

Dutch Income (Re)Distribution, trends 1977-2019

UnivLeiden/Statistics Netherlands

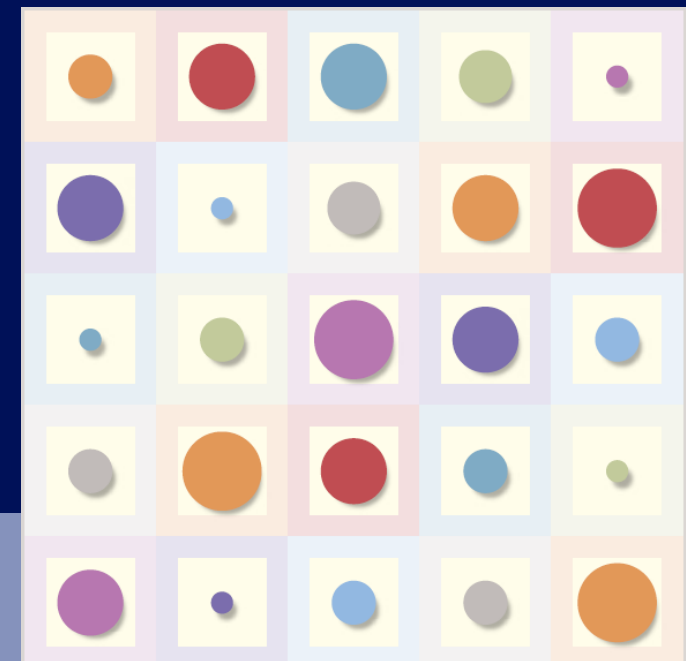
Koen Caminada



Universiteit
Leiden
The Netherlands

BE-PARADIS workshop
19 May 2022
Leuven, Belgium

Discover the world at Leiden University



INKOMEN VERDEELD
TRENDS 1977–2019

ONDER REDACTIE VAN

Koen Caminada, Egbert Jongen (UNIVERSITEIT LEIDEN)
Wim Bos, Marion van den Brakel, Ferdy Otten (CBS)

Introduction

Koen Caminada, professor Empirical analysis of social and tax policy, Leiden University

Institute of Tax Law and Economics. Leiden Law School

Vice-dean Faculty Governance & Global Affairs, Campus The Hague

Topics

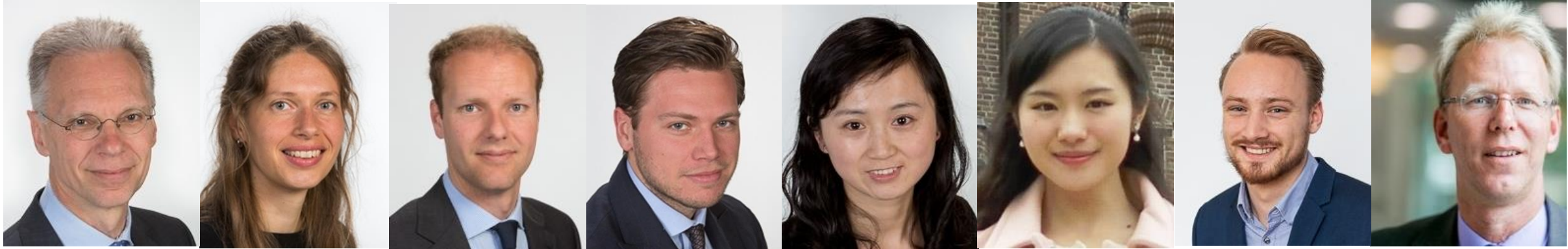
- Income distribution & redistribution
- Distribution tax-benefits social security and pensions
- Tax policy
- Reform social and tax regulations
- Poverty EU / OECD / LIS

Assembled Datasets

- Global
- Dutch Income Statistics



Empirics: global research team & data



Kees
Goudswaard
Leiden

Marike
Knoef
Leiden

Olaf
van Vliet
Leiden

Jim
Been
Leiden

Jinxian
Wang
Beijing

Chen
Wang
Shanghai

Heike
Vethaak
Leiden

Koen
Caminada
Leiden

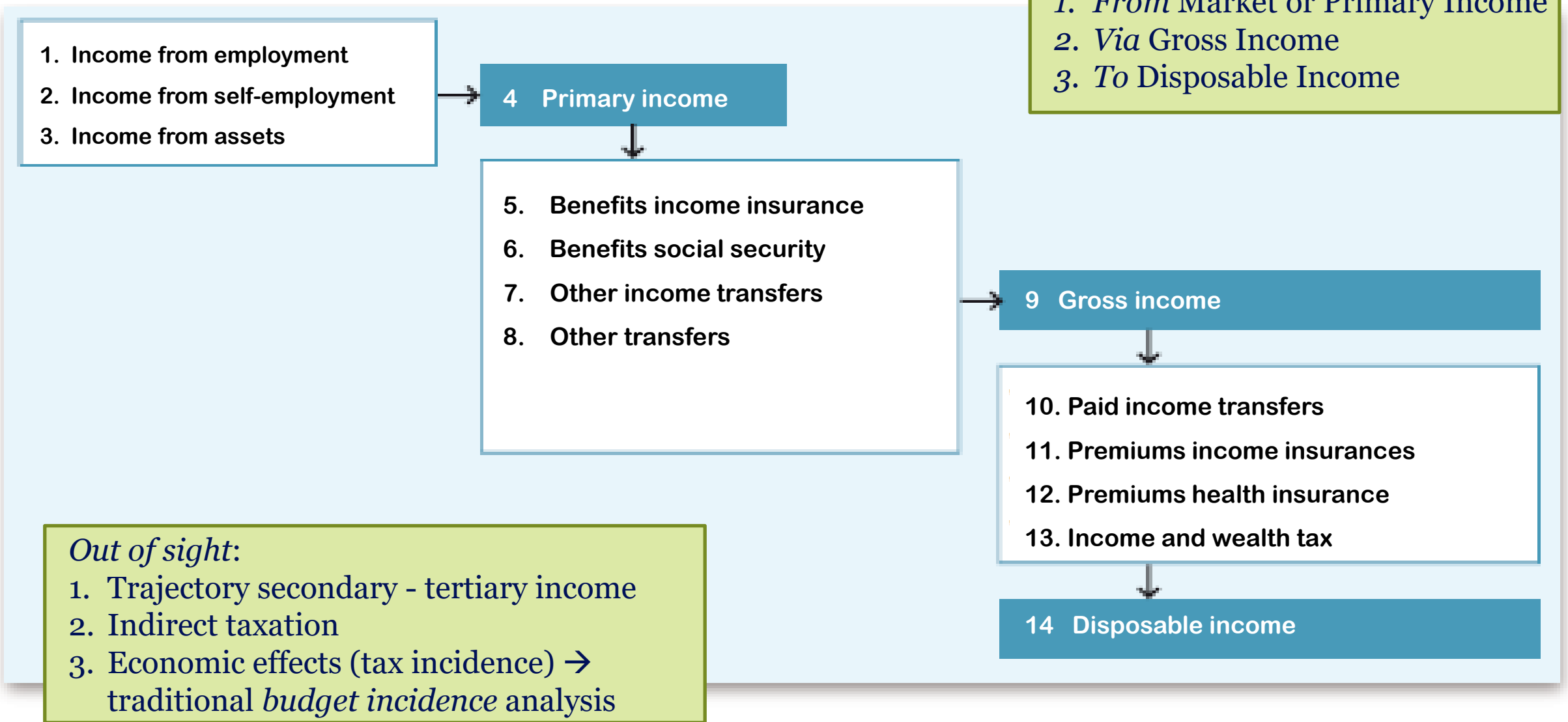
Assembled Datasets (URL: www.economie.leidenuniv.nl)

- [Budget Incidence Fiscal Redistribution Dataset on Income Inequality \(2017\)](#)
- [Idem, on Relative Income Poverty Rates \(2019\)](#)
- [Social Assistance and Replacement Rates Dataset](#)
- [Unemployment Replacement Rates Dataset](#)
- [Sectoral Income Inequality Dataset](#)

Luxembourg Income Study
World Wealth & Income Database
ECHP-EU-Silc
Dutch Income Statistics

