

Curriculum Vitae

Prof. Dr. agr. Jan Börner

Agricultural Economist (M.Sc.), Professor for Economics of Sustainable Land Use and Bioeconomy

Date and location of birth: 23rd of January 1975 in Hamburg
Nationality: German
Marital status: married, two children
Office: Institute for Food and Resource Economics
Nußallee 21, Haus 2
53115 Bonn
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University of Bonn
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RESEARCH EXPERTISE

- Ecological and environmental economics of sustainability in human-nature interactions
- Modelling and spatial analysis of land and natural resource use dynamics
- Impact evaluation of conservation & development policies and programs
- Interdisciplinary and participatory research methods

EDUCATION AND TRAINING

<i>from</i>	<i>to (in)</i>	<i>Education/Training</i>
	June 2006	Dr. agr., University of Bonn Dissertation: <i>A Bio-economic Model of Small-Scale Farmers' Land Use Decisions and Technology Choice in the Eastern Brazilian Amazon</i>
November 2001	December 2004	„International Doctoral Program for Development Research” - Center for Development Research, University of Bonn , Germany. Advisors: Prof. Ernst Berg (University of Bonn) and Prof. Stephen A. Vosti (UC Davis).
September 1999	November 2001	M.Sc. in „International Agricultural Sciences” at Humboldt University of Berlin , Germany Thesis: <i>Technical and Non-Technical Barriers to the Enhancement of Bio-energy Resource Use in the Clean Development Mechanism Framework: A Costa Rica Case Study</i>
July 2000	December 2000	University of Minnesota , Department of Applied Economics, USA. Ph.D. und M.Sc. courses in Resource Economics. M.Sc. Course in Regional Analysis.
April 1997	April 1999	German “Vordiplom” in Agricultural Sciences, Humboldt University of Berlin .
	June 1995	Graduation from high school , Hamburg, Germany.

WORKING AND FIELD RESEARCH EXPERIENCE

<i>from</i>	<i>to (in)</i>	<i>Working, Field, and Research Experience</i>
June 2017	today	Professor (W3) for Economics of Sustainable Land Use and Bioeconomy at University of Bonn
August 2012	May 2017	Junior Professor (W1) at University of Bonn , Agricultural Faculty. Research and teaching in environmental & resource economics and policy.
January 2010	July 2012	Research Fellow at the Center for International Forestry Research - CIFOR (Brazil Project Office). Research on Payments for Environmental Services (PES) and Climate Change Mitigation through Reducing Emissions from Deforestation and Forest Degradation (REDD+).
January 2007	December 2009	GIZ/CIM Integrated Expert at Center for Tropical Agriculture – CIAT (Brazil Project Office). Research on policies for ecosystem services conservation and coordination of international research networks in the Amazon region.

<i>from</i>	<i>to (in)</i>	<i>Working, Field, and Research Experience</i>
May 2005	December 2006	Postdoctoral researcher at Munich Technical University - TUM , Germany, at Chair of Agricultural Economics and Chair of Vegetation Ecology (Group: Prof. Steven Higgins). Model-based ecological-economic analyses of land use strategies in African savannah and tropical forest ecosystems.
January 2005	May 2005	Consultant for the International Office at the German Federal Ministry of Education and Research (BMBF) Knowledge management and background research in the area of scientific and technical cooperation between Germany and South and Central American countries (e.g. Brazil and Mexico).
November 2001	December 2004	Assistant researcher at University of Bonn , Center for Development Research Planning and coordination of household surveys in Brazil. Supervision of Brazilian undergraduate students.
	2001	Consultant for the Office of Technology Assessment at the German Parliament (TAB) Research on bio-energy in developing countries (see publications).
	2000	Study project: "Urban Agriculture in Havana" (2 months).
	1999	Study project: "Biogas Process Engineering", Fuerteventura. Spain (1 month).
	1999	Internship: "Biogas from Agricultural Residues" at LAMAK agricultural cooperative, Brandenburg (2 months).
	1998	Internship: "Eco-farming" on a Bioland farm, Hamburg (1 month).
	1996/1997	Internship on a farm in Vallegrande, Santa Cruz, Bolivia (4 months).
	1995	Internship on gender issues in intra-household labor allocation (GTZ), Namandanje, Malawi (2 months).

EXTRACURRICULAR TRAINING & EDUCATION

<i>from</i>	<i>to (in)</i>	<i>EXTRACURRICULAR TRAINING & EDUCATION</i>
	March 2015	Academic teaching methods, half day workshop
	June 2007	Summer School: Global Climate Change in the Americas (Pan-American Advanced Studies Institute - PASI), La Paz, Mexico
	September 2007	Summer School: Strategies to react to Global Change Impacts on Land Use in Latin America (University of Göttingen), Göttingen, Germany.

