





Pandemic Babies in Czechia, Austria and Spain -

First evidence on monthly birth trends by age of mother, birth order and selected socio-economic characteristics

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Introduction and Motivation

Pandemic ■ Baby-boom or baby-bust? ☐ First data (Human Fertility Database / Short-term Fertility Fluctuations) signal sudden decline followed by steady recovery, but only in some regions (esp. Southern Europe) ☐ Motivation: we need better understanding of the mechanisms by analysing more detailed data by further demographic and socio-economic characteristics ☐ Hypothesis: women with lower socio-economic status (low education, young age, non-married, migrants) will react more instantly to the pandemic ☐ Birth order: Likely declines in first births (childless women) and BO3+

Available data

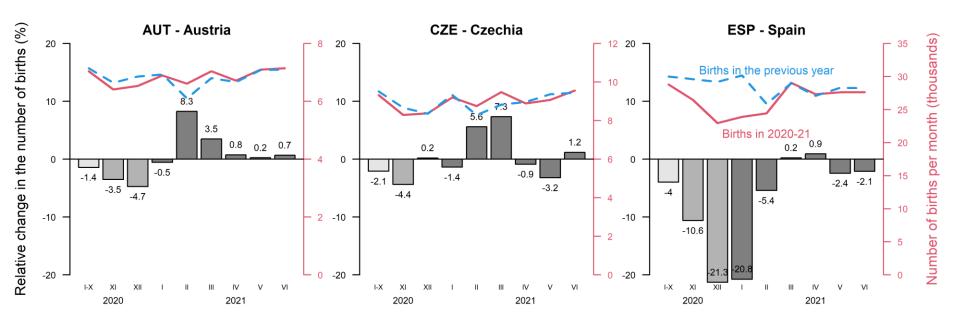
☐ Background data from HFD / STFF □ Detailed individual data for Spain, 2020 {thanks to INE} ☐ Detailed individual data for Austria, 2020 {Geburtenbarometer data, thanks to Statistik Austria} ☐ Detailed tabulations for Czechia, January to September 2021 {thanks to Czech Statistical Office} In this presentation we present and analyse data by: ☐ Birth order (1 / 2 / 3+) ☐ Age of mother (10y groups) Origin (migration background / nationality) Education Marital status

Methods

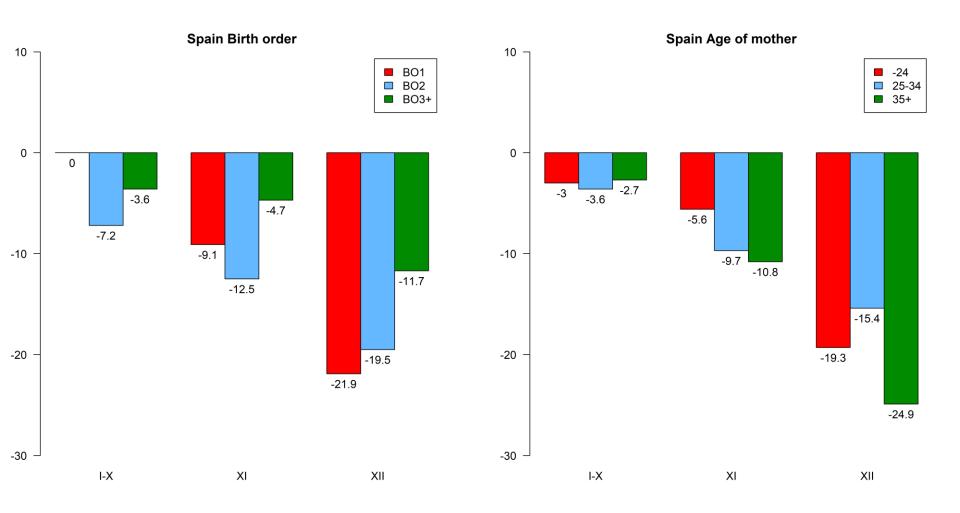
- Monthly totals of live births by given characteristics
- ☐ Comparison to same period/month of previous year
- ☐ Pre-pandemic period: Jan-Oct 2000 / Jan-Oct 1999
- ☐ Pandemic period: Nov 2000 / Nov 1999 and so on...

