



# The benefits of Schengen Area membership in the CEE countries. A synthetic approach Lovin et al. (2025)

Discussion by Tomas Slacik

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Sicherheit durch Stabilität





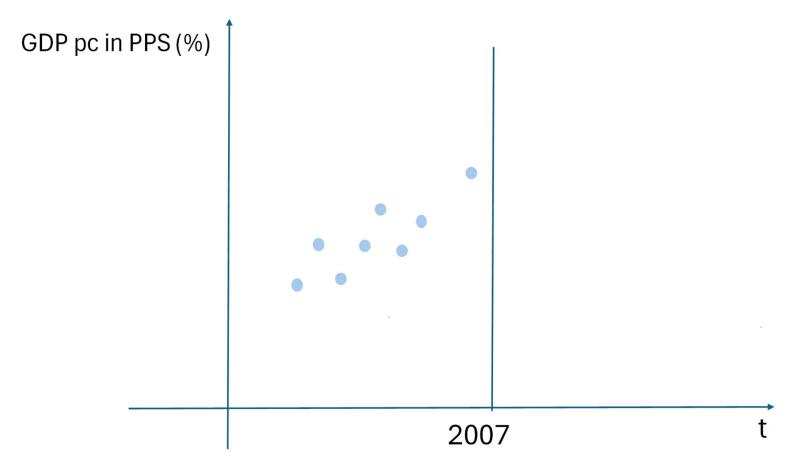
# Kraftfahrer in Not: Grenzkontrollen führen zu mehr als 40 Kilometer Stau auf A4



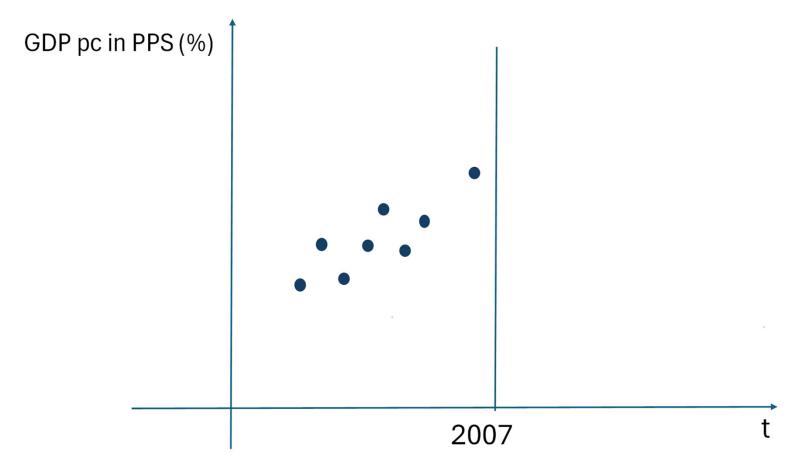
Auf der A4 im Osten Sachsen herrschen derzeit katastrophale Zustände: Der Verkehr staut sich wegen der Kontrollen an der polnischen Grenze auf mehr als 40 Kilometern. Kraftfahrer befinden sich teils mehr als zehn Stunden im Stau.