<i>from</i>	<i>to (in)</i>	<i>EXTRACURRICULAR TRAINING & EDUCATION</i>
	December 2006	Training course in advisory roles & competences (InWEnt) Bad Honnef, Germany.
	December 2006	Training course in intercultural communication & management (InWEnt), Bad Honnef, Germany.
	February 2000	Training in Environmental Education, Havana, Cuba.

AWARDS & MEMBERSHIPS (current and past)

Awards: T.W. Schultz Award for “best oral contributed paper” at the XXIX International Conference of Agricultural Economists (IAAE), Milan (Italy), 2015. With PhD student Elías Cisneros and MSc student Sophie Lian Zhou.

Robert Bosch Junior Professorship for Sustainable Use of Natural Resources (2012): <http://www.bosch-stiftung.de/content/language1/html/40156.asp>

Memberships: International Association of Agricultural Economists (IAAE), International Society of Ecological Economics (ISEE), The Agricultural Economics Society (AES)

Committees: Steering committee member of the German Sustainable Development Solutions Network (G-SDSN): <http://unsdsn.org/what-we-do/national-and-regional-networks/national-sdsn/germany-sdsn/>

LANGUAGES

German:	Mother tongue
English:	Excellent oral and writing skills
Portuguese:	Excellent oral and very good writing skills
Spanish:	Good oral and writing skills

TEACHING, ACADEMIC SUPERVISION, AND OUTREACH

Bachelor level course (University of Bonn): Introduction to Economics (in German, 2018 - today) – coordinator and lecturer

Master level course (University of Bonn): ENV-210 Advanced Environmental Economics (2016- today) – coordinator and lecturer

Master level course (University of Bonn): ENV-130 Impact Evaluation of Conservation and Development Projects and Programs (2013- today) – coordinator and lecturer

Master level seminar (University of Bonn): ENV-300 Environmental Economics and Policy (2013 - today). Topic: “Choice and design of forest conservation policies and initiatives” – coordinator and lecturer

Master level seminar (University of Bonn): ENV-330 Research Seminar in Resource and Environmental Economics (2013- today) – co-lecturer

Master level course (University of Bonn): ARTS-BS2 Tropical Crops and Production Systems (2013 - today) – co-lecturer

Doctoral course (University of Bonn, ZEF): Environmental and Ecological Economics (2013- today) – coordinator and lecturer

Guest lecturer: Postgraduate Program on Social Sciences in Development, Agriculture, and Society (CPDA) at the Federal Rural University of Rio de Janeiro (UFRRJ), Brazil, 2010-2012.

Guest lecturer: Postgraduate Program on Amazonian Agricultural. Federal University of Pará (UFPA), Brazil, 2008.

Guest lecturer: Postgraduate Program on Agribusiness. Federal University of Goiás (UFG), Brazil, 2010.

Co-design of capacity-building modules for policy makers on “Payments for Environmental Services” and “Reducing Emissions from Deforestation and Degradation” for the Gesellschaft für Internationale Zusammenarbeit - GmbH (GIZ), 2009 and 2014.

Co-design of training manual: Estimating the Opportunity Costs of REDD+. A World Bank training manual. <http://wbi.worldbank.org/wbi/learning-product/estimating-opportunity-costs-redd>

Supervised Ph.D. theses

Cisneros, E. (2017): The Impact of Public Policies on Deforestation in the Brazilian Amazon. University of Bonn.

Rosa da Conceição, H. (2017): Determinants of incentive-based forest governance in the Amazon. University of Bonn.

Figeroa, G. (ongoing): Eco-agriculture alternatives in the Cuban bioeconomy. University of Bonn.

Giudice Granados, Renzo (ongoing): Measuring the effectiveness of incentive-based conservation policies in the Peruvian Amazon. University of Bonn.

Miranda, J. (ongoing): Modelling tropical conservation policy mixes in the Amazon region. University of Bonn.

Schielein, J. (ongoing): Land-use forest policy and economic development in the Brazilian Amazon region. University of Bonn.

Meyer, M. (ongoing): Determinants and impacts of community-based natural resource management in Southern Africa. University of Bonn.

Ewere, E. (ongoing): Trade-offs in energy, food security, and deforestation in the emerging agricultural bioeconomy in Nigeria. University of Bonn.

Co-supervised Ph.D. theses

Heuser, S. (ongoing): The Effectiveness of Environmental Policies on Reducing Deforestation in the Brazilian Amazon. UNU-MERIT.

Frey, G. (ongoing): Land use change and natural vegetation dynamics in the Brazilian Amazon. University of Bonn.

Nascimento, N. (ongoing): Bioeconomy and land use change in the Brazilian Amazon. Brazilian Institute for Space Research (INPE).

Londres, M. (2017): Adapting sustainable development policies to support livelihood strategies of diverse traditional Amazonian populations in Bolivia, Brazil, and Ecuador. University of Florida.

Diriba Guta, D. (2015): Bio-based energy, rural livelihoods, and energy security in Ethiopia. University of Bonn, Germany.