Setting the scene

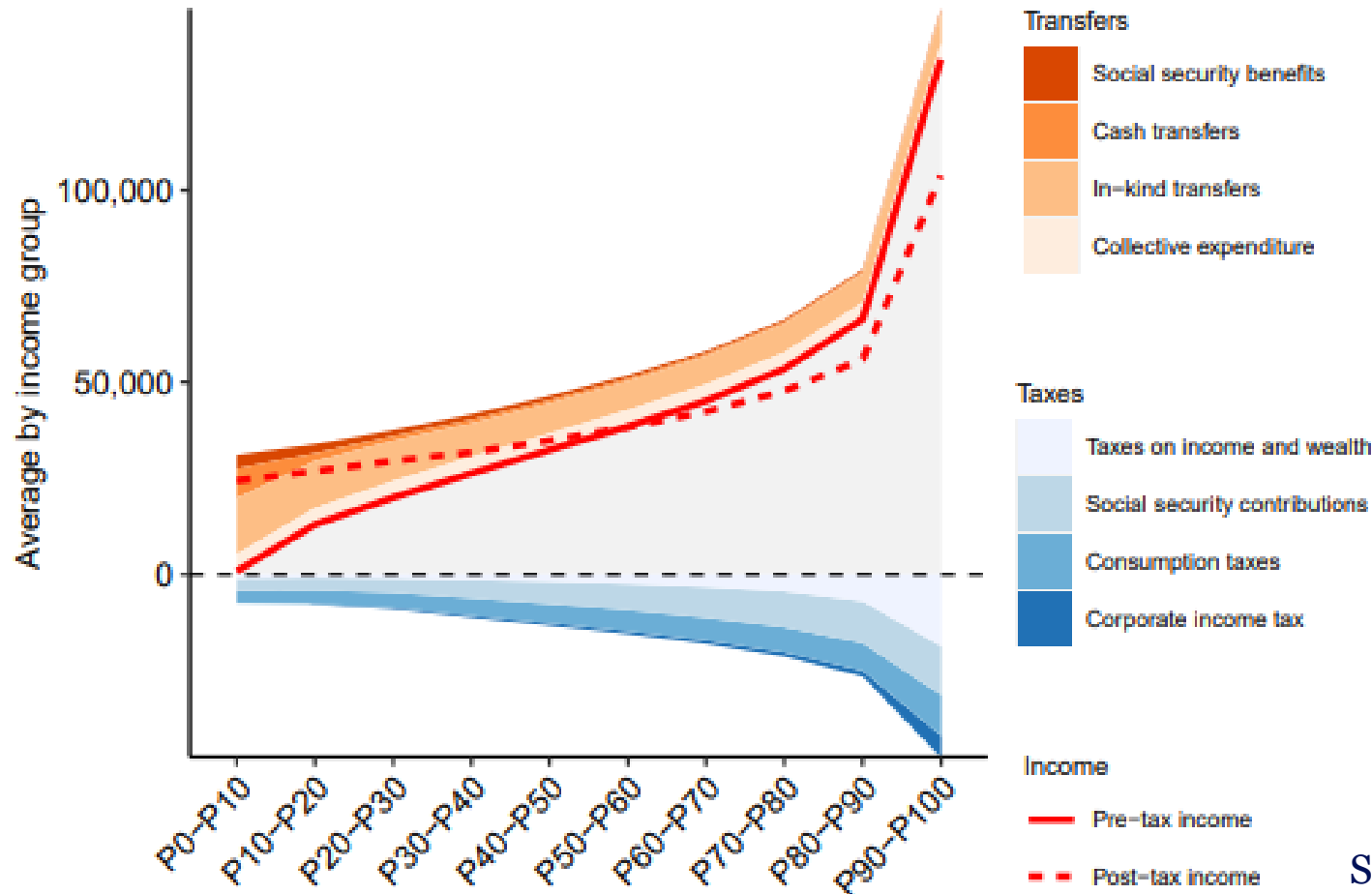
Composition of household income & T/B-system



Setting the scene

Less broad scope than DINA studies (National Accounts)

Figure 9: Pre- and post-tax income, taxes and transfers, by income decile



Income

- National Accounts including
- Profits firms
- Wealth (unrealized)

Transfers

- Social security benefits
- Cash transfers
- In-kind transfers
- Collective expenditure

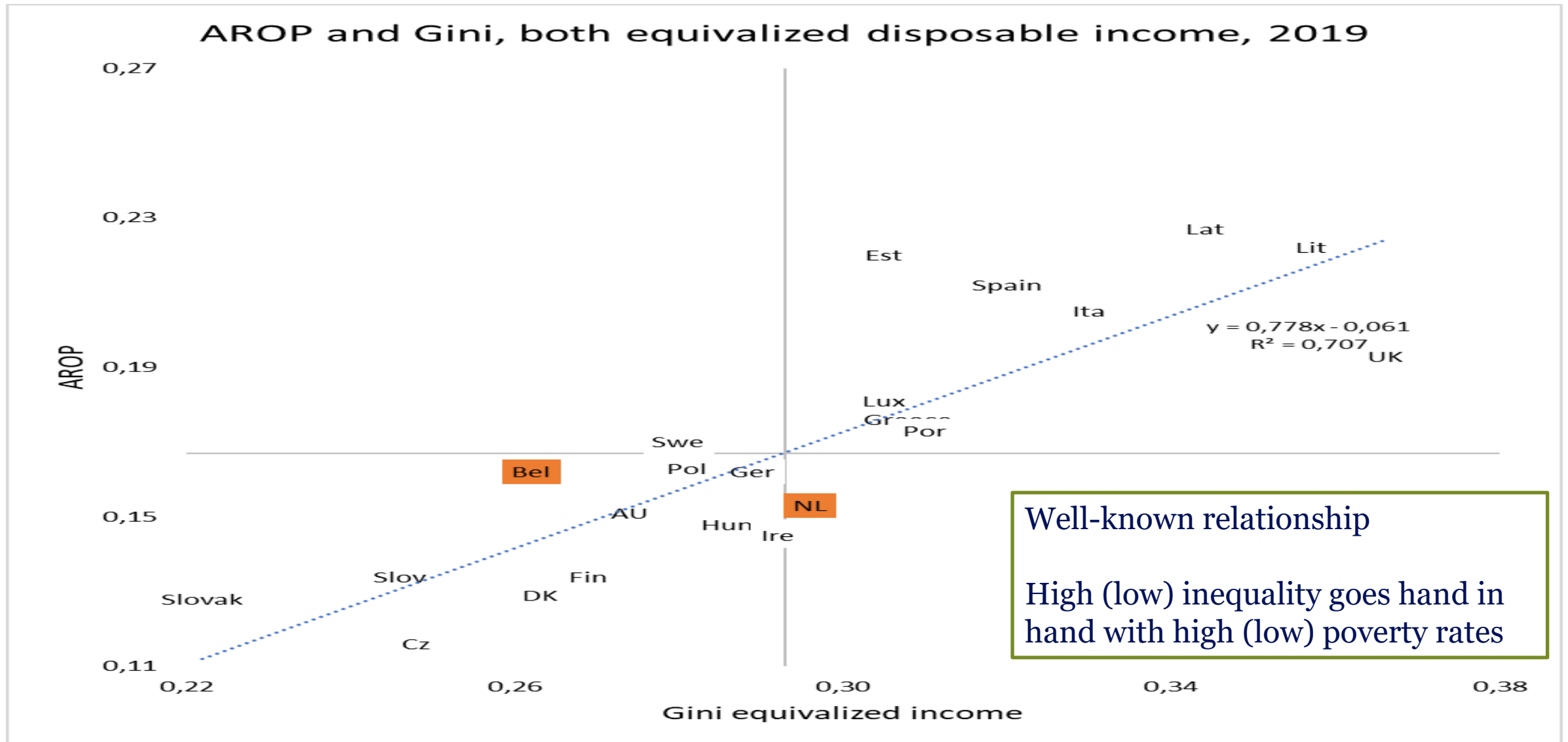
Taxes

- Taxes on income and wealth
- Social security contributions
- Consumption taxes
- Corporate income taxes

Source: Dutch Bureau of Economic Argumentation / CPB (2022)