Source: Leipiziger Volkszeitung, 17.3.2020

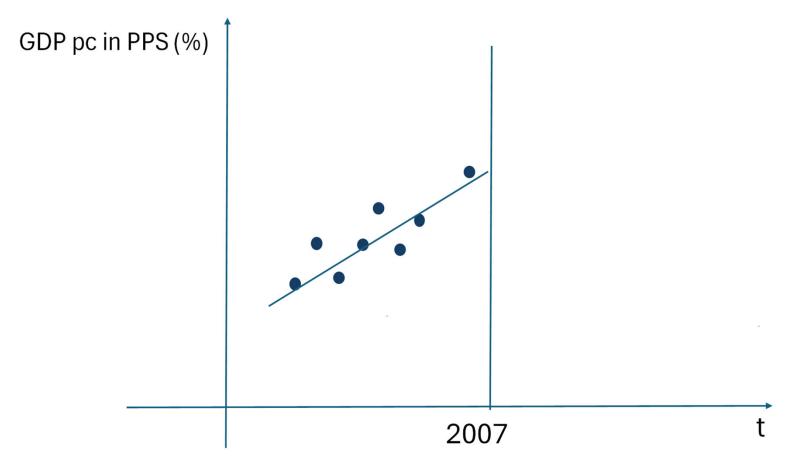




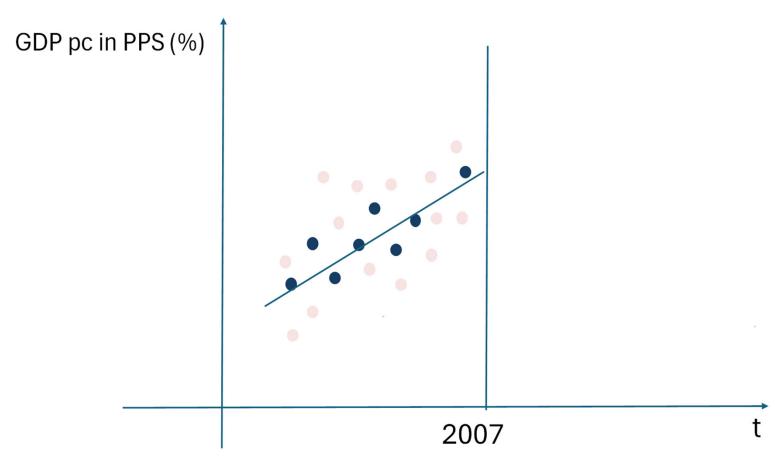




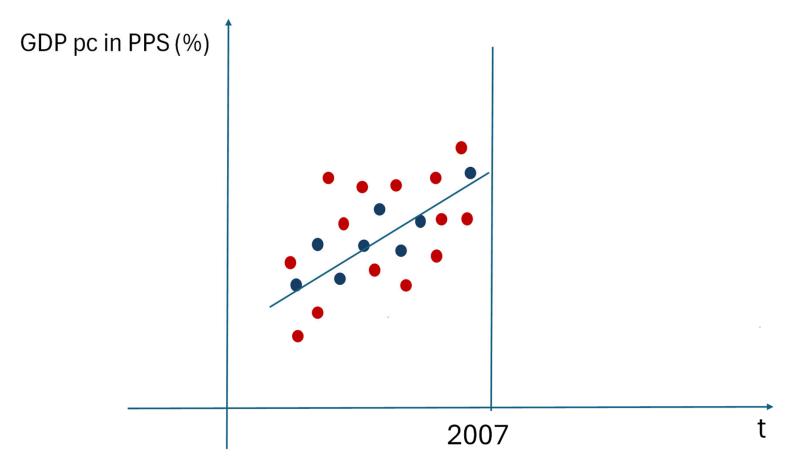
#### **●NB**



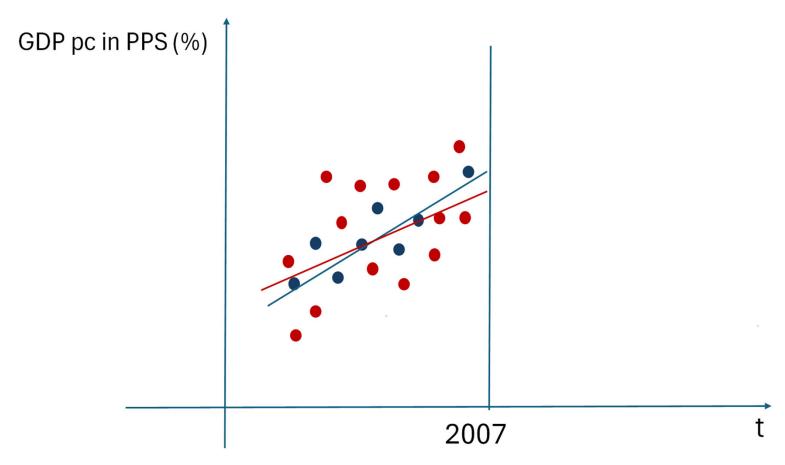
#### **ONB**



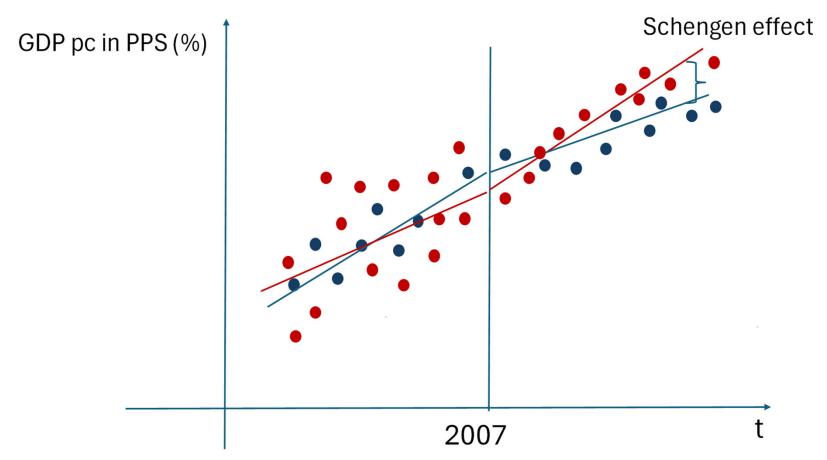
#### **●NB**



# **●NB**









#### ...now in a nutshell

Objective: GDP growth impact of Schengen membership for Romania & Bulgaria.

