



Faculty of Agriculture and Horticulture
Department of Agricultural Economics

SiAg - DFG-Research Unit
Structural Change in Agriculture



Structural Change in Agriculture: Modeling Policy Impacts and Farm Strategies

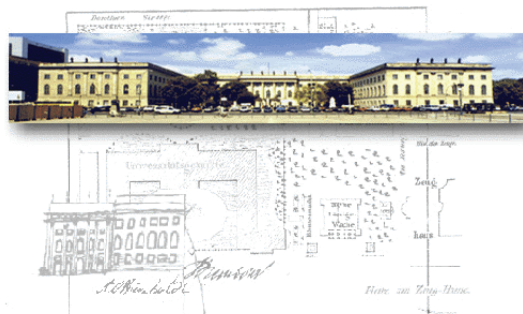
114th Seminar of the EAAE



April 15 - 16, 2010

Berlin, Germany

Program and invitation



Humboldt-Universität zu Berlin

Structural Change in Agriculture: Modeling Policy Impacts and Farm Strategies

114th Seminar of the EAAE

Local Organization Committee

Martin Odening (Chair)

Harald Grethe, University of Hohenheim

Silke Hüttel, Humboldt-University Berlin

International Program Committee

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Alan Matthews, Trinity College Dublin, Ireland

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Frank van Tongeren, Organisation for Economic Cooperation and Development (OECD), France

Patrick Westhoff, Food and Agricultural Policy Research Institute (FAPRI), USA

Funded by DFG - German Research Foundation (Deutsche Forschungsgemeinschaft)

Background and Theme

It is well known that agricultural sectors in developed countries undergo a far-reaching structural change which is driven by technological change, globalization, new societal demands, and a paradigm shift in agricultural policy. Though structural change is a traditional topic in agricultural economics and a vast literature already exists, it seems promising to reconsider this problem for several reasons. From a methodological viewpoint, many challenges remain. The lack of a comprehensive theory of structural change, a behavioral foundation of farmers' decision making, aggregation and endogeneity issues in farm and sector models, or the proper extraction of policy impacts in econometric analyses are only a few of the unsolved problems. However, the development of sophisticated tools for analyzing structural change is not an end in itself, but contributes to the discussion of current problems in agricultural economics. Among them are the conflicts between food and energy production, increasing price volatility on agricultural product and input markets, regional concentration of livestock production, and the unequal market power in value chains.

The seminar takes a fresh look at structural changes of agricultural sectors in developed economies. Structural change is understood in a broad sense. It goes far beyond the change of the number and size of farms and encompasses, for example, changes of production type and structures, technological and institutional changes as well as the dynamics of transactions within food chains with relevance for the structure of the farms. The objective of this seminar is to gain a deeper understanding of the adjustment processes that take place in agriculture. This requires an identification of causalities between exogenous factors, political intervention and farmers' decision making. Such knowledge is an essential precondition to predict and to govern structural change in terms of economic, environmental, and social objectives. The focus of the seminar is on theoretical models and quantitative methods supporting the analysis of structural change.

Objectives

The seminar intends to discuss and to analyze the state-of-the art in research methods for economic analysis of structural change in agriculture. It offers a platform to exchange ideas and to generate an integrated view of structural adjustments in agriculture. As current topics of agricultural policy shall be addressed, the seminar is not only relevant for a scientific community but also for decision makers in politics and administration.

Overview

Thursday, April 15	
from 8:00 Senatssaal	Registration
9:00 - 10:40 Senatssaal	Plenary Session I
10:40 - 11:10	Coffee Break
11:10 - 12:30 Senatssaal	Plenary Session II
12:30 - 14:00	Lunch
14:00 - 15:30 Senatssaal	
Room 2103	Parallel Sessions I
Lichthof	
15:30 - 16:00	Coffee Break
16:00 - 17:30 Senatssaal	
Room 2103	Parallel Sessions II
Lichthof	
from 19:00 Opernpalais	Conference Dinner
Friday, April 16	
8:30 - 10:00 Senatssaal	
Room 2103	Parallel Sessions III
Lichthof	
10:00 - 10:30	Coffee Break
10:30 - 12:00 Senatssaal	
Room 2103	Parallel Sessions IV
Lichthof	
12:00 - 13:00	Lunch
13:00 - 14:00	Poster Session
14:00 - 15:00 Senatssaal	
Room 2103	Parallel Sessions V
Lichthof	
15:00 - 15:30	Coffee Break
15:30 - 17:00 Senatssaal	Plenary Session III