Rodriguez, V. (2015): Valuation of environmental services related to water quality in the context of farming systems, Guapi-Macacu watershed - Atlantic Forest, Brazil. University of Leipzig.

Co-supervised M.Sc. theses

Meyer, M. (2018): Smallholder palm oil production in Central Kalimantan: Assessing scope for improving environmental and economic performance. University of Bonn.

Gonella, A. (2016): Modelling the Opportunity Costs of Reforestation in the Upper East Region of Ghana. University of Bonn.

Temitope, A.G. (2016): Evaluating agricultural technology adoption: nutrition and environmental effects if improved Chickpeas varieties in Ethiopia. University of Bonn.

Lenfert, Z. (2016): Supply chain management and land use impact in the Brazilian soy production sector.

Hoffmann, M. (2015): Sustainable procurement in the German bioenergy sector.

Swartz, E. (2015): Does community support in the Bolsa Floresta Program (Brazil) increase income and asset wealth of participants?

Zhou, S. (2014): Conspicuous Conservation and Balanced Growth Path: An Uzawa-Lucas Model with Leisure Choice, Environmental Externality and Social Status

Laar, J. (2015): Developing wealth indicators for regular monitoring campaigns in REDD+ projects: the case of the Bolsa Floresta Program in the Brazilian Amazon.

Gallo, P. (2012): Assessing the social impact of the PES Program "Bolsa Floresta" in the Brazilian Amazon: Case Study in the Sustainable Reserve "Uatuma". Technische Universität Dresden.

Nascimento, N. (2011): Spatial land use scenarios for participatory watershed planning in the Northeast of Pará, Brazil. Federal University of Pará (UFPA)

Nascimento, P. (2011): Climate change adaptation in rural Amazonia. Federal University of Pará (UFPA).

Rodriguez, V. (2009): Smallholder production and climate risk in the Baixo Amazonas region, Brazil. University of Applied Sciences Cologne. *Won the VDI (German Engineer Association) 2010 price.*

Co-Supervised bachelor theses

Raiol, C.C (2010): The cassava value chain in Alenquer – PA: A characterization of production systems and climate risk assessment. Pará State University (UEPA), Brazil.

Hoshino, C.S.N. (2010): The influence of extreme climatic events on traditional fishing communities in Alenquer – PA. Pará State University (UEPA), Brazil.

PEER-REVIEWED JOURNAL PUBLICATIONS

1. Schielein, J.; **Börner**, J. 2018. Recent transformations of land-use and land-cover dynamics across different deforestation frontiers in the Brazilian Amazon. *Land Use Policy*, 76: 81-94
2. **Börner**, J., K. Baylis, E. Corbera, D. Ezzine-de-Blas, J. Honey-Rosés, U. M. Persson and S. Wunder. 2017. The Effectiveness of Payments for Environmental Services. *World Development*, 96: 359–374.
3. Guta, D., **Börner**, J. (2017): Energy security, uncertainty and energy resource use options in Ethiopia: A sector modelling approach. *International Journal of Energy Sector Management*, 11(1): 91-117.
4. **Börner**, J., Baylis, K., Corbera, E., Ezzine-de-Blas, D., Ferraro, P., Honey-Rosés, J., Lapeyre, R., Persson, M., Wunder, S. (2016): Emerging evidence on the effectiveness of tropical forest conservation. *PLOS ONE*, 11(11): e0159152.
5. **Börner**, J., S. Wunder, Guidice, R. Will up-scaled forest conservation incentives in the Peruvian Amazon produce cost-effective and equitable outcomes? *Environmental Conservation*, 43(4), .
6. Fogliano de Souza Cunha, F.A., **Börner**, J., Wunder, S., Nunes Cosenza, A.C., Lucena, A. (2016): The implementation costs of forest conservation policies in Brazil. *Ecological Economics*, 130: 209-220.
7. Baylis, K., Honey-Rosés, J., **Börner**, J., Corbera, E., Ferraro, P., Pfaff, A. Davies, P., Ezzine de Blas, D., Lapeyre, R., Pagiola, S., Persson, M., Wunder, S.: Mainstreaming impact evaluation in nature conservation. *Conservation Letters*, 9(1): 58-64.
8. Rosa da Conceição, H., **Börner**, J., Wunder, S.: Why were upscaled incentive programs for forest conservation adopted? Comparing policy choices in Brazil, Ecuador, and Peru. *Ecosystem Services*, 16: 243-252.
9. Cisneros, E., Zhou, S. L., **Börner**, J. (2015): Naming and Shaming for Conservation: Evidence from the Brazilian Amazon. *PLOS ONE*, 10(9): e0136402.
10. Mirzabaev, A., D. Guta, J. Goedecke, V. Gaur, J. **Börner**, D. Virchow, M. Denich and J. von Braun (2015): Bioenergy, food security and poverty reduction: trade-offs and synergies along the water–energy–food security nexus. *Water International*, 40(5-6): 772-790.
11. **Börner**, J., Shively, G., Wunder, S., Wyman, M. (2015): How do rural households cope with economic shocks? Insights from global data using hierarchical analysis. *Journal of Agricultural Economics*, 66(2): 392–414.
12. **Börner**, J., Kis-Katos, K., Hargrave, J., König, K. (2015): Post-crackdown effectiveness of field-based enforcement in the Brazilian Amazon. *PLOS ONE*, 10(4): e0121544
13. **Börner**, J., Marinho, E., Wunder, S. (2015): Mixing carrots and sticks to conserve forests in the Brazilian Amazon: a spatial probabilistic modeling approach. *PLOS ONE*, 10(2): e0116846.
14. **Börner**, J., Wunder, S., Wertz-Kannounikoff, S., Hyman, G., Nascimento, N. (2014): Forest law enforcement in the Brazilian Amazon: costs and income effects. *Global Environmental Change*, 29: 294-305.
15. Rodriguez Osuna, V., **Börner**, J., Nehren, U., Bardy Prado, R., Gaese, H., Heinrich, J. (2014): Priority areas for watershed service conservation in the Guapi-Macacu region of Rio de Janeiro, Atlantic Forest, Brazil. *Ecological Processes*, 3(1):1-21.
16. Wunder, S., **Börner**, J., Shively, G., Wyman, M. (2014): Safety nets, gap filling and forests: a global-comparative perspective. *World Development*, 64 Supplement 1: S29-S42.
17. Angelsen, A., Jagger, P., Babigumira, R., Belcher, B., Hogarth, N., Bauch, S., **Börner**, J., Smith-Hall, C., Wunder, S. (2014): Environmental Income and Rural Livelihoods: A Global-Comparative Analysis. *World Development*, 64 Supplement 1: S12-S28.