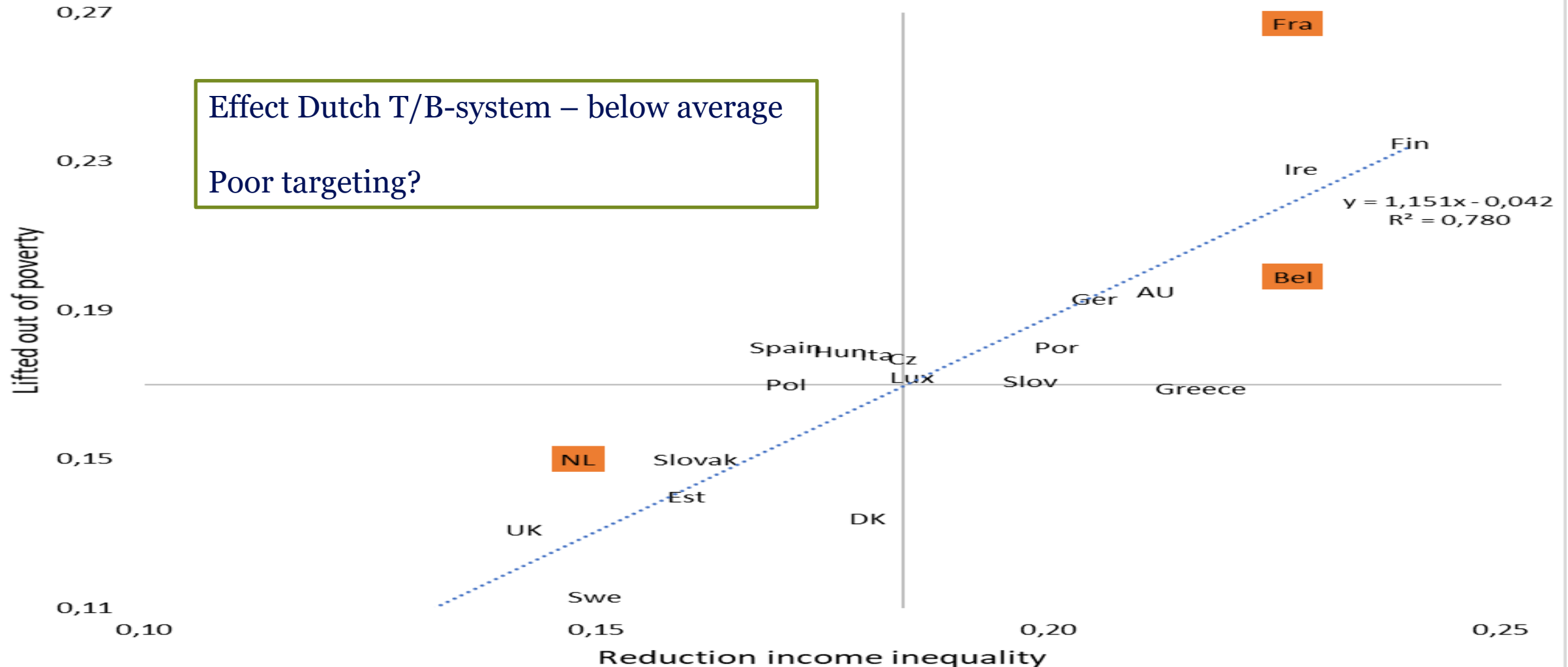
Setting the scene

Income inequality and AROP in an international perspective



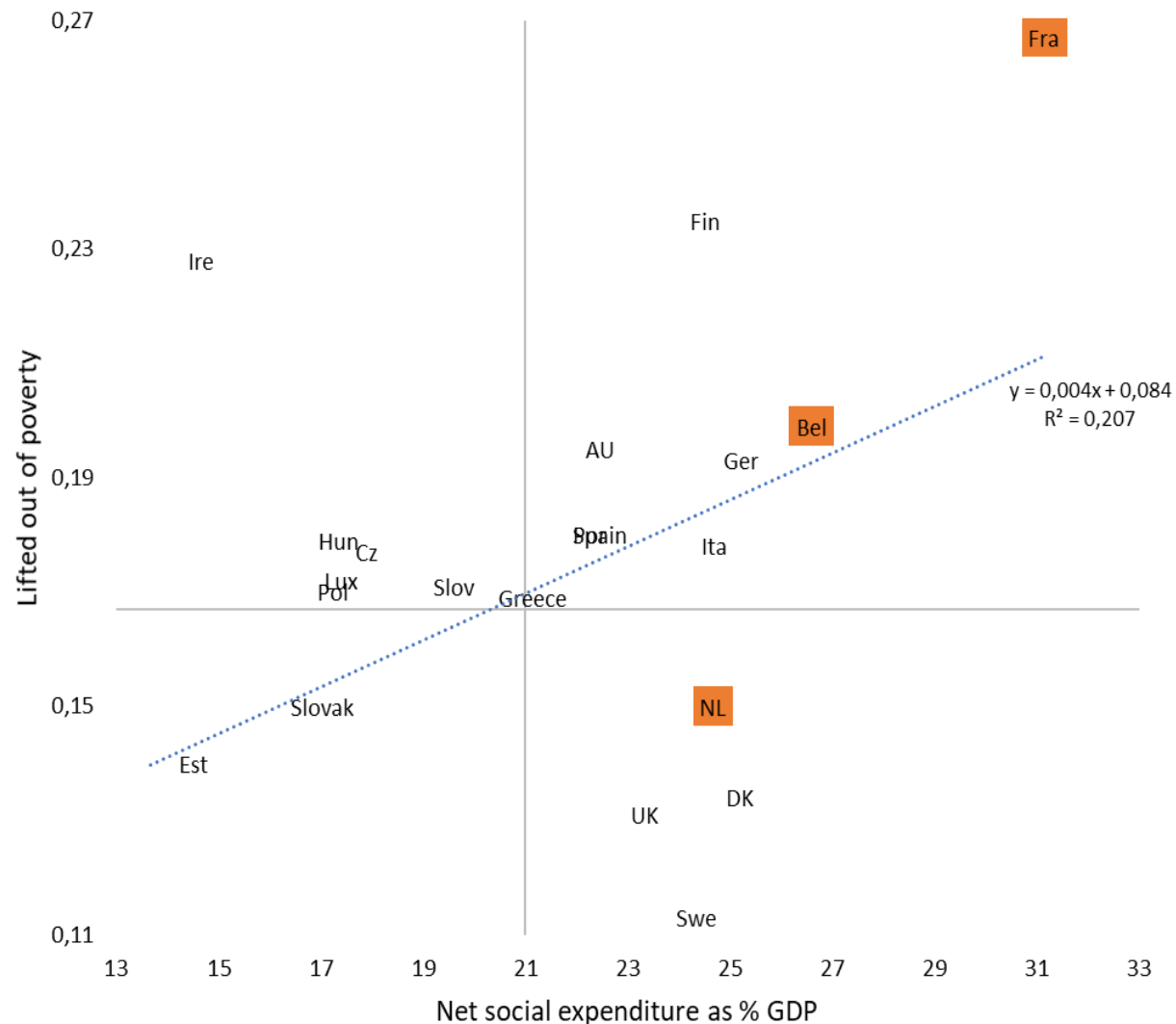
Redistribution (T/B-systems) in an international perspective

Reduction income inequality and poverty via income taxes and social benefits, 2019

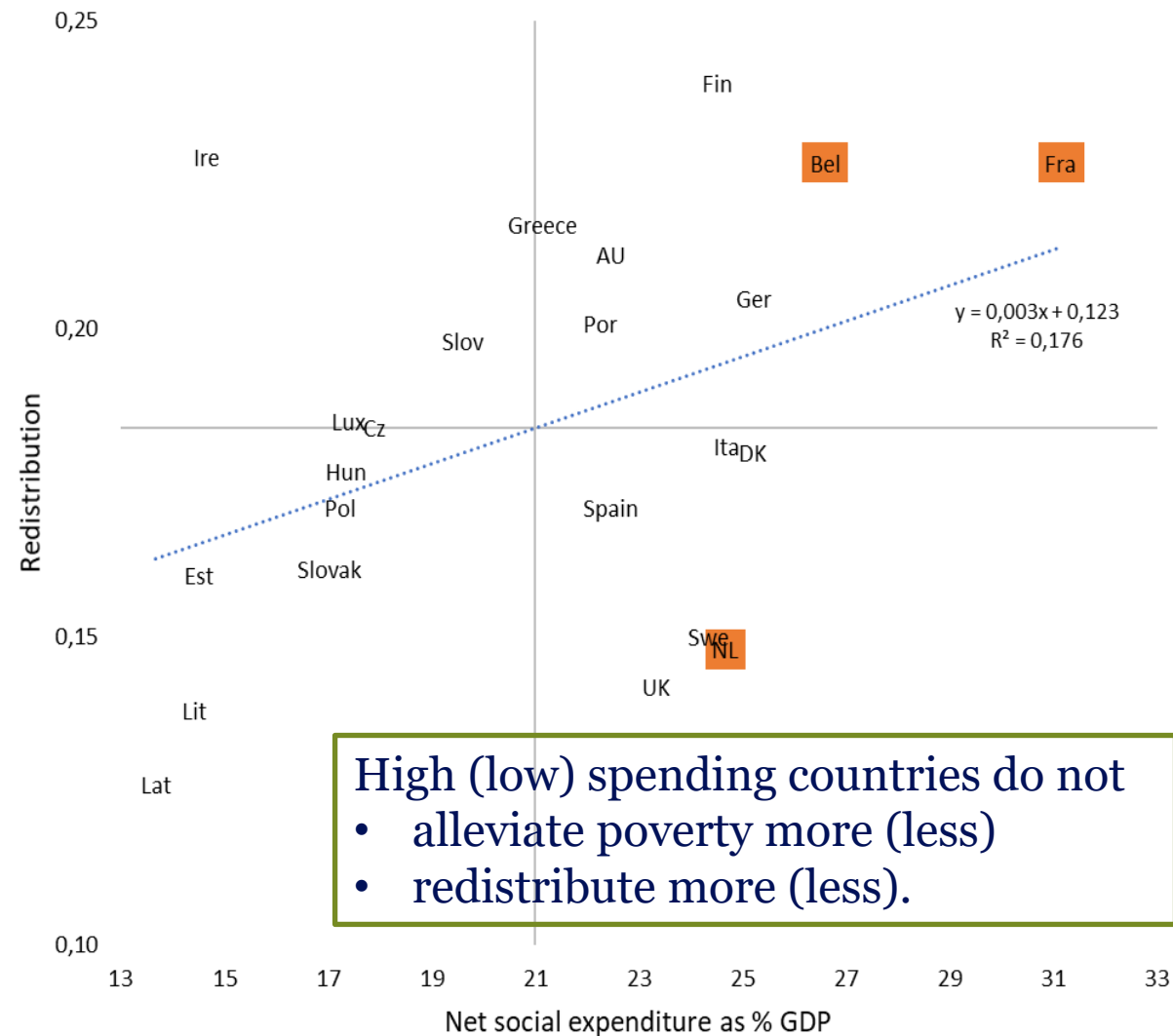


Poor targeting of Dutch T/B-system in an international setting

Lifted out of poverty via income taxes and social benefits versus net social expenditures, 2019



