

Prof. Dr. Irene Bertschek

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Research Department Digital Economy
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Current Positions

Head of Digital Economy Department at ZEW – Leibniz Centre for European Economic Research
Professor for Economics of Digitalisation, Economics Department, Justus Liebig University Giessen

Research Interests

Industrial Economic Aspects of Digitalisation, especially the effects of digitalization on innovation, productivity and work organization in firms.

Economic Impact of Social Media, digital markets and platforms.

Empirical analyses of firm data and web-based data, applied microeconometrics.

Education

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| 1996 | Doctorate (Ph.D.) in Economics, Université catholique de Louvain, Louvain-la-Neuve, Belgium, graduating the “European Doctoral Programme in Quantitative Economics”,
Secondary University : École des Hautes Études en Sciences Sociales (EHESS), Paris
Thesis title: “Semiparametric Analysis of Innovative Behavior”
Supervisor: Prof. Dr. Wolfgang Härdle
Committee: Luc Bauwens and Léopold Simar (Louvain-la-Neuve), Michel Delecroix (ENSAE, Paris), Stephen Machin (UCL, London) |
| 1992 | M.A. Economics (Diplom), University of Mannheim, Germany |
| 1991 | M.A. Economics, Université catholique de Louvain, Louvain-la-Neuve, Belgium |
| 1985-1992 | Economics Studies at University of Mannheim and Université catholique de Louvain, Louvain-la-Neuve, Belgium; Specialisation: Industrial Economics and Econometrics |

Professional and Academic Career

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|------------|---|
| since 2001 | Head of Research Department Information and Communication Technology (ICT), now Digital Economy, ZEW Mannheim, Germany |
| since 2017 | Professor for Economics of Digitalisation, Economics Department of Justus Liebig University Giessen, Germany |
| 2011-2017 | Professor for Applied Empirical Economic Research, Economics Department of University of Mannheim |
| 2000-2001 | Head of Project Team Digital Economy at ZEW in preparation of the new research department ICT |
| 1999-2001 | Researcher at ZEW in the research department Industrial Economics and International Management |
| 1996-1999 | Birth of a daughter and subsequent parental leave |
| 1994-1996 | Researcher at Institut de Statistique (Prof. Léopold Simar), Université catholique de Louvain, Louvain-la-Neuve, Belgium (EU Scholarship) |
| 1994 | Researcher at Humboldt-University, Berlin, in the Collaborative Research Centre 373 (Quantification and Simulation of Economic Processes), with Prof. Dr. Wolfgang Härdle |
| 1992-1993 | Research Visit at Centre de Recherche en Économie et Statistique (CREST-INSEE), Paris, France (Scholarship by DAAD / French Government) |
| 1992 | Student Assistant (with degree) at University of Mannheim, Chair of Economics, particularly Econometrics, Prof. Dr. Dr. h.c. Heinz König |
| 1988-1990 | Student Assistant at University of Mannheim, Chair of Economics, particularly Econometrics, Prof. Dr. Dr. h.c. Heinz König |

Honors and Fellowships

2018	Award for the best economic policy consulting project, Sponsors' Association for Science and Practice, ZEW Mannheim
1994-1996	Human Capital and Mobility Individual Scholarship of the European Union (Programme preceding Marie Curie Fellowships)
1992-1993	Fellowship of the French Government and the German Academic Exchange Service (DAAD)
1992	Master's Dissertation Award of the Karin-Islinger-Stiftung, Mannheim
1990-1991	Erasmus Scholarship of the European Union

Research Visits

07-08/2019	King's College London, UK, King's Business School, Prof. Mary O'Mahony
07/2019	Friedrich Schiller University Jena, Chair of Microeconomics, Prof. Dr. Uwe Cantner
06/2012, 01/2011, 10/2009	Faculté des Sciences Économiques, University of Rennes, France, Prof. Dr. Thierry Pénard
07-08/2008	Department of Business Administration, Entrepreneurship, University of Zurich, Prof. Dr. Ulrich Kaiser