18. Duchelle, A. E., Almeyda Zambrano, A. M., **Börner**, J., Wunder, S., Kainer, K. (2014): Smallholder specialization strategies along the forest transition curve in Southwestern Amazonia. *World Development*, 64 Supplement 1: S149-S158.
19. Rodríguez Osuna, V., **Börner**, J., Cunha, M. (2014): Scoping Adaptation Needs for Smallholders in the Brazilian Amazon: A Municipal Level Case Study. *Change Adaptation Socioecological Systems (CASES)*, 1(1): 12-25.
20. Lambin, E.F., P. Meyfroidt, X. Rueda, A. Blackman, J. **Börner**, P.O. Cerutti, T. Dietsch, L. Jungmann, P. Lamarque, Lister, J. (2014): Effectiveness and synergies of policy instruments for land use governance in tropical regions. *Global Environmental Change*, Vol. 28, 129-140.
21. Duchelle, A. E., M. Cromberg, M. F. Gebara, R. Guerra, T. Melo, A. Larson, P. Cronkleton, J. **Börner**, E. Sills, S. Wunder, S. Bauch, P. May, G. Selaya, Sunderlin, W. D. (2014): Linking Forest Tenure Reform, Environmental Compliance, and Incentives: Lessons from REDD+ Initiatives in the Brazilian Amazon. *World Development* 55:53-67.
22. **Börner**, J., Higgins, S.I., Scheiter, S., Kantelhardt, J. (2013) Approximating Optimal Numerical Solutions to Bio-economic Systems: How useful is Simulation-Optimization? *Quarterly Journal of International Agriculture* 52(3): 179-198.
23. Prado Córdova, J., S. Wunder, C. Smith-Hall, **Börner**, J. (2013): Rural Income and Forest Reliance in Highland Guatemala. *Environmental Management* 51(5): 1034-1043.
24. **Börner**, J., Wunder, S. (2012): The Scope for Reducing Emissions from Forestry and Agriculture in the Brazilian Amazon. *Forests* 3, 546-572
25. Blas, D.E. de, **Börner**, J., Espada, A.L.V., Nascimento, N., Piketty, M.G. (2011): Forest loss and management in land reform settlements: Implications for REDD governance in the Brazilian Amazon. *Environmental Science & Policy*, 14, 188-200
26. **Börner**, J., Wunder, S., Armas, A. (2011): Forest carbon payments in Latin America: From pilot schemes to large-scale implementation. *Revista Española de Estudios Agrosociales y Pesqueros*, 228, 115:137
27. Pacheco, P, Aguilar-Støen, M., **Börner**, J., Etter, A., Putzel, L., Diaz, M.del C.V. (2011): Landscape transformation in tropical Latin America: Assessing trends and policy implications for REDD+. *Forests*. 2(1), 1-29
28. **Börner**, J., Wunder, S., Wertz-Kanounnikoff, S., Tito, M., Pereira, L., Nascimento, N. (2010): Direct conservation payments in the Brazilian Amazon: scope and equity implications. *Ecological Economics*. 69, 1272-1282.
29. **Börner**, J., Mburu, J., Guthiga, P., Wambua, S. (2009): Designing Cost-Effective Conservation Incentives for Protected Area Management in Western Kenyan Rainforest Remnants. *Forest Policy and Economics*, 11, 459-467.
30. **Börner**, J., Wunder, S. (2008): Paying for avoided deforestation in the Brazilian Amazon: From cost assessment to scheme design. *International Forestry Review*, 10, 496-511.
31. **Börner**, J., Higgins, S.I., Kantelhardt, J., Scheiter, S. (2007): Rainfall or price variability: what determines rangeland management decisions? A simulation-optimization approach to South African savannas. *Agricultural Economics*, 37, 189-200.
32. **Börner**, J., Mendoza-Escalante, A., Vosti, S.A. (2007): Ecosystem Services, Agriculture and Rural Poverty in the Eastern Brazilian Amazon: Interrelationships and Policy Prescriptions. *Ecological Economics*, 64: 356-373
33. Mburu, J., **Börner**, J., Hedden-Dunkhorst, B., Frohberg, K. (2007): Feasibility of the Mulching Technology as an Alternative to Slash-and-Burn Farming in Eastern Amazon: A Cost Benefit Analysis. *Renewable Agriculture and Food Systems*, 22(2), 125-133
34. Higgins, S.I., Kantelhardt, J., Scheiter, S., **Börner**, J. (2007): Sustainable management of extensively managed Savanna rangelands. *Ecological Economics*, 62, 102-114.