Seminar program

Thursday, April 15

from 8:00	Registration	Conference Office
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9:00 - 10:40	Plenary Session I	Senatssaal Chair: Martin Odening
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Opening

Welcome address

Uwe Jens Nagel, Vice President Humboldt-Universität zu Berlin

Agricultural policy and structural change: A spatial approach

Christoph Weiss, Vienna University of Economics and Business

Farm efficiency and structural change

Antonio M. Álvarez, University of Oviedo

10:40 - 11:10	Coffee Break
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11:10 - 12:30	Plenary Session II	Senatssaal Chair: Harald Grethe
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Keynote Speakers

Modeling farm structural change for policy analysis

Thomas Heckeley, University of Bonn

Structural change in agricultural markets following the biofuels boom

Thomas Hertel, Purdue University

12:30 - 14:00	Lunch
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Thursday, April 15

14:00 - 15:30 Parallel Session I a

Senatssaal

Farm exits and factor mobility

Chair: Martin Petrick

Structural changes in U.S. agriculture: Financial performance of farms in transition

Ani L. Katchova

Determinants of farm exit: A comparison between Europe and United States

Ashok K. Mishra; Meri Raggi; Davide Viaggi

Sectoral mobility of production factors in agriculture and predictions for the future

Valerie Vandermeulen; Evy Mettepenningen; Mieke Calus

14:00 - 15:30 Parallel Session I b

Conference Room 2103

Decision making of farmers

Chair: Cornelis Gardebroek

Environmental and production cost impacts of no-till: Estimates from observed behaviour

Marita Laukkanen; Céline Nauges

Some like to join, others to deliver. An econometric analysis of farmers' relationships with agricultural co-operatives

Stefano Pascucci; Cornelis Gardebroek

Linking marketing choices with farming practices of grain producers: A farm level modeling approach applied to the South-western France

Aymeric Ricome; Charilaos Képhaliacos; Françoise Carpy-Goulard; Aude Ridier; Karim Chaïb

14:00 - 15:30 Parallel Session I c

Lichthof

Growth and investment

Chair: Karin Larsén

Farm growth in Hungary, Slovenia and France

Lajos Zoltán Bakucs; Štefan Bojnec; Imre Fertő; Laure Latruffe

Contracts, payment delays and firm growth: Evidence from Bulgarian agriculture

Johan F.M. Swinnen; Kristine Van Herck

Growth of German dairy farms under the EU milk quota

Gunnar Breustedt; Martin Mees

15:30 - 16:00

Coffee break

Thursday, April 15

16:00 – 17:30 Parallel Session II a

Senatssaal

Equilibrium modeling

Chair: Alan Matthews

Modelling the consequences of increasing bioenergy demand on land and feed use

Martin Banse; A. Tabeau; H. van Meijl; G. Woltjer

Farm level effects of EU policy liberalization: Simulations based on an EU-wide agricultural sector model and a supply model of the German agricultural sector

André Deppermann; Harald Grethe; Frank Offermann

Optimisation of policy interventions in environmental quota

Jeroen Buysse; Bart Van der Straeten; Stephan Nolte; Dakerlia Claeys; Ludwig Lauwers; Guido Van Huylenbroeck

16:00 – 17:30 Parallel Session II b

Conference Room 2103

Market dynamics and marketing strategies

Chair: Vanessa von Schlippenbach

Structural change in European calf markets: Policy decoupling and movement restrictions

Rico Ihle; Bernhard Brümmer; Stanley R. Thompson

The deterministic and speculative component of the terms of trade of primary commodities: An “Eclectic” Real Option value approach

Pasquale Lucio Scandizzo, Sara Savastano, Antonio Vezzani

Oligopoly and price transmission in Turkey’s fluid milk market

Hasan Tekgüç

Thursday, April 15

16:00 – 17:30 Parallel Session II c

Lichthof

Structural change in the dairy sector

Chair: Johannes Sauer

Structural change in the EU dairy sector

Jack Peerlings; Nico Polman; Noortje Krol

Structural change of European dairy farms – A cross-regional analysis

Andrea Zimmermann; Thomas Heckelei

An analysis of milk quota abolition impact on Scottish farmers' behaviour

Luiza Toma; Andrew Barnes; Alan Renwick

19:00 Conference Dinner

Opernpalais, Unter den Linden 5

Friday, April 16

8:30 - 10:00 Parallel Session III a **Senatssaal**

Agent-based modeling, real options and experiments

Chair: Martin Odening

Coordination and allocation on land markets under increasing scale economies and heterogeneous actors – An experimental study