Teaching

2023	Lecture (Master), „The Economics of Digitalisation“, JLU Giessen
2022 - 2023	Seminar (Master), „Digitalisierung und der Wandel der Arbeitswelt“, JLU Giessen
2022	Lecture (Master), „The Economics of Digitalisation“, JLU Giessen
2021 - 2022	Seminar (Master), „Digitalisierung und der Wandel der Arbeitswelt“, JLU Giessen
2021	Lecture (Master) „The Economics of Digitalisation“, JLU Giessen
2020	Seminar (Master) „The Economics of Cybersecurity“, JLU Giessen
2019-2020	Lecture (Master) „The Economics of Digitalisation“, JLU Giessen
2019	Seminar (Master) „The Economics of Artificial Intelligence“, JLU Giessen
2018	Seminar (Master) „Digital Markets and Platforms“, JLU Giessen
2018 - 2019	Lecture (Master) „The Economics of Digitalisation“, JLU Giessen
2018	Seminar „Ökonometrie – eine praxisorientierte Einführung“, ZEW Mannheim
2011 - 2016	Lecture (Bachelor Elective) „Angewandte Mikroökonometrie mit Stata/ Applied Microeconometrics with Stata“, University of Mannheim
2011, 2013 - 2016	Seminar (Bachelor/Master) „The Economics of ICT“, University of Mannheim, Germany
2009, 2011 - 2012	Courses on „Economics of ICT“ in the Master's programme at the Faculté des Sciences Économiques, University of Rennes, France
2001	Lecture "VWL/Mikroökonomie“, FH Ludwigshafen am Rhein, Germany
2001	Applied Econometrics-Course, ZEW Mannheim
1987 - 1989	Tutor for Microeconomics, University of Mannheim, Germany

Professional Affiliations

since 2022	Member of the Future Council of the Federal Chancellor
since 2019	Member of the Commission of Experts for Research and Innovation (EFI), advising the German Federal Government, Vice Chair since 2022
2020, 2022	Jury of Innovation Award for Regulatory Sandboxes, Federal Ministry for Economic Affairs and Climate Action
since 2018	Member and Deputy President of the Steering Committee of the Swiss National Science Foundation's National Research Programme „Digital Change“
since 2018	Member of Plattform Lernende Systeme – Germany's Platform for Artificial Intelligence, Working Group 4: Business Model Innovations, acatech – National Academy of Science and Engineering
since 2018	Member of the Metropolitan Region Rhine-Neckar's Scientific Advisory Board
since 2018	Member of the Thuringian Programme Commission, Thuringian Ministry of Economics, Science and Digital Society

since 2015	Member of the High Level Group of the Plattform “Innovative and sustainable Digitalisation of the Economy” of the Federal Ministry for Economic Affairs and Climate Action of the National IT Summit chaired by the Federal Minister and the President of BITKOM, formerly Plattform “Innovative Digitalization of the Economy”, formerly member of Working Group 1 “Digital Economy in Germany”
since 2013	Member of the Selection Committee of the Research Award “The Future of Work” of the Volksbank Weinheim Foundation and ZEW
since 2011	Member of the Expert Advisory Board of “Software made in Germany”, a quality seal by the Federal Association of IT-SMEs (Bundesverband IT-Mittelstand (BITMi e.V.)
since 2009	Member of the German Economic Association (“Verein für Socialpolitik”)
2018-2022	Member of the Facebook’s Discussion Round on Digitality and Responsibility
2016-2021	Member of the Executive Committee of the Research Alliance ForDigital (“Digitalization: transformation as a social-economical process”), Mannheim and Karlsruhe
2017-2019	Member of the Project Group Digital Change, Leibniz-Gemeinschaft
2015-2018	Member of the Board of Directors of Leibniz-WissenschaftsCampus Mannheim Centre for Competition and Innovation (MaCCI)
2015-2016	Member of the Expert Group “Arbeiten 4.0” of the Federal Ministry of Labour and Social Affairs, chaired by State Secretary Thorben Albrecht
2014-2015	Member of the Council for Innovation and Competitiveness chaired by the Minister of Finance and Economics of Baden-Württemberg, Dr. Nils Schmid
2012-2018	Member of the Research Council Field of Focus 4 at the University of Heidelberg "Self-Regulation and Regulation: Individuals and Organisations", within the Framework of the Excellence Initiative