OTHER PUBLICATIONS

Peer-reviewed

Bruckner, M., Giljum, S., Fischer, G., Tramberend, S. and J. **Börner**. 2018. The global cropland footprint of the non-food bioeconomy. ZEF Discussion Paper 253

Noack, F. Wunder, S., Angelsen, A., **Börner**, J.. 2015. Responses to weather and climate: a cross-section analysis of rural incomes. World Bank Report No. WPS7478.

Rodríguez Osuna, V., **Börner**, J., Cunha, M. (2014): Small-Scale Producers, Risk and Climate Change in an Amazonian Municipality. In: Lac, S., McHenry, M.P. (eds.): Climate Change and Forest Ecosystems. Climate change and its causes, effect and prediction. Nova Publishers Inc. 135-151.

Figueiredo, R. d. O., J. **Börner**, E. A. Davidson (2013). "Watershed services payments to smallholders in the Brazilian Amazon: challenges and perspectives." *Revista Ambiente & Água* 8(2): 6-17.

Börner, J. and S. Vosti (2013). Managing Tropical Forest Ecosystem Services: An Overview of Options. *Governing the Provision of Ecosystem Services*. R. Muradian and L. Rival, Springer Netherlands. 4: 21-46.

Börner, J., Wunder, S. (2012): Mitigation options from forestry and agriculture in the Amazon. In Wollenberg, E., Nihart, A., Tapio-Biström, Grieg-Gran, M. (ed): *Climate Change Mitigation and Agriculture*. Earthscan.

Wunder, S., **Börner**, J. (2012): Payments for environmental services to mitigate climate change: agriculture and forestry compared. In Wollenberg, E., Nihart, A., Tapio-Biström, Grieg-Gran, M. (ed): *Climate Change Mitigation and Agriculture*. Earthscan.

Börner, J., Wunder, S., Wertz-Kanounnikoff, S., Hyman, G., Nascimento, N. (2011): REDD sticks and carrots in the Brazilian Amazon: assessing costs and livelihood implications. CCAFS Working paper No. 8. CGIAR Research Program on Climate Change, Agriculture and Food Security (CAAFS). Copenhagen, Denmark.

Wunder, S., **Börner**, J. (2011): Changing land uses in forestry and agriculture through payments for environmental services. In Ingram, G.K and Yu Hung-H. (eds). *Climate Change, and Land Policies*, Lincoln Institute, Cambridge (MA).

Börner, J. (2009). Serviços ecossistêmicos e adoção de sistemas agroflorestais na Amazônia: Elementos metodológicos para análises econômicas integradas. *Alternativa agroflorestal na Amazônia em transformação*. R. Porro. Brasília, DF, Embrapa Informação Tecnológica: 411-434.

Börner, J., Hohnwald, M., & Vosti, S. (2008). Critical analysis of options to manage ecosystem services in the Amazon/Andes Region. In *Recursos Naturais e Crescimento Econômico* (eds A.B. Coelho, E.C. Teixeira & M.J. Braga). Vicoso Federal University, Vicoso, MG, Brazil.