Redistribution of income via income taxes and social benefits versus net social expenditures, 2019

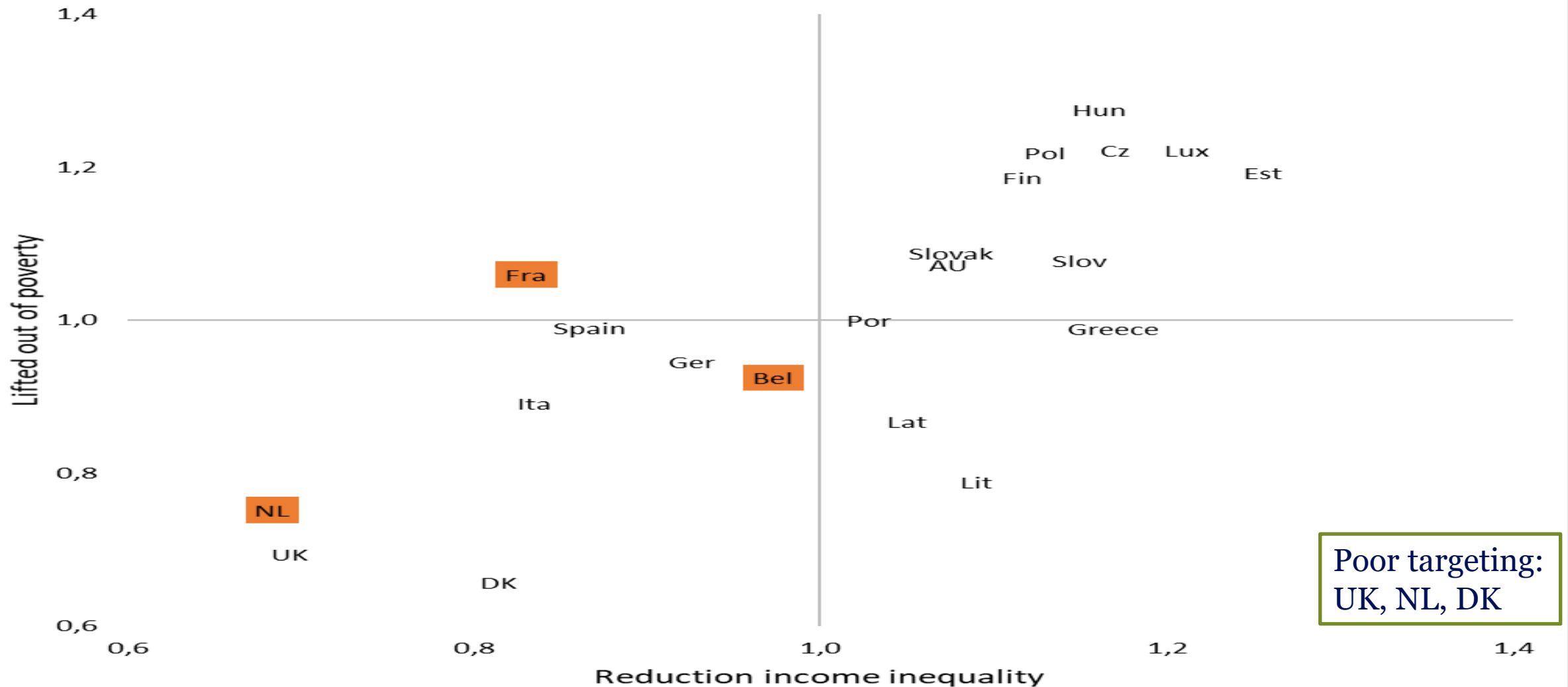


High (low) spending countries do not

- alleviate poverty more (less)
- redistribute more (less).

Universalism versus Targeting of T/B-systems

Public Policy Index (EU-23=1): Reduction income inequality and Lifted out of poverty per 1% GDP social spending, 2019



Today's Topic

- Repair breaks time-series Dutch Income Statistics since 1977
- Massive project
- Research team from Statistics Netherlands (7) & Leiden Univ (5)
- Populaire publication - release 14th of October 2021



Wim Bos

Egbert Jongen

Ferdy Otten

Koen Caminada

Marion van den Brakel

Heike Vethaak

Kai Gidding

Koos Arts

Jim Been

Kees Goudswaard

Jeroen Nieuweboer

Noortje Pouwels-Urlings

Deliverables – Open Access

- Book Dutch Income (Re) Distribution, trends 1977-2019 (pdf)
- Supplement Figures and Tables (xls)
- Presentation Main Findings (ppt)
- CBS Web publication (link)
- Data, data, data
- Website

[Website: click here](#)



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Research project

Dutch Income (Re)Distribution, trends 1977-2019

Website under construction. Launch October 14th 2021.

Contact

Koen Caminada

Revision Dutch Income Statistics, time series 1977-2019

- Book *Dutch Income (Re) Distribution, trends 1977-2019 (in Dutch)* ([link](#))
- Supplement Figures and Tables (xls.)
- Presentation Main Findings (ppt.)
- CBS Web publication (in Dutch) ([link](#))
- Initiators: [Koen Caminada](#) (Universiteit Leiden), [Egbert Jongen](#) (Universiteit Leiden), [Wim Bos](#) (CBS), [Marion van den Brakel](#) (CBS), [Ferdij Otten](#) (CBS)
- More information (in Dutch): [click here](#)



Popular publication - release October 14th 2021

Chapter	Leiden University	Statistics Netherlands (CBS)
1. Preface	Koen Caminada & Egbert Jongen	Wim Bos, Marion van den Brakel & Ferdy Otten
2. Decomposition of income	Koen Caminada, Jim Been, Kees Goudswaard & Heike Vethaak	Jeroen Nieuweboer
3. Income inequality and redistribution	Koen Caminada, Kees Goudswaard, Heike Vethaak & Jim Been	Marion van den Brakel
4. Distribution of the tax burden	Koen Caminada, Jim Been, Heike Vethaak & Egbert Jongen	Kai Gidding
5. Trends in dynamic purchasing power		Kai Gidding
6. Low incomes and poverty	Koen Caminada & Kees Goudswaard	Ferdy Otten & Koos Arts
7. Top incomes	Egbert Jongen & Koen Caminada	Noortje Pouwels-Urlings
8. Longitudinal income inequality		Wim Bos

Nota Revision Dutch Income Statistics, 1977-2011 (no part of the book), via www.cbs.nl

Trajectory revision Dutch Income Statistics

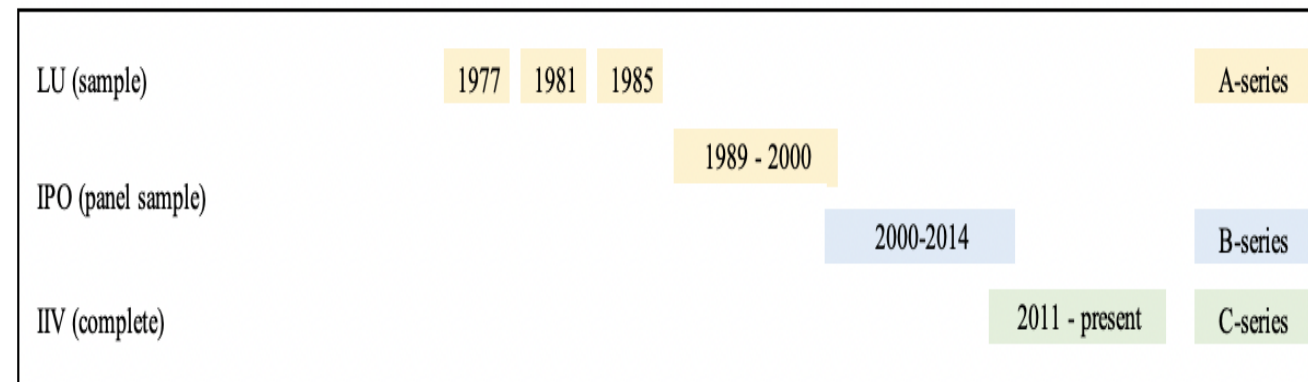
- 2009 → income records converted from ASCII to SPSS-files
- 2018 → CBS stores records – central storage in Data Service Centrum
- 2018 → data users: long and consistent time series

Cooperation and agreement Statistics Netherlands & Leiden University

Secondary objectives

- Storage of data records
- Make revised records accessible for (longitudinal) research

Income records; break in series 2001 & 2011



Revision Income Statistics

Aim: align outcomes 1977-2011 with series starting from 2011

- Define and determine income variables in order to have consistency to series from 2011 onwards
 - Lack of social premium variables 1977-2000
 - Values “Imputed Rents” 1977-2011 comparable to series from 2011 onwards
- Similar classifications of population groups (socio-economic status and primary source of household income)
- Identical names for variables in all records



