

## GTAP Related Activities

Below is a short summary on GTAP related research activities by Thünen Institute in 2013/2014.

### Staff

In February 2014 Sandra Marquardt joined the Thünen Institute and started to work with MAGNET (a GTAP based model) in the field of biofuel and land use change activities. The aim of her work is to extend MAGNET in a meaningful way so as to be able to provide a more comprehensive representation of biofuels as well as biofuel policy mandates, especially regarding their greenhouse gas emission impacts.

Currently eight researchers are involved in CGE related activities: Martin Banse, Aida Gonzalez, Franziska Junker, Sandra Marquardt, Janine Pelikan, Andrea Rothe, Petra Salamon, Verena Wolf.

### Publications:

- BANSE, M., JUNKER, F., PRINS, A. G., STEHFEST, E., TABEAU, A., WOLTJER, G., VAN MEIJL, H. (2014): Global impact of multinational biofuel mandates on land use, feedstock prices, international trade and greenhouse gas emissions. Submitted to Landbauforschung - vTI Agriculture and Forestry Research. Finally accepted.
- BROCKMEIER, M., BEFUS, T. and PELIKAN, J. (2014) Impacts of an EU-USA-Free Trade Agreement on Developing Countries, Book Chapter, Peter Lang Verlag, Frankfurt, Germany (forthcoming).
- JUNKER, F., WOLF, V., BANSE, M. (2014): Feed – Food- Fuel: A perspective for Africa. ; 17th Annual Conference on Global Economic Analysis. Dakar, Senegal, June 2014.
- NARAYANAN, B. and PELIKAN, J. (2014): Compound Tariffs in EU Agriculture: Linking partial and general equilibrium models to get more insights. 17th Annual Conference on Global Economic Analysis. Dakar, Senegal, June 2014.
- PELIKAN, J.: TASTE Add-on for GTAP8.1 based on CEPII/ITC MacMAP applied tariffs September 2013 <http://www.monash.edu.au/policy/taste.htm>
- PELIKAN, J., BANSE, M. (2014): Auswirkungen regionaler Freihandelsabkommen auf deutsche und europäische Agrarmärkte. Braunschweig: Johann Heinrich von Thünen-Institut, Thünen Working Paper 17. [http://literatur.ti.bund.de/digbib\\_extern/dn053253.pdf](http://literatur.ti.bund.de/digbib_extern/dn053253.pdf)

PELIKAN, J., BRITZ W. and HERTEL, T. (2014): Green Light for Green Agricultural Policies? An Analysis at Regional and Global Scales. *Journal of Agricultural Economics* (forthcoming).

PICHOT, X., MONDHER MIMOUNI, M. NARAYANAN, B. and PELIKAN, J.: Construction of ITC MAcMap tariff dataset. 17th Annual Conference on Global Economic Analysis. Dakar, Senegal, June 2014.

## **Projects:**

1. BMEL (Federal Ministry of Food and Agriculture) project to analyze the effects of regional trade agreements (TTIP, EU-Canada, MERCOSUR etc.) on the German and European agricultural sector.
2. OECD-Study (2013): Measuring the incidence of policies along the food chain (Project coordinator: LEI Wageningen University and Research).
3. MACSUR („Modeling European Agriculture with Climate Change for Food Security”). The project is a JPI (Joint Programming Initiative) by the EU but is funded at the national level. It consists of more than 60 working groups from 14 European countries with the Thünen Institute being its main coordinator. For further details see [www.macsur.eu](http://www.macsur.eu)
4. Project analyzing the impact of different assumptions on the development of macroeconomic, agronomic and policy indicators on global agricultural markets. To this end, further disaggregation of the cereal and oilseed sectors have been carried out.
5. Ph.D. project: The project focuses on the development of a detailed single country CGE model for Germany based on the STAGE model. One of the main challenges is the development and disaggregation of a Social Accounting Matrix (SAM) for Germany. The distinctive features of the model derive from the focus of the analyses being on the impact of agricultural and energy policies on all parts of the economy: in particular the agricultural, food and energy sectors will be modeled at a more disaggregated level than in the standard national accounts database.
6. Analysis of impacts of bioenergy production on land markets, trade and food security in a global context within the BMWi (German Federal Ministry for Economic Affairs and Energy) financed project “development of elements and milestones of a sustainable bioenergy strategy”.
7. AGRICISTRADe (Agriculture and trade development in EU’s Eastern Neighbours) is a FP7 project. Within the project MAGNET will be linked to a partial equilibrium model and trade analysis between the EU and its Eastern Neighbours will be carried out.

## **Other Activities:**

1. Cooperation with the LEI Wageningen University and Research and EU Commission DG Joint Research Center JRC/IPTS in Seville (Spain) to further develop MAGNET (GTAP based model with extensions added in a modular structure).