Porro, R., **Börner**, J., Jarvis, A. coord. (2008): Challenges to Managing Ecosystem Services Sustainably for Poverty Alleviation: Securing Well-Being in the Andes/Amazon. Situation Analysis prepared for the ESPA Program. Amazon Initiative Consortium, Belém, Brazil. URL: http://www.espa.ac.uk/files/espa/Final%20Report%20Amazon%20-%20main%20report_Part1.pdf

Börner, J., Denich, M., Mendoza-Escalante, A., Hedden-Dunkhorst, de Abreu Sá, T.D. de (2007): Alternatives to slash-and-burn in forest-based fallow systems of eastern Amazônia: Technology and policy options to halt ecological degradation and improve rural welfare. In: Tscharnke, T., Zeller, M., Leuschner, C. (eds): *The stability of tropical rainforest margins: Linking ecological, economic and social constraints*. Springer.

Börner, J. (2006): Cenários de mudanças tecnológicas e políticas agro-ambientais no âmbito do estabelecimento da agricultura familiar. In Costa, F.de A., Hurtienne, T., Kahwage, C. (eds): *Inovação e difusão tecnológica para Sustentabilidade da agricultura familiar na Amazônia*. NAEA-UFPA, Brasil.

Börner, J. (2006): A bio-economic model of small-scale farmers' land use decisions and technology choice in the Eastern Brazilian Amazon. Ph.D. Thesis, University of Bonn, Germany.

URN: urn:nbn:de:hbz:5N-07475

URL: http://hss.ulb.uni-bonn.de/diss_online/landw_fak/2006/boerner_jan-christoph

Non peer-reviewed

Lenfert, Z.M., **Börner, J.** (2017): Soybean certification and tropical deforestation in Brazil: how to move towards zero-net deforestation. ZEF Policy Brief 28.

Börner, J., Kuhn, A., von Braun, J. (2017): Bio-economy in developing countries. ZEF Policy Brief 25.

Valone, T.J., Barta, Z., **Börner, J.**, Cardenas, J.-C., Giraldeau, L.-A., Kokko, H., Oldekop, J., Pauly, D., Rustagi, D., Sutherland, W.. 2017. Governance of Renewable Resources. In: Giraldeau, L.-A., Heeb, P., Kosfeld, M. (eds.): Investors and Exploiters in Ecology and Economics: Principles and Applications. Ernst Strüngemann Forum / The MIT Press. 97-118.

Khamzina, A., J.P.A. Lamers, J. **Börner** with O.O. Cofie, P. Drechsel, Chr. Gordon, J. Miranda, S. Mukherjee, L.Verchot, H. Vereecken, L. Weihermüller, S. Zelaya-Bonilla, F. Ziadat. 2017. Land resources and the SDGs. In: Paul L. G. Vlek, Asia Khamzina, and Lulseged Tamene (eds.): Land degradation and the Sustainable Development Goals: Threats and potential remedies. CIAT / CGIAR. 17-31.

Bolte, A., **Börner, J.**, Bräsicke, N., Degen, B., Dieter, M., Saake, B., Schneider, B.U. (2016): Perspektiven der Forst- und Holzwirtschaft in Deutschland. Hintergrundpapier für den Bioökonomierat: <http://biooekonomierat.de>

Zhou, S.L., **Börner, J.** (2014): Sustainable consumption and the fate of tropical forests: Can trees make us happier? ZEF news, 30, Bonn, Germany.

Börner, J., Wunder, S., Reimer, F., Bakkegaard, R.K., Viana, V., Tezza, J., Pinto, T., Lima, L., Marostica, S.(2013): Promoting Forest Stewardship in the Bolsa Floresta Programme: Local Livelihood Strategies and Preliminary Impacts. Research Report. CIFOR, FAS, ZEF, Bonn, Germany.

Börner, J. (2013): Brasilianischer Tropenwaldschutz: Schein oder Sein? Tópicos 2:2013 Duchelle, A., **Börner, J.**, S. Wunder, E. Araújo, R. Farias, G. Ribemboim, M. de los Ríos, T. Megid, L. Micol, J. Tezza, A. Toniolo, Viana, V. (2010): Grounding the REDD debate : Preliminary evidence from pilot initiatives in the Brazilian Amazon. The Amazon Initiative Policy Brief Series: 2.

Jong, W. de, **Börner, J.**, Pacheco, P., Pokorny, B., Sabogal, C. (2010): Amazon forests at the Crossroads: Pressures, Responses, and Challenges. In Forests and Society – Responding to Global Drivers of Change. IUFRO, WFSE Series.

Börner, J., Wunder, S., Simões, J., Hyman, G., Wertz-Kannounikoff, S., Barona, E., Guevara, E., Nascimento, N. (2009): Mixing the REDD policy cocktail in the Brazilian Amazon. The Amazon Initiative Policy Brief Series: 1.

Börner, J., Scholl, J. (2009): Climate change and resource abundance: Do we need to worry about water in the Amazon? Rural 21, 4/2009.