Services to the Profession

Editorship:

Associate Editor *Information Economics and Policy*

International Editorial Board *Telecommunications Policy*

Refereeing:

Economic Development and Cultural Change, Economics of Innovation and New Technology, Electronic Markets, Information Economics and Policy, International Journal of Industrial Organization, International Journal of the Economics of Business, Journal of Economic Behavior & Organization, Journal of Economic Growth, Journal of Industrial Economics, Management Science, Managerial and Decision Economics, Regional Studies, Research in Transportation Economics, Research Policy, Review of Economics and Statistics, Review of Industrial Economics, Review of Industrial Organization, Review of World Economics, Schmollers Jahrbuch, Southern Economic Journal, The World Economy, Zeitschrift für Betriebswirtschaft.

Federal Ministry of Education and Research, German Research Association (DFG), EU Commission in the 7th Framework Programme for Research, Swiss National Fund, Thyssen Foundation, Thuringian Programme Commission, Research Commission Lower Saxony.

Conference Organization

since 2003 Co-Organisation of the yearly ZEW Conference “The Economics of Information and Communication Technologies”

Publications

Publications in Refereed Journals:

German Financial State Aid During COVID-19 Pandemic: Higher Impact Among Digitalized Self-Employed, Entrepreneurship & Regional Development, forthcoming (with Joern Block, Alexander Kritikos und Caroline Stiel). DOI: [10.1080/08985626.2023.2196267](https://doi.org/10.1080/08985626.2023.2196267)

Political Ignorance and the Internet, Journal of Economics and Statistics (JBNST), 2022 (with David Müller). DOI: <https://doi.org/10.1515/jbnst-2021-0066>

Let the User Speak: Is Feedback on Facebook a Source of Firms’ Innovation?, Information Economics and Policy, Volume 60, 100991, 2022 (with Reinhold Kesler).

ICT and Resilience in Times of Crisis: Evidence from Cross-Country Micro Moments Data, Economics of Innovation and New Technology 28(8), S. 759–74, 2019 (with Michael Polder and Patrick Schulte).

- IT Outsourcing—A Source of Innovation? Microeconomic Evidence for Germany, *Managerial and Decision Economics* 38(7), S. 941–54, 2017 (with Daniel Erdsiek and Manuel Trenz).
- Mobile and More Productive? Firm-level Evidence on the Productivity Effects of Mobile Internet Use, *Telecommunications Policy* 40(9), S. 888–98, 2016 (with Thomas Niebel).
- The Economic Impacts of Broadband Internet: A Survey, *Review of Network Economics* 14(4), S. 201–27, 2015 (with Wolfgang Briglauer, Kai Hüschelrath, Benedikt Kauf and Thomas Niebel).
- Trade and Technology: New Evidence on the Productivity Sorting of Firms, *Review of World Economics* 151(1), S. 53–72, 2015 (with Jan Hogrefe and Fabienne Rasel).
- More Bits - More Bucks? Measuring the Impact of Broadband Internet on Firm Performance, *Information Economics and Policy* 25(3), S. 190–203, 2013 (with Daniel Cerquera and Gordon J Klein).
- Wissensvermittlung versus Legitimationsfunktion, *Zeitschrift für Betriebswirtschaft* 81(12), S. 1379–99, 2011.
- Do Older Workers Lower IT-enabled Productivity? Firm-Level Evidence from Germany, *Jahrbücher für Nationalökonomie und Statistik* 229(2+3), S. 327–42, 2009 (with Jenny Meyer).
- B2B or Not to Be: Does B2B E-Commerce Increase Labour Productivity?, *International Journal of the Economics of Business* 13(3), S. 387–405, 2006 (with Helmut Fryges and Ulrich Kaiser).
- Productivity Effects of Organizational Change: Microeconomic Evidence, *Management Science* 50(3), S. 394–404, 2004 (with Ulrich Kaiser).
- Informationstechnologien, organisatorische Veränderungen und Entlohnung, Löhne und Beschäftigung 36, S. 599–615, 2003 (with Alexandra Spitz-Oener).
- Convenient Estimators for the Panel Probit Model, *Journal of Econometrics* 87(2), S. 329–71, 1998 (with Michael Lechner).
- On Nonparametric Estimation of the Schumpeterian Link between Innovation and Firm Size: Evidence from Belgium, France, and Germany, *Empirical Economics* 21(3), S. 401–26, 1996 (with Horst Entorf).
- Product and Process Innovation as a Response to Increasing Imports and Foreign Direct Investment, *The Journal of Industrial Economics*, S. 341–57, 1995.

