

ΚΥΠΡΙΑΚΗ



ΔΗΜΟΚΡΑΤΙΑ

Use of quantitative empirical analyses in policy design of a national minimum wage in Cyprus



Costas Stavrakis

Ministry of Labour, Welfare and Social Insurance

Peer Review on “Minimum wages – extending coverage in an effective manner”

Limassol, Cyprus, 19-20 September 2019

Background and motivation

- Government's intention to introduce a national minimum wage (NMW) in Cyprus as soon as full-employment conditions are reinstated (unemployment rate falling at or below 5%)
 - ◆ Unemployment rate in 2019 is expected at 7%, compared to 16.1% in 2014
- The introduction of a NMW aims to:
 - ◆ Increase the coverage of protected workers
 - ◆ Enhance protection against unduly low pay
- MLWSI was asked to undertake qualitative and quantitative empirical studies
 - ◆ Backing-up consultation process with social partners
- In close technical collaboration with the ILO
 - ◆ Qualitative validation of the results of quantitative analyses by the ILO

Presentation outline

- Quantitative empirical analyses
 - ◆ Aims and policy questions addressed
- #1- Current state analysis of labour market, focusing on earnings
 - ◆ Progress to-date
- #2 - Impact assessment using microsimulations
 - ◆ Work in progress
- #3 - Measuring work incentives for social protection beneficiaries
 - ◆ Work in progress
- Concluding remarks

Quantitative empirical analyses

- **#1 - Current state analysis of labour market, focusing on earnings**
 - ◆ *Aim:* analyse the earnings profile of wage employee population in terms of earnings distribution, earnings inequality, gender earnings gap and who the low paid are
 - ◆ *Policy question addressed:* should there be different rates of minimum wage for different groups, sectors and occupations?

- **#2 - Impact assessment using microsimulations**
 - ◆ *Aim:* measure the social impact in terms of individual earnings and household income and the economic impact in terms of labour cost and employment
 - ◆ *Policy question addressed:* how to fix the minimum wage at the right level from a social and economic perspective?

- **#3 - Measuring work incentives for social protection beneficiaries**
 - ◆ *Aim:* analyse the profile and behaviours of GMI beneficiaries and assess the level of incentives to return to work
 - ◆ *Policy question addressed:* is the interaction between minimum wage and GMI effective?

#1 - Current state analysis of labour market, focusing on earnings

- Data sources and methods
- Earnings distribution
- Earnings inequality
- Gender earnings gap
- Who are the low paid?

Data sources and methods

■ Main data source used

- ◆ Dataset: EU SILC 2017
- ◆ Income reference year: 2016
- ◆ Covering all private households living in the government-controlled area of the Republic of Cyprus
- ◆ Focusing on assessing the impact on individual and HH income

■ Reference population

- ◆ Wage employees (FT or PT) at working age (between 16 and 65 years)
- ◆ Special groups/occupations are excluded: military personnel and foreign domestic servants