Armas, A., **Börner, J.**, Tito, M., Diaz, L., Nascimento, N., Wunder, S., Tapia, S., Raymond, L. (2009): Pagos por servicios ambientales para la conservación de bosques en la Amazonía Peruana: Un análisis de viabilidad. Ministry of Environment - SERNANP, Lima-Perú. 92 p.

Wunder, S., **Börner, J.**, Tito, M.R., & Pereira, L. (2008). Pagamentos por serviços ambientais: Perspectivas para a Amazônia. Ministry of Environment, Brasília.

Börner, J., Scholl, J., eds. (2008) Conservación Servicios Ambientales y Cadenas de Valor en la Amazonía. Iniciativa Amazonica, GTZ, OTCA, UNAMAZ, Belém, Brazil.

Meyer, R., **Börner**, J. (2002): Bioenergie – Eine Chance für die ‘Dritte Welt’. – Verfahren - Realisierung - Wirkungen. Studien des Büros für Technikfolgen-Abschätzung, Bd. 11. edition sigma, Berlin.

SELECTED CONFERENCE PAPERS AND PRESENTATIONS

Börner, J., Baylis, K. (2015): Big Data in Agricultural Economics. Presentation given at the XXIX International Conference of Agricultural Economists (IAAE), Milan (Italy), 2015.

Börner, J., Marinho, E., Wunder, S., (2015): Measuring and modelling policy instruments to implement the Brazilian Forest Code. Presentation given at the XXIX International Conference of Agricultural Economists (IAAE), Milan (Italy), 2015.

Börner, J. Cisneros, E., Zhou, S.L. (2015): Forest law enforcement through district black-listing in the Brazilian Amazon. Tagung des Vereins für Socialpolitik, September, 6-9th, Münster, Germany.

Börner, J., Wunder, S. (2015): Value chain governance and national forest conservation policies: Scope and limitations. 19th ICABR Conference, June 16-19th, Ravello, Italy.

Börner, J. (2014): Environmental Governance in the Global Bioeconomy: An emerging research agenda. Invited keynote address. Regional Workshop on Institutions and Organizations (University of São Paulo - USP), October 13-14th, Pirassununga, São Paulo, Brazil.

Börner, J. (2014): Interdisciplinary Research in Tropical Forest Conservation. Invited Panel Speaker. EADI Conference, June 23-26th, Bonn, Germany.

Börner, J., Marinho, E., Wunder, S. (2014): Cost and equity implications of integrating conservation sticks and carrots in national conservation programs in Brazil and Peru. ISEE Conference 2014, 13 - 15 August 2014, Iceland.

Börner, J., Marinho, E., Wunder, S. (2014): Law enforcement and economic incentives for conservation in the Brazilian Amazon: modeling spatial complementarities. International Conference on Policy Mixes in Environmental and Conservation Policies, 25. - 27. February 2014, Leipziger KUBUS, Leipzig, Germany.

Börner, J., Armas, A., Wunder, S., Gomez, E., Fischenich, G. (2013): The Peruvian National Forest Conservation Program: scenario analysis and early lessons for the design of conservation incentives. 7th Annual Conference of the Ecosystem Services Partnership, August 26-30th, Bali, Indonesia.

Börner, J., Hargrave, J., Kis-Katos, K., König, K. (2012): Empirical evidence from forest conservation law enforcement in the Brazilian Amazon. ISEE Conference 2014, June 16-19th, 2012 in Rio de Janeiro, Brazil.

Börner, J., Shively, G., Wunder, S., Wyman, M. (2012): How do rural households respond to economic shocks? Insights from hierarchical analysis using global data. Paper presented at the International Conference for Agricultural Economics (ICAE2012), August 18-24, Foz do Iguaçu, Brazil.

Börner, J., Hargrave, J., Kis-Katos, K., König, K., Ferreira, M.S. (2012): Measuring deterrence effects of field-based forest law enforcement. Invited presentation Side Event at Rio+20 United Nations Conference on Sustainable Development. June 15-18th, Rio de Janeiro, Brazil.

Börner, J., Wunder, S., Wertz-Kanounnikoff, S., Hyman, G., Nascimento, N. (2011): REDD sticks and carrots in the Brazilian Amazon: assessing costs and livelihood implications. Paper presented at the Colorado Conference on Earth System Governance. May 17-20th, Fort Collins, CO, USA.

Börner, J. (2010): Lessons learned from the implementation of Payments for Environmental Services Programs. Invited presentation at internal policy workshop organized by the Peruvian Ministry of Environment, September 28th, Lima, Peru.

Börner, J., Wunder, S., Wertz-Kanounnikoff, S., Hyman, G., Barona, E., Guevara, E., Nascimento, N. (2010): Cost-effective REDD+ policy design in the Brazilian Amazon: How to combine incentives and control without harming the poor? Conference paper prepared for the ISEE Conference 2010, August 22-25, Oldenburg, Germany.

