

GTAP Related Activities



The Johann Heinrich von Thünen-Institute (vTI) was founded in January 2008. It evolved from the German Federal Research Centre for Fisheries, the German Federal Research Centre for Forestry and Forest Products and parts of the German Federal Agricultural Research Centre (FAL). The vTI (FAL) has been a member of the GTAP consortium since 1999 and uses GTAP for a range of research activities including issues related to EU agricultural policy and international trade in agricultural and food products and environmental issues

In November 2009 Martin Banse became the new director of the Institute for Market Analysis and Agricultural Trade Policy. In his new position Martin Banse continued his GTAP related work as an active board member.

Within the next years we plan to extend our quantitative analysis based on GTAP modeling, especially in the area of the linkage of agricultural and energy markets. To realize this plan Franziska Junker will join in September our GTAP modeling group at vTI. With Franziska there will be three permanent staff members at our institute working on GTAP.

Joint modeling work is also envisaged with the research team at LEI in The Hague. Currently the administration of both research institutes is working on a collaboration agreement setting the formal framework for an intensive collaboration in GTAP related work, i.e. base data, parameter estimation, baseline harmonization.

Below is a short summary of GTAP related research activities of the vTI in 2010/2011.

Publications:

BANSE M, MEIJL H VAN, WOLTJER G (2010) Biofuel policies, production, trade and land use. In: Langeveld H, Meeusen M, Sanders J (eds.) The biobased economy: biofuels, materials and chemicals in the post-oil era. London: Earthscan Publications.

BANSE M, SORDA G (2010) Impact of different biofuel policy options on agricultural production and land use in Germany. In: Loy, J-P, Müller R A E (eds.) Schriften der Gesellschaft für Wirtschafts- und Sozialwissenschaften des Landbaus 45:35-49.

BANSE M, TABEAU A, VAN MEIJL H, WOLTJER G (2010) Modeling the Consequences of Increasing Bioenergy Demand on Land and Feed Use. Paper presented 114th EEAEE-Seminar 'Structural Change in Agriculture: Modeling Policy Impacts and Farm Strategies', April 15 - 16, 2010. Berlin, Germany.

BANSE M, VAN MEIJL H, TABEAU A, WOLTJE R G, HELLMANN T, VERBURG P (2011) Impact of EU biofuel policies on world agricultural production and land use. *Biomass and Bioenergy* 35 (6): 2385-2390.

BEFUS T, PELIKAN J (2011) Methoden zur Messung von nichttarifären Handelsmaßnahmen: Welche Möglichkeiten bietet die bisherige Forschung? *Wirtschaftswissenschaftliches Studium*.

EFKEN J, BERGSCHMIDT A, DEBLITZ C, HAXSEN G, PELIKAN J (2011) Der Markt für Fleisch und Fleischprodukte, *German Journal of Agricultural Economics* 60 (Supplement): 72-84.

OFFERMANN F, GÖMANN H, KREINS P, VON LEDEBUR O, PELIKAN J, SALAMON P, SANDERS J (2010) vTI-Baseline 2009 to 2019: Agri-economic projections for Germany, *Landbauforschung - vTI Agriculture and Forestry Research* 60(3): 157-172.

PELIKAN J, ISERMEYER F, OFFERMANN F, SANDERS J, ZIMMER Y (2010) Auswirkungen einer Handelsliberalisierung auf die deutsche und europäische Landwirtschaft, *Landbauforschung vTI Agriculture and Forestry Research, Special Issue* 338.

PRINS, A G, EICKHOUT B, BANSE M, VAN MEIJL H, RIENKS W, WOLTJER G (2011) Global impacts of European agricultural and biofuel policies. *Ecology and Society* 16 (1):49.

SORDA G, BANSE M, KEMFERT C (2010) An overview of biofuel policies across the world. *Energy Policy* 38(11):6977-6988.

TABEAU A, BANSE M, WOLTJER G, MEIJL H VAN (2011) Impact of the EU biofuels directive on the EU food supply chain. *Journal Food Product Marketing* 117(2-3):373-385.

Projects:

1. BMELV (Ministry of Food, Agriculture and Consumer Protection) project to analyze the effects of regional trade agreements between the EU and different trading partners
2. BMELV (Ministry of Food, Agriculture and Consumer Protection) project to implement Bioenergy in GTAP. Main activities:
 - a. Disaggregation of commodity markets employed in bioenergy production and corresponding adaptation of the GTAP model
 - b. Implementation of national, EU and international bioenergy policies

Presentations:

1. BANSE, M (2010): Modellierung von einer verstärkten Nutzung von Bioenergie mit gekoppelten (Gleichgewichts-) Modellen. DBFZ/BMU-Expertenworkshop 'Modellierung von direkten und indirekten Landnutzungsänderungen durch Biokraftstoffproduktion', 22.06.2010. Berlin.
2. NOWICKI P, BANSE M, VAN MEIJL H (2010) Integrating decomposition analysis within the macro-economic modeling used for scenario studies. Poster presented at 114th EAAE-Seminar 'Structural Change in Agriculture: Modeling Policy Impacts and Farm Strategies', April 15 - 16, 2010. Berlin, Germany.
3. BANSE M, SALAMON P (2011) Combining commodity market analysis and modeling. Presentation at 20th World Outlook Conference Braunschweig, Germany, 16-18 May, 2011.
4. BANSE M, TABEAU A, VAN MEIJL H, WOLTJER G, PRINS A G (2011) Global impact of multinational biofuel mandates on land use, feedstock prices, international trade and greenhouse gas emissions. Paper prepared for the 14th Annual Conference on Global Economic Analysis "Governing Global Challenges: Climate Change, Trade, Finance and Development". Venice, June 16-18, 2011.
5. CHANT L, BANSE M (2011) Darwinian pools? The evolution of factor market modelling in global CGE models. Paper prepared for the 14th Annual Conference on Global Economic Analysis "Governing Global Challenges: Climate Change, Trade, Finance and Development". Venice, June 16-18, 2011.
6. PELIKAN J (2010) How Green are Agricultural Set Asides? An Analysis at the Global and Regional Levels, Thirteenth Annual Conference on Global Economic Analysis. Juni 2010 Penang, Malaysia.
7. PELIKAN J (2010) Auswirkungen einer Handelsliberalisierung auf die deutsche und europäische Landwirtschaft. Kolloquium anlässlich der Überreichung des vTI-Forschungspreises 2010, Dezember 2010, vTI, Braunschweig.