Composition of income households

	Quantity x 1.000	Amount Mln euro
1	5.240	244.047
Income from wages		
1.1.1	4.759	156.929
Wages employee		
1.1.2	873	27.722
Wages civil servants		
1.1.3	237	9.330
Wages major shareholder (DGA)		
1.2	5.009	45.886
Social security contributions employer		
2	1.062	27.292
Profit from enterprise		
3	6.797	20.947
Property income (3.1-3.2)		
3.1	5.912	37.798
Asset income		
3.2	5.291	16.850
Interest paid		
4	7.401	292.286
Primary income (1+2+3)		
5	3.756	79.930
Benefits from income insurance		
5-1.1	528	2.991
Unemployment benefits		
5-1.2	776	8.661
Illness, disability benefits		
5-1.3.1	2.236	29.974
Benefits state pension (AOW)		
5-1.3.2	30	261
Benefits General Survivors (ANW)		
5-1.3.3	2.751	35.887
Pension benefits		
6	2.659	10.754
Social security benefits		
6.1	752	6.447
Welfare benefits etc.		
6.3	716	444
Benefits connected to children		
6.4	486	765
Scholarship benefits		
7	1.357	3.059
Received committed transfers		
8	48	434
Received income transfer		

	Quantity x 1.000	Amount Mln euro
9	7.818	386.463
Gross income (4+5+6+7+8)		
10	67	502
Paid income transfer		
11	7.267	62.285
Premium income insurance		
11.1	5.164	7.094
Premium unemployment		
11.2	361	726
Premium illness		
11.3	5.240	14.204
Premium disability		
11.4.1	4.218	23.510
Premium social insurance pension		
11.4.2	437	745
Premium pension private sector		
11.4.3	7.064	16.471
Premium social insurance AOW, Anw		
12	7.824	39.182
Premium health insurance		
12.1	7.824	28.536
Premium social insurance ZFW, Zvw		
12.2	4.007	4.726
Premium private health insurance / Zvw		
12.3	7.143	10.646
Premium social insurance AWBZ		
13	7.256	43.962
Tax on income and assets		
14	7.824	240.532
Disposable income (9-10-11-12-13)		

Overestimation or underestimation income inequality?

Theory: Haig-Simon definition of income
versus Dutch law

- Capital gains
- Imputed rent homeowners
- Et cetera

Statistical conventions

- UN, Canberra Group, Handbook on Household Income Statistics → <http://www.unece.org/index.php?id=28894>.

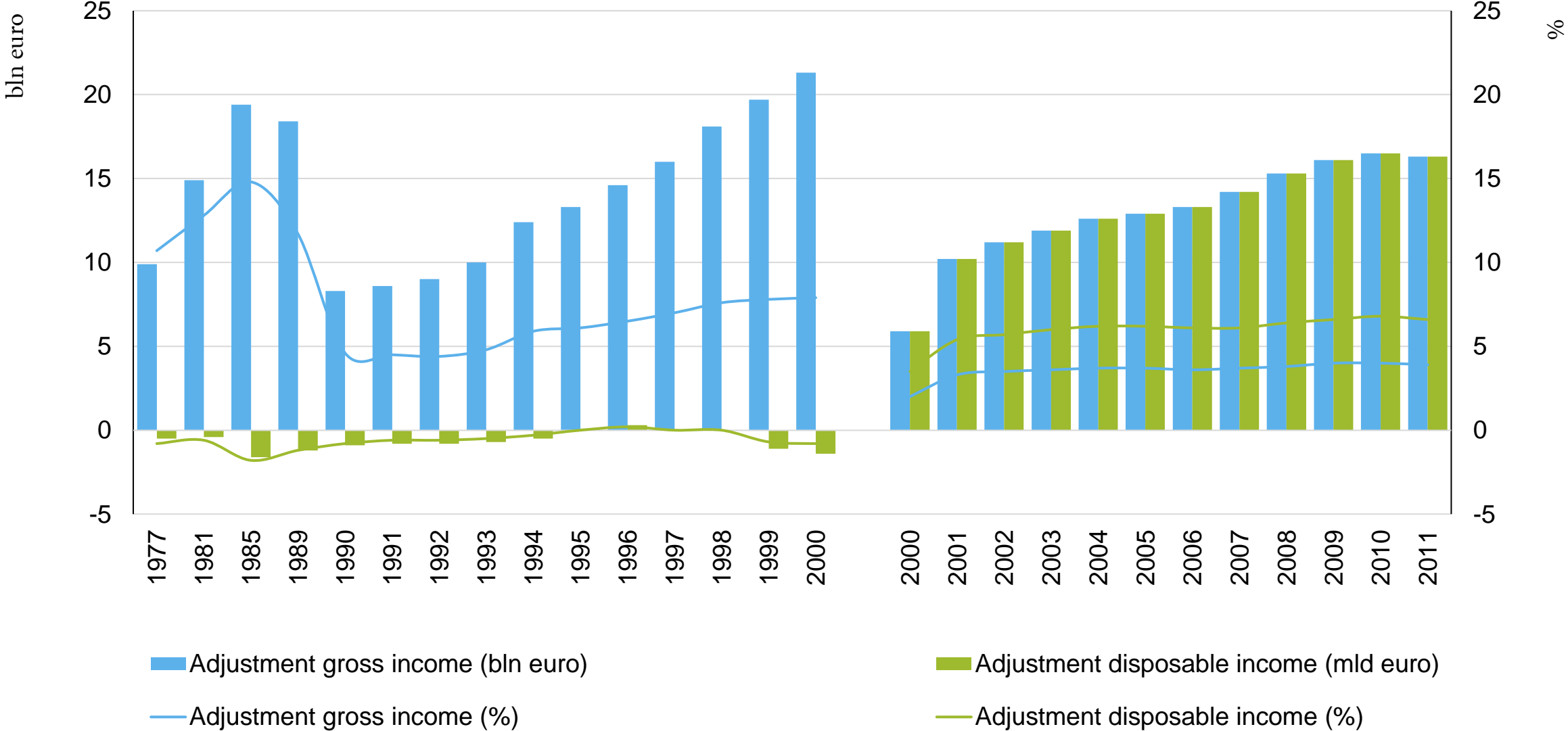
Remaining break IPO and IIV

- Difference in population (year-end and beginning of year respectively)
- Truncating high amounts in IPO up to and including 2011, e.g. for income from Substantial Interest (Aanmerkelijk Belang)

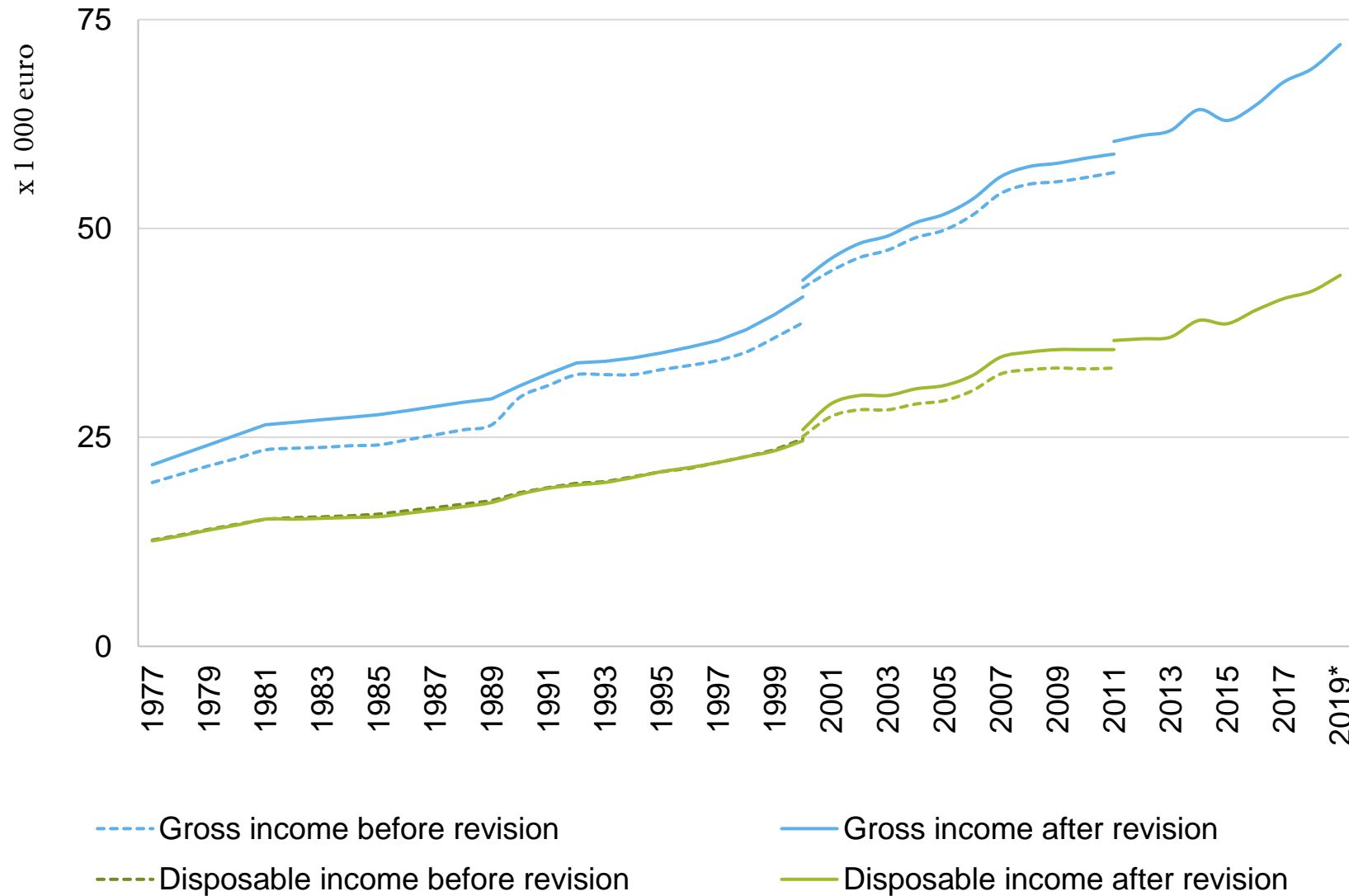
Things that can not be repaired.

