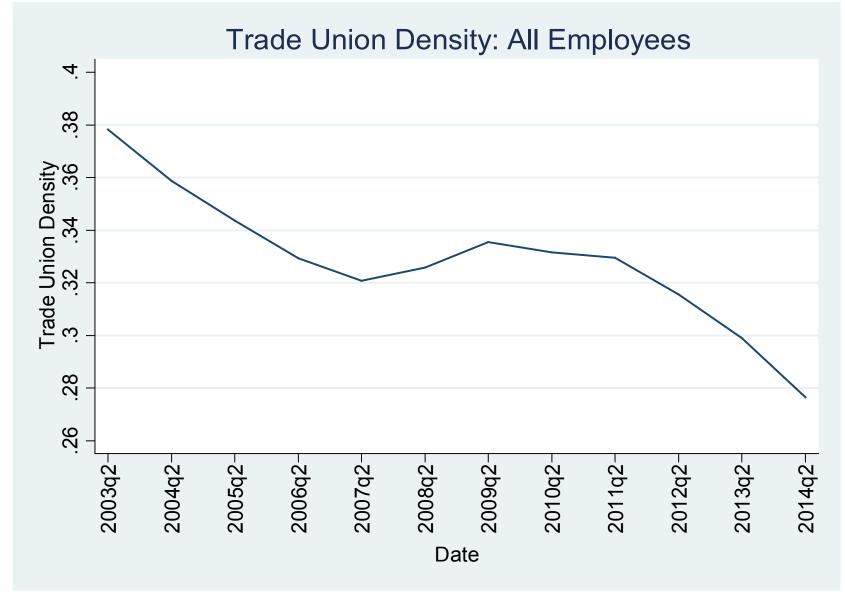
The Trade Union wage premium in Ireland

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Preliminary Results

Introduction

- A large literature shows that members of Trade Unions earn substantially more than non members after controlling for worker and job Characteristics
- Walsh (2013) using SILC data estimates a premium of around 10% (A little higher for public sector and lower for the Private sector). Employees only
- The labour force survey shows a steady decline in the % of employees who are members over a number of decades
- This is inline with international evidence, although not as clear that the share of jobs covered by union contracts is falling. No data on this for Ireland (that I know of)
- Is the union wage premium holding up and how does it affect wage inequality



Source: Walsh (2014)IRN Labour Force Survey

Note: this excludes selfemployed, unemployed or retired union members

For SIPTU retired members went from 4.2% in 1993 to 10.2% in 2016

Substantial share of members excluded each year

Share changes over time

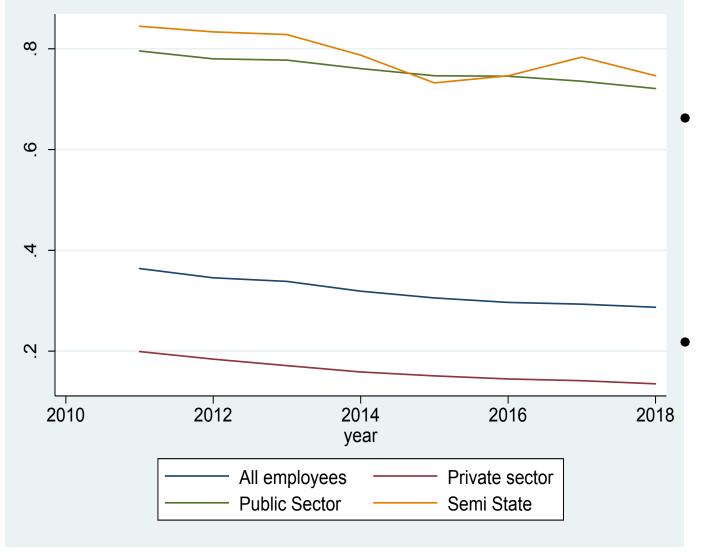
Data

- Earnings Analysis using Administrative Data Sources (EAADS), Matched with the Labour force Survey. Compiled by the CSO
- Update of the data used in Public pay Commission report
- 2011-2018 Annual data 113,905 observations
- Earnings (from main job), weeks worked Public sector and Industry taken from P35 and administrative data sources