Publications in Non-refereed Journals/ Policy Papers:

- Digitalisierung – der Corona-Impfstoff für die Wirtschaft, *Wirtschaftsdienst* 100(9), S. 653–656, 2020.
- Soloselbstständigkeit in der Corona-Krise: Digitalisierung hilft bei der Bewältigung der Krise, *ZEW-Kurzexpertise* 20-08, 2020 (with Daniel Erdsiek).
- Cybersicherheit und Innovationen: Ergebnisse einer repräsentativen Umfrage, *ZEW-Kurzexpertise*(20-01), 2020 (with Rebecca Janßen).
- Kommentar zur EU-Datenstrategie: Mit gutem Beispiel vorangehen, *Wirtschaftsdienst* 100(3), S. 153, 2020.
- Die digitale Ökonomie und die neuen Weltmarktführer, *ifo Schnelldienst* 72(15), 2019.
- Die acht Schritte zur Digitalisierung, *Industry of Things*, 5.8.2019 (with Thomas Armbrüster and Gerrit Sames).
- Digitalisierungsstrategie – das Matrjoschka-Prinzip, *Wirtschaftsdienst* 98(12), S. 834–35, 2018.
- Digitalisierung in der deutschen Wirtschaft: Hält der Mittelstand Schritt?, *AWV Informationen Heft*(5), 2018.
- Genug der Fakten – jetzt ist Handeln gefragt!, *ifo Schnelldienst* 13 71, S. 10–11, 2018.
- Wie die Digitale Transformation der Wirtschaft gelingt, *ZEW policy brief* Nr. 18-05, 2018 (with Wolfgang Briglauer).
- Does Engaging with Customers on Facebook Lead to Better Product Ideas?, *Harvard Business Review*, 2017 (with Reinhold Kesler).
- The ZEW ICT Survey 2002 to 2015: Measuring the Digital Transformation in German Firms, *Journal of Economics and Statistics* 238(1), S. 87–99, 2017 (with Jörg Ohnemus and Steffen Viète).
- Europe's Digital Future: Focus on Key Priorities, *ZEW policy brief* Nr.16-02, 2016 (with Jörg Ohnemus).
- Industrie 4.0: Digitale Wirtschaft - Herausforderung und Chance für Unternehmen und Arbeitswelt, *ifo Schnelldienst* 10 68, S. 3–5, 2015 (with Reiner Clement, Daniel Buhr, Hartmut Hirsch-Kreinsen, Oliver Falck, Alexandra Heimisch, Anita Jacob-Puchalska and Andreas Mazat).
- Produktivität IT-basierter Dienstleistungen - Wie kann man sie messen und steuern?, *ZEW-Dokumentation* Nr.14-02, 2014 (with Thomas Niebel, Jörg Ohnemus, Fabienne Rasel, Marianne Saam, Patrick Schulte, Katrin Schleife, Andreas Stiehler, Tobias Ortwein, Armin Heinzl and Marko Nöhren).
- The Division of Tasks, Offshoring and Efficiency Gains, *ZEW policy brief* Nr.13-05, 2013 (with Bas ter Weel, Lex Borghans, Jan Hogrefe, Suzanne Kok, Fabienne Rasel and Marianne Saam).
- Herausforderungen für die deutsche Wirtschafts- und Finanzpolitik in der Legislaturperiode 2013-2017, *ZEW policy brief* Nr.13-08, 2013 (with Holger Bonin, Jürgen Egel, Clemens Fuest, Friedrich Heinemann, Kai Hüschelrath, Marcus Kappler, Georg Licht and Michael Schröder).

