

Stabilising Effects of Tax-Benefit Systems in the EU Counterfactual Simulations based on EUROMOD

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- Automatic Stabilisers and Economic Crisis: US vs. Europe (with C. Fuest and A. Peichl, Journal of Public Economics, 2012)
- Fiscal Union in Europe? Redistributive and Stabilising Effects of a European Tax-Benefit System and Fiscal Equalisation Mechanism

(with O. Bargain, C. Fuest, D. Neumann, A. Peichl, N. Pestel and S. Siegloch, IZA DP No. 6585, Presented at the 56th *Economic Policy* Panel)

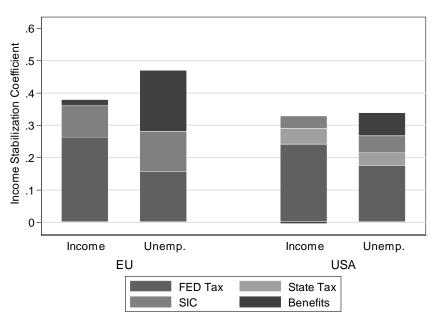


- Recent economic crisis has led to lower incomes and higher unemployment
- Tax benefit system shall provide (temporary) income insurance through build-in automatic stabilisers
- Automatic stabilisers mitigate output fluctuations without discretionary government action
 - progressive tax system
 - (unemployment) benefits
- However, "very little work has been done on automatic stabilisation [...] in the last 20 years" (Blanchard 2006)



- Simulation experiment: Calculate different shocks to gross income and analyze how these shocks translate into changes of disposable income
- Requires tax-benefit microsimulation models:
 - ► EUROMOD: 19 EU countries (EU-15 + Estonia, Hungary, Poland, Slovenia)
 - NBER's TAXSIM model: US
 - ▶ assume full benefit take-up, no tax evasion, no behavioral responses
- Micro vs. Macro approach: income stabilisation for population subgroups











- Amount of automatic stabilisation depends strongly on the type of macro shock
- Social transfers play a key role for stabilisation of disposable income (confirmed by the decomposition of stabilisation effects, as benefits absorb 19% of unemployment shock in EU-group vs. 7% in the US)
- Large heterogeneity within the EU
 - some Eastern and Southern European countries provide little income stabilisation for low-income groups
- Some evidence that countries with lower automatic stabilisers have engaged in more discretionary fiscal policy action



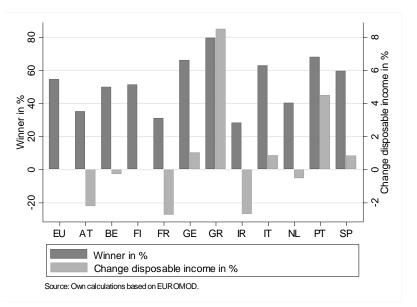
- Massive redistribution from high to low income countries/individuals
- Adverse effects on incentives to work in the poorer countries as people receive higher transfers
- Adverse incentives to work in the richer countries as people face higher tax burdens
- Many other concerns like e.g. unequal compliance with tax law or administrative issues (not analysed in this paper)



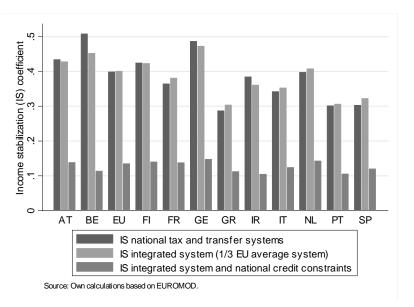
Quantitative analysis of two key elements of fiscal integration:

- **Simulation experiment 1:** Introduce an EU-wide integrated tax-transfer system
 - ▶ Estimate the average EU system
 - Analyse redistributive and welfare effects as well as impact on automatic stabilisers
 - Redistribution (of income) across households
- **Simulation experiment 2**: Introduce a system of fiscal equalisation based on taxing capacity of countries
 - Redistribution (of revenues) across countries
 - ▶ Impact on automatic stabilisation

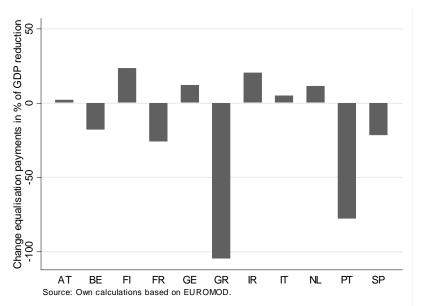














- Introduction of a common tax and transfer system would lead to significant effect on income redistribution and labour supply
- Common tax and transfer system would create automatic fiscal stabilisers in the union
- Replacing one third of the national tax and transfer systems would provide 'federal' automatic stabilisers of 10-15 per cent (USA: appr 25 per cent)
- Introduction of a fiscal equalisation scheme leads to large redistributive effects and has ambiguous implications for automatic fiscal stabilisers in the currency union; poor countries may be destabilised



Thank you for your attention!

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