Jimmy Martínez-Correa

Associate Professor, Pension Reserch Center (PeRCent), Economics Department, Copenhagen Business School

Joint work wth:

Filipe Viera - CBS/PeRCent Alvaro Pedraza - World Bank

Pensions in Denmark: Who is at Risk of Falling into the *Restgruppe*?

Nationaløkonomisk Forenings Konference 2020, Koldingfjord January 10th, 2020.



Agenda

- > Background on the Restgruppen issue.
- > Interesting patterns and findings from Restgruppen analysis
- > Where to go from here



Why is the Restgruppe discussion important?

> Restgruppen

 Several definitions but in principle people with not "enough" savings ear-marked for retirement (and dependent of Pillar 1 in the future).

> Is it a problem?

- The Danish pension system is one of the best in the world.
 - Pension reforms successful (retirement savings 200% of GDP)

> Why care about it then? It is a balancing act...

- o If benefits in Pillar 1 very low: Risk for individuals and society
- If benefits too high: Risk of fiscal preasure to society



Definitions of Restgruppen

> People at working age

- Actuarial approach: Enough savings to "pay" for an annuity of a given amount X.
 - E.g. X = folkepensiontillæg (ca. 77.000 kr)
 - Pension contributions: ca. 25.000 kr.
 - Pension wealth at retirement: ca. 1.2 mio

> People at retirement

- Getting 100% of the folkepensiontillæg
- Means-tested: Income before retirement < threshold
 - Singles: ca. 70.000kr.
 - Couples: ca. 110.000kr. 140.000kr.



Definitions of Restgruppen

> People at working age

- Actuarial approach: Enough savings to "pay" for an annuity of a given amount X.
 - E.g. X = folkepensiontillæg (ca. 77.000 kr)
 - Pension contributions: ca. 25.000 kr.
 - Pension wealth at retirement: ca. 1.2 mio

> People at retirement

- Getting 100% of the folkepensiontillæg
- Means-tested: Income before retirement < threshold
 - Singles: ca. 70.000kr.
 - Couples: ca. 110.000kr. 140.000kr.





Definitions of Restgruppen

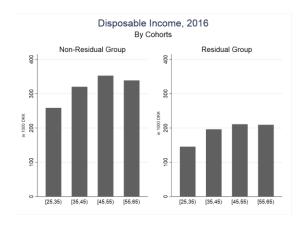
Study	Pension		Population	Restgruppen
	Contributions (Annual)	Wealth	Age (Year)	# People (% of population)
SFI (2014)		< 1.088.500 kr.	64 (2012)	34.557 (46%)
	< 20.000 kr. (Avg. 5 years)		30-59 (2011)	720.746 (32%)
ATP (2015)	< 23.240 kr. (Avg. 10 years)		30-59 (2012)	788.316 (35%)
CEPOS (2018)	< 30.000 kr. (= 1.5 mio at 65)		25-64 (2017)	1.144.000 (42%)
Ours (2019) DST registers	< 25.000 kr (= 1.2 mio at 65)		25-64 (2016)	1.225.654 (43%)
		< Threshold (Age dependent)	25-64 (2016)	1.118.466 (40%)



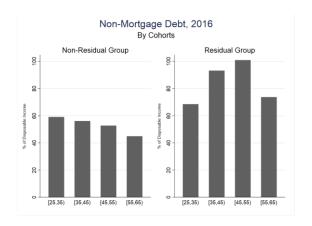


Not in Restgruppen vs. In Restgruppen (Pension contribution-based)

Lower income (and pensions too)