Compare: Treated (8 CEE countries that joined Schengen in 2007, no HR) vs Control (RO & BG)

Method: Synthetic Difference-in-Differences (SDID)

- "synthetic" control constructed before 2007 as a weighted average of the treated countries so that it matches the (unweighted) average growth trend in BG and RO as closely as possible
  - > For all combinations of 2-groups out of the 8 treated countries, then averaged
- After 2007: actual GDP growth in BG and RO compared to this synthetic (counterfactual) => difference interpreted as the Schengen effect

#### **Econometric toolkit** used in estimation:

- Two structural covariates: GDP per capita in PPS, population aging (exogenous to Schengen)
- Everything else captured by
  - <u>Fixed effects (country- and time-specific influences)</u>
  - GMM and instruments (budget balance, real interest rate) to handle endogeneity and heteroskedacticity
  - <u>Unobserved common factors</u> such as EU-wide shocks, regional dynamics, pandemic, UA-war detected via <u>PCA</u>

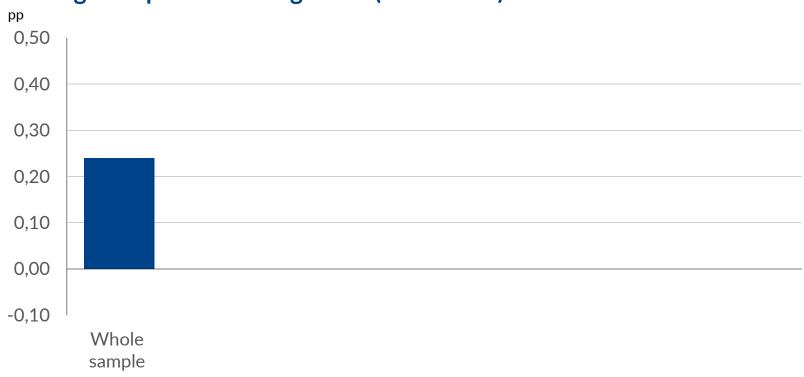
Data: (interpolated) quarterly data 2000 Q1 - 2024 Q1

- Pandemic and war in UA?: GDP growth data adjusted such that the variance matches the pre-pandemic variance.



#### **Results?**

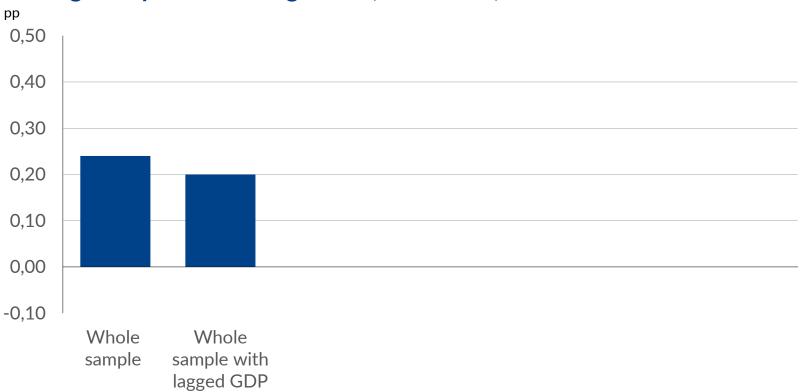
#### Schengen impact on GDP growth (annualized)



Source: own depiction based on Lovin et al. (2025)