Alfons Balmann; Konrad Kellermann; Karin Larsén, Serena Sandri, Christian Schade

Modelling structural change in the agricultural sector – An Agent-based approach using FADN data from individual farms

Anke Möhring; Albert Zimmermann; Gabriele Mack; Stefan Mann; Ali Ferjani; Maria-Pia Gennaio

Assessing agricultural policy incentives for Greek organic agriculture: A Real options approach

Irene Tzouramani; Alexandra Sintori; Aggelos Liontakis; George Alexopoulos

8:30 - 10:00 Parallel Session III b **Conference Room 2103**

Policy impacts I

Chair: Jeroen Buysse

An investigation into the impact of policy reform on the level of structural change in the agri-food sector of Ireland, Denmark and the Netherlands

Daragh Clancy; Andrius Kazukauskas; Carol Newman; Fiona Thorne

Promoting global agricultural growth and poverty reduction

Maros Ivanic; Will Martin

Distribution of beef cattle in Scotland: How important is agricultural policy?

Alan Renwick; Cesar Revoredo-Giha; Steven Thomson; Philip Leat; Sian Ringrose

8:30 - 10:00 Parallel Session III c **Lichthof**

Efficiency

Chair: Marita Laukkanen

CAP reform and its impact on structural change and productivity growth: A cross country analysis

Andrius Kazukauskas; Carol Newman

A structural change analysis of the cost efficiency of farms in Scotland 1989-2008

Cesar Revoredo-Giha; Philip Leat; Catherine Milne

Measurement of dynamic efficiency, a directional distance function parametric approach

Teresa Serra; Spiro Stefanou; Alfons Oude Lansink

10:00 - 10:30 **Coffee break**

Friday, April 16

10:30 - 12:00 Parallel Session IV a **Senatssaal**

Technical change and innovation

Chair: Stefan Mann

Subsidies, production structure and technical change – A cross-country comparison

Nigel Key; Laure Latruffe; Johannes Sauer

Technology diffusion, farm size structure and regional land competition in dynamic partial equilibrium

Heikki Lehtonen

Real option models for simulating digester system adoption on livestock farms in Emilia-Romagna

Fabio Bartolini; Vittorio Gallerani; Davide Viaggi

10:30 - 12:00 Parallel Session IV b **Conference Room 2103**

Policy impacts II

Chair: Dieter Kirschke

Rural development policies at regional level in the enlarged EU. The impact of farm structures

Elisa Montresor; Francesco Pecci; Nicola Pontarollo

Modelling the effects of an abolition of the EU sugar quota on internal prices, production and imports

Stephan Nolte; Jeroen Buysse; Bart Van der Straeten; Dakerlia Claeys; Ludwig Lauwers; Guido Van Huylenbroeck

Access to credit, factor allocation and farm productivity: Evidence from the CEE economies

Jan Falkowski; Pavel Ciaian; d'Artis Kancs

10:30 - 12:00 Parallel Session IV c **Lichthof**

Farm size and land concentration

Chair: Alfons Balmann

Regional asymmetries in farm size

Silke Hüttel; Anne Margarian; Vanessa von Schlippenbach

How do agricultural policies influence farmland concentration? The example of France

Laurent Piet; Yann Desjeux; Laure Latruffe; Chantal Le Mouel

Returns to scale and dynamics of multiple enterprises

Robert D. Weaver

12:00 - 13:00 **Lunch**

Friday, April 16

13:00 - 14:00 Poster Session	Lichthof
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14:00 - 15:00 Parallel Session V a	Senatssaal
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Labor allocation and livelihoods

Chair: Stephan Nolte

Job creation and job destruction in the EU agriculture

Pavel Ciaian; Liesbeth Dries; d'Artis Kancs

Trends in family labour, hired labour and contract work on French and Swiss crop farms: The role of agricultural policies

Pierre Dupraz; Laure Latruffe; Stefan Mann

14:00 - 15:00 Parallel Session V b	Conference Room 2103
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Policy design

Chair: Patrick Westhoff

Modelling the impact of EAFRD policies on rural development and structural change

Julia Schmid; Astrid Häger; Jurt Jechlitschka; Dieter Kirschke

Modelling economies of scale, energy use and farm size to reduce GHG: On contrasting “High-Tec”-agriculture with labour intensive farming