Data sources and methods

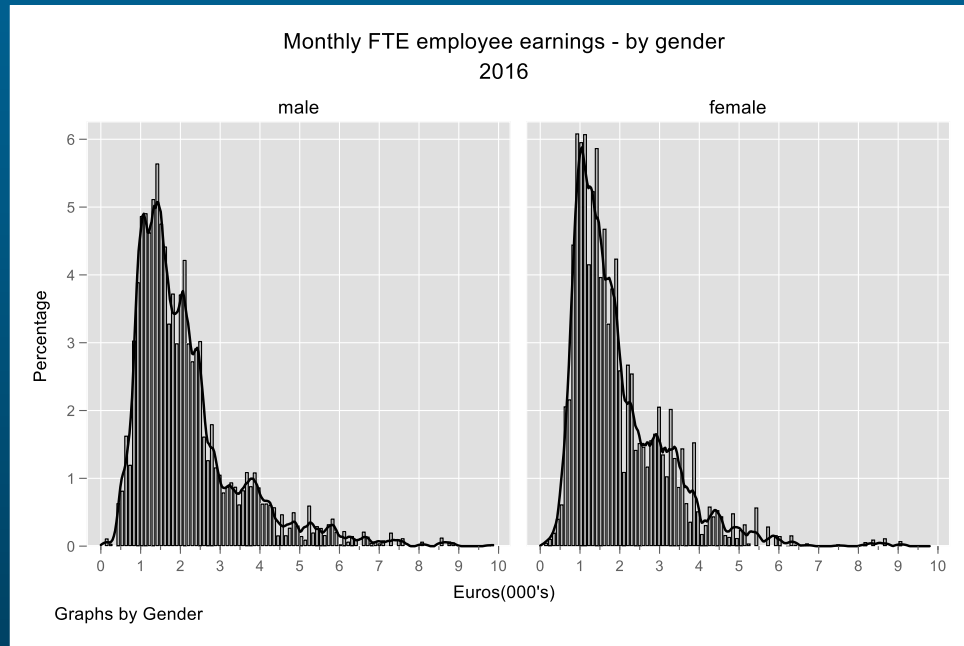
■ Dataset adjustments

- ◆ Grossing-up to total population: frequency weighted dataset
- ◆ Use of FTE monthly earnings (Atkinson's approach) to account for the inclusion of PT workers
- ◆ Imputing in-kind income for wage earners in agriculture: equal to 30% of their reported cash earnings

■ Macro-validation exercises: currently under progress

- ◆ How close survey sample estimates are to reality
- ◆ Comparison between EU-SILC data, and information derived from administrative data

Earnings distribution of wage employees

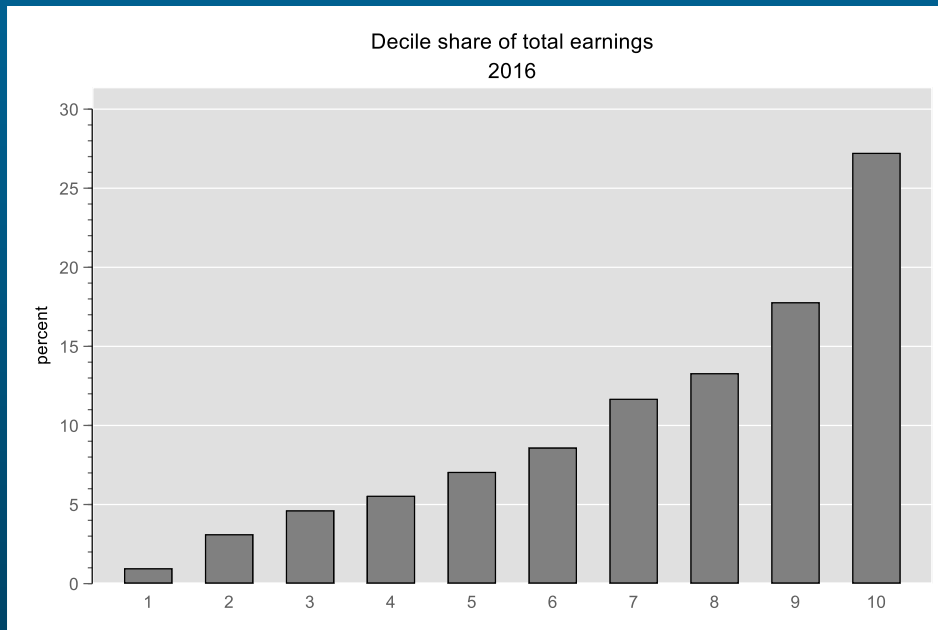


Monthly earnings in Euros (000's) - 2016

	MALE	FEMALE	ALL
Mean	2.4	2.2	2.3
1 st Quartile	1.3	1.2	1.2
Median	1.9	1.7	1.8
3 rd Quartile	2.8	2.8	2.8

- ◆ Average earnings of men higher than of women by approx. 10%
- ◆ There appears to be more lower paid women than men

