German Research Priorities and funding aspects

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Funding Priorities

IT Security

- IT security for critical infrastructures
- Technical focus: Work program IT security research
- Secure cloud computing
- Safe and Secure European Routing (SASER)
- Quantum communication
- Applications: Industries 4.0, Medicine, Automotive, …
- Competence centers for IT security research

Digital Life

- Privacy and self-determined living in a digital world
- Internet Privacy
- Linking social developments with technological solutions

Communication

- Reliable wireless communication for industrial applications
- Cognitive radio
- Mobile communication
- Photonic communication networks
- Internet-based services
- Future applications

BEAUFTRAGT VOM

Bundesministerium
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BMBF advices for Celtic Proposers

- <u>Topics and consortia with European relevance and impact</u>
  e. g. Safe and Secure European Routing (SASER)
- <u>IT Security Research</u>
  Research and development of technologies, methods, and services
  to protect citizens, companies, and public authorities against cyber-
  attacks
- Research that <u>link communication systems and IT security aspects</u>
- <u>No exclusive focus on infrastructure aspect</u>
  such as more bandwidth, faster communication
- Developing solutions for <u>future challenges</u>
- Bringing together <u>research and economy</u>
- Incorporate <u>interdisciplinary approaches</u>

- *To avoid unsuccessful steps: it is strongly recommended to contact
  the project management agency previous to submission*

Criteria for submissions

- Societal relevance of the research goals
- Technical and scientific quality of the approach
- Level of innovation
- Economic potential
- Appropriate qualification and composition of the partners
- Appropriate project management structure
- Exploitation for German partners in Germany (market perspective also for Germany)
- Assessment of risk (risk is condition for funding)

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Vielen Dank für Ihre Aufmerksamkeit

Informationen zu den Projekten:

www.vdivde-it.de/KIS

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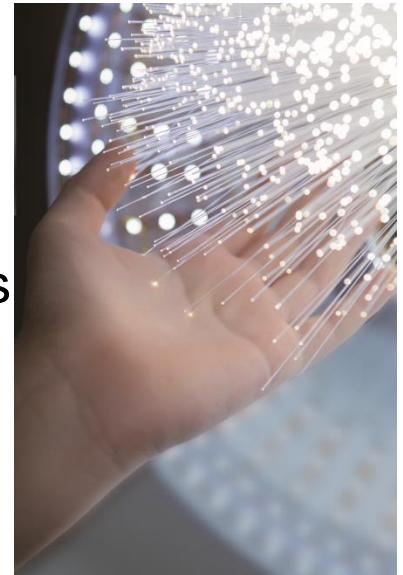
Celtic-Plus Project:

Safe and Secure European Routing (SASER)

Challenges

- Shifting routing functionality to optical layers
- Higher reliability by using virtualized networks
- Virtualized network controller protection
- Increased security by optical encryption methods
- Supporting independent European technology
- Separation of user data and control data

34 partners from Germany; 29 partners from France, Finnland, Denmark and Great Britain