

GTAP Related Activities



Below is a short summary of GTAP related research activities of the vTI in 2011/2012.

Staff

In September 2011 Franziska Junker joined vTI and started to work on the representation of the biobased economy in GTAP (MAGNET). Janine Pelikan spent a year on parental leave and returned to vTI in May 2012.

Currently five researchers are involved in CGE related work: Martin Banse, Franziska Junker, Janine Pelikan, Andrea Rothe, Petra Salamon.

Publications:

Offermann, F., Banse, M., Ehrmann, M., Gocht, A., Gömann, H., Haenel, H.-D., Kleinhanß, W., Kreins, P., von Ledebur, O., Osterburg, B., Pelikan, J., Rösemann, C., Salamon, P., Sanders, J. (2012): vTI-Baseline 2011-2021: Agri-economic projections for Germany. Landbauforschung vTI, Braunschweig.

Shutes, L., Rothe, A., Banse, M. (2012): Factor Markets in Applied Equilibrium Models: The current state and planned extensions towards an improved presentation of factor markets in agriculture. Factor Markets, Working Paper No. 23 <http://www.factormarkets.eu/content/factor-markets-applied-equilibrium-models-current-state-and-planned-extensions-towards>

Tabeau, A., Banse, M., Woltjer, G. and van Meijl, H. (2011): Impact of the EU Biofuels Directive on the EU food supply chain. J Food Products Marketing 17(2-3):373-385.

Sorda G., Banse M. (2011): The Response of the German Agricultural Sector to the Envisaged Biofuel Targets in Germany and Abroad: A CGE Simulation. GerJAgEcon 40(4):243-258.

Banse M., Junker, F., Prins, A.G., Stehfest, E., Tableau, A., Woltjer, G., van Meijl, H. (2012): Biofuel do Brasil? - Impact of Multinational Biofuel Mandates on Agri-food Trade. Paper accepted for the IAAE-Conference, August 18-24, 2012, Foz do Iguaçu, Brazil. <http://purl.umn.edu/123838>.

Projects:

1. BMELV (Ministry of Food, Agriculture and Consumer Protection) project to analyze the effects of regional trade agreements on the German and European agricultural sector.

2. MACSUR („Modelling European Agriculture with Climate Change for Food Security”). www.macsur.eu The project is a JPI (Joint Programming Initiative) of the EU and not centrally funded, but at the national level. It consists of more than 60 working groups from 14 European countries. vTI is the main coordinator.
3. Project to analyze the impact of different assumptions on the development of macroeconomic and agronomic indicators on global agricultural markets. To this end, further disaggregation of the cereals and oilseeds sector will be carried out.
4. Ph.D. project: The project focuses on the development of a detailed single country CGE model for Germany, where the main challenges are associated with the development of a bio-based Social Accounting Matrix (SAM) together with the requisite satellite accounts. The distinctive features of the model derive from the focus of the analyses being on the impact of agricultural and energy policies on all sectors of the bio-based economy in Germany; in particular the agricultural, food and chemical sectors will be modeled at a more disaggregated level than in the standard national accounts database. This requires additional disaggregation of inputs - intermediate use and final demand, outputs – joint- and by-production within agriculture and its use for further processing, and of agricultural and bio-based policy instruments. The main challenge therefore is the further disaggregation of the agricultural, food, ‘chemical’ and energy sectors in existing SAMs for Germany.

Other Activities:

1. Cooperation with LEI and IPTS to further develop MAGNET (GTAP based model with extensions added in a modular structure). Within 2011/12 two workshops and training sessions were conducted at the LEI where vTI staff participated.
2. Joint MAGNET training course for the River Nile Project together with Martine Rutten (LEI, The Hague).