Structural changes in the Polish economy in the perspective of extracting of shale gas

Topic: Structural change and dynamics III
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(i) There are some indications that the Polish unconventional gas resources may have significant importance for national and even European balance of energy. If these predictions were confirmed, unconventional gas would open up new opportunities and cause structural changes in the Polish economy. Main purpose of the paper is to present possible scenarios for Poland, regarding shale gas extraction, and results of analysis concerning structural changes resulting from these scenarios.

(ii) An econometric input-output modeling approach will be used to simulate the future of the Polish economy. The model will base on an input-output matrix extended by one row and column representing a new sector (shale gas extraction) and will encompass econometric equations reflecting, inter alia, changes in input-output coefficients.

(iii) Results of the simulations will be transformed and presented in a form of special graphs representing structural changes. The directions and strength of future structural changes will be analysed confronted with what is known form the past for the Polish economy.