

Institute of Development Studies
Library Road
Brighton
BN1 9RE
UK

E: d.willenbockel@ids.ac.uk
T: +44 (0)1273 606261
W: www.ids.ac.uk/people/dirk-willenbockel

CURRENT EMPLOYMENT: Research Fellow, Institute of Development Studies

DATE OF BIRTH: 27.10.1961

NATIONALITY: German

LANGUAGES: English, German, Brazilian Portuguese

THEMATIC EXPERTISE: International Trade, Economics of Climate Change,
Low-Carbon Growth

GEOGRAPHICAL EXPERTISE: Ethiopia, Kenya, Ghana, South Africa, Vietnam

OVERVIEW

Economist with experience in the areas of trade policy and regional economic integration, climate change impact and adaptation analysis, economics of low-carbon growth, global and regional food system scenario analysis, and fiscal policy analysis. Particular technical expertise in the design and application of computable general equilibrium models for forward-looking development policy analysis. Research and consultancy for European Commission, ESRC, EPSRC, BIS, DFID, DEFRA, UK Government Office for Science, GIZ, BMZ, USDA, UNDP, WFP, World Bank, ILO, IFPRI, Oxfam, Save the Children, Practical Action.

EDUCATION AND QUALIFICATIONS

1989 - 1993	PhD Economics London Business School (University of London), UK
1983 - 1986	Diplom-Volkswirt (MA Economics) Georg-August-Universität Göttingen, Germany

RECORD OF EMPLOYMENT

2006 – PRESENT	Research Fellow, Institute of Development Studies, UK Green Transformations, Business and Markets
2014 – 2015	In-House ST Consultant, World Bank, USA Development Economics Prospects Group
1994 – 2006	Senior Lecturer in Economics, Middlesex University,

UK
Research Leader Economics Group

1986 – 1989

Research Fellow, Wissenschaftszentrum Berlin, Germany
Labour Market and Employment Unit

SELECTED PROJECT EXPERIENCE

2010 - 2011

Lead Consultant, UNDP (Hanoi Office), Vietnam
CGE Analysis of Fossil Fuel Tax / Subsidy Reform

2008 - 2010

Consultant, Ethiopian Development Research Institute,
Ethiopia
Social Accounting Matrix Construction, Capacity Building in
Economic Modelling

2009 - 2010

Lead Consultant, World Bank (Accra Office), Ghana
Economics of Adaptation to Climate Change Case Study

SELECTED PUBLICATIONS AND OUTPUTS

Books

Willenbockel, D. (1994) *Applied General Equilibrium Modelling: Imperfect Competition and European Integration*, Chichester and New York: John Wiley & Sons

Selected Articles in Academic Journals

Mason-D'Croz, D.; Bogard, J.R.; Herrero, M.; Robinson, S.; Sulser, T.B.; Wiebe, K.; Willenbockel, D. and Godfray, H.J.H. (2020) '[Modelling the Global Economic Consequences of a Major African Swine Fever Outbreak in China](https://doi.org/10.1038/s43016-020-0057-2)', *Nature Food* 1: 221-228, DOI: <https://doi.org/10.1038/s43016-020-0057-2> (accessed 3 January 2024)

Mason-D'Croz, D.; Sulser, T.B.; Wiebe, K.; Rosegrant, M.W.; Lowder, S.K.; Nin-Pratt, A.; Willenbockel, D.; Robinson, S.; Zhu, T.; Cenacchi, N.; Dunston, S. and Robertson, R.D. (2019) '[Agricultural Investments and Hunger in Africa Modeling Potential Contributions to SDG2 - Zero Hunger](https://doi.org/10.1016/j.worlddev.2018.12.006)', *World Development* 116: 38-53, DOI: [10.1016/j.worlddev.2018.12.006](https://doi.org/10.1016/j.worlddev.2018.12.006) (accessed 3 January 2024)

Willenbockel, D.; Hoka Osiola, H. and Bawakyillenuo, S. (2017) '[Exploring the Macroeconomic Impacts of Low-Carbon Energy Transitions: A Simulation Analysis for Kenya and Ghana](https://doi.org/10.19088/1968-2017.163)', *IDS Bulletin* 48.5-6: 49-78, DOI: [10.19088/1968-2017.163](https://doi.org/10.19088/1968-2017.163) (accessed 3 January 2024)

Elshenawwy, A.; Robinson, S. and Willenbockel, D. (2016) '[Climate Change and Economic Growth: An Intertemporal General Equilibrium Analysis for Egypt](https://doi.org/10.1016/j.econmod.2015.10.008)', *Economic Modelling* 52(B): 681-689, DOI: [10.1016/j.econmod.2015.10.008](https://doi.org/10.1016/j.econmod.2015.10.008) (accessed 3 January 2024)

