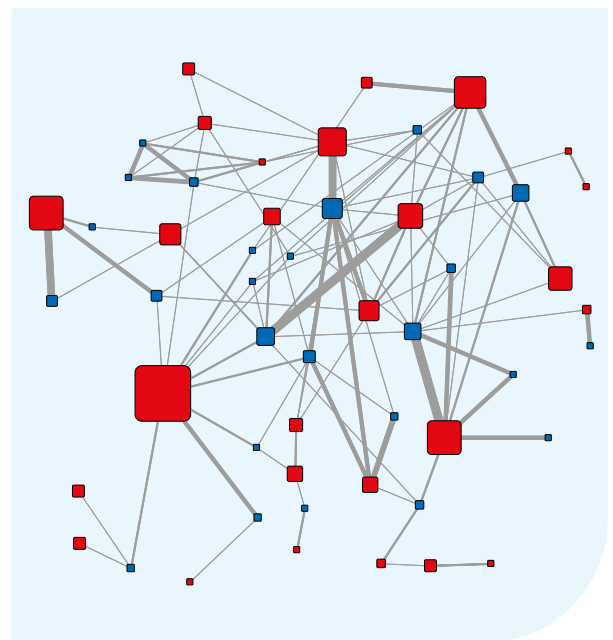
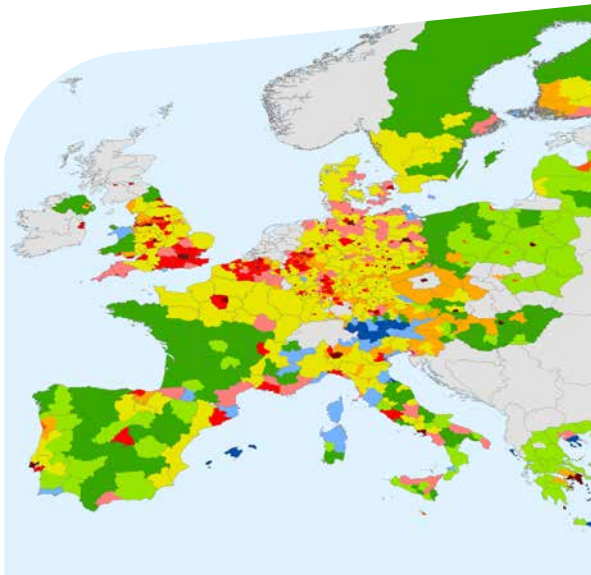


POLICIES

Institute for
Economic and Innovation Research



POLICIES supports its customers through empirical research in economic, technology and innovation policies and business innovation processes. We provide the evidence basis on which strategies can be formulated, effects evaluated and new actions taken.

Our aim is to contribute to effective and efficient actions by government, the better development of the national and regional economy and increases in the competitiveness of enterprises.“

Wolfgang Polt



Contact

JOANNEUM RESEARCH
Forschungsgesellschaft mbH

POLICIES

Institute for Economic and
Innovation Research

Leonhardstraße 59
8010 Graz

Phone +43 316 876-1561
Fax +43 316 876-1480

policies@joanneum.at
www.joanneum.at/en/policies

JOANNEUM RESEARCH
Forschungsgesellschaft mbH

POLICIES

Institute for Economic and
Innovation Research

Haus der Forschung
Sensengasse 1, 1090 Vienna

Phone +43 1 581 7520
Fax +43 1 581 7520-2820

policies@joanneum.at
www.joanneum.at/en/policies

JOANNEUM RESEARCH
Forschungsgesellschaft mbH

POLICIES

Institute for Economic and
Innovation Research

Lakeside B08a, GF
9020 Klagenfurt/Wörthersee

Phone +43 316 876-7553
Fax +43 316 8769-7553

policies@joanneum.at
www.joanneum.at/en/policies

POLICIES

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for successful, evidence-based decisions in policies and enterprises.

The Institute for Economic and Innovation Research supports customers from the public sector and private businesses through consulting, planning and evaluation in the following fields

- technology and innovation strategies,
- funding programmes and policies,
- regional location assessment and development,
- innovation projects in companies.
- data-based innovation projects in companies.



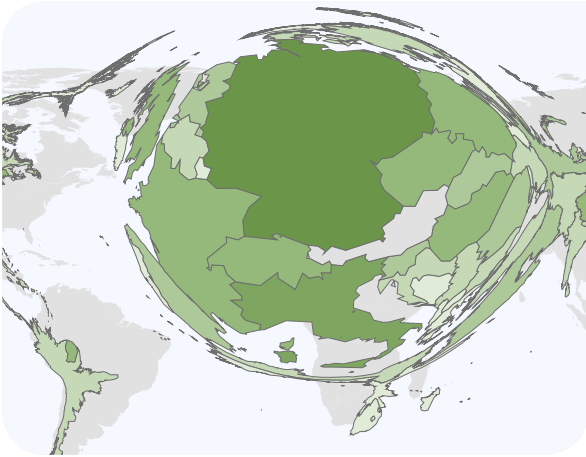
We apply our empirical and methodical expertise in projects providing economic, scientific and statistical support during the development of innovation strategies and policies but also of concrete technologies and products. For example, we examine the innovative behaviour of companies, evaluate the effects of policy measures, assess regional growth potential or investigate the gender-specific access to and impact of scientific and technological developments.

