



Aleksandro
Stulginskio
universitetas

RD 8th International Scientific Conference
RURAL DEVELOPMENT 2017
Bioeconomy challenges

23–24 November, 2017, Aleksandras Stulginskis University

The 8th International Scientific Conference

RURAL DEVELOPMENT 2017:

Bioeconomy Challenges

ABSTRACTS BOOK

23-24th November, 2017

Aleksandras Stulginskis University
Akademija, Kaunas district, Lithuania
<http://www.ruraldevelopment.lt>

Scientific committee

Chairperson – **prof. dr. Antanas Maziliauskas** – Rector of the Aleksandras Stulginskis University

Vice-chairperson – **dr. Romualdas Zemeckis** – Vice-rector for Research of the Aleksandras Stulginskis University

Vice-chairperson – **prof. dr. Asta Raupelienė** – Editor-in-Chief of the Proceedings of “Rural Development” International Conference

Members:

Prof. dr. David Richard Arney (Estonian Life Science University, Estonia)

Prof. dr. Vilma Atkočiūnienė (Aleksandras Stulginskis University, Lithuania)

Prof. dr. Algirdas Augustaitis (Aleksandras Stulginskis University, Lithuania)

Prof. dr. Gediminas Brazaitis (Aleksandras Stulginskis University, Lithuania)

Prof. dr. Natalija Burbulis (Aleksandras Stulginskis University, Lithuania)

Prof. dr. Sigitas Daukilas (Aleksandras Stulginskis University, Lithuania)

Prof. dr. Yoshiharu Fujii (Tokyo University of Agriculture and Technology, Japan)

Prof. dr. Boriss Gjunsburgs (Riga Technical University, Latvia)

Prof. dr. Inderjit Singh (University of Delhi, India)

Prof. dr. Eglė Jotautienė (Aleksandras Stulginskis University, Lithuania)

Prof. dr. Vigilijus Jukna (Aleksandras Stulginskis University, Lithuania)

Assoc. Prof. dr. Jiří Mašek (Czech University of Life Science in Prague, Czech Republic)

Prof. habil. dr. Irina Laiko (Institute of Bast Crops, Ukraine)

Prof. dr. Violeta Makarevičienė (Aleksandras Stulginskis University, Lithuania)

Prof. habil. dr. Renata Marks-Bielska (University of Warmia And Mazury in Olsztyn, Poland)

Prof. dr. Velta Parsova (Latvian University of Agriculture, Latvia)

Prof. dr. Arvydas Povilaitis (Aleksandras Stulginskis University, Lithuania)

Prof. dr. habil. Baiba Rivža (Latvian University of Agriculture, Latvia)

Prof. dr. Heinz Roehle (Technical University of Dresden, Germany)

Prof. habil. dr. Barbara Sawicka (University of Life Sciences in Lublin, Poland)

Dr. Sc. Velibor Spalevic (Institute of Forestry, Podgorica, Montenegro)

Prof. dr. Neringa Stončiuvienė (Aleksandras Stulginskis University, Lithuania)

Prof. dr. Jari Stenvall (University of Tampere, Finland)

Prof. dr. Vida Malienė (Liverpool John Moore's University, United Kingdom)

Prof. dr. Laima Kott (University of Guelph, Kanada)

Prof. dr. Kaspars Vartukapteinis (Latvian University of Agriculture, Latvia)

Prof. habil. dr. Rimantas Velička (Aleksandras Stulginskis University, Lithuania)

Prof. dr. Leslie A. Weston (Charles Sturt University, Australia)

Organizing committee

Chairperson of conference – prof. dr. Egidijus Šarauskis

Vice-Chairperson of conference – Assoc. prof. dr. Jolita Greblikaitė

Administrators of conference – dr. Judita Černiauskienė
Aurelija Merkelytė

Members:

Prof. dr. Aušra Blinstrubienė
Prof. dr. Algirdas Jasinskas
Prof. Dr. Astrida Miceikienė
Prof. dr. Kęstutis Romaneckas
Assoc. prof. dr. Jonas Čėsna
Assoc. prof. dr. Rūta Dromantienė
Assoc. prof. dr. Antanas Dumbrasuskas
Assoc. prof. dr. Jolanta Valčiukienė
Assoc. prof. Gintarė Vazonienė
Assoc. prof. dr. Remigijus Žalkauskas
Assoc. prof. Valdemaras Makutėnas
Assoc. prof. dr. Daiva Rimkuvienė
Assoc. prof. dr. Rytis Skominas
Lect. dr. Jolita Abraitienė
Lect. dr. Rita Čepulienė
Lect. dr. Jurgita Sasnauskienė
Lect. dr. Rasa Pakeltienė
Lect. dr. Rasa Pranskūnienė
Lect. dr. Gerda Šilingienė
Lect. dr. Jurgita Baranauskienė
Dr. Vaida Jonytienė
Dr. Zita Kriauciūnienė
Lect. PhD student Daiva Urmonienė
PhD student Dovilė Levickienė
PhD student Aistė Ragauskaitė
PhD student Linas Šilinis
Ingrida Augustaitienė
Ingrida Ignotaitė
Laura Žemaitienė



Dear scientists and experts, rural development policy makers and colleagues

*We are pleased to invite you to participate already in the 8th International Scientific Conference ‘**Rural Development 2017: Bioeconomy Challenges**’. It already became a biannual tradition to meet colleagues all over the world here. In addition, we are pleased that this event became a common area for international scientific interdisciplinary discussion on rural development and innovations.*

It is a pleasure for us to welcome you at Aleksandras Stulginskis University, which is developing due to the challenges of smart growth and bioeconomy. The University is becoming more and more advanced in science and more open to society for cooperation and sharing knowledge.