Estimate truncating high amounts in IPO → income inequality in series before 2011 may be slightly higher than we measure now → modest changes in income inequality between 1977 and 2011 may be slightly overestimated.

1.4.2 Adjustments of gross and disposable income



1.4.3 Average gross and disposable household income, before and after revision



Results

Δ Real equivalized income
1985-2019*:

○ Disposable income:
1,38 - 1,65% per year

○ Gross income:
1,82 - 2,20% per year

Purchasing power one person
household: +58%

1.5.1 CBS Equivalence scales, 1977-2019 (one person household = 1.00)

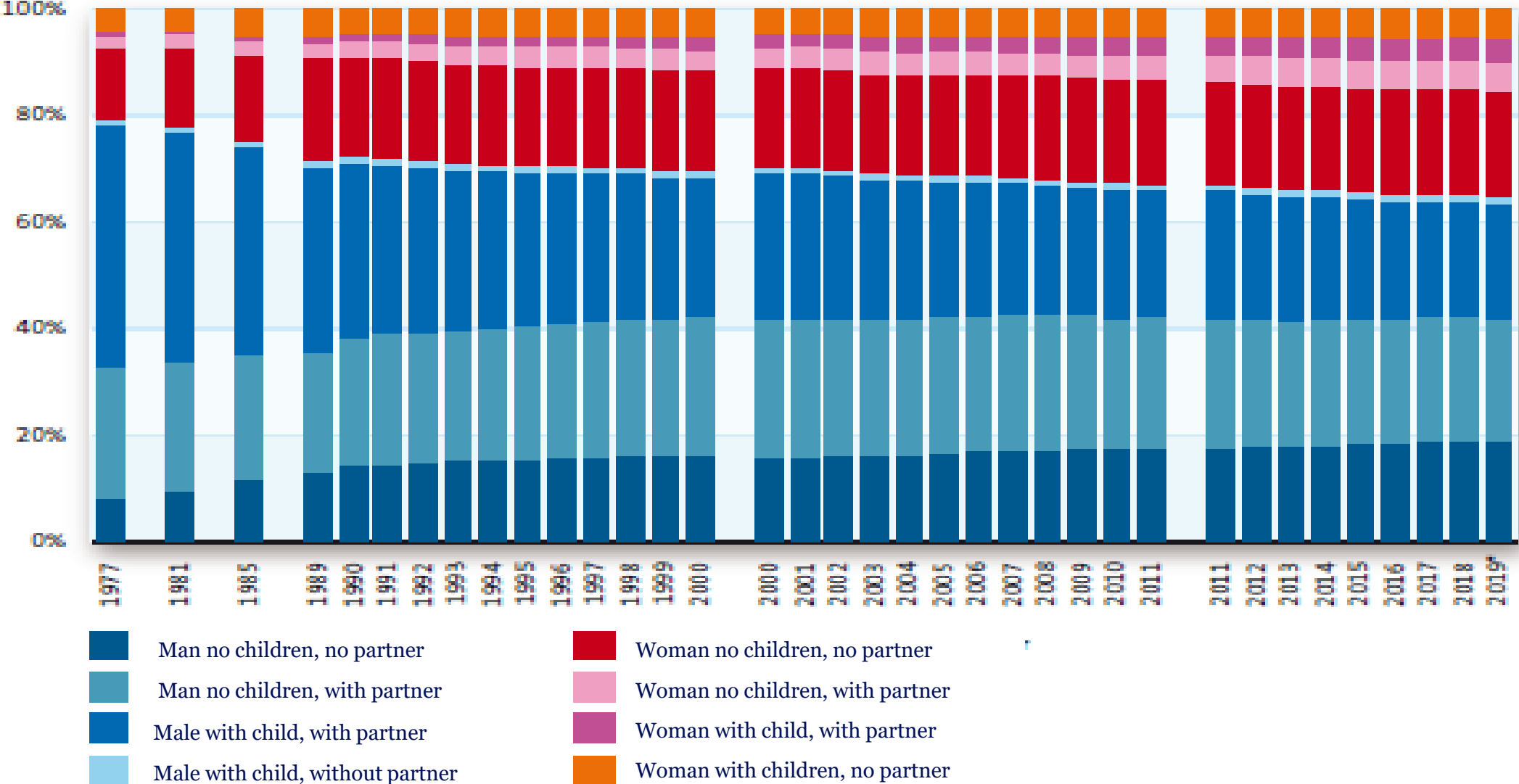
	1977-2000	2001-2017	From 2018 onwards
1 Adult with 1 child	1,33	1,33	1,32
2 Adults	1,38	1,37	1,40
1 Adult with 2 children	1,52	1,51	1,52
2 Adults with 1 child	1,70	1,67	1,69
3 Adults	1,73	1,73	1,78
2 Adults with 2 children	1,90	1,88	1,91

- Equivalize → economies of scale; expenditures of households depend on their size and composition
- Divide household income by equivalence factor that expresses the size of the economies of scale that arises because of shared households
- Numeraire: one person household = 1.00

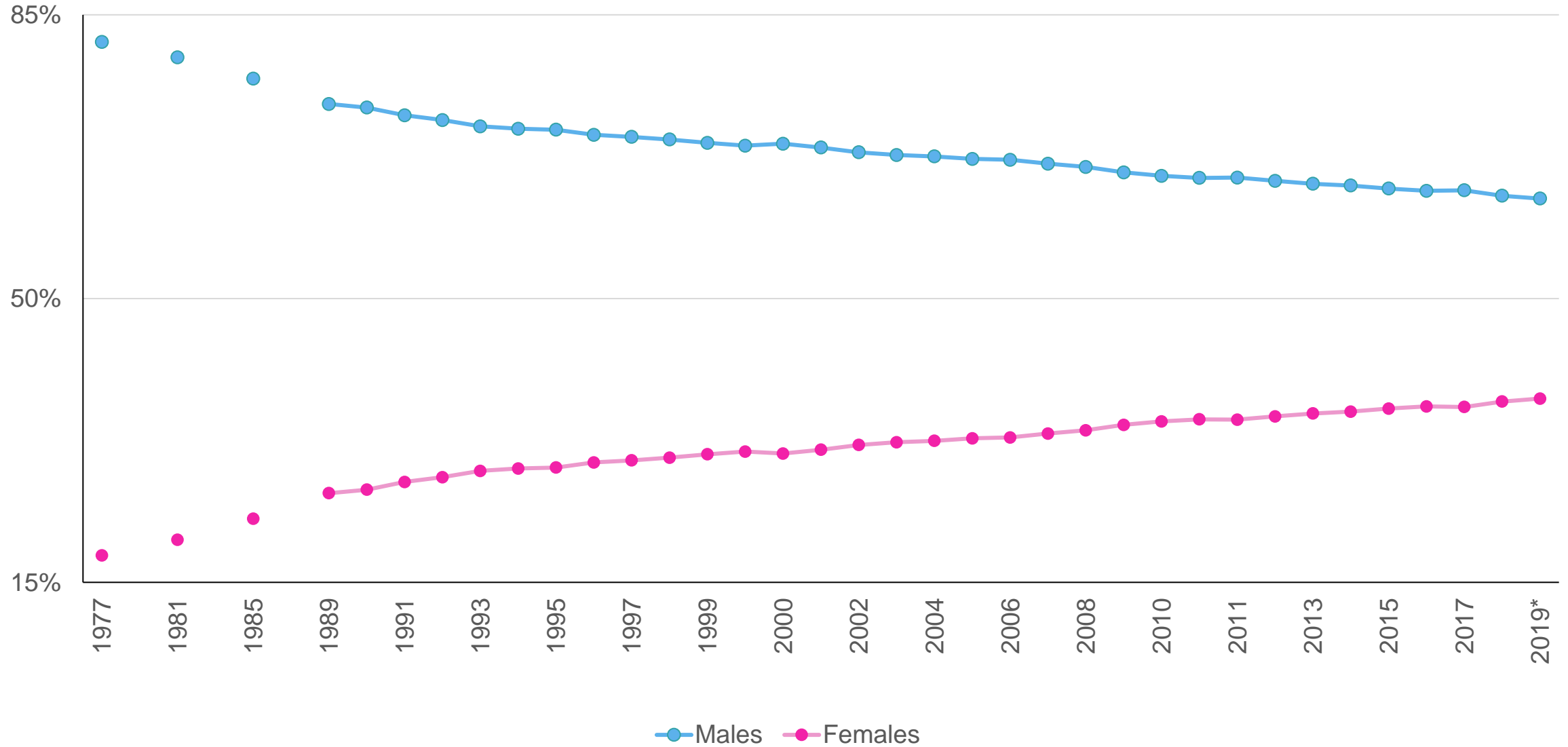
2.4.4 Trend composition of groups 1977-2019* (%)

