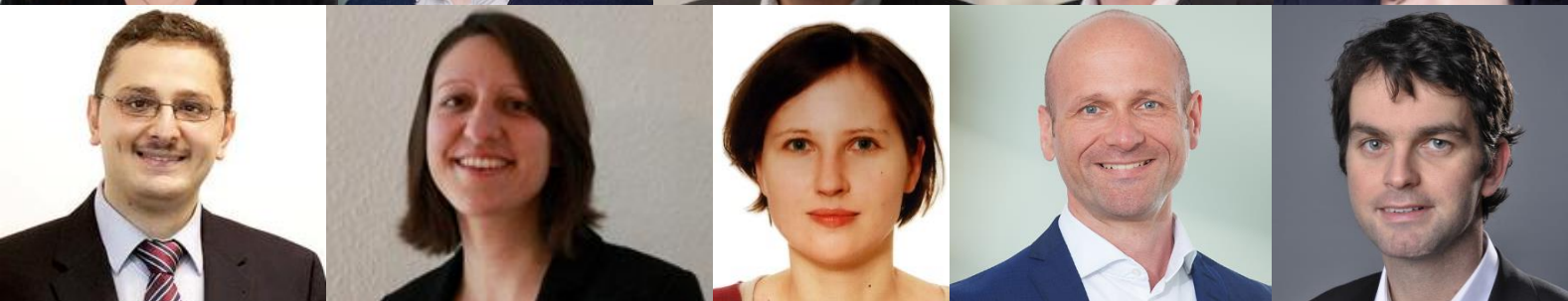


Five Years at the University of Bremen

April 2014 to March 2019



Pictures on the cover page (from left to right): Björn Jindra (leading scientist), Muhamed Kudic (leading scientific employee, Postdoc), Katharina Friz (scientific employee, doctoral candidate), Tobias Wendler (scientific employee, doctoral candidate), Jessica Birkholz (scientific employee, doctoral candidate), Philip Kerner (scientific employee, doctoral candidate), Jarina Kühn (scientific employee, doctoral candidate), Mariia Shkolnykova (scientific employee, doctoral candidate), Matheus Eduardo Leusin (scientific employee, doctoral candidate), Marcel Lange (IT specialist, technical assistant), Aline Tchaparian (team assistant, apprentice), Maria Kristalova (former scientific employee, doctoral candidate), Marion Cornelia Schwärzler (former external doctoral candidate), Jutta Günther (professor), Nerina Guri (former visiting researcher), Toby Law (scientific employee, doctoral candidate), Torsten Heinrich (Privatdozent), Patrick Wolf (external doctoral candidate), Nora Albu (external doctoral candidate), Mahmood Shubbak (former scientific employee, doctoral candidate), Annette Meyerhoff (external doctoral candidate), Enno Röben (external doctoral candidate), Gero Stenke (external lecturer), Philipp Marek (former scientific employee, doctoral candidate), Daniel Töbelmann (external doctoral candidate), Judyta Lubacha-Sember (former visiting international PhD student), Maciej Grodzicki (former scientific employee, postdoc), Anastasia Tceluiko (former visiting international PhD student)

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Starting point, outcomes, and prospects



Starting Point

In the year 2014, Jutta Günther, together with Iciar Dominguez Lacasa, Björn Jindra, and Philipp Marek from the Leibniz Institute for Economic Research in Halle (IWH), joined the Faculty of Business Studies and Economics at the University of Bremen. Together with Marcel Lange (IT specialist), we joined forces to continue and expand our research in empirical innovation and structural economics as well as to teach and to support young researchers' careers.

Thereupon, further members joined the team: Mahmood Shubbak, Maria Kristalova, and Tobias Wendler represent the “first generation” of PhD candidates. Since then, the group has grown continuously based on numerous activities in research and teaching. Today, we work as an international team of about 20 members. Our passion is scientific research, mostly in the fields of transition, structural change, and innovation as well as internationalization, digitalisation, and ecological sustainability. The working group is part of the Institute for Economic Research and Policy (ierp) as well as the Research Group "Diginomics – Digitalisation, Economy & Society" within the Faculty of Business Studies and Economics. We enjoy being part of a large international network of colleagues and friends with whom we cooperate intensively in research and teaching.

We thank the University of Bremen and the Faculty of Business Studies and Economics for having us!

Outcomes and highlights in brief

Three doctoral graduations • two postdoctoral graduations (Habilitationen) • two appointments to professorship positions • 31 publications in international refereed journals and 18 further publications • more than 30 mostly international guests of the working group in Bremen • ten research visits of team members abroad • 1.91 million Euros third-party funding of finished and ongoing projects • 2.14 million Euros third-party funding currently under review • a number of fellowships and prizes awarded to members of the group • more than 60 seminars and lectures for students • supervision of around 50 final theses of bachelor and master students • three apprentices in vocational training • launch of the INNcentive program for young innovation researchers • organisation of 12 international conferences and workshops • there was often “time to celebrate” successes

Prospects

In the future, we will stronger engage in scientific cooperation with other faculties at the University of Bremen, such as the Bremen International Graduate School of Social Sciences (BIGSSS) on socioeconomic topics related to the Mod-Block-DDR project and the engineering sciences on innovation in the energy sector and socio-technical systems.

In this context, we will further on focus on third-party funded projects related to transition, structural change, digitalisation and innovation. Promising proposals have been submitted to the German Research Foundation and the Humboldt Foundation. A consolidator grand has been applied for at the European Research Council.

Another important future activity will be the further development of the “Bremen Research and Policy Lab” (BreLAB) within the Faculty of Business Studies and Economics. Under the coordination of Jutta Günther, BreLAB has been initiated recently as a unique combination of a conventional experimental laboratory and a policy lab. The founding team includes seven research groups of the Faculty of Business Studies and Economics covering different areas in business studies and economics. The policy lab is designed to engage in methodically new approaches to participatory research including simulation and experimentally based system as well as policy analyses.

Research

Research areas

The working group "Innovation and Structural Change" is dedicated to theory-led empirical research in four major research areas, which are worked on in teams. A large number of the projects in these four areas are financed by third-party funds and are carried out with cooperation partners in Germany as well as abroad. The promotion of young scientists plays an important role in all areas of our research.

Research area 1: System Transformation and Structural Change



The collapse of socialism was accompanied by a radical break within the system and a complete transformation of the economy, science, administration and society. As a result, the former socialist countries underwent massive structural change. However, the legacy of the socialist past is still visible today, and the early phase of transformation set the course for today's level of development. The long-term economic consequences of such a massive system transformation can only be thoroughly researched today - 30 years after the fall of communism. We devote ourselves to this task with a special focus on technological progress and the innovation systems of the countries and regions concerned. Regional inequalities, the effects of state funding and, last but not least, the role of socio-institutional factors, which are still effective today, play a major role in the work of this research area.

At present, the Mod-Block-DDR research network, which is funded by the BMBF (3 million Euro), is coordinated in this research area and worked on with three partner universities in Germany and a number of further international cooperation partners.

Research area 2: Internationalisation and Digitisation



Globalization and the digital transformation are also massively changing research and innovation processes. Multinational companies with their numerous international locations, increasingly complex technologies, global competition for the best ideas and the technological catching-up of emerging markets are essential aspects and challenges to which we are dedicated in this area. The research is based on quantitative studies using microdata.

In this research area, a third party funded project was successfully completed in the year 2017, dealing with innovation in emerging economies. Currently, the work of this research area contributes to the group "Diginomics" of the Faculty of Business Studies and Economics of the University of Bremen. In this context, we focus on the topic "Global competition for technological leadership in the field of artificial intelligence".

Research area 3: New Technologies and Innovation Networks



Innovations can be the result of individual actors in the sense of "entrepreneurship". But cooperation between companies and other actors, which ultimately form complex network structures, also produces innovations. In this thematic focus we deal with both perspectives - entrepreneurship activities and innovation networks. In doing so, we take a systemic perspective as a basis and examine the creation and dynamic change of innovation networks and how networks influence economic performance at the micro, meso and macro levels. In addition, we investigate the emergence and change of fields of technology, for example the role of radical innovations or innovation policy support initiatives. The geographical dimension plays an important role in all our analyses. From a methodological point of view, we use empirical, experimental and simulation-based methods to understand innovation processes and provide recommendations for innovation and technology policy.

Currently, the projects B2B Future, Neo-Indicators and VISIBLE 2.0, which are funded by third parties, are carried out in cooperation with our research partners.

Research area 4: Sustainability, Energy and Environmental Innovations



The achievement of climate policy goals and ecological sustainability are embedded in a social and economic context. Climate and environmental policy measures are drivers of structural change and represent a global challenge. In this thematic area, the working group addresses a number of questions on this area of contention: What is the potential of "green technologies" to reduce resource use and greenhouse gases? Are environmental impacts reduced or merely shifted? What influence does structural change have on resource use? Which social factors contribute to companies developing and using environmentally friendly technologies? In this thematic area, indicators for measuring environmental innovations based on patent data are developed and applied in empirical-quantitative studies at the level of countries, regions and individual actors.

IT and data infrastructure



The empirical research focus of the working group "Innovation and Structural Change" is supported by a state-of-the-art data infrastructure. This unit is constantly evolving in close cooperation with the respective research areas' original procedures and datasets. Given the increasing size and complexity of data in economic research, this area is closely associated with our cutting-edge scientific contributions. The unit provides different services, including information about and facilitating access to various large databases provided by the library of the University of Bremen. This furthermore entails maintaining an IT infrastructure for the working group and regularly updating specific databases subscribed to by the working group. Apart from this, the unit is also employed in organizing user workshops dedicated to public (e.g. Eurostat) and commercial data sources (e.g. Bureau van Dejik) for researchers at the Faculty of Business Studies and Economics. Lastly, it concerns itself with the development of software applications, indicators, and the delivery of specific datasets for research purposes. The unit has developed specific expertise in the development of patent-based indicators, extensive firm-level data, and network data.