In the course of our activities, we strive to adhere to high principles of research ethics such as impartiality, objectivity and transparency. For us, 'Responsible Research and Innovation' does not only refer to the object of research but also serves as a guiding principle for our research practice. We can point to a large portfolio of projects and successful work spanning many years in collaboration with regional, national and international customers and partners. Our customers include international organizations such as the European Commission, the OECD and clients from Germany, Switzerland and the Nordic countries. We perform research on behalf of all important national players such as federal ministries, funding institutions and advisory bodies as well as many states and municipalities. We are also the cooperation partner for a range of highly innovative companies in Austria.

Research groups

- Technology, Innovation and Policy Consulting
- Data Analytics and Statistical Modelling
- Regional Economy and Structural Policy

POLICIES – for successful, evidence-based decisions in policies and enterprises.



Technology, Innovation and Policy Consulting

The research group Technology, Innovation and Policy Consulting stands for forward-looking analysis, development of new policies and for critical reflexion of research, technology and structural policy on a solid empirical foundation. We are a development partner for institutions from the public sector, international organizations and enterprise partners and develop target-oriented empirical bases and new theoretical and conceptual approaches. The research group regards itself as a partner providing conceptualization, consultation and critical reflection. The research group Technology, Innovation and Policy Consulting aims to strengthen its competencies and instruments within an international network of partners in a complementary fashion.

Mission Oriented Policies (MOP): We support the EU Commission and the Federal Ministry of Transport, Innovation and Technology in the strategic development of mission-oriented research, technology and innovation policy.

European Tertiary Education Register (ETER): We are responsible for the collection and provision of data for the European university register on behalf of the EU Commission.

The central areas of activity are:

Empirical scientific, technology and innovation research

- **Indicator development**
and indicator-based **policy analysis**
- **Research and innovation economics based on microdata analysis** of data from companies, institutions of higher education, the job market and regions as well as scientific and patent data
- **Empirical impact analyses**
of policy measures
- **Analysis of long-term development trends**
and specialization patterns of national, regional and sectoral innovation systems

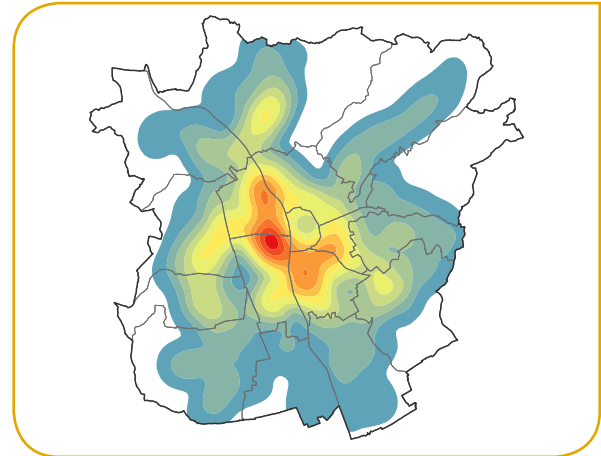
Systemic advice, development and evaluation of measures

- **Development of evaluation and monitoring systems**
- **Evaluation of policies, institutions and programmes** in regional, national and supranational innovation systems
- **Socioeconomic impact assessments**

Innovation and development of human resources

- **Analysis and design** of gender, diversity and user aspects in innovation processes
- **Analyses** of individual professional career paths and their institutional and political contexts
- **Designing measures** to strengthen human resource potential in R&D and measurement of their effects on equal opportunities

Evaluation of the Federal Ministry of Education and Research framework programme for health research in Germany, contribution of the EU framework programme to major innovations, impact evaluation of the EUREKA programme: With international partners, the research group evaluates research programmes and provides solid contributions to the further development of existing policy instruments and the orientation of new policy instruments.