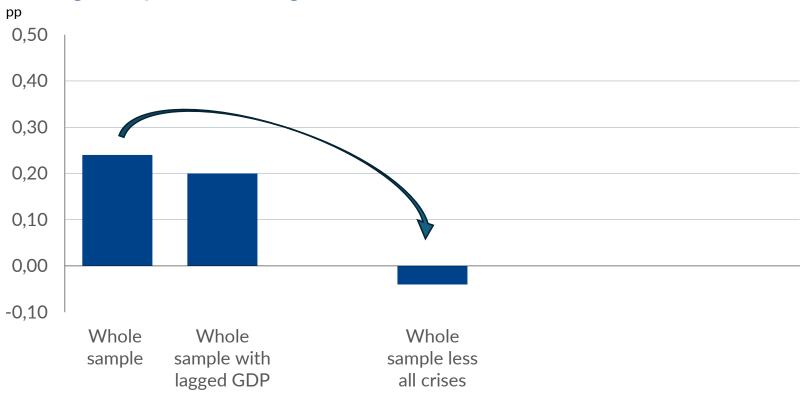
**Results?** 



Source: own depiction based on Lovin et al. (2025)



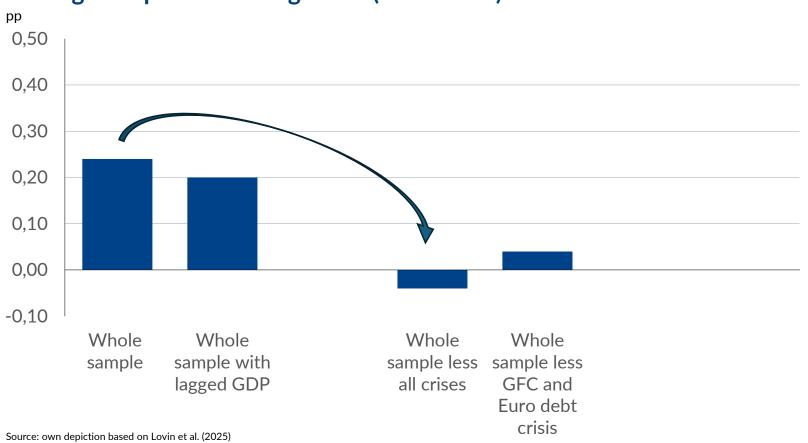
**Results?** 



Source: own depiction based on Lovin et al. (2025)

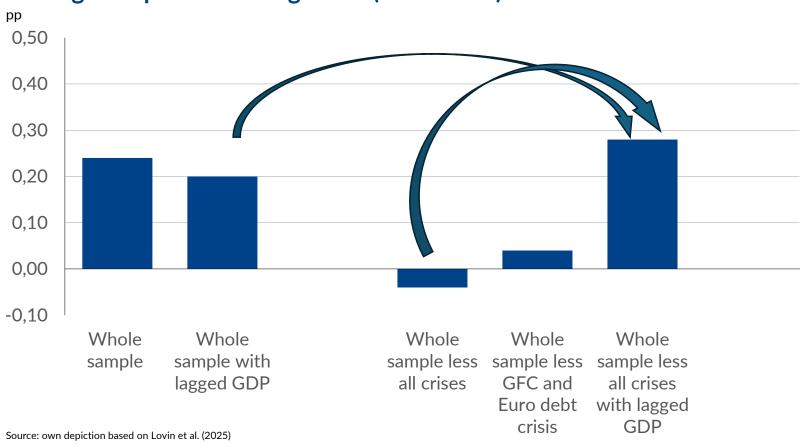


**Results?** 



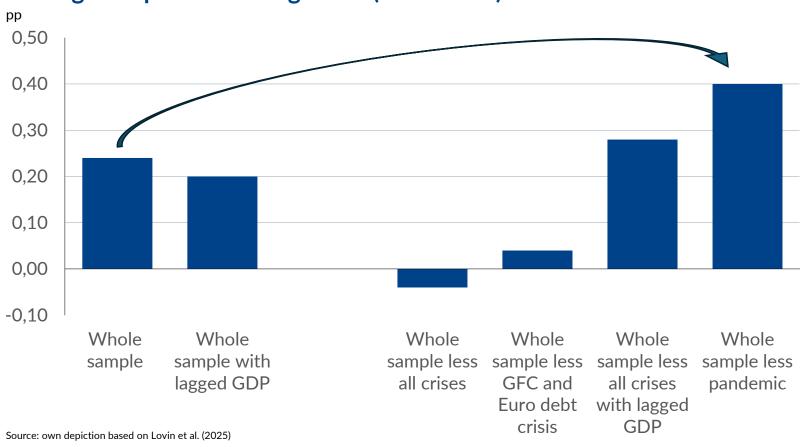


**Results?** 





**Results?** 





#### **Questions / suggestions: Method**

- Misspecification in eq. 5 and 12?:  $D_{EuroArea_{it}}$  or rather  $(1 D_{EuroArea_{it}})$ ? -> discrepancy with the text
- SDID relies on **parallel trends during pre-treatment:** visual and statistical check of the quality of the match as biases might remain if treated and control countries differ structurally (not captured by fixed affects)?
- Variance adjustment during shock periods: method and its implications not explained and discussed
  - > Re-scaling volatility does not remove structural distortions -> results sensitive to in-/exclusion of crises
- Lags of covariates considered?
- Confidence intervals and/or significance not clearly reported/discussed.
- Comparison of GDP in PPS across countries and time is problematic (see Oblath (2023))