- Other Controls: Age, Education, Gender, Weekly Hours, Job Tenure, Nationality, Region,
 Marital Status, Occupation and industry all from Labour Force Survey
- Missing values are excluded from the data (This could cause selection bias)



Trade Union density EAADS data by Public Sector status



- The exclusion of missing values means this is *not* the same as the CSO estimates from the Labour Force Survey
- Density seems to be higher in this data and the trend is more negative than LFS since 2013

The Trade Union Wage Premium

	All Workers	Private	Public	Weekly Wage
Coefficient	11.6%	12.2%	6.9%	12.5%
Observations	131,905	95,891	36,014	131,905
Rsquared	0.7661	0.7624	0.7038	0.6829

- Linear regression of Annual/Weekly earnings controlling for worker and job characteristics
- Public sector (non semi-state) compares public sector union members with public sector non-members
- All coefficients in all the tables in this presentation highly statistically significant

Oaxaca Decomposition of Union Wage Differential

	All Workers	Private	Public
Difference	52.7%	36.8%	36.1%
Endowments	41.1%	26.7%	26.9%
Coefficients	10.7%	12.4%	4.6%
Interaction	0.9%	2.3%	4.6%

- Gross wage differential is big (especially for private sector employees)
- Most of this is explained by differences in characteristics of the worker/job
- Still a substantial "Unexplained" wage differential for union members

Unconditional Quantile Analysis [Firpo, Fortin and Lemieux (2009)]

- If membership of Trade Unions were to increase by a little how would this affect different quantiles of the wage distribution
- Conditional quantile analysis does not allow to answer this question
- Using Unconditional quantiles make a substantial difference
- In general in the literature trade unions tend to lower wage inequality

Quantiles	10%	.0% 25%		75%
Conditional Private	16.4%	14.3%	12.4%	11.4%
Unconditional all	21.0%	23.5%	18.2%	5.3%
Unconditional Private	18.5%	23.4%	20.0%	12.7%
Private Weekly Wage	21.3%	19.3%	18.7%	13.2%
Unconditional Public	34.0%	9.6%	2.8%	3.2%

- Doing Unconditional vs Conditional quantile makes a substantial difference to the pattern
- The analysis suggests a large Union wage premium across the wage distribution, especially up to the 50th percentile
- Also that an increase in Trade Union membership across the distribution would reduce wage inequality

Conclusions

- Share of employees in Unions isin decline amongst employees (we have no evidence on coverage)
- Density is low in the private sector (Although this data may have selection bias)
- There is a substantial Trade union Wage premium on average and across the distribution and a smaller premium in the public sector
- The evidence suggests that trade unions lower wage inequality
- Unconditional vs Conditional analysis makes a substantial difference to the estimates

Additional Tables

Summary Statistics EAADS data: 2011-2018

Name	Mean	Standard_Deviation
Annual Gross pay	€37,674	31,987
Annual weeks	47.86	9.31
Usual weekly Hours	34.48	10.37
% Union Member	0.33	0.47
%Public (Not Semi-State)	0.25	0.43
%Private	0.73	0.45
%Semi-State	0.03	0.16
Age	40.25	11.55
% Male	0.48	0.50
Years Tenure	10.28	9.33
%Irish	0.90	0.30

Number of Observations: 131,905

Unconditional Quantiles Oaxaca decomposition

All Workers	10%	25%	50%	75%
Difference	99.4%	78.2%	51.3%	32.7%
Endowments	83.8%	51.2%	32.2%	20.9%
coefficients	15.6%	27.0%	19.1%	11.8%
Private Sector				
difference	72.2%	55.4%	35.2%	21.7%
endowments	45.7%	35.5%	23.1%	16.5%
coefficients	26.5%	20.0%	12.0%	5.2%
Private Weekly				
difference	54.2%	41.6%	31.0%	19.1%
endowments	25.9%	22.8%	18.7%	12.9%
coefficients	28.3%	18.9%	12.3%	6.2%