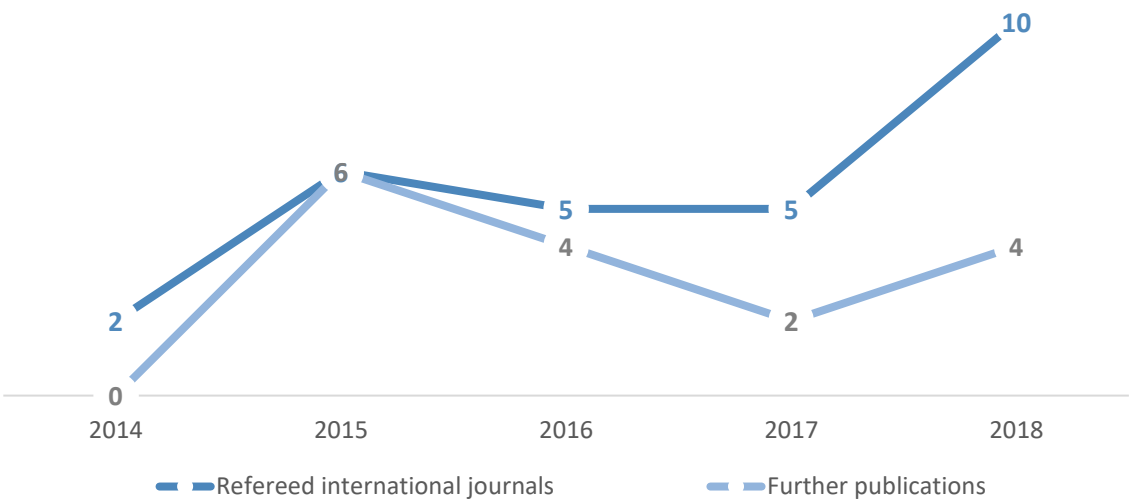
Publications

We publish most of our research results in peer-reviewed international journals. Since the year 2014, 31 articles have been published in this type of journals, many of them subject related rather than general economic journals, such as Research Policy (3), Regional Studies (2), Journal of Common Market Studies (1), or Economic Systems (1). We appreciate journal rankings as an important point of orientation about scientific quality, although not as an ultimate criterion.

The publication strategy of the working group goes hand in hand with the third-party funding strategy and the objective to promote young researchers. Publications are mostly a result of our activities in third-party funded projects in which at the same time young scientists are employed working side by side with experienced researchers during her career. The doctoral and postdoctoral theses are usually prepared as cumulative work based on a number of papers.

Chart 1 shows the number of refereed and non-refereed publications from 2014 to 2018 followed by the full list of publications including those that already appeared until March 2019.

Chart 1: Number of publications 2014 to 2018



Refereed international journals 2014 to 2019

Year	Publication
2019	Jindra, B.; Hatani, F.; Steger, T.; Hiemer, J. (2019): Social upgrading and cooperative CSR in global value chains: the case of Fairphone in China, <i>Global Networks- A Journal of Transnational Affairs</i> , https://onlinelibrary.wiley.com/doi/full/10.1111/glob.12232
2019	Dominguez Lacasa, I.; Jindra, B.; Radosevic, S.; Shubbak, M.(2019): Paths of Technology Upgrading in the BRICS economies. In: <i>Research Policy</i> , Vol. 48, Issue 1, February 2019, pp. 262-280.
2019	Pyka, A.; Kudic, M.; Mueller, M. (2019): Systemic interventions in regional innovation systems: entrepreneurship, knowledge accumulation and regional innovation. In: <i>Regional Studies</i> , DOI: 10.1080/00343404.2019.1566702
2018	Cantner, U.; Giebler, A.; Günther, J.; Meder, A.; Kristalova, M. (2018): Innovation cooperation in East and West Germany: a study on the regional and technological impact. In: <i>International Journal of Computational Economics and Econometrics</i> , Vol. 8 (3-4), pp. 242-279.
2018	Jindra, B.; Rojec, M., (2018): How to increase knowledge spillover from foreign direct investment in New EU member states , <i>Teorija in Praksa</i> , Vol. 55 Issue 3, pp. 645-665.
2018	Hain, D.; Buchmann, T.; Kudic, M.; Mueller, M. (2018): Endogenous dynamics of innovation networks in the German automotive industry: analysing structural network evolution using a stochastic actor-oriented approach. In: <i>International Journal of Computational Economics and Econometrics</i> , Vol. 8 (3-4), pp. 325-344.
2018	Shubbak, M. (2018): The technological system of production and innovation: The case of photovoltaic technology in China. In: <i>Research Policy</i> , Vol. 48 (4), pp. 993-1015.
2018	Pyka, A.; Mueller, M.; Kudic, M. (2018): Regional Innovation Systems in Policy Laboratories. In: <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 4, 44, doi:10.3390/joitmc4040044.
2018	Shubbak, M. (2018): Innovation capability, network embeddedness and economic performance: profiling solar power innovators in China. In: <i>International Journal of Technological Learning, Innovation and Development</i> , Vol. 10 (3-4), pp. 258-294.
2018	Burger, A.; Jindra, B.; Marek, P.; Rojec, M. (2018): Functional Upgrading and Value Capture of Multinational Subsidiaries. In: <i>Journal of International Management</i> , Vol. 24 (2), pp. 108-122.
2018	Beugelsdijk, S.; Jindra, B. (2018): Product Innovation and Decision-making Autonomy in Multinational Subsidiaries. In: <i>Journal of World Business</i> , Vol. 53 (4), pp. 529-539.

- Kladroba, A.; Kudic, M.; Friz, K.; Buchmann, T.; Wolf, P. (2018): Technologies instead of sectors: A new approach towards the R&D survey 2015. In: AStA Wirtschafts- und Sozialstatistisches Archiv, Vol.12 (2), pp. 87-104.
- Dominguez Lacasa, I.; Shubbak, M. H. (2018): Drifting towards innovation: The co-evolution of patent networks, policy, and institutions in China's solar photovoltaics industry. In: Energy Research & Social Science, Vol. 38, pp. 87-101.
- Mueller, M.; Kudic, M.; Pyka, A. (2017): Ex-ante Evaluation von Investitionsalternativen. Am Beispiel von Wissenstransfer-, Lern- und Innovationsprozessen. In: Zeitschrift für Technikfolgenabschätzung in Theorie und Praxis, Vol. 26 (3), pp. 51-57.
- Dominguez Lacasa, I.; Radosevic, S.; Giebler, A. (2017): Technological Capabilities in Central and Eastern Europe: An Analysis Based on Priority Patents. In: Scientometrics, Vol. 111 (1), pp. 83-102.
- Mueller, M.; Bogner, K.; Buchmann, T.; Kudic, M. (2017): The effect of structural disparities on knowledge diffusion in networks: an agent-based simulation model. In: Journal of Economic Interaction and Coordination, Vol. 12 (3), pp. 613-634.
- Günther, J.; Meissner, D. (2017): Clusters as innovative melting pots? - The Meaning of Cluster Management for Knowledge Diffusion in Clusters. In: Journal of the Knowledge Economy, Vol. 8 (2), pp. 499-512.
- Günther, J.; Latifi, G.; Lubacha-Sember, J.; Töbelmann, D. (2017): Scientific cooperation in a German Polish border region in the light of EU enlargement. In: Foresight and STI Governance, Vol. 11 (1), pp. 42-53.
- Günther, J.; Kristalova, M. (2016): No risk no fun? Foreign Direct Investment in Central and Eastern Europe. In: Intereconomics – Review of European Economic Policy, Vol. 51 (2), pp. 95-99.
- Völlmecke, D.; Jindra, B.; Marek, P. (2016): FDI, human capital and income convergence—Evidence for European regions. In: Economic Systems, Vol. 40 (2), pp. 288-307.
- Jindra, B.; Hassan, S.; Cantner, U. (2016): What does location choice reveal about knowledge-seeking strategies of emerging market multinationals in the EU? In: International Business Review, Vol. 25 (1), pp. 204-220.
- Santangelo, G. D.; Meyer, K.; Jindra, B. (2016): MNE subsidiaries' outsourcing and insourcing of R&D: The role of local institutions. In: Global Strategy Journal, Vol. 6 (4), pp. 247-268.
- Kudic, M.; Pyka, A.; Sunder, M. (2016): R&D cooperation in the German laser industry - an event history perspective. In: Industrial and Corporate Change, Vol. 25 (4), pp. 649-670.

2015	De Jong, G.; Van Dut, V.; Jindra, B.; Marek, P. (2015): Does country context distance determine subsidiary decision-making autonomy? Theory and evidence from European transition economies. In: <i>International Business Review</i> , Vol. 24 (5), pp. 874-889.
2015	Jindra, B.; Hassan, S.; Günther, J.; Cantner, U. (2015): European integration and outward FDI from Central and East Europe – Is there evidence of knowledge-seeking? In: <i>Journal of Common Market Studies</i> , Vol. 53 (6), pp. 1248-1267.
2015	Dettmann, E.; Dominguez Lacasa, I.; Günther, J.; Jindra, B. (2015): The importance of localized related variety for international diversification of corporate technology. In: <i>Regional Studies</i> , Vol. 50 (10), pp. 1648-1662.
2015	Brautzsch, H.-U.; Günther, J.; Loose, B.; Ludwig, U.; Nulsch, N. (2015): Can R&D Subsidies Counteract the Economic Crisis? – Macroeconomic Effects in Germany. In: <i>Research Policy</i> , Vol. 44 (3), pp. 623-633.
2015	Kudic, M.; Pyka, A.; Günther, J. (2015): Taking the first step - What determines German laser source manufacturers' entry into innovation networks? In: <i>International Journal of Innovation Management</i> , Vol. 19 (5), 26 pages.
2015	Kudic, M.; Ehrenfeld, W.; Pusch, T. (2015): On the trail of core-periphery patterns in innovation networks - measurement and new empirical findings from the German laser industry. Special issue on "Geography and Innovation". In: <i>Annals of Regional Science</i> , Vol. 55 (1), pp. 187-220.
2014	Dettmann, E.; Dominguez Lacasa, I.; Günther, J.; Jindra, B. (2014): Determinants of Foreign Technological Activity in German Regions – A Count Model Analysis of Transnational Patents. In: <i>Foresight-Russia</i> , Vol. 8 (1), pp. 34-51.
2014	Dominguez Lacasa, I. (2014): Ceremonial encapsulation and the diffusion of renewable energy technology in Germany. In: <i>Journal of Economic Issues</i> , Vol. 48 (4), pp. 1073-1094

Further publications 2014 to 2019

Year	Publication
2019	Gonchar, K.; Kristalova, M. (2019): How innovation affects performance. In: <i>Jena Economic Research Papers</i> , No. 2019-001.
2018	Gräbner, C.; Heinrich T.; Kudic, M.; Vermeulen, B. (2018): The dynamics of and on networks: an introduction. In: <i>International Journal of Computational Economics and Econometrics</i> , Vol. 8 (3-4), pp. 229-241.