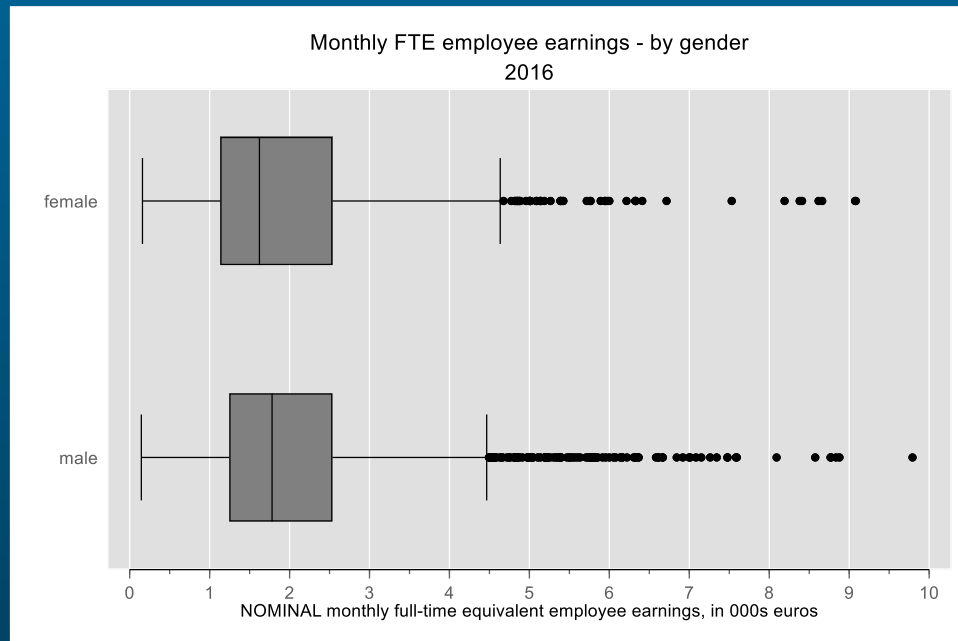
Earnings Inequality



High degree of inequality:

- ◆ 2nd decile earns 3% of total earnings
- ◆ 9th decile earns 18% of total earnings
- ◆ Percentile ratios:
 - ✓ 90th highest $\approx 4.2 \times$ 10th highest
 - ✓ 50th highest $\approx 1.9 \times$ 10th highest

The Gender Earnings Gap



- ◆ Difference in average earnings between men and women rather small
- ◆ Higher dispersion of earnings for men
- ◆ (Unadjusted) Gender Earnings Gap equal to **12.4%**

Who are the low paid?

- “Low paid” defined as those with FTE monthly earnings below 60% of the corresponding median earnings
- Approx. equal to 20% of working-age wage earners
- Which subgroup has the highest number of “low paid” as % of working-age wage earners (*absolute terms*)?
 - ◆ *Gender*: Women (10.3%)
 - ◆ *Age group*: 26-35 (7.7%)
 - ◆ *Occupational group*: Service & Sales workers (6.8%)
 - ◆ *Economic sector*: Trade (6.9%)

Who are the low paid?

- Which subgroups have the highest incidence of “low paid” as % of their size (*relative terms*)?
 - ◆ *Gender*: Women (22.7%)
 - ◆ *Age group*: 16-25 (65.1%)
 - ◆ *Occupational group*: Elementary Occupations (45.7%) and Service & Sales workers (40.3%)
 - ◆ *Economic sector*: Agriculture (63.0%), Arts, Entertainment, Other Private and Household activities (47.5%), Hospitality Industry (44.3%) and Trade (34.6%)

#2 - Impact assessment using microsimulations

- **Scope of exercise**

- ◆ Assessing both social and economic impact
- ◆ Data sources and methods

- **Choice of NMW scenarios**

- ◆ Range of different scenarios between min. and max.