Börner, J. (2009): Scope for PES in the Amazon and implications for Responsible Soy. Invited presentation. 4th International Conference of the Round Table on Responsible Soy Association. May 26-27th, Campinas, Brazil.

Börner, J., Higgins, S.I., Kantelhardt, J., Scheiter, S. (2009): Approximating optimal numerical solutions to bio-economic systems: How useful is simulation-optimization?. (27th Conference of the International Association of Agricultural Economists 16-22 August 2009, Beijing, China).

Börner, J. (2008): Degradation of environmental services in the Amazon. Invited presentation. Meeting of the Commission on Livestock Development for Latin America and the Caribbean (FAO). September 17-19th, Brasilia, Brazil.

Börner, J., Wunder, S. (2008) The potential of payments for forest environmental services in the Brazilian Amazon: Insights from a macro-scale spatial analysis. In 10th Biennial International Society for Ecological Economics (ISEE), Nairobi, Kenya.

Börner, J., Wunder, S. (2007) Divergent opportunity costs of Reduced Emissions from Deforestation and Forest Degradation (REDD) on private lands in the Brazilian Amazon. In Forest Day, UNFCCC-COP13, Bali, Indonesia.

Börner, J., Higgins, S.I., Kantelhardt, J., Scheiter, S. (2006): Rainfall or price variability: What determines rangeland management decisions? A simulation-optimization approach to South African savannas. (26th Conference of the International Association of Agricultural Economists 12-18 August 2006, Brisbane, Australia). Paper selected for publication in a special issue of Agricultural Economics.

Börner, J., Vosti, S. (2005): Trade-offs Between Smallholder Welfare and Environmental Services in the Eastern Brazilian Amazon: Technology and Policy Options. Paper presented at the Deutscher Tropentag 2005, October 11-13, University of Hohenheim, Germany.

Börner, J., Denich, M. (2005): Alternatives to slash-and-burn in forest-based fallow systems of eastern Amazonia: ecological necessities, agronomic possibilities, economic limitations and policy measures. Presentation at the Storma Symposium. September 19-23, 2005, Georg-August University of Göttingen.

Börner, J., Hedden-Dunkorst, B., Vosti, S.A. (2003): Categorizing Farm-Households for Policy Research. Deutscher Tropentag 2003, Berlin. (Poster)

RESEARCH PROJECTS

2017-2021: **Deutsche Forschungsgesellschaft (DFG)**, Future Rural Africa: Future-making and social-ecological transformation" Collaborative Research Center 228 (Co-PI in two projects)

2016-2021: **Federal Ministry of Education and Research (BMBF)**, Sustainable trade and innovation transfer in the bioeconomy: from national strategies to global sustainable development goals (coordinator).

2015 - **Seed Fund proposal for the "NRW-Strategieprojekt BioSC"**, Biomass flows and technological innovation in the bioeconomy: A global scenario analysis (co-coordinator).

2015-2018 – **Federal Ministry for Economic Cooperation and Development (BMZ)**, Forests in the global bioeconomy: Developing multi-scale policy scenarios (component co-ordinator).

2012-2017 – **Robert Bosch Foundation**, Shaping environmental policies for sustainable tropical forest bioeconomies (coordinator).

2012-2015 – **European Commission**, Opportunities and challenges to developing REDD+ benefit sharing mechanisms in developing countries (senior associate researcher at Center for International Forestry Research, CIFOR).

2010-2012 – **NORAD**, Global Comparative Study of REDD+ (research fellow at Center for International Forestry Research, CIFOR).

2010-2012 – **EU-FP7**, Newforex (research fellow at Center for International Forestry Research, CIFOR).

2010-2012 – **ESRC**, Poverty-Environment Network (PEN) (research fellow at Center for International Forestry Research, CIFOR).

2009-2011 – **Federal Ministry for Economic Cooperation and Development (BMZ)**, Small-scale producers' adaptation to climate risk in the Brazilian Amazon: Promoting knowledge-to-action through collaboration in research and technical cooperation (coordinator at Center for International Tropical Agriculture, CIAT).

2008 – **NERC/ESRC/DFID**, A situation analysis of ecosystem services and poverty in the Andes-Amazon region (associate researcher at Center for International Tropical Agriculture, CIAT).

2009-2011 - **World Bank (IDF)**, Amazon Livelihood and Environment Network (RAVA) (associate researcher at Center for International Tropical Agriculture, CIAT).

2005-2006 – **Robert Bosch Foundation**, Sustainable Savannas (Group Higgins) (post-doctoral researcher at Munich University of Technology, TUM)

2005-2006 – **Federal Ministry of Education and Research (BMBF)**, BIOTA Eastern Africa (postdoctoral researcher at Munich University of Technology – TUM, and University of Bonn - ZEF)

2001-2004 – **Federal Ministry of Education and Research (BMBF)**, SHIFT-Socioeconomics (doctoral researcher at University of Bonn, ZEF).