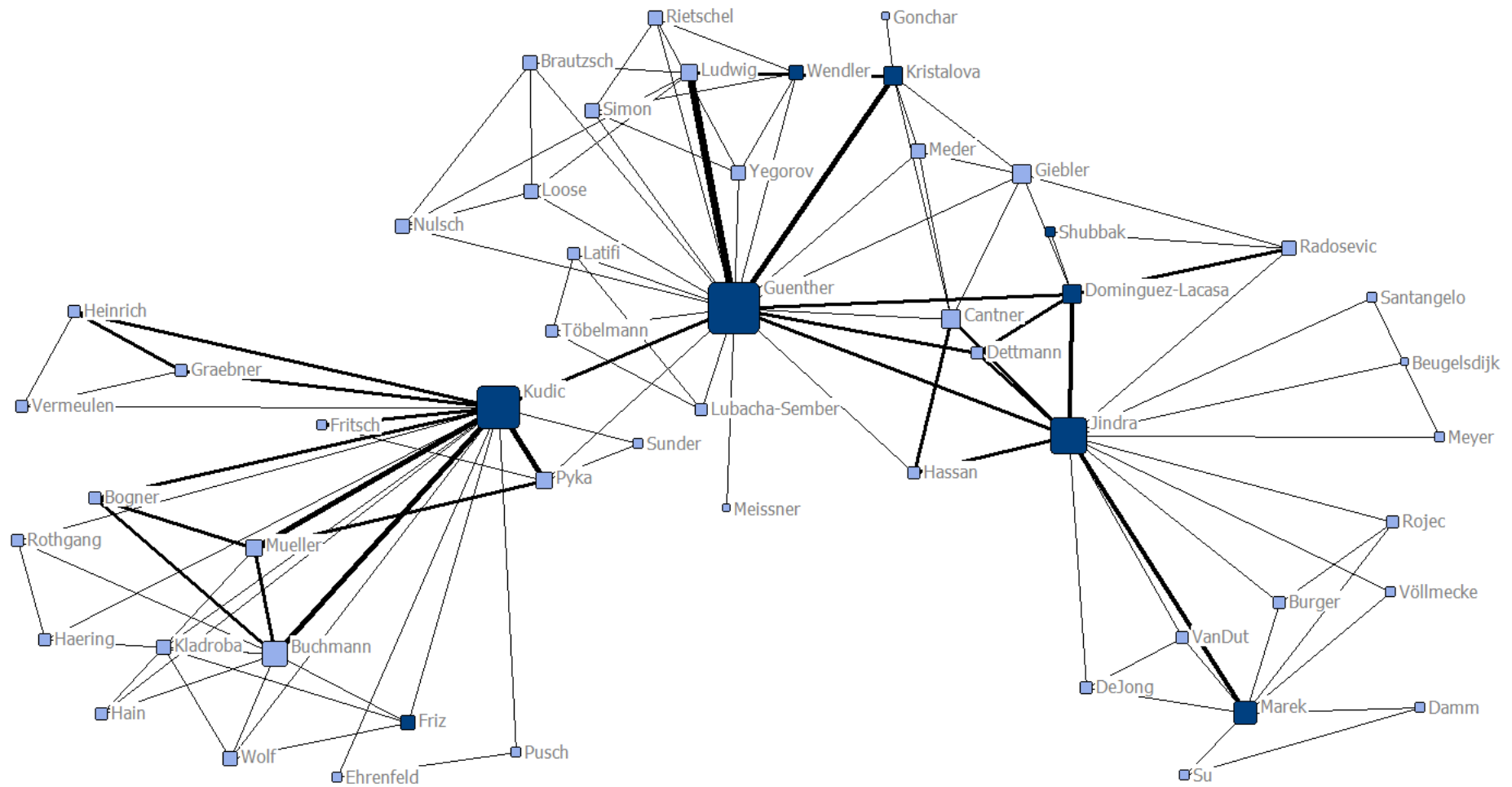
2018	Pyka, A.; Kudic, M. (2018): Networks dynamics and field evolution. In: Holzer, B; Stegbauer, C. (ed.): Schlüsselwerke der Netzwerkforschung, Springer, pp. 469-472.
2018	Buchmann, T.; Haering, A.; Kudic, M.; Rothgang, M. (2018): Does Sequential Decision-Making Trigger Collective Investment in Automobile R&D? Experimental evidence. In: Ruhr Economic Papers #785, RWI, 12/2018, DOI: 10.4419/86788913.
2018	Dominguez Lacasa, I.; Jindra, B.; Radosevic, S. (2018): Introduction, Special Issue: Technology Upgrading and Innovation in Emerging Economies. In: Int. Journal of Technological Learning, Innovation and Development, Vol. 10, No. 3/4, pp. 195-202.
2018	Grodzicki, M. (2018): Prices of Value Added and Competitiveness in Global Value Chains. In: SPRU Working Paper Series, SWPS 2018-14.
2017	Kudic, M.; Günther, J. (2017): Understanding the complex nature of innovation network evolution. In: Pyka, A.; Cantner, U. (ed.): Foundations of Economic Change – A Schumpeterian View on Behaviour, Interaction and Aggregate Outcomes, Springer, pp. 501-524.
2017	Günther, J.; Rietschel, E.Th.; Simon, D.; Wendler, T.; Yegorov, I. (2017): Experience report: Developing an evaluation scheme for the National Academy of Sciences of Ukraine based on experiences of the Leibniz Association. Project report prepared within the German-Ukrainian project "Evaluating Science Organisations in Ukraine (EvalScience).
2016	Günther, J.; Kristalova, M.; Ludwig, U. (2016): Unmittelbare und mittelbare Folgen der Wirtschaftssanktionen zwischen der EU und Russland auf Produktion und Beschäftigung in Deutschland. In: Russland Analysen, No. 325, pp. 20-24.
2016	Günther, J.; Kristalova, M.; Ludwig, U. (2016): Folgen der Sanktionen zwischen der EU und Russland für die deutsche Wirtschaft. In: Wirtschaftsdienst, 96. Jahrgang, 2016, Heft 7 pp. 524-526.
2016	Fritsch, M.; Kudic, M. (2016): Preferential Attachment and Pattern Formation in R&D Networks - Plausible explanation or just a widespread myth? In: Jena Economic Research Papers, No. 2016-005.
2016	Gräbner, C.; Heinrich, T.; Kudic, M. (2016): Structuration processes in complex dynamic systems - an overview and reassessment. In: MPRA Paper, University Library of Munich, Germany, No. 69095.
2015	Kudic, M. (2015): Innovation networks in the German laser industry - evolutionary change, strategic positioning and firm innovativeness (Economic Complexity and Evolution). Berlin, Heidelberg, New York: Springer.
2015	Günther, J. (2015): Innovation. In: Hölscher, J. & Tomann, H. (ed.): Palgrave Dictionary of Emerging Markets and Transition Economies, Palgrave Macmillan, pp. 360-371.

- 2015 Marek, P.; Damm, B.; Su, T. Y. (2015): Beyond the Employment Agency: The Effect of Social Capital on the Duration of Unemployment. In: SOEP Paper on Multidisciplinary Panel Data Research, No. 812/2015.
- 2015 Günther, J.; Ludwig, U. (2015): Der Anfang vom Ende des Solis - auf dem Weg zu mehr Gerechtigkeit? In: Neue Gesellschaft Frankfurter Hefte, No. 3/2015, pp.19-22.
- 2015 Günther, J.; Ludwig, U. (2015): How R&D subsidies helped Germany to weather the crisis. In: Research Europe, April 2015, p. 8.
- 2015 Mueller, M.; Bogner, K.; Buchmann, T.; Kudic, M. (2015): Simulating knowledge diffusion in four structurally distinct networks - An agent-based simulation model. In: Hohenheim Discussion Papers in Business, Economics and Social Science, No. 05/2015.
-

Chart 2 below presents the network of authors including all publications of the working group. The size of the nodes represents the degree centrality of the respective author, and the thickness of the linkages represent the frequency of joint publications. Nodes in dark blue represent members of the working group while the light blue coloured nodes symbolize external publication partners. This chart just illustrates relationships based on joint publications.¹

¹ Borgatti, S. P.; Everett, M. G.; Freeman, L. C. (2002): Ucinet 6 for Windows. Software for Social Network Analysis. Harvard, MA: Analytic Technologies.

Chart 2: Network of authors including all publications of the working group from April 2014 to March 2019



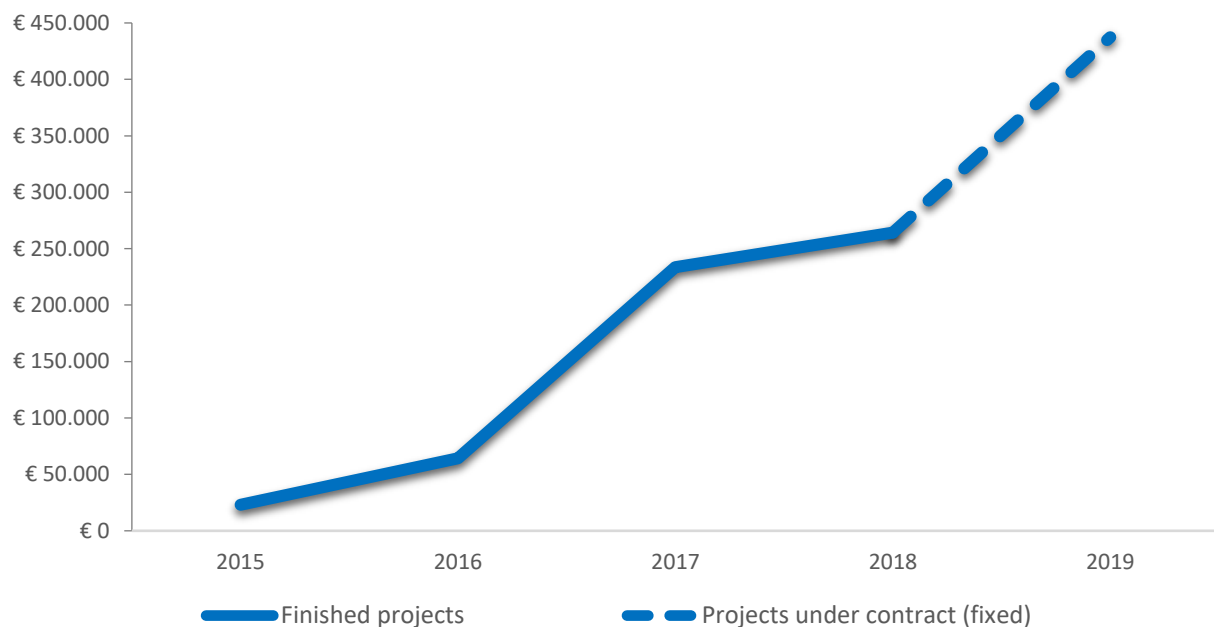
Third-party funded projects

Within the scope of our research areas, we engage in third-party funded projects. The main sponsor is the Federal Ministry of Education and Research (BMBF) followed by private foundations, such as the Dieter Schwarz Foundation, and other sponsors. All projects include young scholars, especially doctoral candidates, and serve our scientific publication and conference activities.

In the year 2015, the first third-party funded project started. It was financed by the BMBF, entitled “Innovation in Emerging Economies”. Since then, third-party funding increased continuously and amounts to 1.91 Million Euros until now (March 2019). In December 2018, our largest project (Mod-Block-DDR) started, which furthermore includes three partners (Berlin, Jena and Frankfurt/Oder) with their own budgets (not depicted here). It is financed by the BMBF and coordinated by Jutta Günther in Bremen. In its initial stage, it will last until the year 2022 with the possibility of being extended for another two years.

A number of projects have been acquired together with our research partners as joint projects, such as “B2B Future” or “NEO-Indikatorik”. Our network of research partners includes universities and research institutes in Germany and worldwide.