Wiebe, K.; Lotze-Campen, H.; Sands, R.; Tabeau, A.; van der Mensbrugghe, D.; Biewald, A.; Bodirsky, B.; Islam, S.; Kavallari, A.; Mason-D'Croz, D.; Müller, C.; Popp, A.; Robertson, R.; Robinson, S.; van Meijl, H. and Willenbockel, D. (2015) '[Climate Change Impacts on Agriculture in 2050 Under a Range of Plausible Socioeconomic and Emissions Scenarios](https://doi.org/10.1088/1748-9326/10/8/085010)', *Environmental Research Letters* 10(8), DOI: [10.1088/1748-9326/10/8/085010](https://doi.org/10.1088/1748-9326/10/8/085010) (accessed 3 January 2024)

Cirera, X.; Willenbockel, D. and Lakshman, R.W.D. (2014) '[Evidence on the Impact of Tariff Reductions on Employment in Developing Countries: A Systematic Review](https://doi.org/10.1111/joes.12029)', *Journal of Economic Surveys* 28.3: 449-471, DOI: [10.1111/joes.12029](https://doi.org/10.1111/joes.12029) (accessed 3 January 2024)

Nelson, G.C., Valin, H., Sands, R.D., Havlik, P., Ahammad, H., Deryng, D., Elliott, J., Fujimori, S., Hasegawa, T., Heyhoe, E.; Kyle, P.; von Lampe, M.; Lotze-Campen, H.; Mason-D'Croz, D.; van Meijl, H.; van der Mensbrugghe, D.; Müller, C.; Popp, A.; Robertson, R.; Robinson, S.; Schmid, E.; Schmitz, C.; Tabeau, A. and Willenbockel, D. (2014) '[Climate Change Effects on Agriculture: Economic Responses](https://doi.org/10.1016/j.econmod.2014.06.001)

to Biophysical Shocks, *Proceedings of the National Academy of Sciences of the United States of America* 111.9: 3274-90, DOI: 10.1073/pnas.1222465110 (accessed 3 January 2024)

Von Lampe, M.; Willenbockel, D.; Ahammad, H.; Blanc, E.; Cai, Y.; Calvin, K.; Fujimori, S.; Hasegawa, T.; Havlik, P.; Heyhoe, E.; Kyle, P.; Lotze-Campen, H.; Mason-D'Croz, D.; Nelson, G.C.; Sands, R.D.; Schmitz, C.; Tabeau, A.; Valin, H.; van der Mensbrugghe, D. and van Meijl, H. (2014) **'Why Do Global Long-Term Scenarios for Agriculture Differ? An Overview of the AgMIP Global Economic Model Intercomparison'**, *Agricultural Economics* 45.1: 3-20, DOI: 10.1111/agec.12086 (accessed 3 January 2024)

Robinson, S.; van Meijl, H.; Willenbockel, D.; Valin, H.; Fujimori, S.; Masui, T.; Sands, R.; Wise, M.; Calvin, K.; Havlik, P.; Mason-D'Croz, D.; Tabeau, A.; Kavallari, A.; Schmitz, C.; Dietrich, J.P. and von Lampe, M. (2014) **'Comparing Supply-Side Specifications in Models of Global Agriculture and the Food System'**, *Agricultural Economics* 45.1: 21-35, DOI: 10.1111/agec.12087 (accessed 3 January 2024)

Nelson, G.C.; van der Mensbrugghe, D.; Ahammad, H.; Blanc, E.; Calvin, K.; Hasegawa, T.; Havlik, P.; Heyhoe, E.; Kyle, P.; Lotze-Campen, H.; von Lampe, M.; Mason-D'Croz, D.; van Meijl, H.; Müller, C.; Reilly, J.; Robertson, R.; Sands, R.D.; Schmitz, C.; Tabeau, A.; Takahashi, K.; Valin, H. and Willenbockel, D. (2014) **'Agriculture and Climate Change in Global Scenarios: Why Don't the Models Agree'**, *Agricultural Economics* 45(1): 85-101, DOI: 10.1111/agec.12091 (accessed 4 January 2024)

Lotze-Campen, H.; von Lampe, M.; Kyle, P.; Fujimori, S.; Havlik, P.; van Meijl, H.; Hasegawa, T.; Popp, A.; Schmitz, C.; Tabeau, A.; Valin, H.; Willenbockel, D. and Wise, M. (2014) **'Impacts of Increased Bioenergy Demand on Global Food Markets'**, *Agricultural Economics* 45(1): 103-16, DOI: 10.1111/agec.12092 (accessed 4 January 2024)