$$RATE_{m,t}^{c} = \left(\frac{N_{m,t}^{c}}{N_{m,t-1}^{c}} - 1\right) * 100\%$$

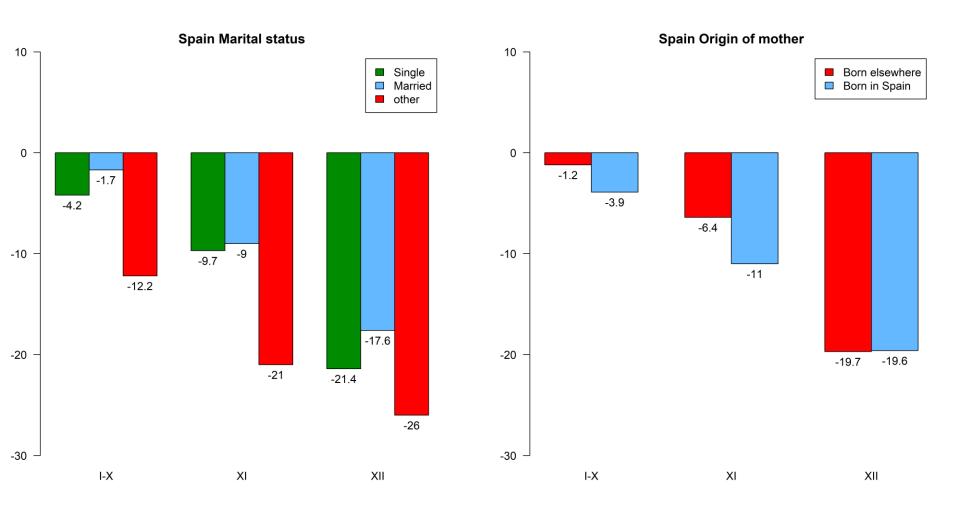
Context



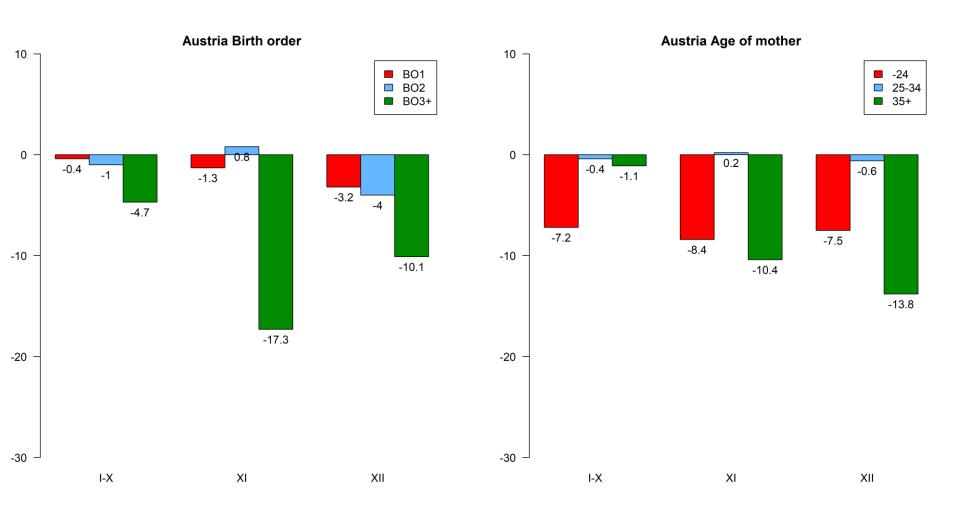
Detailed data – Spain 1



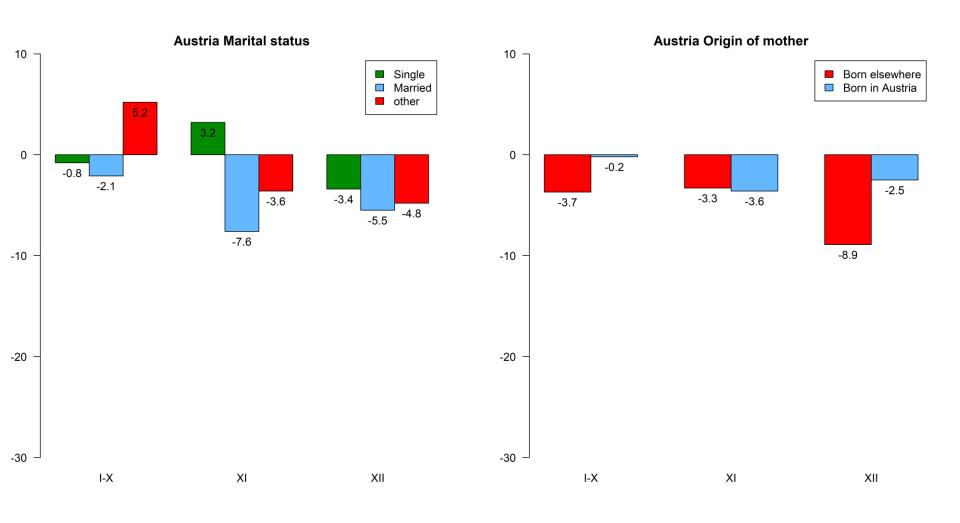
Detailed data – Spain 2



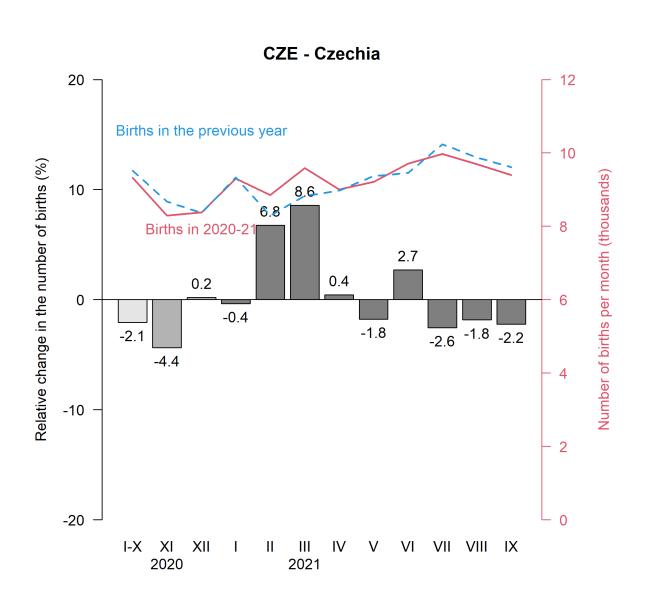
Detailed data - Austria 1



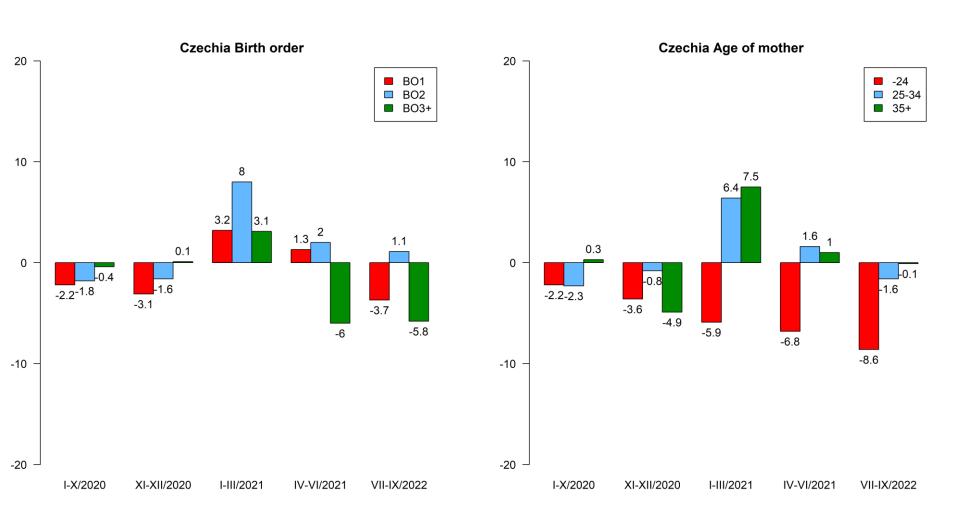
Detailed data – Austria 2



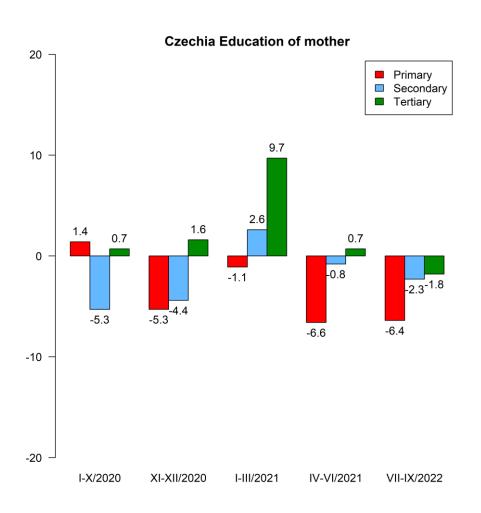
Czechia – more recent data



Detailed data - Czechia 1



Detailed data – Czechia 2



Conclusions

☐ Groups with more distinct declines in number of births:

	Spain	Austria	Czechia
Birth order	1 & 2	3+	3+
Age	<25 & 35+	<25 & 35+	<25
Marital status	Non-married	no diff.	
Origin	no diff.	Migrants	
Education			Primary

- ☐ Younger and older age groups react more instantly
- ☐ Birth order: different mechanisms?
- ☐ Lower SES faster decline, but not always
- ☐ OVERALL: MIXED RESULTS, NO DEFINITE CONCLUSIONS
- NEED MORE DATA