Chart 3: Third-party funds per year in Euro*



The figures presented here include only the budgets that are administered and used at the University of Bremen. At the moment, several project proposals are under review at the German Research Foundation (DFG), the Humboldt Foundation, and the European Research Council (ERC). The sum amounts to 2.14 Million Euro.

Ongoing projects

Obstacles to Modernization in the Economy and Science of the GDR (Mod-Block-DDR)

Duration: 2018 to 2022 (48 months)



The joint project “Obstacles to Modernization in the Economy and Science of the GDR” has been selected for funding by the Federal Ministry of Science and Education and started on December 01, 2018. The overall objective of the joint project is to identify the obstacles to modernization in the state socialist economy and science system of the GDR, to analyse their effects on the past real economic development as well as to assess the impact on socio-economic disparities between East and West Germany until today. The empirical analyses will include inner-German comparisons as well as comparisons to neighbouring countries in Central and Eastern Europe. The project funding will initially be for four years, with the possibility of being extended for another two years.

Head of the project: Jutta Günther

From Biotech to Bioeconomy (B2B-Future)

Duration: 2017 to 2019 (36 months)



The project empirically investigates the development of the broad field of Bioeconomy out of the relatively specialized field of Biotech in Germany. Using patent and firm-level data for network and citation analyses, major technological paths will be detected for the time period of 1995 to 2015. Furthermore, data on R&D funding will be used to analyse the relationship between public funding and the development of the above mentioned major technological paths. The project will contribute to a better understanding of the emergence of the Bioeconomy in Germany and the role of public funding and corporate success factors. Results of the project will also be discussed in the context of the National Research Strategy Bioeconomy 2030. The project is jointly conducted with the University of Greifswald, Germany, and is supported financially by the Federal Ministry for Education and Research (BMBF).

Head of the project: Muhamed Kudic

INNcentive – Promoting Innovation Research of Young Scientists

Duration: 2017 to 2019 (36 months)



The INNcentive project aims at encouraging young innovation scholars to address unconventional research questions, to collect new data, to compile unique datasets and to apply novel methodological approaches. All officially enrolled master or doctoral students in business studies, economics, and related disciplines with a thematic focus on empirical innovation research are eligible for application. The central criterion for awarding a scholarship is the excellence and creative potential of the research proposal. For further information, please visit the INNcentive project web page or contact us via Email.

The INNcentive project is a joint initiative of the University of Bremen Faculty of Business Studies and Economics and the Stifterverband, a German non-profit organization that aims at promoting education, science, and innovation. The funds for the realization of the INNcentive project have been provided by the Rolf-Maciejewski Foundation. The project supports young scholars in the preparation and completion of their master or doctoral theses in the field of innovation research.

Project team: Jutta Günther, Muhamed Kudic, Gero Stenke

VISIBLE 2.0

Duration 2018 to 2019 (24 months)



The Dieter Schwarz Foundation financially supports the project VISIBLE 2.0, starting on January 01, 2018 in cooperation with the University of Hohenheim in Stuttgart. VISIBLE 2.0 stands for "Virtual Simulation Lab for the Analysis of Investments in Learning and Education" and will be an investigation of policy intervention in regional innovation systems using agent-based modelling as well as empirical and statistical tools. The objective is to advise policy makers when making decisions about investments into education and knowledge creation. This will be done by simulating the consequences and results of policy intervention. Thereby, we not only detect the direct effects, but also the complex interdependencies of the entire system, which is a novelty and a particular added-value of the project. Going beyond the first project stage, VISIBLE 2.0 will engage deeply with the prevailing regional entrepreneurship policies. The relationship between start-up as well as firm exit activity and regional learning, knowledge diffusion, and innovation processes will be the focus of the project.

Head of the project: Muhamed Kudic

Network and Output Measurement – Indicators for transformative technology fields - NEO-Indikatorik

Duration: 2018 to 2020 (36 months)



The objective of the NEO-Indikatorik project is to generate new indicators for the measurement of innovation and to apply them in an exemplary fashion to the electric drive technology. The project is carried out in cooperation with the Stifterverband - Wissenschaftsstatistik (Essen), the University of Applied Sciences Economics & Management (Essen), and the Centre for Solar Energy and Hydrogen Research Baden-Wuerttemberg (ZSW). It will develop further innovation indicators with respect to networks of innovators. For this purpose, the historical concern structure of enterprises will be disentangled to make the smallest independent unit of the firm countable. This is a unique approach in the area of network analysis and has not been done systematically before. The analyses will be applied to the example of the electric drive industry as a pilot example. Once the routines to reconstruct and count the smallest units can be applied on a large scale, it would prove to be a big step forward for network research.

Head of the project: Muhamed Kudic

Successfully completed projects

Evaluating Science Organisations in Ukraine (EvalScience)

Duration: 2017 to 2018 (18 months)



In this project, the University of Bremen and the National Academy of Sciences of Ukraine (Institute for Economics) were engaged in a joint research project concerning the evaluation of science organisations in Ukraine. It was funded by the Federal Ministry of Education and Science (on the German side) and the Ukrainian Ministry of Education and Science (on the Ukrainian side). The project team has further developed the evaluation indicators, which have been adopted from the Leibniz Association and applied in a pilot evaluation in Ukraine during the year 2016. The project used quantitative and qualitative empirical approaches to advance the evaluation indicators and integrate experiences made by the Leibniz Association.

Head of the project: Jutta Günther and Igor Yegorov (Ukrainian partner)

Global value chains, technological capabilities and economic development

Duration: 2016 to 2018 (18 months)



This project was financed by the German Academic Exchange Service (DAAD). The project dealt with the international economic integration and its impact on economic performance of countries and industries. It combined insights of the Global Value Chains (GVC) literature with the economics of innovation and structural change. The project analysed how the position in global value chains influences the evolution of technological capabilities and the economic performance of industries. It made use of quantitative techniques of input-output analysis, network analysis, and panel data econometrics. The project was jointly conducted between the University of Bremen (Dr. Maciej Grodzicki) and the University of Sussex, SPRU (Professor Maria Savona).

Head of the project: Maciej Grodzicki

Openness of Innovation Systems

Duration: 2016 to 2017 (12 months)

This project was financed within the Presidential Scholarship Program of Russia and was carried out by the visiting international PhD candidate Anastasiia Tceluiko from the University of Tyumen. The starting point of the project was that innovation systems are typically bounded and are thus closed. Based on theoretical considerations of the innovation system literature, the project developed an indicator for the openness of innovation systems. This indicator was used to analyse the innovation performance across countries in an econometric study. It showed that the openness of innovation systems has a positive impact on innovation and economic performance.

Head of the project: Anastasiia Tceluiko

Innovation in Emerging Economies

Duration: 2015 to 2017 (24 months)



The project "Innovation in Emerging Economies" was financially supported by the Federal Ministry of Science and Education (BMBF). It was an empirically oriented project, that focused on the technological specialization and innovation paths in emerging economies and the importance of multinational enterprises for technological catching-up processes. Using patent and firm level data, the project team investigated the effects of innovation in emerging economies on innovation and productivity in Europe and the institutional and political framework conditions for technological catching-up. The project was implemented jointly with the Technical University Berlin and the German Institute for Development Policy in Bonn. In July 2017, the final project conference took place in Berlin, where project results were presented and a large number of scientists presented their related work. Selected papers of the conference were published in two peer reviewed journals as special issues.

Head of the project: Iciar Dominguez Lacasa and Björn Jindra

Scientific presentations (selection)

2019

Günther, Jutta: "Governance of Innovation Processes". Invited speaker presentation together with Martin Jänicke at the Forum for Innovation and Technology Analyses (ITA), Berlin, Germany, 14-15 February, 2019.

Jindra, Björn: "New Technology and the MNE: have we exaggerated their role in competitiveness?". Invited speaker presentation at the 7th International Business Conference 2019, University of Reading, Reading, United Kingdom, 05-06 April 2019.

Kudic, Muhamed: "Co-existence of macro stability and micro fluidity of inventor networks - evidence from German Laser Technology inventor networks since 1960s". Invited talk at the Bristol Centre for Economics and Finance (BCEF), University of the West of England, Bristol, UK, 17 January 2019 (paper with Michael Fritsch).

Kühn, Jarina: "Life-long learning in the context of proceeding technologisation – Meaning of increasing qualification requirements for elderly employees". Presentation at Daimler in Bremen, Germany, 19 February, 2019.

Leusin, Matheus Eduardo: "Diffusion of AI - Preliminary findings from a global patent analysis". Presentation at the workshop "Data infrastructure for mapping production and diffusion of AI technologies", Copenhagen Business School, Copenhagen, Denmark, 27-28 February 2019.

Shkolnykova, Mariia: "Who benefits from radical innovation of biotechnology SMEs?". Poster Session at Herrenhausen Conference - "The New Role of the State", Hannover, Germany, 20-22 February 2019 (based on a paper with Muhamed Kudic).

Wendler, Tobias: "How green is green tech? An empirical analysis on the impact of environmental innovations in Europe". Presentation at the Input Output Workshop on Sustainable Development, University of Applied Sciences Bochum, Germany, 14 March 2019 (paper with Jutta Günther and Daniel Töbelmann).

2018

Birkholz, Jessica: "Informal Institutions and Entrepreneurship in a Regional Context – Conceptual Challenges and Analytical Direction". Presentation at the 12th Summer Academy on `Innovation and Uncertainty`, Friedrich-Schiller University Jena, 25 July 2018.

Friz, Katharina and Wolf, Patrick: "Introducing new network-based innovation indicators -insights from the 'Neo.-Ind.' project". Presentation at the "EAEPE RA [X] „Networks” -European Association of Evolutionary Political Economy, Andrassy Universität Budapest, 15-16 November 2018.

Friz, Katharina and Lange, Marcel: "Konzeptionelle Überlegungen zum Längsschnittdatensatzaufbau". Presentation at the Seminar "New Innovation Indicators" in Thiessow, Germany, 17-21 September 2018.

Friz, Katharina and Kristalova, Maria: "Who supports Putin? – an empirical investigation". Presentation at the Research Centre for East European Studies (FSO) - Department of Politics and Economics, University of Bremen, 18 May 2018.

Grodzicki, Maciej: "Technological capabilities and the New International Division of Labour". Presentation at the 4th Geography of Innovation (GEOinno) Conference, Barcelona, Spain, 31 January - 02 February 2018 (paper with Maria Savona and Tommaso Ciarli).

Grodzicki, Maciej: "Technological Capabilities and the New International Division of Labour", Presentation at the International Input Output Conference, Bremen, Germany, March 16, 2018.

Günther, Jutta: "The R&D sector under conditions of an economic crisis - experiences from European economies". Presentation at the Research Colloquium at the Faculty of Economics of the University of Osnabrück, 15 May 2018.

Günther, Jutta: "The Evaluation of Evaluation - Experiences from Germany". Presentation at the international symposium on the project "Eval Science" at the National Academy of Sciences of Ukraine, Kiev, 27 June 2018.

