

List of Scientific Publications

Dr. Jonas Luckmann

September 2021

Journal Articles:

Siddig, K., Basheer, M. and J. Luckmann (2021): Economy-wide assessment of potential long-term impacts of the Grand Ethiopian Renaissance Dam on Sudan. *Water International*, <https://doi.org/10.1080/02508060.2021.1885126>

Stepanyan, D., Grethe, H., Zimmermann, G., Siddig, K., Deppermann, A., Feuerbacher, A., Luckmann, J., Valin, H., Nishizawa, T., Ermolieva, T. and P. Havlik (2020): Multiple rotations of Gaussian quadratures: An efficient method for uncertainty analyses in large-scale simulation models. *Environmental Modelling & Software* (136): 104929, doi.org/10.1016/j.envsoft.2020.104929.

Luckmann, J. (2020): Editorial - Volume 6 Issue 2. *Water Economics and Policy* 6(2): 2001002 (7 pages), doi: 10.1142/S2382624X2001002X.

Feuerbacher, A., Luckmann, J., Boysen, O., Zikeli, S. and H. Grethe (2018): Is Bhutan destined for 100% organic? Assessing the economy-wide effects of a large-scale conversion policy. *PLoS ONE* 13(6), doi: 10.1371/journal.pone.0199025.

Luckmann, J. (2017): Editorial - Special Issue on Economy-Wide Models of Water Development and Management. *Water Economics and Policy* 2(4):1602003 (8 pages), doi: 10.1142/S2382624X16020033.

Luckmann, J., Flaig, D., Grethe, H. and K. Siddig (2016): Modelling Sectorally Differentiated Water Prices - Water Preservation and Welfare Gains Through Price Reform? *Water Resources Management* 30(7): 2327–2342, doi: 10.1007/s11269-015-1204-7.

Luckmann, J., Grethe, H. and S. McDonald (2016): When water saving limits recycling: Modeling economy-wide linkages of wastewater use. *Water Research* 88: 972-980, doi: 10.1016/j.watres.2015.11.004.

Luckmann, J., Ihle, R., Kleinwechter, U. and H. Grethe (2015): Do Vietnamese upland farmers benefit from high world market prices for maize? *Agricultural Economics* 46(S1):1-11, doi: 10.1111/agec.12194.

Luckmann, J., Ihle, R., Kleinwechter, U. and H. Grethe (2015): World market integration of Vietnamese rice markets during the 2008 food price crisis. *Food Security* 7(1): 143-157, doi: 10.1007/s12571-014-0412-y.

Agbahey, J., Luckmann, J., Grethe, H. and B. Alamirew (2015): How do domestic policies affect the integration of Ethiopian fertilizer markets with world markets? *Journal of Agriculture and Rural Development in the Tropics and Subtropics*, 116(2): 213-226, urn: nbn:de:hebis:34-2015111149311.

Deppermann, A., Grethe, H. and J. Luckmann (2014): Sustainable Food Systems and EU Policies. *Technikfolgenabschätzung, Theorie und Praxis* 23(3): 60-70, doi: 10.14512/tatup.23.3.60

Luckmann, J., Grethe, H., McDonald, S., Orlov, A. and K. Siddig (2014): An integrated economic model of multiple types and uses of water. *Water Resources Research* 50: 3875–3892, doi: 10.1002/2013WR014750.

Flaig, D., Siddig, K., Grethe, H., Luckmann, J. and S. McDonald (2013): Relaxing Israeli Restrictions on Palestinian Labour: Who Benefits? *Economic Modelling* 31: 143-150, doi: 10.1016/j.econmod.2012.11.052.

Conference Papers:

Kinkpe, T., Luckmann, J. und H. Grethe (2021): Improving livelihoods in agriculture-based economies through processing sector development: A CGE analysis on Benin. Presented at the 24th Annual Conference on Global Economic Analysis, 23-25 June 2021, Virtual Conference.

Luckmann, J., Siddig, K. and J. Agbahey (2020): Redistributing Water Rights between the West Bank and Israel – More Than a Zero-sum Game? Presented at the 26th Annual Conference of the Economic Research Forum, July 1st 2020, Virtual Conference.

Grethe, H., Luckmann, J., Siddig, K. and T. Kinkpe (2020): How pro-poor are productivity gains in agriculture? The case of the national agricultural investment plan of Benin. Presented at the 23rd Annual Conference on Global Economic Analysis, 17-19 June 2020, Virtual Conference.

Ashiabi, N., Luckmann, J. and H. Grethe (2019): When Pastoralists become Farmers: Economy-wide Effects of Sedentarisation. Presented at the 22nd Annual Conference on Global Economic Analysis, 19-21 June 2019, Warsaw, Poland.