Zeitgespräch: Neue Informations- und Kommunikationstechnik: Lösung für den Arbeitsmarkt der Zukunft? - Vernetzt, mobil, sozial - Potenziale für Innovationen und Produktivität?, Wirtschaftsdienst 92(11), S. 728–31, 2012.

Discussion Papers / Work in Progress:

Digitalisation and Heterogeneity, work in progress.

Diversify or not? – The Link between Global Sourcing of ICT Goods and Firm Performance, work in progress (with Alexander Schiersch and Thomas Niebel).

Firm Digitalisation and Mobility – Do Covid-19-related Changes Persist?, ZEW Discussion Paper No. 23-011 (with Janna Axenbeck, Patrick Breithaupt and Daniel Erdsiek).

German Financial State Aid during COVID-19 Pandemic: higher Resilience among Digitalized Self-Employed, ZEW Discussion Paper No. 22-045, DIW Discussion Paper 2018 / 2022, IZA Discussion Paper No. 15608 (with Jörn Block, Alexander Kritikos and Caroline Stiel).

Survey: The Self-employed's Situation during the Covid-19 Pandemic in Germany 2020, DIW Data Documentation 102, Berlin (with Jörn Block, Alexander Kritikos, Maximilian Priem and Caroline Stiel).

Monographs/ Contributions to Edited Volumes:

IT-Sicherheit aus ökonomischer Perspektive, in: Prof. Dr. Gerrit Hornung, LL.M. und Martin Schallbruch (Hrsg.), IT-Sicherheitsrecht - Praxishandbuch, 1. Auflage, Nomos Verlagsgesellschaft, 63-74, 2021 (with Rebecca Janßen and Jörg Ohnemus).

ICT, Internet and Worker Productivity, in: Steven N. Durlauf and Lawrence E. Blume (Hrsg.), The New Palgrave Dictionary of Economics, London, Palgrave Macmillan UK, S. 1–8, 2012.

Productivity Effects of IT-Outsourcing: Semiparametric Evidence for German Companies, in: Wolfgang Härdle, Stefan Sperlich and Gökhan Aydinli (Hrsg.), The Art of Semiparametrics, Heidelberg, Physica-Verlag, S. 130–54, 2006 (mit Marlene Müller).

Führt IT-Nutzung zu altersfeindlicher Reorganisation von Arbeit? Eine Untersuchung auf Grundlage der IKT-Umfrage des ZEW, in: Bernd Fitzenberger, Werner Smolny und Peter Winker (Hrsg.), Herausforderungen an den Wirtschaftsstandort Deutschland, S. 249–63, 2004.

Information Technology and Productivity Gains and Cost Savings in Companies, in: Derek C. Jones (Hrsg.), New Economy Handbook, Amsterdam, Elsevier Academic Press, S. 213–28, 2003.

IKT-Einsatz, Arbeitsplatzorganisation und Produktivität: Empirische Evidenz für unternehmensnahe Dienstleister, in: Lutz Bellmann und Arnd Kölling (Hrsg.), Betrieblicher Wandel und Fachkräftebedarf, Nürnberg, S. 85–97, 2002 (mit Ulrich Kaiser).

Produktivitätseffekte organisatorischer Veränderungen, in: Uschi Backes-Gellner, Matthias Kräkel, Dieter Sadowski und Johannes Mure (Hrsg.), Entlohnung, Arbeitsorganisation und personalpolitische Regulierung. Beiträge zum 4. Köln-Bonner-Kolloquium zur Personalökonomie, München und Mering, S. 73–85, 2001 (mit Ulrich Kaiser).