Jindra, Björn: "INNOVA MEASURE III Expert Workshop, Topic 1: Europe in the global network of knowledge-intensive foreign investments and trade, commissioned by DG RTD of the European Commission". Invited speaker presentation at the Joint Research Center, ISPRA, Rome, Italy, 27 November 2018.

Jindra, Björn: "Innovation in Emerging Economies", presentation of final project results at the Federal Ministry of Education and Research, Berlin, Germany, 28 September 2018.

Kerner, Philip: The Impact of Uncertainty on Investment: Evidence from Germany, presentation at the seminar "New Innovation Indicators" in Thiessow, Germany, 17-21 September 2018.

Kristalova, Maria: "Co-evolution of innovation and public innovation subsidies – long term effects on economic development in German regions". Presentation at the Jena Lecture in Economic Geography at the Friedrich Schiller University, Jena, Germany. 7-8 May 2018 (paper with Eva Dettmann, Alexander Giebler, Jutta Günther and Uwe Cantner).

Kristalova, Maria: "The impact of political risk on FDI exit decision" presentation at the University of the Free State, Bloemfontein, South Africa, July 2018 (paper with Philipp Marek and Ksenia Gonchar).

Kudic, Muhamed: "VISIBLE – Analyzing regional innovation systems in virtual policy laboratories". Presentation at the 4th RA[X] 'Networks' Workshop, Budapest, Hungary, 15-16 November 2018 (paper with Andreas Pyka and Matthias Müller).

Kudic, Muhamed: "Future research directions in BioEconomy". Seminar on "New Innovation Indicators", Thiessow, Germany, 17-21 September 2018.

Jindra, Björn: "Productivity Effects of R&D Internationalization - Evidence for European MNCs". Presentation at the 4th Geography of Innovation (GEOinno) Conference, Barcelona, Spain, 31 January - 02 February 2018 (paper with Philipp Marek and Davide Castellani).

Shkolnykova, Mariia: "Who benefits from radical innovations of SMEs in a region?". Presentation at the Workshop "Radical Innovation and Regional Growth", Bremen, Germany, 05-07 July 2018 (paper with Muhamed Kudic).

Shkolnykova, Mariia: "The Geographical and Technological Roots of German Bioeconomy. Using Patent Citation and Network Analysis Methods for Tracing the Evolution from Biotech to Bioeconomy". Presentation at the 4th Geography of Innovation (GEOinno) Conference, Barcelona, Spain, 31 January - 02 February 2018 (paper with Muhamed Kudic).

Shubbak, Mahmood: "Innovation capability, network embeddedness and economic performance: profiling solar power innovators in China". Presentation at the 30th EAEPE Annual Conference, 06-08 September, 2018.

Wendler, Tobias: "Can Environmental Innovation Reduce Environmental Pressure?". Presentation at the Workshop "Innovation, Growth and Economic Geography", University of Bremen, Germany, 04 July 2018.

2017

Grodzicki, Maciej: "Between creation and extraction of value: global value chains, relative prices and international inequalities". Presentation at the European Meeting on Applied Evolutionary Economics (EMAE) on "Creativity, Innovation and Economic Dynamics", Université de Strasbourg, Strasbourg, France, 31 May-03 June 2017.

Grodzicki, Maciej: "Between creation and extraction of value: international price differences and upgrading in global value chains". Presentation at the Conference "Exploring technology upgrading in emerging and transition economies", University College London, London, United Kingdom, 26-27 June, 2017.

Günther, Jutta: "Consequences of the Sanctions of the EU and Russia on the German Economy". Presentation at the Research Colloquium on Eastern (Central) European History, University of Bremen, 16 January 2017.

Günther, Jutta and Kristalova, Maria: "Co-evolution of innovation activity and public innovation subsidies in German regions". Presentation at the Heilbronn Symposium - Dieter Schwarz Foundation, Heilbronn Educational Campus, 29 June 2017.

Kristalova, Maria: "Impact of EU and Russian sanctions on EU-27". Presentation at the Input-Output-Workshop Special in Osnabrück, Germany, 30 March 2017.

Kudic, Muhamed: "Collective investments in lightweight solutions along automotive industry value chains – an experimental investigation". Presentation at the EMAEE

Conference, Université de Strasbourg, France, 31 May - 3 June 2017 (paper with Tobias Buchmann, A. Hearing and Michael Rothgang).

Kudic, Muhamed: "Evaluating funding strategies for entrepreneurial firms in knowledge intensive environments – new evidence from ex-ante policy simulations using the VISIBLE model". Presentation at The 20th Anniversary Uddevalla Symposium, University West, Trollhättan, Sweden, 15 - 17 June 2017 (paper with Andreas Pyka and Matthias Müller).

Shkolnykova, Mariia: "The Origins of a New Technological Field – Using Patent Citation and Network Analysis Methods for Tracing the Evolution from Biotech to Bioeconomy". Presentation at the EAEPE Workshop on "The Role of Innovation Networks for Sustainable Economic Development", Bremen, Germany, 30 November - 01 December 2017 (paper with Muhamed Kudic).

Shkolnykova, Mariia: "The Origins of a New Technological Field – Using Patent Citation and Network Analysis Methods for Tracing the Evolution from Biotech to Bioeconomy". Presentation at the 29th Annual EAEPE Conference 2018, Budapest, Hungary, 19-21 October 2017 (paper with Muhamed Kudic).

Shubbak, Mahmood and Dominguez Lacasa, Iciar: "Technological Capabilities in China". Presentation at the workshop 'Sustainable Development and Carbon Market', IN-EAST School of Advanced Studies in the University of Duisburg-Essen, Duisburg and Essen, Germany, 15 February, 2017.

Shubbak, Mahmood: "The Technological System of Photovoltaics: Identification and Analysis with Patent Classes". Presentation at the 29th Annual EAEPE Conference 2017, Budapest, Hungary, 19-21 October 2017.

Wendler, Tobias: "Impact of Green Technologies on Resource Intensity". Presentation at the EVO Meeting, University of Bremen, Germany, October 13 2017.

Wendler, Tobias: "Can Innovation Drive Environmental Improvement?". Presentation at the 29th International Annual EAEPE Conference 2018, Budapest, Hungary, 19-21 October 2017.

2016

Günther, Jutta: "Short term macroeconomic effects of public R&D spending under conditions of an economic crisis". Presentation at the XVII. April International Academic Conference on Economic and Social Development, Higher School of Economics Moscow, 21 April 2016.

Günther, Jutta: "Multipliers of an R&D investment before, during and after the economic crisis". Presentation at the annual conference of the Committee for Evolutionary Economics of the Verein für Socialpolitik, Leibniz University Hannover, Germany, 01 July 2016.

Jindra, Björn: "The Autonomy Activity Status of Multinational Subsidiaries". Presentation at the 42nd European International Business Academy (EIBA) Annual

Conference, Vienna University of Economics and Business, Vienna, Austria, 02-04 December 2016 (paper with Jens Gammelgaard).

Kristalova, Maria: "Impact of EU and Russian sanctions on sectors in the German economy and EU-27". Presentation at the Summer School "Globalization and Inequality", Groningen Growth and Development Centre (GGDC), Groningen, Netherlands, 11-15 June 2016.

Kristalova, Maria: "Effects of sanctions between the EU and Russia on the German economy and the EU-27". Presentation at the 14th EACES (European Association for Comparative Economic Studies) Conference, University of Regensburg, Regensburg, Germany, 8-10 September 2016.

Marek, Philipp: "Regional Policy and Firm Performance - Evidence for Eastern Europe". Presentation at the 13th Ljubljana Empirical Trade Conference in Izola, University of Ljubljana, Ljubljana, Slovenia, 9-11 June 2016 (Paper with Bruno Merlevede).

Shubbak, Mahmood and Dominguez Lacasa, Iciar: "Technological Knowledge Networks in China: The Case of Photovoltaics Technology". Presentation at the SPRU's 50th Anniversary Conference, University of Sussex, Brighton, England, 07-09 September 2016.

Shubbak, Mahmood and Dominguez Lacasa, Iciar: "Technological Knowledge Networks in China: The Case of Photovoltaics Technology". Presentation at the 28th Annual Conference and Workshops - 'Industrialisation, socio-economic transformation and Institutions', European Association for Evolutionary Political Economy EAEPE, Manchester, United Kingdom, 1-5 November 2016.

Su, Tong Ya: A policy review: assessing the development of electric vehicles in China. Presentation at the SPRU's 50th Anniversary Conference, University of Sussex, Brighton, England, 07-09 September 2016 (paper with Michael Nauruschat).

2015

Dominguez Lacasa, Iciar: "Innovations in Emerging Countries". Presentation at the ITAFORUM Berlin on Innovation and Technology Analysis (ITA), Berlin, Germany, 19-20 November 2015.

Günther, Jutta and Kristalova, Maria: "Foreign Direct Investment in Eastern Europe: Why is the Ukraine different?", Presentation at the international workshop "Economic perspectives of Ukraine after the Association Agreement with the EU", University of Bremen, Department of Economics, Bremen, Germany, 23 March 2015.

Günther, Jutta: "Together instead of alone: Innovation cooperation in East and West Germany". Ceremonial keynote lecture on the occasion of the 25th anniversary of Projektträger Jülich, Berlin, Germany, 18 November 2015.

Kristalova, Maria: "Economic impact of EU and Russian sanctions on sectors in the German economy". Presentation at the symposium of the German Society for East

European Studies (DGO) on “One size does not fit them all”, Berlin, Germany, 13-14 November 2015.



Jutta Günther during a lecture at the 25th anniversary celebration of PTJ Berlin 2015, Photo: PTJ Berlin

Marek, Philipp: "Functional Upgrading and Productivity Growth of Multinational Subsidiaries in European Transition Economies". Presentation at the AIB Conference, Bocconi University and Politecnico di Milano, Milano, Italy, 30-31 October 2015.

Marek, Philipp: "The effects of EU structural funds on the productivity of firms in CEE countries". Presentation at the DGO symposium entitled “One size does not fit them all”, organized by Institute for East and Southeast European Research and the German Society for East European Studies (DGO) in Berlin, Germany, 13-14 November 2015.

2014

Dominguez Lacasa, Iciar (2014): “Technology and Institutions in Neo-Schumpeterian and Original Institutional Thinking”, 15th International Conference of the International Joseph A. Schumpeter Society (ISS), Jena, Germany, 27–30 July, 2014.

Günther, Jutta: "Economic development in East Germany - 25 years after re-unification". Presentation at the Faculty of Economics, Belgorod State University, Belgorod, Russia, 25 September 2014.

Jindra, Björn: "Why do MNE Subsidiaries Outsource R&D in Countries with Weaker National IPR Regimes? The Role of Local Institutions". Presentation at the 56th Annual Meeting of AIB, Beedie School of Business, Vancouver, Canada, 23-26 June 2014 (paper with Grazia Santangelo and Klaus Meyer).