Luckmann J., Siddig, K. and J. Agbahey (2019): A new agreement on water access in the West Bank- What is at stake? An economy-wide cross-border-analysis. Presented at the 22nd Annual Conference on Global Economic Analysis, 19-21 June 2019, Warsaw, Poland.

Siddig, K., Luckmann, J. and H. Grethe (2019): Economy-wide Cost-Benefit Assessment of the Great Ethiopian Renaissance Dam for the Sudan. Presented at the 22nd Annual Conference on Global Economic Analysis, 19-21 June 2019, Warsaw, Poland.

Stepanyan, D., Grethe, H., Zimmermann, G., Siddig, K., Deppermann, A., Feuerbacher, A., Luckmann, J., Valin, H., Nishizawa, T., Ermolieva, T. and P. Havlik (2019): Multiple Rotations of Gaussian Quadratures: An Efficient Method for Uncertainty Analyses in Large-Scale

Simulation Models. Presented at the 22nd Annual Conference on Global Economic Analysis, 19-21 June 2019, Warsaw, Poland.

Luckmann J. and D. Stepanyan (2018): Water pricing under climate uncertainty – an economy-wide model considering precipitation stochastics. Presented at the 21st Annual Conference on Global Economic Analysis, 13-15 June 2018, Cartagena de Indias, Columbia.

Agbahey, J., Siddig, K., Grethe, H. and J. Luckmann (2017): Trade policy in a sovereign Palestinian state: what are the options in a final status? Presented at the 20th Annual Conference on Global Economic Analysis, 7-9 June 2017, West Lafayette, USA.

Feuerbacher, A. and J. Luckmann (2017): Modelling field operations in a computable general equilibrium model: An application to labour shortages in Bhutan. Presented at the Annual International Conference on Economic Modeling, 5-7 July 2017, Ljubljana, Slovenia.

Feuerbacher, A., Luckmann, J., Boysen, O., Zikeli, S., and H. Grethe (2016): The 100% Organic Agriculture Policy in Bhutan – A gift or a curse? Presented at the 19th Annual Conference on Global Economic Analysis, 15-17 June 2016, Washington D.C., USA.

Luckmann, J., Reznik, A., Feinerman, E., Finkelshtain, I., Grethe, H. and I. Kan (2016): Combining the best of two worlds - An integrative water modelling approach. Presented at the 19th Annual Conference on Global Economic Analysis, 15-17 June 2016, Washington D.C., USA.

Luckmann, J., Grethe, H. and S. McDonald (2015): When Water Saving Limits Recycling: Modeling Cascading Water Use in a Computable General Equilibrium Framework. Presented at the 18th Annual Conference on Global Economic Analysis, 17-19 June 2015, Melbourne, Australia.

Luckmann, J., Grethe, H., and S. McDonald (2015): When water saving limits recycling: Modeling economy-wide linkages of wastewater use. Contributed paper at the International Association of Agricultural Economists Conference, 8-14 August 2015, Milano, Italy.

Luckmann, J., Flaig, D., Grethe, H., McDonald, S. and K. Siddig (2015): Modelling Sectorally Differentiated Water Prices in a Computable General Equilibrium Model. Presented at the 9th World Congress of the European Water Resources Association, 10-13 June 2015, Istanbul, Turkey.

Luckmann, J., Grethe, H., McDonald, S., Orlov, A. and K. Siddig (2013): A general equilibrium approach to modelling multiple types and uses of water. Presented at the 16th Annual Conference on Global Economic Analysis, 12-14 June 2013, Shanghai, China.

Luckmann, J., Siddig, K., Flaig, D. and H. Grethe (2012): Mitigating Water Scarcity in Israel: A Computable General Equilibrium Analysis. Presented at the 52nd Annual GEWISOLA conference 26-28 September 2012, Hohenheim, Germany.