Semiparametric Analysis of Innovative Behavior. Doctoral Thesis, Nouvelle Série No. 272, CIACO, Louvain-la-Neuve, Belgium, 1996.

Das Arbeitsangebot verheirateter Frauen im Lebenszyklus: Eine deskriptive Analyse einer Längsschnittstichprobe aus dem Sozio-ökonomischen Panel, in: Ulrich Rendtel und Gert Wagner (Hrsg.), Lebenslagen im Wandel: Zur Einkommensdynamik in Deutschland seit 1984, Projektgruppe: Das Sozio-ökonomische Panel im Deutschen Institut für Wirtschaftsforschung, Campus, S. 34–62, 1991 (mit Michael Lechner und Inés M. Ulloa).

Projects

Project lead

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|-----------------|---|
| 05/2021-04/2024 | Incentives and Economics of Data Sharings (IEDS), Federal Ministry of Education and Research, with IW, Fraunhofer IAO, IIM/TU Dortmund, Fraunhofer ISST. |
| 02/2021-03/2021 | Opportunities and Challenges of Digitalisation in the State of Baden-Wuerttemberg 2021, State Ministry of the Interior, for Digitalisation and Migration Baden-Württemberg. |
| 06/2019-12/2024 | Measurement of Digitalisation of the German Economy; Federal Ministry for Economic Affairs and Climate Action; with IW, IW Consult, FIR/RWTH and DIW. |
| 04/2019-04/2022 | digilog@bw – Digitalisation in Dialogue; State Ministry of Science, Research and the Arts, Baden-Württemberg; Coordination jointly with Thomas Fetzner. |
| 01/2019-12/2021 | SEEK-Projekt 2019: Digitalisation and Heterogeneity; State of Baden-Württemberg; Coordination jointly Steffen Viète. |
| 06/2018-05/2021 | Taxation in the Era of Digital Transformation; Network Project Leibniz Association; Coordination jointly with Katharina Nicolay and Christoph Spengel. |