Fellowships, prizes and awards

Research Fellowship at Higher School of Economics Moscow



From 2015 to 2016, Jutta Günther served as a leading research fellow at the National Research University Higher School of Economics Moscow, working closely with colleagues in research and teaching in the Laboratory for the Economics of Innovation, which belongs to the Institute for Statistical Analyses and Economics of Knowledge. The Higher School of Economics has been a major research partner of the working group for many years.

6th Lindau Meeting on Economic Sciences in Lindau



Maria Kristalova and Maciej Grodzicki attended the 6th Lindau Meeting with 18 Laureates of the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel from the 22nd to the 26th of August, 2017, in Lindau (Germany). They were chosen, together with about 350 other young researches from 66 countries, for participation in the 6th Lindau Meeting after undergoing a multi-phase selection process.

P.R.I.M.E. award



Maciej Grodzicki received one of the coveted P.R.I.M.E. awards from the German Academic Exchange Service (DAAD) to conduct the research project entitled "Global value chains, technological capabilities and economic performance". From January to December 2017, he was a guest researcher at the University of Sussex (SPRU) in Brighton/UK. The merit-based program P.R.I.M.E. (Postdoctoral Researchers International Mobility) is designed to support the mobility of excellent postdoctoral researchers and to strengthen international research cooperation.

Research Fellowship at the University of Reading and HSRC South Africa



In 2018, Björn Jindra was appointed as Research Fellow for four years at the John H. Dunning Centre for International Business, Henley Business School at the University of Reading, UK. Before this, he was a John H. Dunning Visiting Fellow at the same school for two years. Furthermore, since 2018, Björn Jindra is an Honorary Research Fellow at the Centre for Science, Technology and Innovation Indicators at the Human Sciences Research Council (HSRC) in South Africa. With both institutions he is closely engaged in joint research and data projects.

Hayek Prize



Euros.

For his paper entitled “Hayekian Complexity”, Toby Law received the Hayek Prize from the Hayek Society Münsterland on June 19, 2018. The prize awards students for excellent papers about the work of Friedrich August von Hayek and seeks to promote scholarship on topics such as economic organisation, liberty and business cycles. As part of this, Toby Law was awarded a prize money of 1000

Simon Prize



During the European Association for Evolutionary Political Economy (EAEPE) conference in Nice, France from September 06 to 08, 2018, Mahmood Shubbak was awarded the EAEPE Simon prize. His paper was one of the best submitted to the conference and the prize competition. It explores the relationship between innovation, networks and economic performance in the solar industry.

Volkswagen Foundation & Bremen IDEA out



Mariia Shkolnykova received a travel grant to the international Herrenhausen Conference on “The New Role of the State for Diffusion and Emergence of Innovation”, which took place in Hannover from February 20 to 22, 2019. As a grantee, Mariia Shkolnykova was also eligible to present a poster about her current research on radical innovation in the biotechnology sector and to take part as an

invited participant in a special workshop about the future of innovation and technology policy during the conference.

Furthermore, Mariia Shkolnykova received funding from the Bremen Early Career Researcher Development Centre (BYRD) to realize a research visit at the Nordic Institute for Studies in Innovation, Research and Education (NIFU) in Oslo in March 2019. “Bremen IDEA out” is a program at the University of Bremen that gives PhD students of all Faculties the chance to realize international research visits on a competitive basis.

Organisation of conferences and workshops

Since the year 2016, the working group has initiated three conference series, which are organised annually with our cooperation partners. Additionally, there are several single event conferences and workshops within third-party funded projects. These activities promote scientific exchange, support young researchers, and increase the visibility of our research within Germany and internationally.

International EAEPE Workshop on “Innovation Networks”



The EAEPE (European Association for Evolutionary Political Economy) is an international association active in the social sciences. The association is organised in a number of thematic research areas. One of the association’s research areas is dedicated to “Networks”. Since the year 2016, this research area organises annual international workshops in which 20 to 30 scientists present their interdisciplinary research on “networks”, depending on the relevant focus area of the workshop. Every year, the papers are selected after a call for papers on a competitive basis and through an external scientific advisory board.

Conference	When?	Where?	Cooperation partners	Sponsors
EAEPE Workshop on Networks	28.-29.11.2016	Ruhr University Bochum	Ruhr University Bochum	Stifterverband
EAEPE Workshop on Networks	30.11.-01.12.2017	University of Bremen	University of Greifswald	Kellner & Stoll Foundation Bremen
EAEPE Workshop on Networks	14.-15.11.2018	Andrassy University Budapest	Hohenheim University, Andrassy University	Andrassy University
EAEPE Workshop on Networks	The next EAEPE Workshop will take place at the ZSW Stuttgart in fall 2019.			



Participants of the EAEPE Workshop in Budapest 2018, Photo: Dimeny Andras/Kepszerkesztoseg

Input-Output Workshop

The Input-Output workshop series originated at the Leibniz Institute for Economic Research in Halle, where it took place many times until 2012. In the year 2014, the Institute of Economic Structures Research (GWS) in Osnabrück took over as the hosting organisation and, since the year 2017, the workshop is annually organised by the GWS (Anke Mönnig), the University of Bremen (Jutta Günther), and the University of Applied Sciences Bochum (Tobias Kronenberg). It takes place alternately in Osnabrück, Bremen, and Bochum (Germany). The International Input-Output Workshop brings together scientists that work either theoretically or empirically in the field of input output analysis as well as experts that provide input output indicators as statisticians in national statistical offices or international organisations, such as the OECD and Eurostat. Every year the papers are selected after a call for papers on a competitive basis and through an external scientific advisory board.

Conference	When?	Where?	Focus	Sponsors
Input-Output Workshop	30.-31.03.2017	University of Osnabrück	Focus Area: Regional input output analyses	
Input-Output Workshop	15.-16.03.2018	University of Bremen	All topics in input output analyses	wiwib*
Input-Output Workshop	14.-15.03.2019	Bochum University of Applied Sciences	Focus Area: ecological sustainability	HSBO*
Input-Output Workshop	The next Input-Output Workshop will take place at the GWS in Osnabrück in March 2020.			

*wiwib - Wirtschaft-Wissenschaft-Bremen e.V. is an association for the promotion of the Faculty of Business Studies and Economics at the University of Bremen; HSBO – Hochschule Bochum



Participants of the Input-Output Workshop in Bremen 2018, Photo: Harald Rehling

INNcentive Workshop



In the year 2017, the research group started a program in cooperation with the Stifterverband to support scientifically excellent master and doctoral students in the field of empirical innovation economics. Every year, the scholars that are financially supported within the INNcentive program present and discuss their scientific work during a workshop at the University of Bremen in which other master and PhD students of the Faculty of Business Studies and Economics also participate. The selection of INNcentive candidates is up to a scientific board including members of the Faculty of Business Studies and Economics as well as external scientific members.

Conference	When?	Where?	Sponsors
1st INNcentive Workshop	19.-20.10.2017	University of Bremen	Stifterverband
2nd INNcentive Workshop	27.-28.09.2018	University of Bremen	Stifterverband, wiwib e.V.*
3rd INNcentive Workshop	Will be held on September 19 and 20, 2019 at the University of Bremen.		

*wiwib - Wirtschaft-Wissenschaft-Bremen e.V. is a non-profit association for the promotion of the Faculty of Business Studies and Economics at the University of Bremen.



Participants of the INNcentive workshop in Bremen 2018, Photo: Harald Rehling

Further conferences and workshops



Photo: Dieter Schwarz Stiftung

The research group runs a number of third party funded projects, which give us the chance to organise international conferences related to the project work.

Since the year 2014, a number of such conferences and workshops were organised together with our project partners, bringing together experts from our thematic area and allowing us to discuss scientific work in progress. Typically, young researchers as well as senior scientists come together in an international and inspiring atmosphere.

The photo shows Muhamed Kudic during the Heilbronn Symposium, a conference on "Evolution, Co-Evolution and Regional Innovation Processes".

Conference	When?	Where?	Cooperation partners	Sponsors
Heilbronn Symposium "Evolution, Co-Evolution and Regional Innovation Processes"	29.-30.06.2017	Bildungs Campus Heilbronn	University of Hohenheim, Friedrich Schiller University of Jena	DSS*
International final conference "Innovation in Emerging Markets"	13.-14.07.2017	TU Berlin	TU Berlin, Copenhagen Business School, HSE Moscow	BMBF
International final conference of the research project "Eval-Science"	27.06.2018	National Academy of Sciences of Ukraine, Kiev	National Academy of Sciences of Ukraine, Institute of Economics	BMBF
Kick-Off-Conference Mod- Block-DDR project	16.-17.12.2018	University of Bremen	TU Berlin, Europe University Viadrina, Friedrich Schiller University Jena	BMBF

*DSS – Dieter Schwarz Foundation

Research visits and invitations abroad

Name	When?	Where?	Activity	Sponsors
Jutta Günther	21-27 Sept., 2014	Higher School of Economics Moscow (HSE) and University of Belgorod, Russia	Research visit at the Institute for Statistical Studies and Economics of Knowledge & research visit and scientific presentation at the University of Belgorod	DAAD
Jutta Günther	01-06 October, 2015	Higher School of Economics Moscow (HSE), Russia	Research and teaching visit at the Institute for Statistical Studies and Economics of Knowledge	HSE
Philipp Marek	22-28 Nov., 2015	Higher School of Economics Moscow (HSE), Russia	Research and teaching visit Institute for Industrial and Market Studies (IIMS)	HSE
Bärbel Holbein	17-20 April, 2016	Karel Engliš college in Brno, Czech Republic	Teaching visit	Erasmus
Philipp Marek	15-26 Aug., 2016	University of Ghent, Belgium	Research visit at the Department of Economics	University of Ghent, Belgium
Maciej Grodzicki	January to Dec. 2017	University of Sussex, GB	Long term research visit within the program P.R.I.M.E. (Postdoctoral Researchers International Mobility Experience)	DAAD
Maria Kristalova	27 Nov. - 01 Dec., 2017	Higher School of Economics Moscow (HSE), Russia	Research visit at the Institute for Industrial and Market Studies (IIMS)	DAAD
Maria Kristalova	July 21 - 02 Aug., 2018	University of the Free State, Bloemfontein, South Africa	Research and teaching visit	DAAD
Matheus Eduardo Leusin	26-29 Febr., 2019	Copenhagen Business School (CBS), Copenhagen, Denmark	Short term research visit including a scientific presentation	Copenhagen Business School
Mariia Shkolnykova	01-31 March, 2019	Nordic Institute for Studies in Innovation, Research and Education (NIFU) Oslo, Norway	Research visit	Bremen IDEA out