Data Analytics and Statistical Modelling

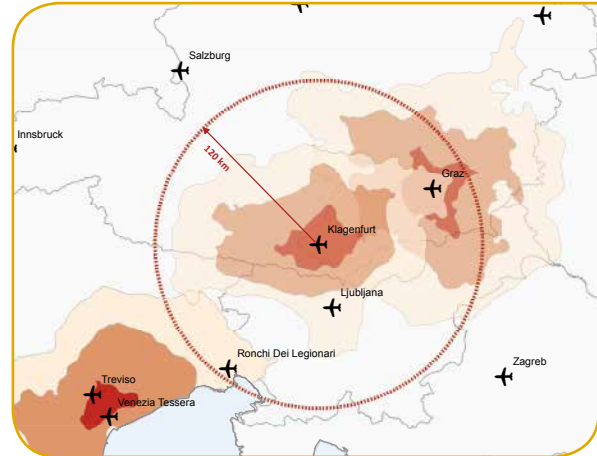
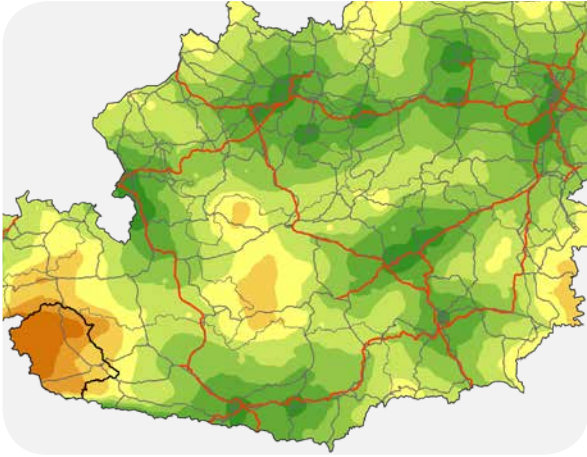
Data analytics and statistical methods provide new insights, objective decision-making bases and a tool for more efficiency in product and process development for companies both in regard to service and technical usage and offer public clients better and empirically well-founded recommendations for action. The research group Data Analytics and Statistical Modelling provides methods and analysis tools for optimising technical and economic systems as well as processes and products, which result in increased cost-benefit efficiency and quality as well as general evidence-based decision-making. Based on specific expertise in statistical modelling, data analysis methods and simulation techniques combined with many years of experience in practical problem-solving, the research

group develops decision-making bases and optimisation approaches for clients from the economic and administration sector with the following focal points:

- Systems analysis and project conception
- Statistical Design of Experiments (DoE) and survey planning
- Optimisation of products and facilities in the design phase
- Data analytics, modelling and optimisation of processes for Industry 4.0
- Development of soft sensors (virtual metrology)
- Lifetime and reliability prediction
- Condition-based maintenance planning (predictive maintenance)
- Development of customer-specific predictive models (predictive analytics)

Predictive maintenance: Statistical models for condition-based reliability and lifetime prediction have been developed within the context of multiple research projects, which, in further consequence, can be integrated in a system for predictive maintenance and thus lead to early fault detection, time to failure prediction, maintenance scheduling and resource optimisation.

eRamp: POLICIES heads a work package within the framework of eRamp, one of Europe's most important research projects on energy efficiency, and conducts research on statistical models for predicting reliability and yield during the development of new power semiconductors. The project's duration is three years and its budget is 55 million euros.



Regional Economy and Structural Policy

The development and evaluation of regional and structural policy requires sound scientific foundations. Land management, the regions, human beings, work and the economy in the regions and the interplay between centre and periphery and the resulting opportunities and challenges are at the focus of the research group Regional Economy and Structural Policy. A combination of precise – geographically defined – quantitative economic information, the consistent analysis and interpretation of which produces relevant knowledge and added value for our customers. The focus here is on instruments which by forcing innovation are capable of making a direct contribution to growth and employment.

- **Creation of monitoring systems for regional economies**
- **Analysis** of all the fundamental and economically relevant indicators (on economic development, regional job markets, migration and demography) **with the highest possible degree of spatial resolution**
- **Econometric methods and quantitative analyses**
- The preparation of long- and medium-term regional projections of **employment, the job market and population based on quantitative data**
- **Location analyses:** future challenges, opportunities and recommendations for actions

WIBIS: The project WIBIS (Economic Reporting and Information System) has been conducted and continually improved for almost 20 years. This unique, publicly accessible collection of regional data provides information to political decision-makers for promoting more efficient regional economic and structural policies. Regional analyses, economic forecasts and economic reports round off the portfolio.

KRIOPT investments from third countries to Austrian companies may entail security and economic-policy risks. Intervention options as well as motives of foreign investors for investing in key companies are discussed within the context of KRIOPT. An expanding framework of measures is to protect critical infrastructures.

Contacts

Director



Wolfgang Polt

Sensengasse 1
1090 Vienna
Phone +43 316 876-7001
wolfgang.polt@joanneum.at

Leonhardstraße 59
8010 Graz
Phone +43 316 876-7002

Technology, Innovation and Policy Consulting



Michael Ploder

Head of Research Group
Phone +43 316 876-14 77
michael.ploder@joanneum.at



Dr Helene Schiffbänker

Deputy Head of Research Group
Phone +43 1 581 7520-2826
helene.schiffbaenker@joanneum.at

Data Analytics and Statistical Modelling



Hermann Katz

Head of Research Group
Phone +43 316 876-15 53
hermann.katz@joanneum.at



Ulrike Kleb

Deputy Head of Research Group
Phone +43 316 876-15 55
ulrike.kleb@joanneum.at

Regional Economy and Structural Policy



Eric Kirschner

Head of Research Group
Phone +43 316 876-14 48
eric.kirschner@joanneum.at



Andreas Niederl

Deputy Head of Research Group
Phone +43 316 876-14 91
andreas.niederl@joanneum.at

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Forschungsgesellschaft mbH

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