	A-series			B-series		C-series	
	1977	1989	2000	2000	2011	2011	2019
Households sorted by primary source of income							
Employee	63	54	58	58	55	54	53
Pensions+assets	21	24	24	24	26	27	27
Self-employed	7	6	7	7	8	8	9
Social security benefits	3	7	5	5	5	5	5
Disabled	5	5	4	4	3	4	3
Unemployment	0	1	1	1	1	1	1
Student	0	2	1	1	2	1	1
Households sorted by configuration							
One person household	19	31	35	33	36	36	38
Couple without children	26	25	29	29	29	29	28
Couple, with children	46	36	29	30	27	28	26
One parent household	6	7	7	6	7	7	7
Multiple person household, misc.	3	1	1	2	1	1	1
Persons sorted by migration background							
Netherlands		81	83	83	80	80	77
Non-western country, 1st generation		3	7	7	8	8	9
Misc. western country, 1st generation		3	4	4	5	5	6
Misc. western country, 2nd generation		5	5	5	5	5	5
Non-western country, 2nd generation		0	1	1	2	2	3
Unknown		7	0	0	0	0	0

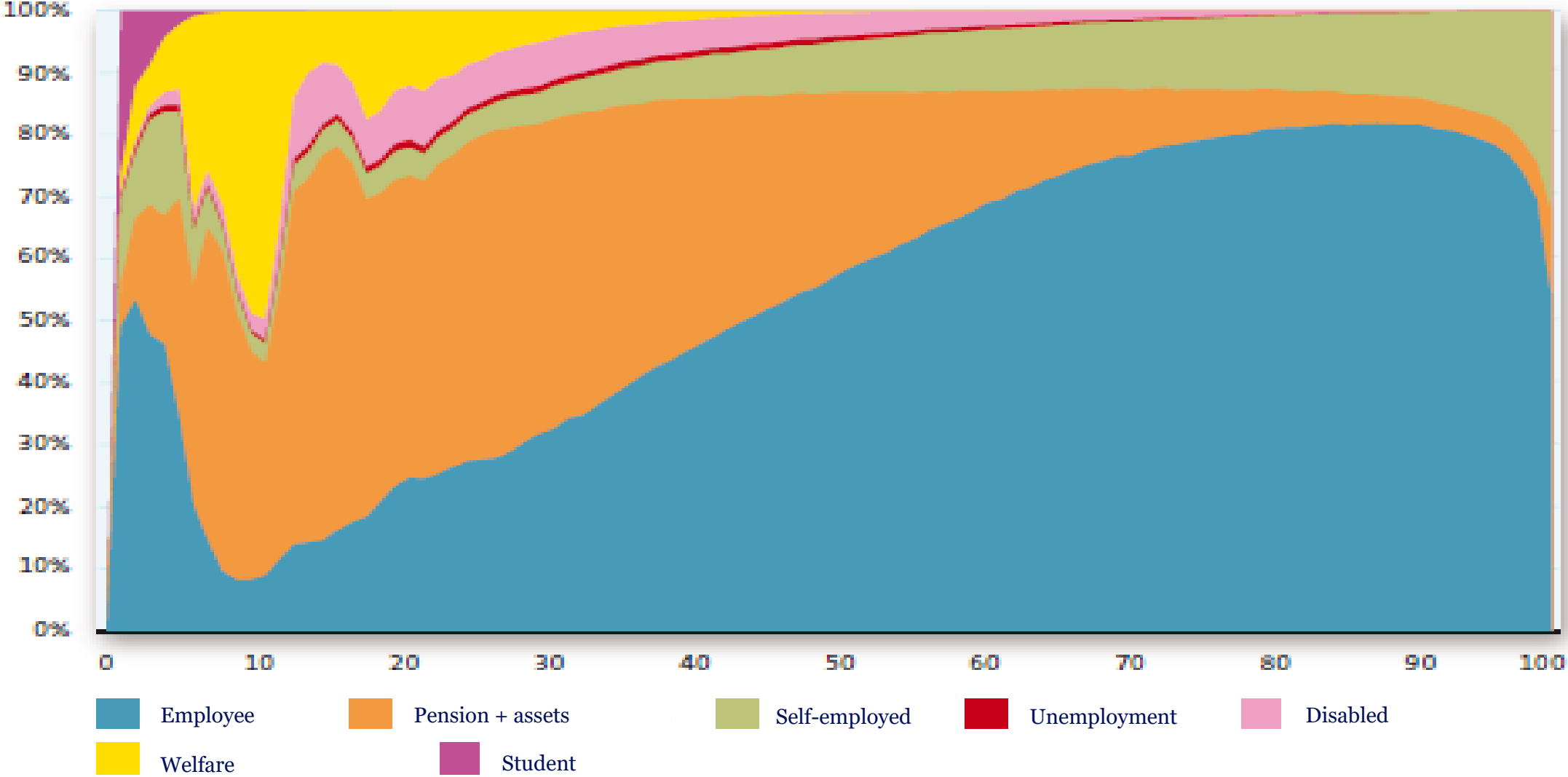
2.4.7 Sole earners, 1977-2019* (%)



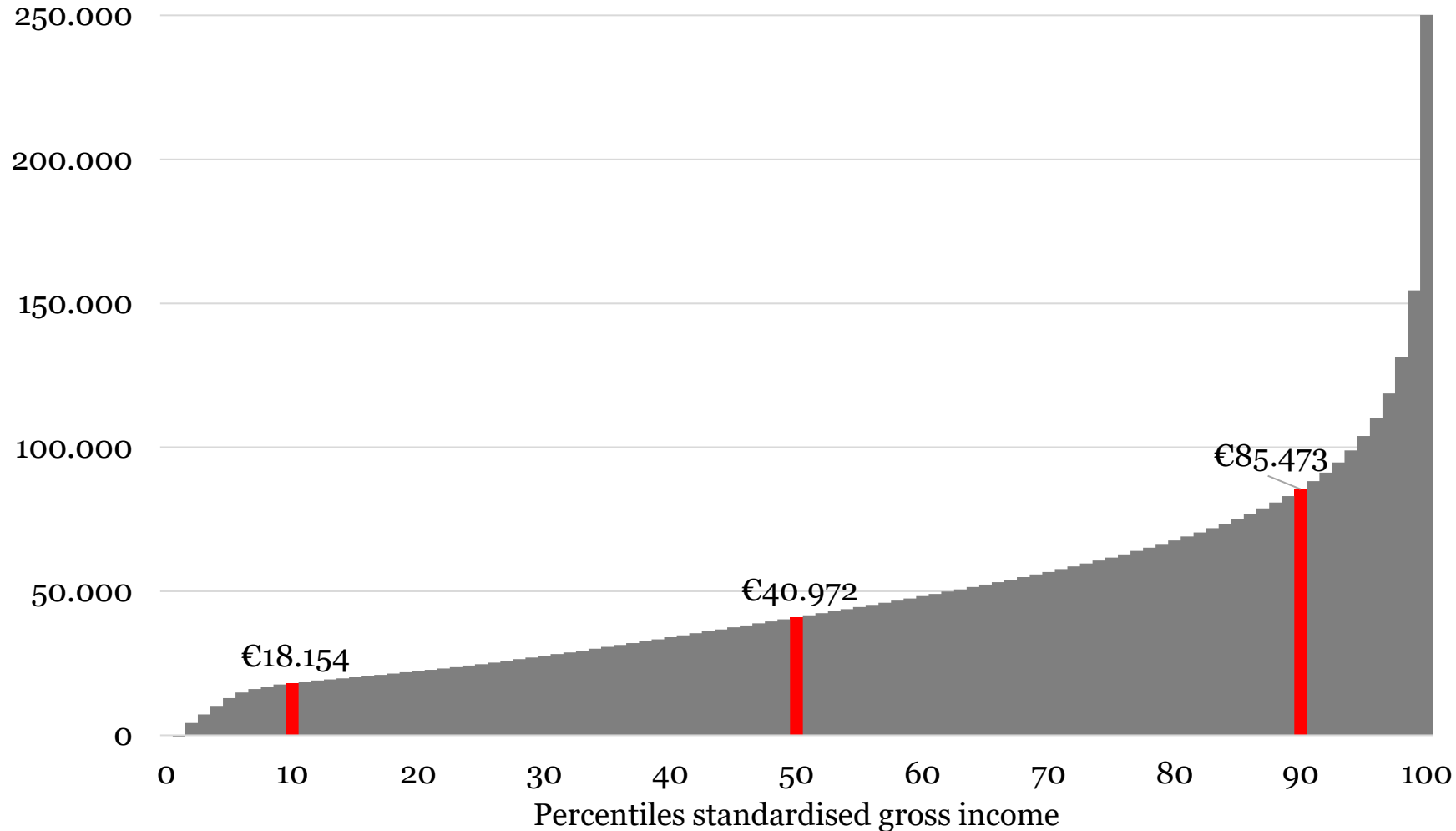
2.4.2 Income share gross income, male and female, 1977-2019* (%)