Ernst-August Nuppenau

Friday, April 16

14:00 - 15:00 Parallel Session V c

Lichthof

Risk and data

Chair: Heikki Lethonen

Recovery of incomplete agricultural land uses and livestock numbers by entropy

Maria Martins; Rui Fragoso; António Xavier

A dynamic dual model under state-contingent production uncertainty

Teresa Serra; Spiro Stefanou; Alfons Oude Lansink

15:00 - 15:30

Coffee break

15:30 - 17:00 Plenary Session III

Senatssaal

Chair: Silke Hüttel

Innovation behaviour at farm level – selection and identification

Johannes Sauer; David Zilberman

CAP effects on labour use in agriculture: Evidence from alternative dynamic panel data models

Martin Petrick; Patrick Zier

Making the market: How US policy influences near term agriculture and biofuel industry production and profitability under technology adoption

Seth Meyer; Julian Binfield; Patrick Westhoff

Closing

Poster Presentations (in alphabetical order)

Appel, F.; Sahrbacher, C.; Balmann, A., Ostermeyer, A.: Impact of fluctuating prices on farm income and structural change

Bakucs, Z.; Fertő, I.: Assessment of the impact of EU accession upon farms' technical efficiency in the New Member States with special emphasis on the farm type

Banse, M.; Grethe, H.; Henseler, M.: Import bans for feedstock containing GMO: The case of soy products in the EU

Bartolini, F.; Sardonini, L.; Viaggi, D.: Determinants of farm size expansion among EU farmers

Bartolini, F.; Viaggi, D.; Ronchi, D. Gomez y Paloma, S.; Sammeth, F.: The effects of future CAP reforms on farming sustainability and investment behaviour

Beckmann, V.; Consmüller, N.: Agricultural structures, public regulation and technology adoption: The case of GM crops in Europe

Begalli, D.; Codurri, S.; Gaeta, D.: Grapes for wine or grapes for bioenergy? A critical proposal for an Italian wine district

Bekchanov, M.; Müller, M.; Lamers, J.: Modeling river flow frequency impact on productivity of irrigated lands and general welfare in rural economies in Central Asia

Berlinschi, R.; Van Herck, K.: Impact of subsidies on agricultural employment

Bodini, A.: Farm size, economic performance and efficiency: A DEA application to Italian FADN-data

Boysen, O.; Schröder, C.: Structural change in the German dairy industry

Consmüller, N.; Beckmann, V.; Petrick, M.: The development of GMO-free zones in Germany: An econometric analysis

Delpeuch, C.; Vandeplas, A.; Swinnen, J.: Market structure and performance: An attempt at formalizing the West African "cotton problem"

Dos Santos, M.; Henriques, P.; Fragoso, R.; De Silva Carvalho, M.: The impacts of Health-Check' 2003 CAP reform and the water framework directive on farm's structural change in the new public irrigation project of Alqueva: A Portuguese case study

Ehlers, M.H.: The evolution of agricultural biogas entrepreneurship and relating farming structures in Germany

Fehér, A.; Czibalmos, R.; Kovács, G.; Szepesy, E.: Increasing farm concentration in Hungary driven by RDP payments and the motivation of farmers

Fellmann, T.; Möllers, J.: How can the CAP address small farms in order to promote structural change? A case study of Croatian family farms anticipating EU accession

Ferjani, A.; Zimmermann, A.; Reissig, L.; Mann, S.: Decreasing of organic farming in Switzerland: Opting out or structural change?

Fernández, Z.; Quiroga, S.: Analysing the structural implications of water policies on crop systems in the Mediterranean

Henke, R; Pierangeli, F.; Solazzo, R.; Vanni, F.: Agricultures in Europe: Changing roles and functions of the primary sector in the regional economic systems

Jan, P.: Productivity change of Swiss dairy farms located in the mountainous area

Manevska - Tasevska, G.; Hansson, H.: Influence of resource and financial perspective of farm size on the efficiency of grape-growing family farms: A case of a labour intensive agricultural production

Miller, A. C.: The impact of further CAP reform on Irish economic and farm structures

Möller, T.; Grethe, H.: Good prospects: Cereal and oilseed production in Germany under climate change

Morrison Paul, C. J.; Sauer, J.: Distinguishing different industry technologies and localized technical change

Murphy, G.; Hynes, S.; Murphy, E.; O'Donoghue, C.: The extent of active farmer participation behaviour in the Rural Environment Protection Scheme (REPS)

Mutuc, M.; Rejesus, R.: The impact of farmer field schools on knowledge, insecticide use and yields: A study of rice farmers in Vietnam