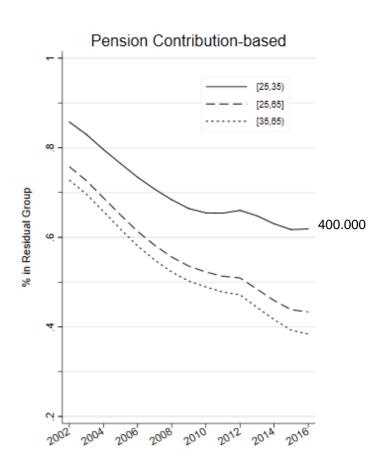
Higher indebtedness

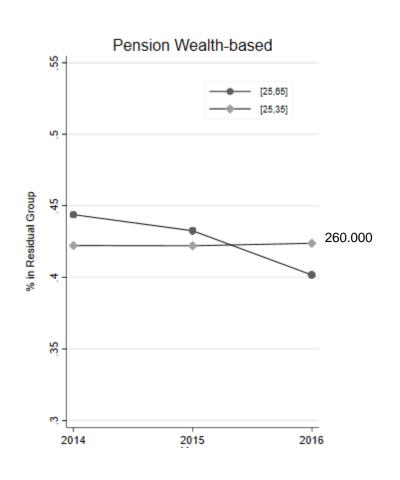






Restgruppen size has dropped over time...







Pension contributions and stock of pension wealth have stagnated in young generations



Different saving patterns in youngters?

The Journal of FINANCE

The Journal of THE AMERICAN FINANCE ASSOCIATION

THE JOURNAL OF FINANCE • VOL. LXXIV, NO. 6 • DECEMBER 2019

YOLO: Mortality Beliefs and Household Finance Puzzles

RAWLEY Z. HEIMER, KRISTIAN OVE R. MYRSETH, and RAPHAEL S. SCHOENLE*

ABSTRACT

We study the effect of subjective mortality beliefs on life-cycle behavior. With new survey evidence, we document that survival is underestimated (overestimated) by the young (old). We calibrate a canonical life-cycle model to elicited beliefs. Relative to calibrations using actuarial probabilities, the young undersave by 26%, and retirees draw down their assets 27% slower, while the model's fit to consumption data improves by 88%. Cross-sectional regressions support the model's predictions: Distorted mortality beliefs correlate with savings behavior while controlling for risk preferences, cognitive, and socioeconomic factors. Overweighting the likelihood of rare events contributes to mortality belief distortions.





Different labor market structure?



Danish occupational pension system designed for different labor market





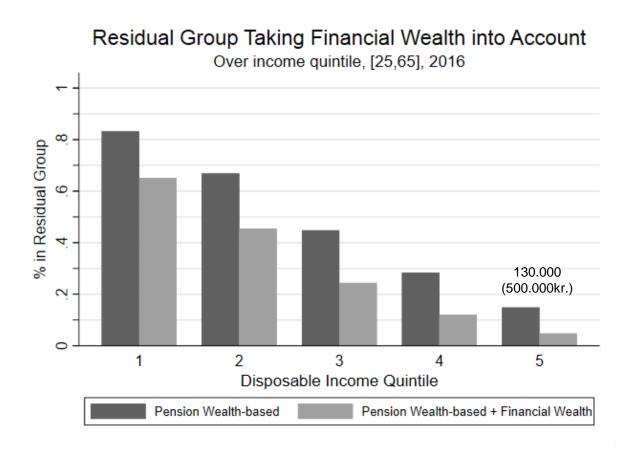
Message 1: Something going on with young generations?

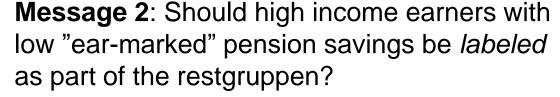
- > Saving less?
 - YOLO?

- New labor market structure?
 - Gig economy / future of work
 - o Is the Danish pension system prepared for this?