01/2018-05/2018	Opportunities and Challenges of the Digital Eco-System of the State of North Rhine-Westphalia; State Ministry for Economic Affairs, Innovation, Digitalisation and Energy, North Rhine Westphalia.
12/2017-12/2019	Contribution of Digitisation to Productivity in the Construction Industry (BBSR).
08/2017-02/2018	Monitoring of the Digital Transformation in Baden-Württemberg; State Ministry for Economic Affairs, Labour and Housing; with Kantar TNS.
06/2017-05/2018	Work 4.0 – Opportunities and Challenges for Luxembourg; Ministry of Labour, Chamber of Employees, Luxembourg.
06/2017-07/2017	Opportunities and Challenges of Digitalisation in the State of Baden-Wuerttemberg; State Ministry of Science, Research and the Arts, Baden-Württemberg.
04/2017-10/2017	Incentivising Investment in the Digitalisation of SMEs; Federal Ministry for Economic Affairs and Energy; Coordination jointly with Marianne Saam.
01/2017-08/2018	Rational Ignorance in the Digital Age – A Meta-Analysis; ZEW Sponsors' Association for Science and Practice; Coordination jointly with Friedrich Heinemann.
04/2016-03/2019	SEEK-Project 2016: Digital Markets and Platforms; State of Baden-Württemberg; Coordination jointly with Kai Hüschelrath.
09/2015-08/2017	Expert Dialogue Regulatory Framework for the Digital Economy; Federal Ministry for Economic Affairs and Energy; Coordination jointly with Kai Hüschelrath.
07/2015-12/2018	Monitoring Digital Economy; Federal Ministry for Economic Affairs and Energy; with Kantar TNS.
02/2015-05/2015	The Impact of Digitalisation on Future Labour Markets; Economix Research & Consulting and the Federal Ministry of Labour and Social Affairs.
04/2014-03/2017	Challenges and Opportunities Arising from Ubiquitous Working; Leibniz Association; Coordination together with Holger Bonin and Susanne Steffes.
04/2014-03/2016	SEEK Project 2014: Resilience in Times of Crisis: The Role of ICT; Evidence for Europe; with Michael Polder, Statistics Netherlands and Eric Bartelsman, FU Amsterdam.
09/2013-08/2015	Does Extrovertedness Pay off? An Empirical Analysis of the Role of Social Media for Firm Success; Fritz Thyssen Foundation.
10/2012-12/2019	Monitoring the German Cultural and Creative Economy; Federal Ministry for Economic Affairs and Technology; with Fraunhofer Institute for System- and Innovation Research.
08/2012-03/2013	Quality Differences in Telecommunication Services and Firms' Innovation Activity in Germany; Deutsche Telekom AG.
06/2012-05/2015	Monitoring the German Information and Communication Economy; Federal Ministry of Economics and Technology; Coordination with TNS Infratest.
08/2011-12/2013	Net Neutrality – Governmental Support and Options; Federal Ministry of Economics and Technology.
05/2011-10/2011	Internationalisation of German ICT Companies; Federal Ministry of Economics and Technology.
04/2011-09/2012	SEEK-Project 2011: The Division of Tasks, Offshoring and the Competitiveness of Europe's Knowledge Economy; with Bas Ter Weel, CPB Netherlands and Lex Borghans, University of Maastricht.
12/2010-02/2014	The Productivity of IT-based Services (ProdIT); Bundesministerium für Bildung und Forschung; with Pierre Audoin Consultants (PAC) and Armin Heinzl, University of Mannheim.
09/2010-08/2012	ICTNET - Coordinated Support Action for Research on the Economics of ICT: Project within the 7 th EU-Framework Programme; Coordination OECD; Coordination of the Research Field ICT, Productivity and Growth.
03/2010-02/2013	SERVICEGAP – The Impact of Service Sector Innovation and Internationalisation on Growth and Productivity: within the 7 th EU-Framework Programme; Coordination of the Project Mary O'Mahony, University Birmingham; Lead of Work Package on Firm Strategies in the Knowledge-based Economy.
01/2010-03/2011	Effects of Advertising and Marketing in the Web 2.0 on Sales; ZEW Sponsors' Association for Science and Practice.
12/2009-03/2010	The Role of Broadband Internet for Corporate Success; Deutsche Telekom AG.
09/2009	Analysis and Assessment of the Economic Potential of the New Technologies Supporting the "Internet of Services"; Federal Ministry of Economics and Technology; Coordination with Berlecon Research, Business School of Service Management Hamburg and Pierre Audoin Consultants.

02/2009-06/2009	Broadband Infrastructure and Employment; Deutsche Telekom AG.
01/2009-09/2009	Adoption of Social Software and Innovative Ability of Service Firms; ZEW Sponsors' Association for Science and Practice.
01/2008-12/2009	Survey among IT Experts; with LEXTA Consultants Group.
01-09/2008	Business Process Outsourcing: Determinants and Effects on Company's Competitiveness; ZEW Sponsors' Association for Science and Practice.
01/2006-06/2008	Innovative Capabilities and the Role of Consultants in the Information Economy; Volkswagen Foundation; with Michael Faust, SOFI Göttingen and Alfred Kieser, University of Mannheim.
09/2005-08/2008	Corporate Governance and Structures of Qualification in Higher Education; Subproject within the DFG Research Group "Heterogeneous Work: Positive and Normative Aspects of the Qualification Structure"; with Oliver Fabel and Heinrich Ursprung, University of Konstanz; joint coordination of the subproject.
09/2005-02/2008	Internationalisation of the IT-related Services Sector (INTERDIG); Federal Ministry of Education and Research; with Berlecon Research, RWI Essen and University of Mannheim (Chair Armin Heinzl); Coordination of the subproject.
09/2005-03/2007	IT-Outsourcing, Competitiveness and Employment: Analyses based on Firm-level Data; Foundation of the State of Baden-Württemberg.
01/2005-03/2009	FAZIT Research Project for Current and Future-Oriented IT and Media Technologies and their Use in Baden-Württemberg; State Ministry Baden-Württemberg; jointly with Fraunhofer Institute for System- and Innovation Research (ISI) and MFG Foundation Baden-Württemberg; Coordination of the ZEW-Subproject.
02/2002-07/2004	Sales Activities and Pricing Strategies in Digital Markets; Foundation of the State of Baden-Württemberg.