#### **Questions / suggestions: Results**

- Wide range of estimates (0 to 0.4% annually) depending on the specification and sample: Is this robust? ...maybe broadly consistent but sensitive to sample choice and crisis episodes.
- Some **contradictory results** need more attention/explanation: if all crisis episodes removed the effect almost disappears. When only the pandemic is removed, the effect increases to a maximum.
  - > Schengen providing only a **negligible contribution to growth in normal times**? It **may boost resilience during some crises, but the pandemic was different** and suppressed the benefits.
- Schengen? What Schengen?

#### **€NB**

#### **Steady reintroduction of border controls since 2015**

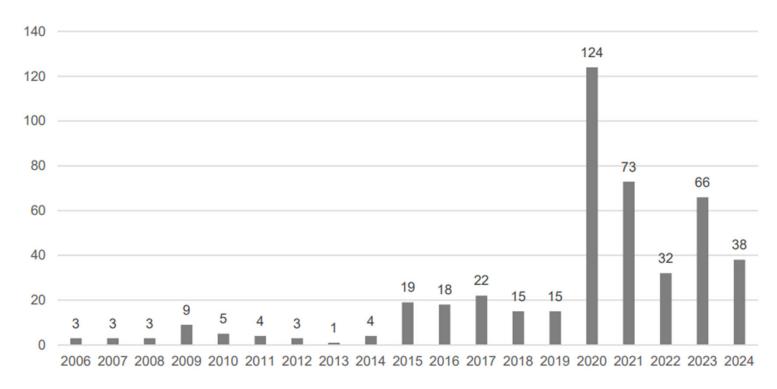
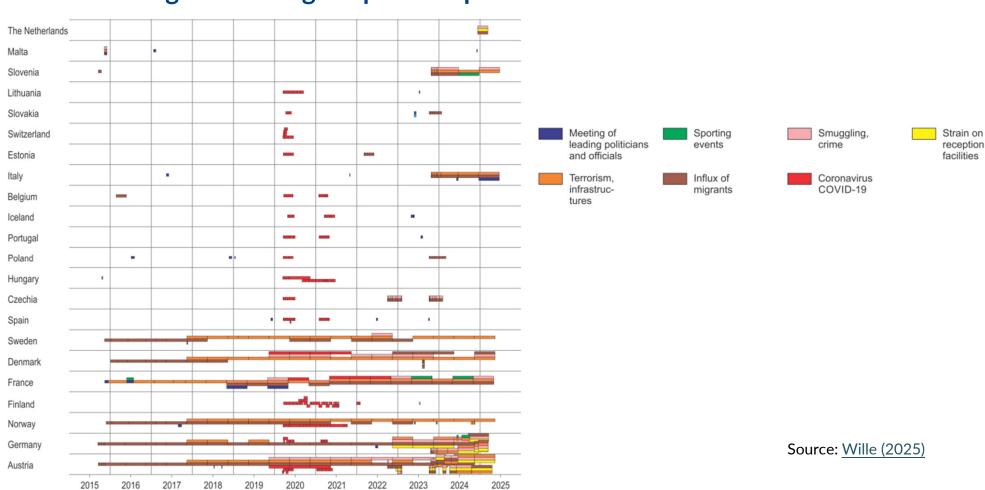


Figure 1: Registered notifications between 2006 and 2024 concerning the reintroduction of temporary controls at EU internal borders, by year – Source: EC, 2025a (as of January 14, 2025), my analysis.

Source: Wille (2025)



#### ...dismantling the Schengen spirit of open borders





#### **Overall assessment**

#### **Econometrically:**

reasonable, comprehensive and modern approach but transparency and robustness could/should be improved.

#### **Economically:**

➤ effect plausible and broadly in line with theory and literature, but magnitude and interpretation should be treated cautiously and/or better discussed, especially in light of the vanishing Schengen spirit.





# Thank you for your attention!

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