Valin, H.; Sands, R.D.; van der Mensbrugghe, D.; Nelson, G.C.; Ahammad, H.; Blanc, E.; Bodirsky, B.; Fujimori, S.; Hasegawa, T.; Havlik, P.; Heyhoe, E.; Kyle, P.; Mason-D'Croz, D.; Paltsev, S.; Rolinski, S.; Tabeau, A.; van Meijl, H.; von Lampe, M. and Willenbockel, D. (2014) **'The Future of Food Demand: Understanding Differences in Global Economic Models'**, *Agricultural Economics* 45(1): 51-67, DOI: 10.1111/agec.12089 (accessed 4 January 2024)

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Reilly, M. and Willenbockel, D. (2010) **'Managing Uncertainty: A Review of Food System Scenario Analysis and Modelling'**, *Philosophical Transactions of the Royal Society, Series B: Biological Sciences* 365: 3049-63, DOI: 10.1098/rstb.2010.0141 (accessed 4 January 2024)

Chit, M. M.; Rizov, M. and Willenbockel, D. (2010) **'Exchange Rate Volatility and Exports: New Empirical Evidence from the Emerging East Asian Economies'**, *World Economy* 33(2): 239-63, DOI: 10.1111/j.1467-9701.2009.01230.x (accessed 4 January 2024)

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Dunne, J.P.; Smith, R.P. and Willenbockel D. (2005) '[Models of Military Expenditure and Growth: A Critical Review](#)', *Defence and Peace Economics* 16.6: 449-61, DOI: 10.1080/10242690500167791 (accessed 4 January 2024)

Willenbockel, D. (2005) '[Public Debt, the Terms of Trade and Welfare in an Overlapping Generations Model with Lifetime Uncertainty](#)', *Economics Bulletin* 5.10: 1-8 (accessed 4 January 2024)

Willenbockel, D. (2004) '[Specification Choice and Robustness in CGE Trade Policy Analysis with Imperfect Competition](#)', *Economic Modelling* 21(6): 1065-1099, DOI: 10.1016/j.econmod.2004.03.003 (accessed 4 January 2024)

Willenbockel, D. (1999) '[On Apparent Problems with the Use of the Armington Aggregator in Computable General Equilibrium Models](#)', *Applied Economics Letters* 6.9: 589-91, DOI: 10.1080/135048599352664 (accessed 4 January 2024)

Willenbockel, D. (1999) '[Dynamic Applied General Equilibrium Trade Policy Analysis in the Presence of Foreign Asset Cross-Ownership](#)', *Economic Modelling* 16(3): 371-388, DOI: 10.1016/S0264-9993(99)00006-1 (accessed 4 January 2024)

Willenbockel, D. (1998) '[Growth Effects of Anticipated Trade Liberalization and the Baldwin Multiplier](#)', *Economics Letters* 59(2): 231-235, DOI: 10.1016/S0165-1765(98)00039-1 (accessed 4 January 2024)

Selected Chapters in Edited Volumes

Willenbockel, D. (2015) 'Reflections on the Prospects for Pro-Poor Low-Carbon Growth', in L. Haddad, H. Kato and N. Meisel (eds), *Growth is Dead, Long Live Growth: The Quality of Growth and Why it Matters*, Tokyo: Japan International Cooperation Agency

Willenbockel, D. (2015) 'Scenarios for Global Agriculture and Food Security towards 2050: A Review of Recent Studies', in I. Christoplos and A. Pain (eds), *New Challenges to Food Security: From Climate Change to Fragile States*, London: Routledge

Willenbockel, D. (2012) 'From Overhang to Hangover: Consequences of Protectionist Responses to the Global Crisis for Low-Income Countries,' in K. Farmer (ed) *Financial Crises: Causes, Management, and Economic Impacts*, New York: Nova Science

Willenbockel, D. (2004) 'Imperfect Competition: Modelling Alternatives and Sensitivity', in C. Böhringer and A. Löschel (eds), *Climate Change Policy and Global Trade*, Heidelberg and New York: Springer

Willenbockel, D. (2001) 'Recent Developments in the Predictive Assessment of Dynamic Integration Effects: A Critical Appraisal', in C.C. Paraskevopoulos, T. Georgakopoulos and L. Michelis (eds), *The Asymmetric Global Economy: Growth, Investment and Public Policy*, Toronto: APF Press

Selected Published Research Reports

Willenbockel, D. et al. (2018) [Dynamic Computable General Equilibrium Simulations in Support of Quantitative Foresight Modeling to Inform the CGIAR Research Portfolio](#), IFPRI Discussion Paper 0173 8, Washington, DC: International Food Policy Research Institute (accessed 4 January 2024)

Ahmed, S.A.; Go, D.S. and Willenbockel, D. (2016) [Global Migration Revisited: Short-Term Pains, Long-Term Gains and the Potential of South-South Migration](#), World Bank Policy Research Working Paper No. 7628, Washington, DC: World Bank (accessed 5 January 2024)