The Mission of University reveals our main aspiration: to develop and disseminate scientific knowledge and sincerely strive for safe and healthy food and full-fledged living environment for all citizens of Lithuania.

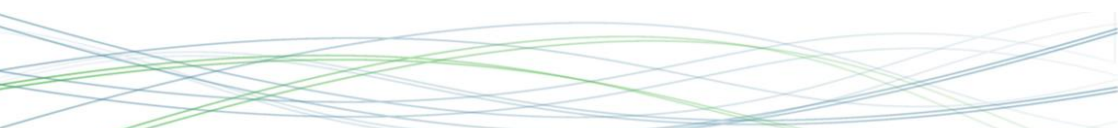
We are able to do more „step by step“ with global changes and innovations by sharing innovative ideas, experience and results of our researches.

The existing and rising challenges of bioeconomy will be discussed in different Conference sections:

- *Biosystems Engineering and Environment Integrity;*
- *Agro-innovations and Food Technologies;*
- *Multifunctional Approach for Sustainable Use of Natural Bio-Resources;*
- *Social Innovations for Rural Development.*

Together we can create synergy from broad participation from different sectors of the society, the scientists, practitioners, policy makers, private sector actors, NGOs, even young researchers and students. All the participants will be awarded the possibility to express their attitude towards the scientific issues related to rural development, especially in the focus of bioeconomy challenges.

*Prof. dr. Antanas Maziliauskas
Rector of Aleksandras Stulginskis University,
Chairperson of Scientific Committee*



the voivodship. The temporal range of the study included the years from 2007 to 2015.

Keywords: cultural assets, EU funding, Northern Poland, rural areas

Halina POWĘSKA, Department of European Policy and Marketing, Faculty of Economic Sciences, Warsaw University of Life Sciences – SGGW, Address: 02-787 Warsaw, Nowoursynowska 166, Poland; halina_poweska@sggw.pl; hpow@o2.pl

Payments for Public Goods Under the Common Agricultural Policy *Versus* Market Failures

Bazyli Czyżewski¹, Sebastian Stepień¹, Jan Polcyn²

¹Poznań University of Economics and Business, Poland

²Stanisław Staszic University of Applied Sciences in Piła, Poland

Abstract

In the reality of the market, a situation often arises where an economic surplus achieved by agricultural producers is partly taken over by related non-agricultural sectors. In this sense the category of economic rent embraces market failures related to such factors as price flexibility, and thus represents an effect of the misallocation of resources in the agricultural sector. The question therefore arises of whether there exists a developmental model of agriculture in which such market failures would be reduced. The article addresses the question of whether CAP payments for public goods are a desirable systemic solution serving to reduce market failures. It is hypothesised that the financing of activity relating to the supply of public goods lessens the negative impact of the “market treadmill”, since it reduces the unexpected outflows of economic surplus away from farms, caused by agricultural prices. To verify the hypothesis, a panel regression analysis was performed on three sets: the EU-15 countries, the EU-12 countries, and – within Poland – subsectors of farms from six standard output classes. The analysis covered the years 2004–2012. The results of the computations provided confirmation of the hypothesis. It may be stated that an increase in the level of payments for public goods, as a percentage of total subsidies to agriculture, leads on average to a reduction in the drainage of economic rents through prices. It was also

found that the financing of public goods under the CAP is more effective in reducing market failures in the EU-15 countries than in the EU-12.

Keywords: public goods, Common Agricultural Policy, market failure

Bazyli Czyżewski, Department of Macroeconomics and Agricultural Economics, Faculty of Economics, Poznań University of Economics and Business, Address: al. Niepodległości 10, 61-875 Poznań, Poland; b.czyzewski@ue.poznan.pl (*corresponding author*)

Sebastian Stepień, Department of Macroeconomics and Agricultural Economics, Faculty of Economics, Poznań University of Economics and Business, Address: al. Niepodległości 10, 61-875 Poznań, Poland; sebastian.stepien@ue.poznan.pl

Jan Polcyn, Department of Economics, Faculty of Applied Social Studies, Stanisław Staszic University of Applied Sciences in Piła, Address: al. Podchorążych 10, 64-920 Piła, Poland; b.czyzewski@ue.poznan.pl

Analysis of Factors of Implementation of Social Innovations: The Case of Lithuania

Jolita Vveinhardt, Jūratė Kuklytė
Vytautas Magnus University, Lithuania

Abstract

Government officials, policymakers and academicians express their concern about creating and developing social innovations according to the programme for Employment and Social Innovation (EaSI). According to European Commission, social innovation is used as social business model (SBM) Despite the increasing attention in global context to create SBM, the expansion of this complex phenomenon is minor. The main benefit of SBM is collaboration between non-profit, non-governmental organizations, consumer organizations and other social actors from rural or urban areas to maximize social value. The object – factors which have influence on development of SBM. The goal of research is to carry out orthogonal factor analysis using statistical package IBM SPSS version 20 and MS Excel 2012. The results are based on the data, which collected by conducting unique questionnaire survey in 2016. The study provides a comprehensive analysis of external, internal, social and governmental factors, hindering cooperation among institutions and affecting creation of SBM. The factor analysis and hypothesis-tested for the