Simulating Aggregate and Distributional Effects of Minimum Wage Increases in Romania: Evidence from Survey and Administrative Tax Data

Monica Robayo-Abril

Madalina Zamfir

Marcin Wroński

### REPRODUCIBILITY PACKAGE README

This reproducibility package replicates estimates the results reported in the paper.

# Data availability statement

- Tax administrative data is strictly confidential and provided by the Romanian Ministry of Finance, as a result of a strong collaboration. There is no standard procedure to request the data, as the data is not made publicly available.
- Romanian EU-SILC data was accessed using normal procedures. For more information, go to: <a href="https://ec.europa.eu/eurostat/web/microdata/european-union-statistics-on-income-and-living-conditions">https://ec.europa.eu/eurostat/web/microdata/european-union-statistics-on-income-and-living-conditions</a>

## The package is organized as follows:

### 1. **Data**:

Monthly tax data to produce descriptive statistics, and run the simulation. Two monthly data files were exlucted due to the quality issuses.

This folder is not shared in the reproducibility package due to the legal constraints on the data sharing.

# 2. Data\_ready

This folder includes:

- Tax files with the simulation outcomes (two scenarios). There are not shared in the reproducibility package due to the legal constraints on the data sharing.
- EU-SILC data
- This folder includes also the outcomes of recalculation saved in dta files.

### 3. **Code**:

- a) 0. EU\_SILC\_poverty file producing few statistics needed to estimate living wage
- b) 1. Descriptive statistics calculates descriptive statistics presented in the first tables and figures
- c) 2. Simulation Scenario One runs the first simulation scenario
- d) 3. Simulation Scenario Two runs the second simulation scenario
- e) 4. Recalculation only employed recalculate results for the sample of those who keep their employment and saves mean income across age groups in postfiles.
- f) 5. Simulation Tables and Figures runs the calculation for Tables and Figures, which are not based on the simulation Excels
- g) 6. Confirmation of automatically expored results confirms the results stored in Excel
- 4. **Outputs and logs:** Excel files with outputs for tables 5 and 7 and with code logs.

## Calculations in Excel and code results

Exhibits were generated in the file "Master Excel 03252024.xlsx" from code results or other sources.

Exhibit	Generation in	Results in code or other sources
	Master Excel	
Figure 1	Fig 1 Evolution of	Not produced by code. Sources: Romanian Ministry of
	MW	Public Finance and Eurostat.
Figure 2a	Fig 2a Minimum-	Not produced by code. Sources: Romanian Ministry of
	to-median ratio	Public Finance, OECD, and Eurostat.
Figure 2b	Fig 2b Ratio MW	Not produced by code. Sources: Romanian Ministry of
	to mean media	Public Finance, OECD, and Eurostat.
Table 1 –	Table 1. DG Food	Not produced by code. Own estimates based on Romanian
Panel a	Basket	Food Basket; https://op.europa.eu/en/publication-detail/-
		/publication/7cd42604-b82f-11e5-8d3c-
		01aa75ed71a1/language-en
Table 1 –	Table 1. DG Food	Not produced by code. Sources are Romanian Food basket
Panel b	Basket	from Panel a and Food Inflation from Eurostat

		(https://ec.europa.eu/eurostat/databrowser/view/
		prc_hicp_midxcustom_10770183/default/table?lang=en)
Table 1 –	Table 1. DG Food	Same as Table 1 – Panel b
Panel c	Basket	
Table 2	Table 2. Estimate	Same sources as Table 1 and results on pages 1-2 of log
	of Living wag	"0.EU_SILC_poverty.pdf"
Table 3	Table	Page 1 of log "Descriptives.pdf"
	3.Distribution	
	Gross Wag	
Figure 3	Figure 3.	Page 1 of log "Descriptives.pdf" (image was copied to the
	Histogram	Excel sheet)
Figure 4	Figure 4 share	Pages 1-10 of log "Descriptives.pdf"
	MW time	
Figure 5	Figure 5 share	Pages 10-11 of log "Descriptives.pdf"
	MW secto	
Figure 6	Fig 6. share MW	Pages 11-12 of log "Descriptives.pdf"
	firm size	
Figure 7	Fit 7. Share MW	Pages 12-16 of log "Descriptives.pdf"
	cohort	
Figure 8	Fig 8. Share MW	Pages 16-18 of log "Descriptives.pdf"
	Nuts 3	
Table 4	Table 4. Wage	Not produced by code. Source: Lichter, A., Peichl, A., &
	elasticities	Siegloch, S. (2015). The own-wage elasticity of labor
		demand: A meta-regression analysis. European Economic
		Review, 80, 94-119.
Table 5	Table 5. Scena 1	Pages 1-8 of log "6.Confirmation_exported_results.pdf"
	LM Outcomes	and pages 320-324 of log
		"4.Recalculation_only_employed".
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		These results were first copied to
		"Romania_MW_sim_tax_1_third_run.xlsx" for further
		calculations and from there to "Master Excel
		03252024.xlsx"
Table 6	Table 6 Scena	Pages 1-2 of log "5.Simulation_Tables_Figures.pdf"
	1Distributional	
Table 7	Table 7. Scena 2	Pages 8-15 of log "6.Confirmation_exported_results.pdf"
	LM Outcome	and pages 324-329 of log
		"4.Recalculation_only_employed.pdf"
		These results were first copied to
		"Romania_MW_sim_tax_2_third_run.xlsx" for further
		calculations and from there to "Master Excel
		03252024.xlsx"
Table 8	Table 8 Scena 2	Pages 3-6 of log "5.Simulation_Tables_Figures.pdf"
	Distribution	
Table 9	Table 9. Who is	Pages 6-7 of log "5.Simulation_Tables_Figures.pdf"
	affected	
Figure 9	Figure 9. Scena 1	Pages 7-10 of log "5.Simulation_Tables_Figures.pdf"
	LR Imp sector	
Figure 10	FIG 10 MW	Pages 10-15 of log "5.Simulation_Tables_Figures.pdf"
	NUTS3	