
  - specific components for privacy
  - transparent data transfer

- intelligent systems:
  - explainable AI
  - autonomous and adaptive ICT-solutions by using AI
  - Identification and removal of bias in data acquisition

- integrated sysems
  - smart, small systems to minimize interfaces
  - Increasing efficiency by using edge- and fogcomputing
- architectures
  - peer to peer systems
  - distributed and adaptive networks
  - modular and scalable solutions
  - SW develpoment methods for complex demand in the furture

EXEMPLARY AREAS OF POSSIBLE TECHNICAL CHALLENGES (NOT EXCLUSIV, II)

- User aspects
  - User interfaces and design of interaction
  - Usability of (Social-)Media
  - Usage for virtual and advanced reality (VR and AR)

HORIZONTAL GOALS

- **Human-Centered Design**
    - contribution of user in th research
    - consideration of ethical aspects in all phases of the project by all partners
    - considering accessability and availability of the solution
- Responsible use of resources
- Conscious use of R&D data
- European dimension

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8TH CALL OF ICT OF THE FUTURE

	Call topic	Funding	max. Funding rate
	Ecosystems for interdisciplinary information- and communication technology	6 Mio €	85,00 %

Submission date and language	Project format
• Deadline for submission: 23. March 2020 12:00:00 (noon) • Language: englisch	• Cooperative R&D-Projects • Research category: Industrial Research • At least one company • max. applied funding: 2 Mio € per project • Max. duration of a project: 36 month

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