Guest researchers and visitors

	Name	Affiliation	Activity	When?
	Sunil Kanwar	Delhi School of Economics, India	Presentation in the Economic Colloquium	03.-04.06.2015
	Kristin Blesch		Student internship	01.- 19.06.2015
	Barbara Novotna Brezovska	Karel Englis College Brno, Czech Republic	Teaching visit	23.-26.06.2015
	John Hall	Portland State University, USA	Research and teaching visit	19.06.- 21.07.2015
	Udo Ludwig	Halle Institute for Economic Research, Germany	Presentation in the Economic Colloquium	14.07.2015
	Bruno Merlevede	University of Ghent, Belgium	Joint project and publication	13.-16.10.2015
	Gerard Verhoef	University of the Free State Bloemfontein, South Africa	Research and teaching visit	08.-20.11.2015
	Slavo Radosevic	London University College, UK	Joint project and publication	02.-04.11.2015
	Group of students	Nahda University in Beni Suef, Egypt	Participation lectures	26.11.2015
	Patrick Guggenberger	Pennsylvania State University, USA	Seminar in econometrics	16.-18.03.2016
	Maciej Grodzicki	Jagiellonian University Cracow, Poland	Presentation in the Economic Colloquium	11.-15.04.2016
	Dirk Meissner	Higher School of Economics Moscow, Russia	Lecture and student exchange program	17.-19.05.2016
	Igor Yegorov	Academy of Sciences, Institute for Economic Forecast, Ukraine	Joint project proposal (BMBF), Eval-Science project	26.-29.05.2016
	John Hall	Portland State University, USA	Joint teaching and research projects	14.06.- 17.07.2016
	Ksenia Gonchar	Higher School of Economics Moscow, Russia	Research and teaching visit	29.06.- 11.07.2016
	Judyta Lubacha-Sember	Cracow University of Economics, Poland	Research and teaching visit	12.-16.09.2016

	Gerard Verhoef	University of the Free State in Bloemfontein, South Africa	Research and teaching visit	31.10.-11.11.2016
	Reinhold von Ungern-Sternberg	Kirovsky Zavod, St. Petersburg, Russia	Teaching visit	01.-02.12.2016
	Maria Savona	University of Sussex, UK	Presentation in the Economic Colloquium	14.-16.12.2016
	Jens Hölscher	University Bournemouth, UK	PhD colloquium (second reviewer)	27.-28.03.2017
	Judyta Lubach-Sember	Cracow University of Economics, Poland	Research and teaching visit	08.-12.05.2017
	Tomasz Geodecki	Cracow University of Economics, Poland	Teaching visit	05.-09.06.2017
	Yang Song	Jilin University, School of Economics, China	Teaching visit	June 2017
	Michael Fritsch	Friedrich-Schiller-Universität Jena, Germany	Presentation in the Economic Colloquium	11.07.2017
	Ksenia Gonchar	Higher School of Economics Moscow, Russia	Joint project and publication	11.-22.09.2017
	Tomasz Geodecki	Cracow University of Economics, Poland	Teaching visit	June 10 to 16, 2018
	Federica Fiorini	University of Reading, UK	Joint project and publication	02.-04.07.2018
	Andrey Yakovlev	Higher School of Economics Moscow, Russia	Presentation in the Economic Colloquium	13.-23.08.2018
	Ksenia Gonchar	Higher School of Economics Moscow, Russia	Joint project and publication	03.-15.09.2018
	Patrick Wolf	Zentrum für Sonnenenergie- und Wasserstoff-Forschung Stuttgart, Germany	Presentation in the ierp doctoral seminar	06.11.2018
	Nerina Guri	London School of Economics, UK	Research visit, joint publication	01.10.-31.12.2018
	Judyta Lubach-Sember	Cracow University of Economics, Poland	Research and teaching visit	26.-31.11.2018
	Thomas Grebel	Technical University of Ilmenau, Germany	Presentation in the Economic Colloquium	29.01.2019

Teaching

Lectures, seminars, and projects

Teacher	Number	Title of the course	Type	SWS
Winter term 2018/19				
Muhammed Kudic	07-M37-8-05-04	Emergence of Innovation and Technology*	Seminar	2
Muhammed Kudic	07-M37-10-01-10	Project module – innovation economics*	Project	2
Summer term 2018				
Jutta Günther, Muhammed Kudic	07-B37-2-07-01	Mikroökonomie	Lecture	2
M. Kristalova, Tobias Wender	07-B37-2-07-02	Mikroökonomie	Excercise sessions	2
Jutta Günther	07-B37-6-26-07	Thesis seminar "Transition, Structural Change and Innovation"*	Seminar	1
Jutta Günther	07-M37-8-03-01	Innovation Economics: Empirics*	Seminar	2
Jutta Günther	07-S37-1-01-09	Advanced Innovation Studies*	Seminar	2
Jutta Günther	07-B35-4-17-03	History of Economic Thought*	Seminar	2
Bärbel Holbein	07-B37-4-13-07	Pharmaceutical Economics	Seminar	2
Gero Stenke	07-M37-10-03-13	Innovationsprozesse messen, bewerten, verbessern	Seminar	2
Winter term 2017/18				
Jutta Günther	07-B35-5-17-09	Internationalisation of Research and Innovation*	Seminar	2
Jutta Günther	07-B35-5-17-12	Economics of Transition *	Project	2
Jutta Günther	07-B37-5-25-01	Scientific Research Methods in Economics*	Seminar	2
Jutta Günther, Maria Kristalova	07-B37-5-27-01	Ökonomische Datenanalysen mit Stata	Seminar	2
Jutta Günther	07-M37-10-03-09	Innovation and Economic Policy*	Seminar	2
Muhammed Kudic	07-M37-10-01-10	Emergence of Innovation and Technology*	Seminar	2
Bärbel Holbein	07-M37-10-03-12	Innovation in Pharmaceutical Industry*	Seminar	2
Summer term 2017				
Jutta Günther, Muhammed Kudic	07-B37-2-07-01	Mikroökonomie	Lecture	2
M. Kristalova, Tobias Wender	07-B37-2-07-02	Mikroökonomie	Excercise sessions	2

Jutta Günther	07-B37-6-26-07	Thesis seminar "Transition, Structural Change and Innovation"*	Seminar	1
Jutta Günther	07-M37-8-03-01	Innovation Economics: Empirics*	Seminar	2
Jutta Günther	07-S37-1-01-09	Advanced Innovation Studies*	Seminar	2
Gero Stenke	04-M10-3-BWL08	Innovation Theory and Policy Applications	Seminar	2
Iciar Dominguez Lacasa	07-B37-6-13-29	Entrepreneurship and Innovation Networks*	Seminar	2
Winter term 2016/17				
Jutta Günther	07-B35-5-17-09	Internationalisation of Research and Innovation*	Seminar	2
Jutta Günther	07-B35-5-17-12	Economics of Transition*	Project	2
Jutta Günther	07-B37-5-25-01	Scientific Research Methods in Economics*	Lecture	2
Jutta Günther, Maria Kristalova	07-B37-5-27-01	Angewandte ökonomische Forschungsfragen unter Verwendung von Stata	Seminar	2
Jutta Günther	07-M37-8-05-01	Innovationsforschung in der wirtschaftspolitischen Beratung	Project plenum	2
Gero Stenke	07-M37-10-03-13	Innovationsprozesse messen, bewerten, verbessern	Project plenum	2
Iciar Dominguez-Lacasa	07-M37-10-03-06	Economics of Innovation in the Energy Sector*	Seminar	2
Summer term 2016				
Jutta Günther	04-M10-3-BWL08	Theory of Innovation and Innovation Management*	Lecture	2
Jutta Günther	07-B35-4-17-03	History of Economic Thought*	Seminar	2
Jutta Günther	07-B35-6-26-01	Thesis seminar for Bachelor students*	Seminar	1
Jutta Günther	07-M37-8-03-01	Innovation Economics: Empirics*	Seminar	2
Jutta Günther	07-M37-9-02-11	Technology Transfer and Economic Policy*	Seminar	2
Björn Jindra	07-M37-9-02-06	Understanding Global Value Chains*	Seminar	2
Bärbel Holbein	07-B37-4-13-07	Innovation Strategy and Sustainability in Life Sciences*	Seminar	2
Iciar Dominguez Lacasa	07-B37-6-13-29	Entrepreneurship and Innovation Networks*	Seminar	2
Philipp Marek	07-B37-4-39-01	Angewandte ökonometrische Projekte in der Wirtschaftspolitik - Eine Einführung in Stata und SOEP	Seminar	2

Winter term 2015/16				
Jutta Günther	07-B35-5-17-11	Internationalisation of Research and Innovation*	Seminar	2
Jutta Günther	07-B35-5-17-17	Economics of Transition*	Project	2
Jutta Günther	07-B37-5-25-01	Scientific Research Methods in Economics*	Seminar	2
Jutta Günther	07-M37-9-03-09	Innovation and Economic Policy*	Seminar	2
Björn Jindra	07-M37-9-01-06	Innovation and Economic Development in Emerging Markets*	Seminar	2
Bärbel Holbein	07-B37-5-13-14	Product Lifecycle Management*	Seminar	2
Iciar Dominguez-Lacasa	07-M37-10-03-06	Economics of Innovation in the Energy Sector*	Seminar	2
Philipp Marek	07-B35-5-17-12	Development Economics*	Seminar	2
Summer term 2015				
Jutta Günther	04-M10-3-BWL08	Theory of Innovation and Innovation Management*	Lecture	2
Jutta Günther	07-B35-4-17-07	History of Economic Thought*	Seminar	2
Jutta Günther	07-M37-8-03-01	Innovation Economics: Empirics*	Seminar	2
Jutta Günther	07-M37-8-04-01	Innovation Policy and Governance*	Seminar	2
Björn Jindra	07-M37-9-02-06	Understanding Global Value Chains*	Seminar	2
Bärbel Holbein	07-B37-4-13-07	Innovation Strategy and Sustainability in Life Sciences*	Seminar	2
Iciar Dominguez Lacasa	07-B37-6-13-29	Entrepreneurship and Innovation Networks	Seminar	2
Winter term 2014/15				
Jutta Günther	07-B35-5-17-12	Internationalization of Research and Innovation*	Seminar	2
Jutta Günther	07-B35-5-17-15	Economics of transition*	Project	2
Jutta Günther	07-B37-5-25-01	Scientific Research Methods in Economics*	Lecture	2
Jutta Günther	07-M37-8-05-01	Innovationsforschung in der wirtschaftspolitischen Beratung	Project	2
Iciar Dominguez Lacasa	07-M37-10-03-06	Economics of Innovation in the Energy Sector*	Seminar	2
Summer term 2014				
Jutta Günther	07-M37-8-05-01	Innovationsforschung in der wirtschaftspolitischen Beratung	Project	2
Jutta Günther	07-B35-5-17-12	Internationalization of Research and Innovation*	Seminar	2
Jutta Günther	04-M10-3-BWL08	Theory of Innovation*	Lecture	2
Jutta Günther	07-M37-8-04-01	Economics of Knowledge and Innovation*	Lecture	2

*in English language

Further activities

Representative of international relations

At the University of Bremen, each faculty appoints a representative of international relations to promote the internationalisation of research and teaching at the University of Bremen in close cooperation with the office of the rector and the central International Office. An important outcome of these joint activities has been the internationalisation strategy, an official document in which the University of Bremen presents its achievements and the future perspectives of the entire internationalisation process. From 2015 to 2019, Jutta Günther served as the representative of international relations of the Faculty of Business Studies and Economics. She took part in the strategic processes and consultations at the university level on the one hand, and supported the activities to internationalise the Faculty of Business Studies and Economics on the other hand. In this she closely collaborated with the Office for Practice and International Affairs at the faculty level.

