



54ème colloque
ASRDLF

5-7 juillet 2017, Athènes, Grèce



15th conference
ERSA-GR



Les défis de développement pour les villes et les régions dans une Europe en mutation

Assessing Regional Efficiency: Estimates from Panel Data in Supply Chain Management

Mme Aikaterini KOKKINO

HELLENIC ARMY ACADEMY ASSOCIATE PROFESSOR
17 RIZOU NEROULOU 11141 ATHENS GREECE
AIKATERINIKOKKINO@GMAIL.COM

Mr Christos LADIAS

University of Social and Political Sciences University of Social and Political
Sciences
University of Social and Political Sciences 176 71 ATHENS GREECE
caldias@otenet.gr

Mr Stylianos ALEXIADES

Ministry of Reconstruction of Production, Environment & Energy Department of
Strategic Planning, Rural Development, Evaluation & Documentation
Room 519, 2 Acharnon St. 104 32 ATHENS GREECE
salexiadis7@aim.com

Référence à la session / reference to the session

Résumé / Summary

Explaining the course of regional efficiency, as well as determining factors which might affect it, continue to be one of the most important topics of regional economics literature. In response to this most important question, and with the increase in data availability, economic literature has shown a resurgence of interest in testing and quantifying approaches of growth and explaining regional efficiency differences. This paper aims at providing an assessment of efficiency in regional level and its sources, as well as an examination of the supply chain management structures towards regional efficiency. More specifically, this paper focuses on finding a conceptual framework more reliant upon efficiency, as an important policy objective, in regional level, in order to assess regional efficiency differences, using panel data, focusing on supply chain management determinants.

Keywords: Regional Efficiency, Regional Efficiency Differences, Supply Chain Management, Panel Data, Stochastic Frontier

Bibliographie / Bibliography

1. Alvarez A. (2007) Decomposing regional productivity growth using an aggregate production frontier. *Annals of Regional Science*, 41: 431–441.
2. Angeriz A., McCombie J., Roberts M. (2006) Productivity, efficiency and technological change in European Union regional manufacturing: a data envelopment analysis approach. *Manchester School*, 74: 500–525.
3. Antonelli, C. (2003) *The Economics of Innovation New Technologies and Structural Change*, London, Routledge.
4. Batoesse, G. E. and Coelli, T. J. (1995) A Model For Technical Inefficiency Effects In A Stochastic Frontier Production Function For Panel Data, *Empirical Economics*, 20:325-332.
5. Bhattacharjee A., de Castro E., Jensen-Butler C. (2009) Regional variation in productivity: a study of the Danish economy. *Journal of Productivity Analysis*, 31: 195–212.
6. Brenner, T., Cantner, U. and Holger, G. (2011) Innovation Networks: Measurement, Performance and Regional Dimensions, *Industry & Innovation*, 18: 1, 1 - 5.
7. Driffield N., Munday M. (2001) Foreign manufacturing, regional agglomeration and technical efficiency in UK industries: a stochastic production frontier approach. *Regional Studies*, 35: 391-399.
8. Wang, E. C. (2007) R&D efficiency and economic performance: A cross-country analysis using the stochastic frontier approach, *Journal of Policy Modeling*, Volume 29, Issue 2: 345-360.
9. Wennekers, S. and Thurik R. (1999) Linking entrepreneurship and economic growth, *Small Business Economics* 13: 27-55.
10. Yu, N.Y. (2008) A stochastic Frontier Approach to Measuring Regional Technical Efficiency in China, Munich Personal RePEc Archive (MPRA), Paper No. 18171.
11. van der Zee, R. and Brandes, F. (2007) *Manufacturing Futures For Europe – A Survey of The Literature*, The Framework Service Contract B2/ENTR/05/091 – FC, the Netherlands.