- Luckmann, J., Grethe, H., McDonald, S. and K. Siddig (2012): Modeling Sectorally Differentiated Water Prices: An Application to the Israeli Water Economy. Presented at the at the Annual International Conference on Economic Modeling 04-06 July 2012, Seville, Spain.
- Flaig, D., Siddig, K., Grethe, H., Luckmann, J. and S. McDonald (2011): Enforcing Israeli Labour Market Laws against Non-Israelis: Who Pays the Price? Presented at the 14th Annual Conference on Global Economic Analysis, 16-18 June 2011, Venice, Italy.
- Flaig, D., Siddig, K., Grethe, H., Luckmann, J. and S. McDonald (2011): The Integration of Palestinian-Israeli Labour Markets: A CGE Approach. Presented at the Annual Meeting of the Agricultural & Applied Economics Association, 24-26 July 2011, Pittsburgh, USA.
- Luckmann, J., Ihle, R., Grethe, H. and U. Kleinwechter (2011): Can Vietnamese Upland Farmers Profit from High World Market Prices? A Price Transmission Analysis. Poster at the 13th Congress of the European Association of Agricultural Economists, 30 August- 02 September 2011 Zürich, Switzerland.
- Luckmann, J., Siddig, K., Flaig, D. and H. Grethe (2011): A General Equilibrium Approach to Model Water Scarcity in Israel. Presented at the 14th Annual Conference on Global Economic Analysis, 16-18 June 2011, Venice, Italy.
- Luckmann, J., Siddig, K., Flaig, D. and Grethe, H. (2011): Modeling water scarcity in Israel, a general equilibrium approach. Presentation at the International Workshop "Emerging Issues in Agricultural Economics - Farms and Farming People: Structure and Connections to Food Security and Rural Communities", 29 May- 2 June 2011, Hebrew University of Jerusalem, Israel.
- Luckmann, J., Grethe, H., Ihle, R. and U. Kleinwechter (2010): How Were Vietnamese Upland Farmers Affected by the Recent Fluctuations of Food Prices on World Markets? Presented at Tropentag 2010, 14-16 September 2010, Zürich, Switzerland.

Other publications:

- Luckmann, J. (2021): Meat waste: a lot less than the whole hog. In: Heinrich-Böll-Stiftung, Friends of the Earth Europe, Bund für Umwelt und Naturschutz Deutschland (Eds.), Meat Atlas 2021, <https://eu.boell.org/en/2021/09/07/meat-waste-lot-less-whole-fog?dimension1=ecology>
- Luckmann, J. (2021): Verschwendung in Deutschland – Viel zu wenig wird vermieden. In: Heinrich-Böll-Stiftung, Bund für Umwelt und Naturschutz Deutschland, Le Monde Diplomatique (Eds.), Fleischatlas 2021, <https://www.boell.de/de/fleischatlas>.
- Marentis, A.G., Luckmann, J. und K. Siddig (2021): Social Accounting Matrix for Chile. Working Paper No. 100. Department of Agricultural Economics, Humboldt-Universität zu Berlin, <https://ageconsearch.umn.edu/record/311213>

- Grethe, H., Luckmann, J., Siddig, K. und T. Kinkpe (2020): Ex-ante Analysis of the “National Investment Plan for Agriculture, Food and Nutritional Security” of Benin - Is the Envisaged Productivity Growth Pro-Poor? Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Bonn du Eschborn, Germany, <https://www.snrd-africa.net/will-agricultural-productivity-growth-benefit-the-poor/>.
- Luckmann, J., Siddig, K. and J. Agbahey (2020): Redistributing Water Rights between the West Bank and Israel-More Than A Zero-Sum Game? Economic Research Forum Working Papers. No 1410. <https://EconPapers.repec.org/RePEc:erg:wpaper:1410>.
- Siddig, K., Basheer, M. and J. Luckmann (2020): Long-Term Economy-Wide Impacts of the Grand Ethiopian Renaissance Dam on Sudan. Economic Research Forum Working Papers. No 1427. <https://EconPapers.repec.org/RePEc:erg:wpaper:1427>.
- Agbahey, J., K. Siddig, H. Grethe and J. Luckmann (2018): Trade Policy in a Sovereign Palestinian State: What are the Options in a Final Settlement? Working Paper No 1242, Economic Research Forum, Oct. 2018. <http://erf.org.eg/publications/trade-policy-in-a-sovereign-palestinian-state-what-are-the-options-in-a-final-settlement/>.
- Luckmann, J. and S. McDonald (2014): STAGE_W: An Applied General Equilibrium Model With Multiple Types of Water. Agricultural Economics Working Paper Series Vol. 23. Institute of Agricultural Policy and Markets, University of Hohenheim, Stuttgart, Germany.
- Siddig, K. and J. Luckmann (2013): GTAP 8.1 Data Base Documentation - Chapter 7: Nigeria. Global Trade Analysis Project. Center for Global Trade Analysis, Purdue University, West Lafayette, USA.
- Siddig, K., Flaig, D., Luckmann, J. and H. Grethe (2012): GTAP 8 Data Base Documentation - Chapter 7.R: Israel. Global Trade Analysis Project. Center for Global Trade Analysis, Purdue University, West Lafayette, USA.
- Siddig, K., Flaig, D., Luckmann, J. and H. Grethe (2011): A 2004 Social Accounting Matrix for Israel. Agricultural Economics Working Paper Series Vol. 20. Institute of Agricultural Policy and Markets, University of Hohenheim, Stuttgart, Germany.