Restgruppen by income quintile





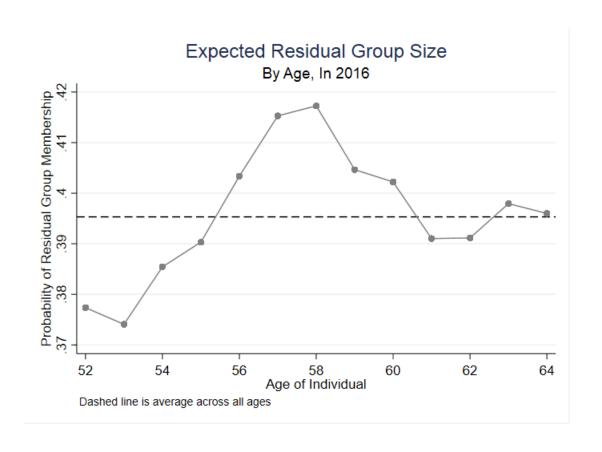


Understanding the Restgruppen

- > Start with new retirees in 2016 (ca. 60.000 people)
 - Identify individuals eligible for full folkepensiontillæg (restgruppen)
 - Model the probability of being in the restgruppen controlling for
 - Basic characteristics (gender, single,...)
 - Work Sector
 - Labor Status
 - Wealth items
 - Income
 - Pension contributions
 - Estimate a model with variables measured at age 52, 53, ..., 64
- > Use each model to predict the probability of being in the restgruppen in the future for people 52, 53,..., 54 in 2016.



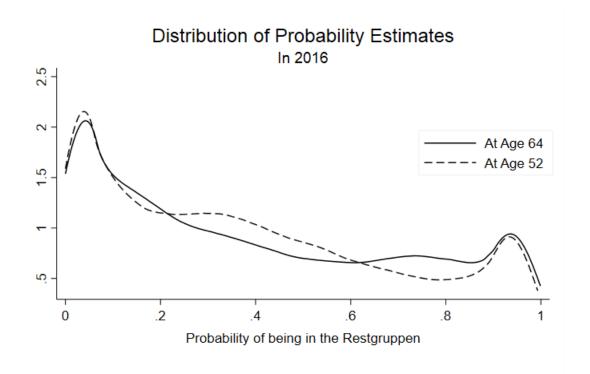
Lagged effect of the crisis...





People that were around 50 years old during the crisis are at higher risk of falling into the Restgruppen

Types of risk by cohort: Low-mid-high



Characteristics of individuals with higher risk of falling into the restgruppen:

- Basic
- Middle education





Message #3: Focus on people at higher risk of falling into the restgruppe

> Cohorts affected by the crisis

- People hit by crisis at their peak-earning years are at higher risk
- Policy-making: Put in place programs to help people that will be affected by the crisis with a lag.

> Early warning system (Low-mid-high risk)

- o Middle risk:
 - Nudging and behavioral economics and finance can help
- o High risk:
 - Need structural reforms?
 - Or "Nordic" Welfare State Promise
 - Mutual insurance against the "Veil of Ignorance"



Takeaway

> Message 1:

- Young generations saving less?
 - 260.000-400.000 people

> Message 2:

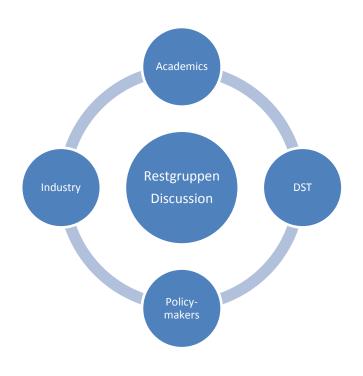
- Should high income earners should be in the Restgruppen?
 - 130.000 people

> Message 3:

- Focus on people at higher risk of falling into restgruppen
 - Unlucky older generations hit by the crisis
 - Basic to middle educated at high risk



Where do we go from here?



> Academic output

- Understanding lagged effects of crisis at retirement
- Understanding youngters
- > Policy-making output
 - Early warning systems
 - Low-mid-high risks
- Using frontier knowledge
 - Behavioral Econ and Finance
 - Experimental Econ & RCTs
 - Machine Learning techniques