Scope of exercise

Simulate monthly earnings at different NMW levels and then assess, for each level:

1. Impact on **individual earnings**:

- Who is affected, by how much, impact on earnings inequality and gender earnings gap
- *Data sources*: EU SILC, administrative data

2. Impact on **household income**:

- Which HH are affected, by how much and impact on income inequality
- *Data sources*: EU SILC

Scope of exercise

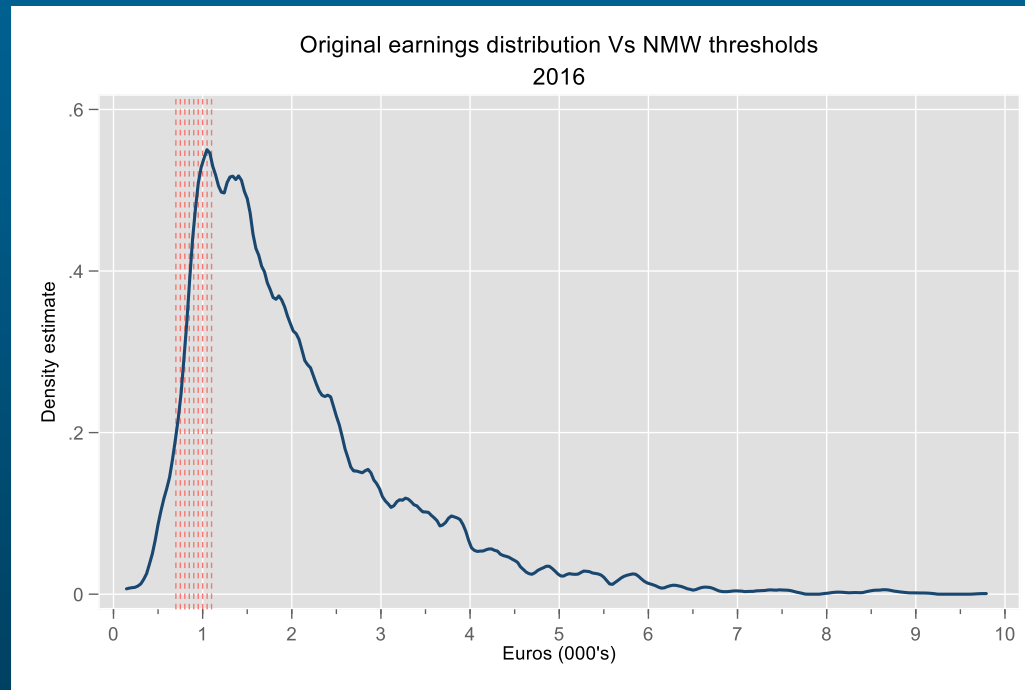
3. Impact on labour cost

- The Total Earnings Bill and Labour Shares, overall and by subgroup (sector, size of firm)
- *Data sources:* EU SILC, Survey of Enterprises

4. Impact on employment

- Utilise information on (changes in) employment in occupations covered by NMW since 2012 to assess potential impact of a NMW on employment
- *Data sources:* administrative data from Social Security records which includes high frequency (monthly) earnings data
- *Methodology:* difference-in-difference estimation

Choice of NMW scenarios



- ◆ *Min. scenario of NMW:*
40% × median FTE monthly earnings
- ◆ *Max. scenario of NMW:*
60% × median FTE monthly earnings
(EU commonly used approach)
- ◆ Allow for a ripple effect affecting earnings up to 5% or 10% above the given level of NMW

3# - Measuring work incentives for GMI beneficiaries

■ Scope

- ◆ Analyse the profile of GMI beneficiaries, long-term unemployed and working poor, by HH type, gender, age group, economic sector and occupation
- ◆ Assess the impact of different levels of NMW on the work incentives for typical profile of GMI beneficiaries
- ◆ Data sources
 - ◆ Administrative data
- ◆ Also, useful to modify certain design parameters of GMI scheme

Concluding remarks

- Quantitative empirical analyses are very useful in policy design of a NMW system
 - ◆ Particularly, impact assessments using microsimulations
 - ◆ Provide for evidence-based social dialogue
 - ◆ Form the basis for on-going monitoring the effectiveness of NMW system
- Some evidence to suggest differentiation in the rate of NMW
 - ◆ Younger age groups (16-35)
 - ◆ Economic sector – (i) Agriculture (special treatment), (ii) Arts, Entertainment, Other Private and Household activities and (iii) Hospitality Industry
 - ◆ Elementary Occupations and Service & Sales workers