

GTAP Related Activities

Below is a short summary of GTAP related research activities of Thünen Institute in 2012/2013.

Staff

In November 2012 Verena Wolf joined Thünen Institute and started to work with MAGNET (a GTAP based model) in the field of biofuel and land activities. The aim of the work is to link MAGNET with LandShift (biophysical land distribution model) and a technology model related to biomass for energy developed at Center for Environmental Systems Research (CESR), University of Kassel, Germany.

Currently six researchers are involved in CGE related work: Martin Banse, Franziska Junker, 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. (2012): Biofuel do Brasil? Impact of Multinational Biofuel Mandates on Agri-food Trade. Paper presented at the International Association of Agricultural Economists (IAAE) Triennial Conference, Foz do Iguacu, Brazil, 18-24 August, 2012.

BRITZ W., HERTEL, T. and PELIKAN, J. (2013): Green Light for Green Agricultural Policies? An Analysis at Regional and Global Scales. 16th Annual Conference on Global Economic Analysis. Shanghai, China, June 2013.

HENSELER, M., PIOT-LEPETIT, I., GONZALEZ MELLADO, A., FERRARI, E., BANSE, M., GRETHE, H., PARISI, C., HÉLAINE, S. (2013): On the Asynchronous Approvals of GM crops: Potential Market Impacts of a Trade Disruption of EU Soy Imports. FOOD POLICY (in print).

HOEFNAGELS, R, BANSE M., DORNBURG, V.,FAAIJ, A. (2013): Macro-economic impact of large-scale deployment of biomass resources for energy and materials on a national level—A combined approach for the Netherlands. ENERGY POLICY (in print).

KAVALLARI, A., PELIKAN, J., BANSE, M., VAN MEIJL, H., WOLF, V. and WOLTJER, G. (2013): Analysis of the implications of policies in the fertilizer and biofuel sectors of various countries on agricultural markets and income: Conceptualisation of the analysis. A pre-study in accordance with TAD/CA/APM/WP(2011)16/REV1.

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. OECD-Study (2012-2013): Measuring the incidence of policies along the food chain (Project coordinator: LEI).
3. MACSUR („Modelling European Agriculture with Climate Change for Food Security“). 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. Thünen Institute is the main coordinator. 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 cereals and oilseeds sector has 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 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 BMU financed project “development of elements and milestones of a sustainable bioenergy strategy”.

Other Activities:

1. Cooperation with LEI and IPTS to further develop MAGNET (GTAP based model with extensions added in a modular structure).
2. Training Session May 2013 Seville (Intermediate MAGNET training course with members of the AgriLife section at JRC/IPTS)