Willenbockel, D. (2014) [Computable General Equilibrium Simulations of the COMESA-EAC-SADC Tripartite Free Trade Agreement](#), MPRA Paper No.78069, Munich: MPRA (accessed 5 January 2024)

Willenbockel, D. (2013) [General Equilibrium Assessment of the COMESA-EAC-SADC Tripartite FTA](#), MPRA Paper No.515051, Munich: MPRA (accessed 5 January 2024)

UK Department for Environment, Food and Rural Affairs (2013) *Global Food Security Modelling: A Review of Approaches and Results*, London: Her Majesty's Stationery Office

Willenbockel, D. (2012) *Extreme Weather Events and Crop Price Spikes in a Changing Climate: Illustrative Global Simulation Scenarios*, Oxfam Research Reports, Oxford: Oxfam

Willenbockel, D. (2011) *Fossil Fuel Prices and Taxes: Effects on Economic Development and Income Distribution in Viet Nam*, Package 2: CGE Modelling, Hanoi: UNDP

Cirera, X.; Willenbockel, D. and Lakshman, R.W.D. (2011) *What is the Evidence of the Impact of Tariff Reductions on Employment and Fiscal Revenue in Developing Countries? A Systematic Review*, EPPI-Centre Report 1907, London: University of London (accessed 11 January 2024)

Willenbockel, D. (2011) *Exploring Food Price Scenarios Towards 2030 With a Global Multi-Region Model*, Oxfam Research Report, Oxford: Oxfam International (accessed 11 January 2024)

Willenbockel, D. (2011) *A Cost-Benefit Analysis of Practical Action's Livelihood-Centred Disaster Risk Reduction Project in Nepal*, Report Commissioned by Practical Action, Brighton: Institute of Development Studies (accessed 11 January 2024)

Government Office for Science (2011) *Food System Scenarios and Modelling, Foresight Project Global Food and Farming Futures Synthesis Report C4*, London: Government Office for Science

CARIS (2011) *Economic Integration in South East Asia and the Impact on the EU*, European Commission Report, DG Trade, Brighton: University of Sussex

World Bank (2010) *The Economics of Adaptation to Climate Change: Ghana*, Washington, DC; World Bank

Willenbockel, D. (2010) *Imperfect Competition in the National Treasury CGE Model of South Africa: Documentation and Training Manual*, World Bank Report, Pretoria: National Treasury, Republic of South Africa

Willenbockel, D. (2010) *Impact Assessment Report of Draft Environmental Tax Law in Vietnam*, GTZ Report, Hanoi: Gesellschaft für Technische Zusammenarbeit

CARIS (2010) *Mid-Term Evaluation of the EU Generalised System of Preferences*, European Commission Report, Brighton: Institute of Development Studies

Robinson, S.; Willenbockel, D.; Ahmed, H. and Dorosh, P. (2010) *Implications of Food Production and Price Shocks for Household Welfare in Ethiopia: A General Equilibrium Analysis*, MPRA Paper No. 39533, Addis Ababa: World Food Programme (accessed 11 January 2024)

Polaski, S. et al. (2009) *Brazil in the Global Economy: Measuring the Gains from Trade*, Washington, DC / Geneva: Carnegie Endowment for International Peace / International Labour Office (accessed 11 January 2024)

Ahmed, H.; Amogne, A.; Tebekew, T.; Teferra, B.; Tsehaye, E.; Dorosh, P.; Robinson, S. and Willenbockel, D. (2009) *A Regionalized Social Accounting Matrix for Ethiopia 2005/06: Data Sources and Compilation Process*, Technical Report for the UN World Food Programme, Addis Ababa: UN World Food Programme

Willenbockel, D. (2009) *Global Energy and Environmental Scenarios: Implications for Development Policy*, DIE Discussion Paper No. 8/2009, Bonn: German Development Institute

Ahmed, H.; Arndt, C.; Robinson, S. and Willenbockel, D. (2008) *A Country Study on the Economics of Climate Change: The Case of Ethiopia*, Washington, DC: World Bank (accessed 11 January 2024)

CARIS (2008) *The Impact of Trade Policies on Pakistan's Preferential Access to the European Union, Part 2*, Report for the European Commission, Brighton: University of Sussex

Boehringer, C.; Francois, J.F.; Rauscher, M.; Stroblos, N. and Willenbockel, D. (2003) *Climate Change Policy and Global Trade*, Summary Report for the European Commission, Brussels: European Commission

Capros, P.; Georgakopoulos, T.; van Regemorter, D.; Proost, S. and Willenbockel, D.(1998) *Aggregate Results of the Single Market Programme*, *European Commission*, Single Market Review, Subseries VI, Vol.5, Luxembourg: Office for Official Publications of the European Communities and London: Kogan Page – Earthscan