



INNOVATION SYSTEMS & DIGITALISATION

New innovation models such as open innovation, crowdsourcing, business model innovation or frugal innovation as well as the increasing internationalisation of R&D are indicators for the ongoing change of the innovation process. Based on an analysis of the innovation and investment behaviour of different actors of the innovation systems we deliver the base for the development of effective strategies to exploit the opportunities of new forms of innovation.

Based on the innovation systems approach and frameworks for the technological change we investigate the transformation of industrial sectors and develop strategies to support transitions. Amongst others we are interested in sectors such as information and communication technologies (ICT), knowledge-intensive services, machinery and the automotive industry. The role of universities and research organisations within innovation systems and different mechanisms for knowledge transfer is analysed, too.

The analysis of innovation systems and changing innovation patterns allows us to develop research and innovation strategies for RTI policy makers, knowledge-based organisations and

research promotion agencies. Thereby we examine the consequences of the transformation of research and innovation processes due to new forms of knowledge production between academia and industry, the internationalisation of research and development, social innovation, and open innovation.

The analysis of innovation systems and new forms of research and innovation has a strong empirical focus: We apply a range of different methods such as surveys, case studies and the analysis of innovation indicators which are combined within the projects.

For the development of strategies to support the definition of research priorities we apply methods such as roadmapping and analysis and analyse innovation indicators. In addition, we analyse and develop indicator-based systems such as Intellectual Capital Reporting systems for funding, controlling and reporting R&D and innovation.



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