

## **COMPARATIVE ANALYSIS OF DEVELOPMENT TRAJECTORIES OF FOOD ECONOMIES IN EUROPE**

**ILDIKÓ OSZTERHUBERNÉ BARTUS**

Szent István University, Budapest, Hungary  
ibartus@gmail.com

During the last decades there have been deep-rooted structural changes in agriculture and food industry in Europe. The aim of article is to analyse these changes. Base of the analysis is the integrated statistical database of the Food and Agricultural Organisation of the United Nations. This integrated database offers a favourable possibility to compare the data on agricultural and food industrial developmental patterns of different states.

In framework of our investigations we have applied longitudinal as well as transversal methods of analysis, because both of these approaches have served the determination of changing of efficiency of European states as well as the relative position of these economic actors.

Based on time series of characteristic indicators, we have analysed the development process of post-transition states by different time-series analysis methods, with purpose of determination of structural brake points in yields of the most important arable land cultures as well as indicators of foreign trade. For this purpose we have applied the latest methods, which have been developed by Bai and Perron (2003) in which multiple structural breaks can be automatically detected from data. After the data screening we have chosen some characteristic features of agro-food development of countries investigated, and have carried out a multi-criterial comparative analysis based on transversal data. For this purpose we have applied the unsupervised learning methods. Our results highlight the increasing differences between European states.