Nowicki, P.; Banse, M.; van Meijl, H.: Integrating decomposition analysis within the macro-economic modelling used for scenario studies

Pascucci, S.; Dries, L.: Changing farmer strategies in Italy

Prehn, S.: Payments decoupling and the Intra-European calf trade

Rösch, A.: Economic trends in agriculture in the Swiss mountain region

Sauer, J.: Deregulation and production systems - A Bayesian distance function approach

Scandizzo, P.L.; Savastano, S.; Paolantonio, A.: Adaptation to climate change and real options in small holder agriculture

Sintori, A.; Rozakis, S.; Tsiboukas, K.: A multi-criteria model to analyze decision making in different farm structures: The case of dairy sheep farming in Greece

Slaston, R.; Larsén, K.: Assessment of efficiency and impact of specific factors on wheat cultivation in Ukrainian agricultural enterprises

Terluin, I.J.; Godeschalk, F.E.; Verhoog, D.: Analysis of the development of agricultural structures in EU regions, 1980-2000

Tietje, C.; Gardebroek, C.: Do wheat prices follow oil prices? A bivariate time series approach

Toma, L.; Sutherland, L.; Barnes, A.; Renwick, A.; McCrum, G.; Blackstock, K.: Determinants of land use behaviour in Scotland: A structural equation modelling approach

Tongruksawattana, S. ; Völker, M.; Schmidt, E., Waibel, H.: Incorporating vulnerability to poverty in farm level models: Experiences from Thailand and Vietnam

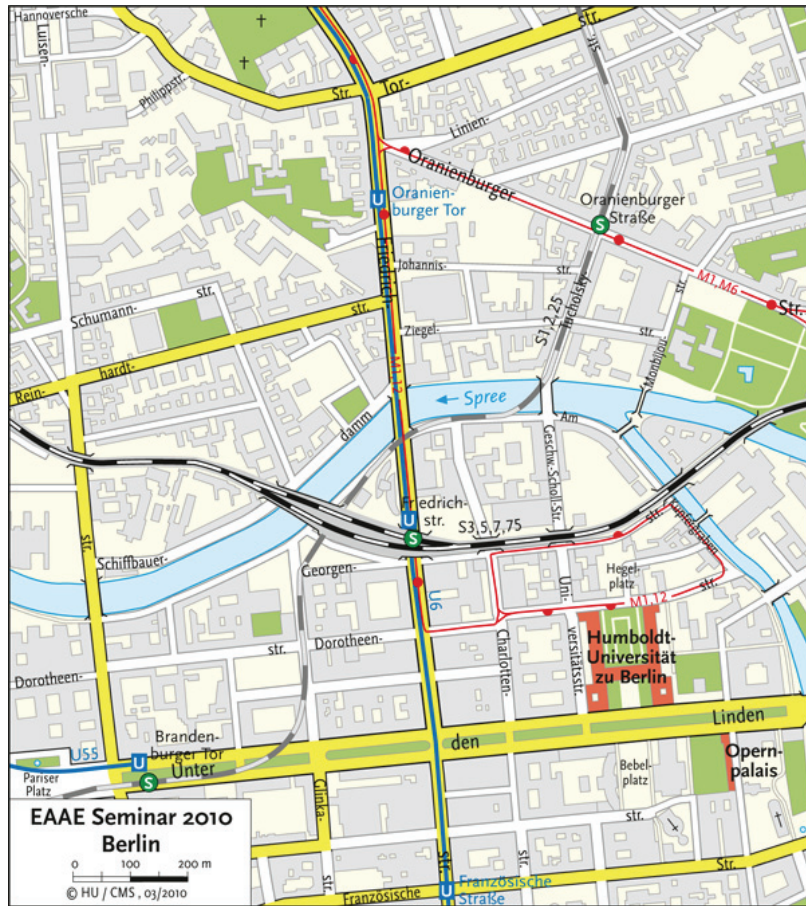
Van Herck, K.; Swinnen, J.F.M.: Where have all the farmers gone? EU accession and structural change in Bulgaria

Viaggi, D.; Raggi, M.; Sardonini, L.: Farm investment behaviour in the EU: An ex post analysis through panel data

Viaggi, D.; Raggi, M.; Sardonini, L.: Identifying and explaining farms typologies based on strategic reaction to policy

Yuan, M.: The impact of regional climate change policy on the land-use structure: A CGE approach

Conference Site



Conference Rooms – Overview

Humboldt-Universität zu Berlin, Unter den Linden 6, D-10099 Berlin