Project collaboration

10/2020-09/2022	Scientific Advice and Corresponding Dialog Formats Concerning the Welfare State, the Working Environment, and the Social Market Economy, Federal Ministry of Labour and Social Affairs, Coordination Sebastian Siegloch.
11/2019-06/2020	Evaluation of the KfW Programme "ERP Digitalisation and Innovation Loan"; KfW Group; Coordination Christian Rammer.
01/2019-12/2021	Growth Welfare Innovation and Productivity; European Commission, DG Research and Innovation; Coordination Georg Licht.
01/2018-12/2018	Structural Reform in Germany, 2013-2017; European Commission, GD Grow – Internal Market, Industry, Entrepreneurship and SMEs; Coordination Christian Rammer.
09/2016-05/2017	Business-to-business relations in the online platform environment; European Commission, DG for Internal Market, Industry, Entrepreneurship and SMEs; Coordination Ulrich Laitenberger.
06/2016-05/2017	Structure and Volume of the Market for Digital Services with a Focus on Companies from third Countries; Federal Ministry of Finance; Coordination Katharina Nicolay.
01/2016-10/2016	Meta-Study on the Role of Broadband Internet on Innovation, Productivity and Employment; ZEW Sponsors' Association for Science and Practice; Coordination Thomas Niebel.
07/2015-02/2016	Innovation Policy in Germany: Strategies for More Innovation in the Age of Digitalisation; SAP SE; Coordination Jörg Ohnemus.
07/2015-12/2015	Determinants of high-speed broadband take-up and the impact of mobile internet on firm productivity and innovation; State of Baden-Württemberg; Coordination Wolfgang Briglauer.
02/2013-04/2016	Creativity for Innovation and Growth in Europe; European Commission, DG Research and Innovation; Coordination Georg Licht.
01/2013-12/2016	Knowledge Spillovers and Content Valuation in Online Collaboration; Leibniz Association; Coordination Marianne Saam.
01/2012-06/2014	E-Frame: European Framework for Measuring Progress; European Commission, DG Research; Coordination Jan Hogrefe.
12/2010- 02/2012	Development of Impact Measures for E-Infrastructures; European Commission, DG Information Society and Media; project lead Fraunhofer Institute for System- and Innovation Research (ISI), Karlsruhe.
09/2010-12/2010	Innovation Performance and Enabling Capabilities of ICT in Germany; Germany's Digital Association (BITKOM); Coordination Christian Rammer.

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| 01/2010-12/2012 | Socioeconomic Aspects of Knowledge Acquisition in Social Networks; Leibniz Association, ScienceCampus Tübingen; Coordination Marianne Saam. |
| 07/2006-06/2009 | Explaining Productivity Growth in Europe, America and Asia; Anglo-German-Foundation for the Study of Industrial Society; together with ZEW-Research Departments Industrial Economics and Environmental Economics, Centre for Economic Performance at London School of Economics, UK, and LMU München; Coordination Tobias Kretschmer. |
| 03/2003-06/2005 | ICT usage and the age structure of employees; Foundation of the State of Baden-Württemberg; Coordination Horst Entorf. |
| 01/2002-06/2015 | ZEW ICT Survey: Diffusion and Use of Information and Communication Technologies; Coordination Jörg Ohnemus. |
| 12/2000-04/2002 | Application of Hedonic Techniques in the Consumer Price Index - Case of IT and Automobile; Federal Statistical Office of Germany; Coordination Dietmar Morsch. |
| 04/2000-06/2001 | Lack of Qualified IT Personnel and Qualification Requirements. Empirical Analyses for Manufacturing Industry and Selected Service Sectors in Germany; Federal Ministry of Education and Research; Coordination Georg Licht and Viktor Steiner. |

Mannheim, April 2023