As a result, a number of new cooperation agreements were initiated by Jutta Günther as the representative of international relations and her team, such as with the University of Portland (USA), the University of Perugia (Italy), the University of Ghent (Belgium), the Jagiellonian University of Cracow (Poland), and the National Research University – Higher School of Economics Moscow and St. Petersburg (Russia). These agreements, which are part of a large number of agreements of the Faculty of Business Studies and Economics, support joint research activities as well as student exchange and researcher mobility. Strategic partnerships of the Faculty exist with a number of universities in Europe as well as in China, Russia, South Africa, and Ukraine.



In the context of bi-lateral cooperation with the Higher School of Economics (Russia), Jutta Günther supported an application of the University of Bremen at the German Academic Exchange Service (DAAD) in the area of “Eastern Partnerships”. This application was successful for the funding period 2017-2019 and allowed intense student and researcher mobility. A new application has been submitted for the funding period 2020-2022. Further on, the International Office of the University of Bremen supports the exchange with the Higher School of Economics (Moscow and St. Petersburg) through individual scholarships for outstanding students.

UNIVERSITY OF THE
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FREISTATA



Another strategic partnership, which is financially supported by the German Academic Exchange Service (DAAD), has existed for many years with the University of the Free State Bloemfontein, South Africa. During her term as the representative of international relations Jutta Günther served as a member of the selection committee to appoint students from the Faculty of Business Studies and

Economics as candidates for an exchange semester at the University of the Free State, South Africa. The selection is based on written applications and interviews with the selection committee.



Faculty of
Business Studies and Economics

Who We Are and What We Do –
A Guide to Research and Teaching



Another activity of Jutta Günther as the representative of international relations and her team was the creation and realization of a 40 pages information brochure about the Faculty of Business Studies and Economics entitled “Who we are and what we do. A guide to research and teaching” in the year 2017 (first edition). It informs an international readership about the research of each working group of the faculty and about the study programs. The six research areas, which serve to this day as the structure of the faculty, were identified and agreed upon by the Faculty in the course of creating the booklet.

In March 2018, Jutta Günther and Maren Hartstock visited the University of Coventry, UK, in order to explore the possibilities to establish a student exchange agreement within the Erasmus program and beyond. The mutual consultations and exchanges led to the first student exchange agreement of the Faculty of Business Studies and Economics with a university in the UK. International students are particularly attracted by the “Summer Lab” activities of the Faculty in Bremen, a combined program of regular credit point courses and practical training experiences working with companies in Bremen.

The exchange with Coventry has deepened since then, and in addition to the exchange program each year a group of students and teachers from the University of Coventry visits the University of Bremen when they carry out their field trip activities in Germany.



Visit from the University of Coventry in Bremen 2018, Photo: University of Bremen

Scientific advisory boards and committees

When?	Who?	Activity
Since 2019	Jutta Günther	Member of the Scientific Advisory Board of the Research Centre for Eastern Europe (FSO), an affiliated institute at the University of Bremen
Since 2018	Jutta Günther	Member of the German-Korean Consultative Body on Unification Issues at the Federal Government Commissioner for the "Neue Länder"
2018	Jutta Günther	Member of the advisory board of the project "Technology Report 2018" of the State Ministry for Economy, Labour and Transport in Saxony
Since 2018	Jutta Günther	Member of the scientific advisory board of the Leibniz Wissenschaftscampus Halle - Pflanzenbasierte Bioökonomie (WCH)
Since 2018	Jutta Günther	Member of the Executive Board of the "Netzwerk für Ökonomische Bildung und Beratung" (NÖBB)
Since 2017	Jutta Günther	Member of the scientific advisory group "Innovation and Technology Analyses" at the Federal Ministry of Education and Research (BMBF)
Since 2017	Jutta Günther	Member of the consulting group in the project "go diverse", University of Bremen
Since 2017	Muhamed Kudic	Member of the Scientific Committee of the INNcentive Program
Since 2015	Jutta Günther	Member of the scientific advisory board of Wissenschaftsstatistik GmbH in the Stifterverband (national R&D survey in Germany)
Since 2015	Muhamed Kudic	Research Area Coordinator RA [X] 'Networks', European Association for Evolutionary Political Economy (EAEPE)
2018	Jutta Günther	Member of the expert jury appointed by the Ministry of Science of Mecklenburg-Vorpommern in the Excellence Initiative of the federal state
2017	Jutta Günther	Member of the expert jury at the BMBF "Strengthening the innovation-relevant framework conditions and applied research in MENA partner countries"
2017	Jutta Günther	Member of the expert jury appointed by the BMBF to select projects in the call for proposals "Further Development of Indicators for Research and Innovation"
2016	Jutta Günther	Member of the expert jury appointed by the Ministry of Science of Mecklenburg-Vorpommern in the Excellence Initiative of the federal state
2014	Jutta Günther	Member of the advisory board of the project "Technology Report 2015" of the State Ministry of Science and the Arts in Saxony

Associations and further initiatives



Since 2015, Muhamed Kudic serves as coordinator of the research area RA[X] 'Networks' within the European Association for Evolutionary Political Economy (EAEPE). The research area organises sessions during the annual EAEPE conferences where most of the recent research from the international community is presented. Furthermore, Muhamed Kudic organises a workshop related to the [X] 'Networks' research topics every year, which have so far taken place in Essen (2015), Bochum (2016), Bremen (2017), and Budapest (2018). In 2019, the workshop will take place in Stuttgart.



Since 2017, Jutta Günther serves as a member of the advisory board for the project "go diverse". The objective of "go diverse" is to support gender equality and diversity in recruiting processes at the University of Bremen. The project is a cooperative initiative between the Vice President for International Affairs and Diversity and the Equal Opportunity Unit of the University of Bremen.



Since 2017, all members of the working group attend a one-week seminar in innovation economics in Thiessow jointly with working groups from the Friedrich Schiller University Jena and the Technical University Ilmenau. These seminars give particularly young scholars the chance to present their work in progress and to discuss. Thiessow is a village in Mecklenburg-Vorpommern, Germany, on the Baltic Sea.



Since 2018, Jutta Günther is a member of the steering group of the Bremen Research Center for Energy Systems (BEST). BEST is an interdisciplinary initiative including scientists from four faculties of the University of Bremen conceived in order to bundle research activities related to energy questions. As a platform of joint research interest, the BEST initiative engages in joint third-party funding, strengthening regional developments in energy research and bundling university as well as outside university research competencies in the field of energy systems.



In the year 2018, the Network for Economic Education and Consulting (NÖBB) was founded by a number of economists from Germany and Austria in order to promote

young scholars, especially doctoral students interested in pluralism of economic research methods and policy advice. Jutta Günther serves as a member of the executive board and as a teacher of the first summer school organised by the Network in Bochum in September 2019.



In 2018, young scientists of the working group together with further colleagues of the Institute of Economic Research and Policy (ierp) founded the “ierp Round Table”. The meetings serve as a discussion forum on topics related to sustainability and economics, and they are open to all members of the

University of Bremen interested in participation.

Dual professional training

In the Bremen public service, every year a large number of young people start their career within the dual professional training system (*duale Ausbildung*), a combination of theoretical and practical education which involves both schooling and in-firm training. The dual professional training of the Bremen public sector is organised by the Educational Center (*Aus- und Fortbildungszentrum*, AFZ). The in-firm part of training usually takes place in cooperation with different departments of the Bremen public service. Thereby, trainees switch between different departments during their three years of education.



Since the year 2016, the working group serves as a unit that provides positions for in-firm training, mainly in the area of secretarial and managerial operations. Marcel Lange, technical assistant of the working group, who successfully passed the exam to become a training supervisor, serves as the instructor for the working group's trainees and as a contact person to the AFZ.

Since 2016, the working group offered practical training for three trainees who joined the working group for 10 to 12 months. They learn to apply theoretical knowledge and support the working group in their daily work by means of secretarial and general assistance.

Alumni

Iciar Dominguez Lacasa	From October 2014 to September 2016, Iciar Dominguez Lacasa was head of the early stage research group "New Technologies". She successfully graduated with a postdoc degree (<i>Habilitation</i>) in November 2015, and is now a Professor of Economics at the Technical University of Applied Sciences Wildau, Germany.
Maciej Grodzicki	From December 2016 to May 2018, Maciej Grodzicki was a scientific employee in the project "Global value chains, technological capabilities and economic development", financed by the German Academic Exchange Service (DAAD). He is now an Assistant Professor of Economics at the Jagiellonian University in Cracow, Poland.
Bitu Kamali	Bitu Kamali was a trainee as a "Verwaltungsfachangestellte" (Administrative Professional) working in the secretarial office of our research group from September 2017 to January 2018. She is continuing her professional education in other parts of the public service in Bremen.
Maria Kristalova	Maria Kristalova was a scientific employee and doctoral candidate in our research group from November 2015 to October 2018. She is now a postdoc candidate at the Friedrich Schiller University of Jena, Germany.
Judyta Lubacha-Sember	Judyta Lubacha-Sember was a visiting PhD candidate from October 2015 to June 2016. Her visit was funded by the German Academic Exchange Service (DAAD). She is now an Assistant Professor of Economics at the Jagiellonian University in Cracow, Poland.
Philipp Marek	Philipp Marek was a scientific employee and postdoc candidate in our research group from October 2014 to August 2016. He is now employed at the German Central Bank.
Nicole Nulsch	From 2014 to 2017, Nicole Nulsch was an external PhD candidate in our working group. In March 2017, she successfully graduated with her doctoral degree. She holds a leading position at the Verbundnetz AG in Leipzig.
Marion Cornelia Schwärzler	From 2017 to 2018, Marion Cornelia Schwärzler was an external PhD candidate. In October 2018, she successfully graduated with her doctoral degree. She now holds a position as data science consultant at the Deloitte Analytics Institute in Berlin.
Mahmood Shubbak	Mahmood Shubbak was a scientific employee and doctoral candidate in our research group from April 2015 to March 2018. In April 2018, he successfully graduated with his doctoral degree from the University of Bremen.

Tong-Yaa Su	From January 2016 to August 2017, Tong-Yaa Su was a scientific employee in our research group, working on the project "Innovation in Emerging Economies" funded by the Federal Ministry of Education and Research.
Anastasiia Tceluiko	From September 2016 to September 2017, Anastasiia Tceluiko was a visiting PhD candidate and scholarship holder of the Russian Presidential Program. She is now an employee at the regional administration of Tyumen, Russia.
Ella Wentland	Ella Wentland was a trainee as “Kauffrau für Büromanagement” (office management) working in the secretarial office from June 2016 to June 2017. She successfully completed her professional training and is now employed in the Bremen public service.

Cooperation partners



**Copenhagen
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POLICY FORUM
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