2.3.1 Composition of percentiles 2019* (%)



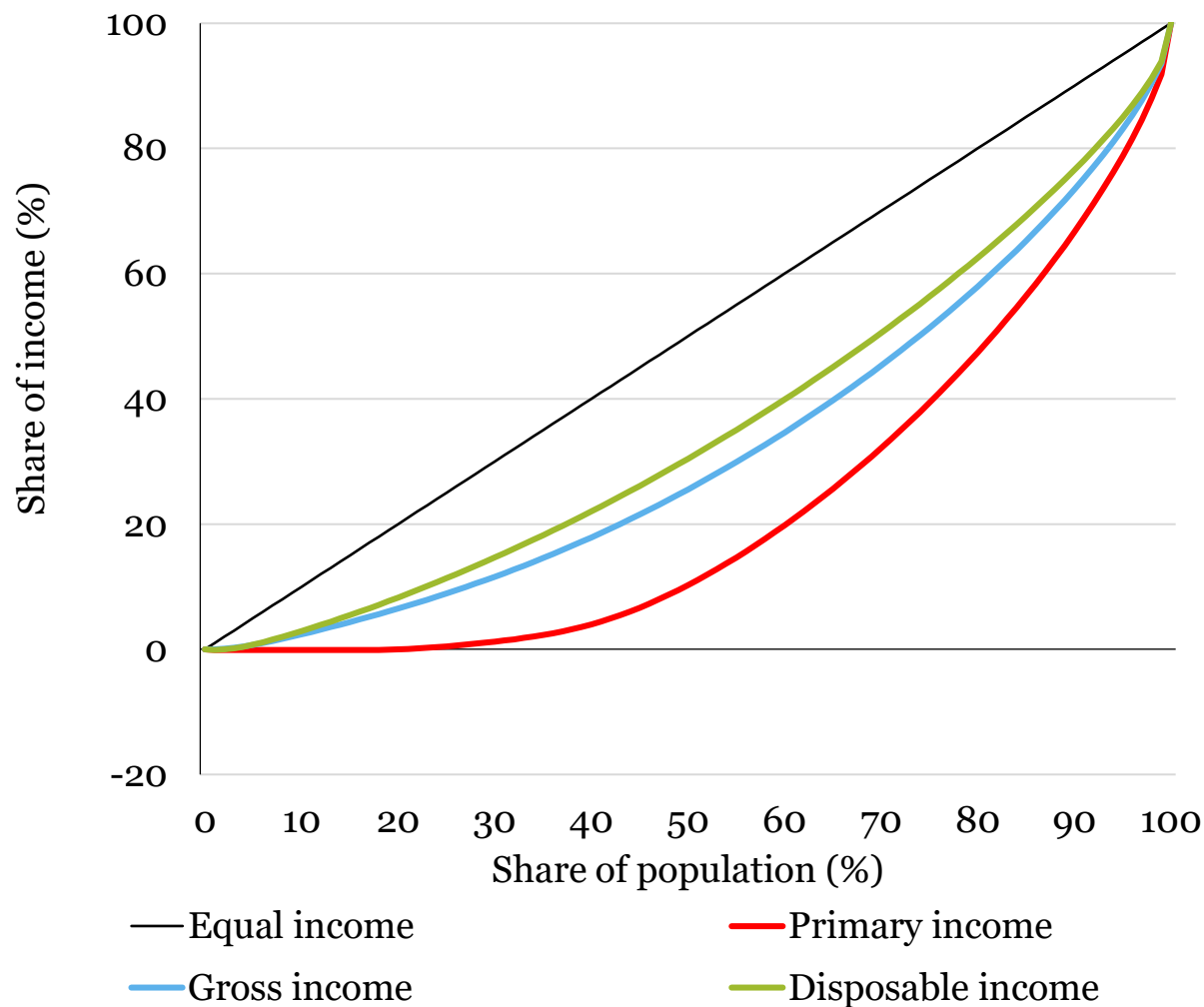
2.3.2 Level equivalized gross income per percentile, 2019*



Thresholds:

- P10 = 18.154 euro
- P50 = 40.972 euro
- P90 = 85.473 euro
- P99 = 320.191 euro

3.2.1 Lorenz curve equivalized income, 2019*



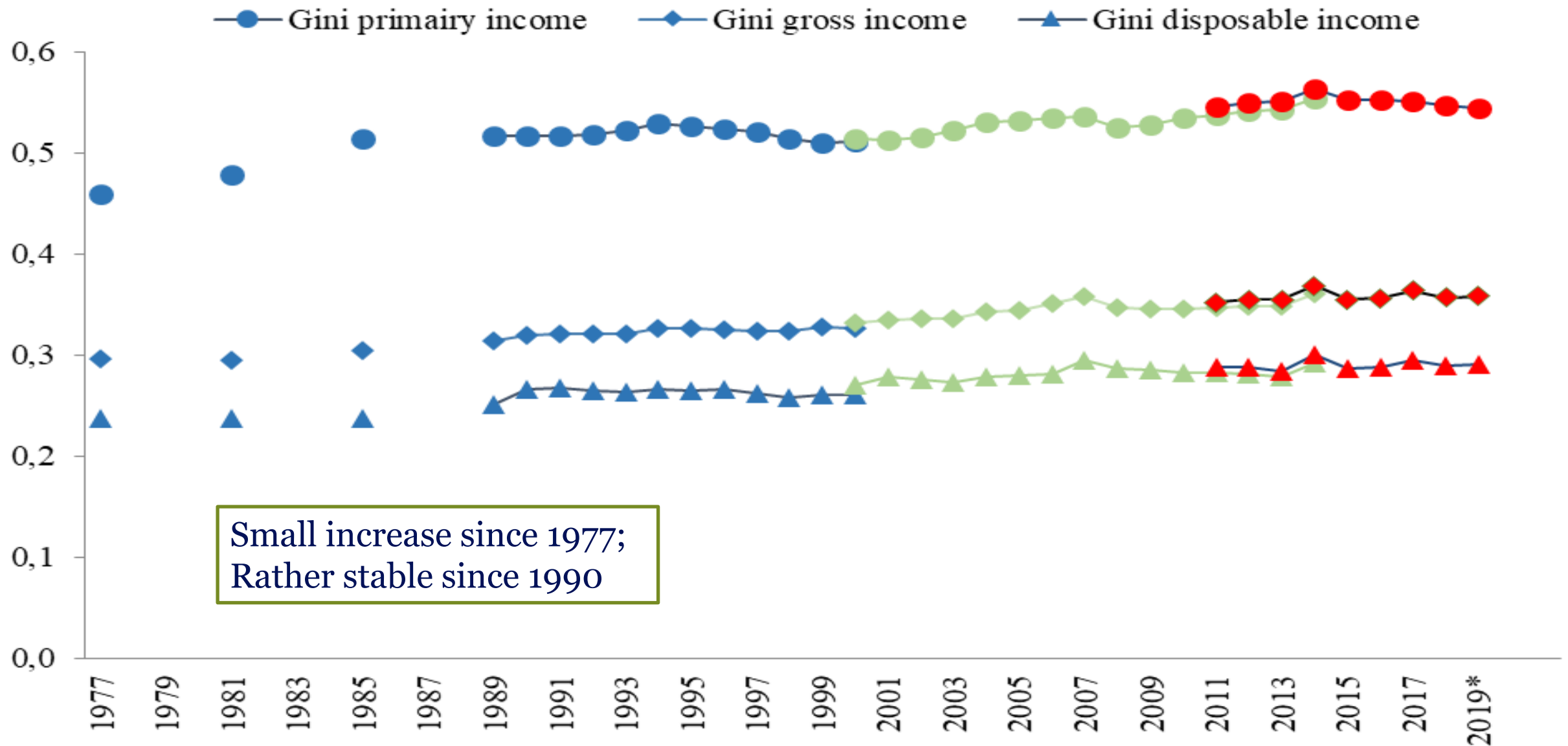
Income inequality and redistribution 2019*

Gini primary income (a)	0,544
-/- redistribution via social benefits (B1)	0,186
-/- redistribution via income tax (b2)	0,067
Gini disposable income (a-b1-b2)	0,291
Gini gross income (a-b1)	0,358
Absolute redistribution (b1+b2)	0,253
Relative distribution (b1+b2/a*100)	47%

Components redistribution (share %)

Public Old-Age pension benefits (AOW)	35%
Supplementary pension benefits	26%
Wage tax and income tax	16%
Disability benefits	6%
Welfare benefits	8%
Unemployment benefits	2%
Rent subsidy/benefit/government contribution own home	4%
Scholarship benefits and compensation study costs	1%
Illness benefits (ZW)	1%
Child benefits (kinderbijslag)	1%
AWW/ANW	0%
Other (premiums incl.)	2%

3.3.1 Income inequality and redistribution in the Netherlands, 1977-2019*

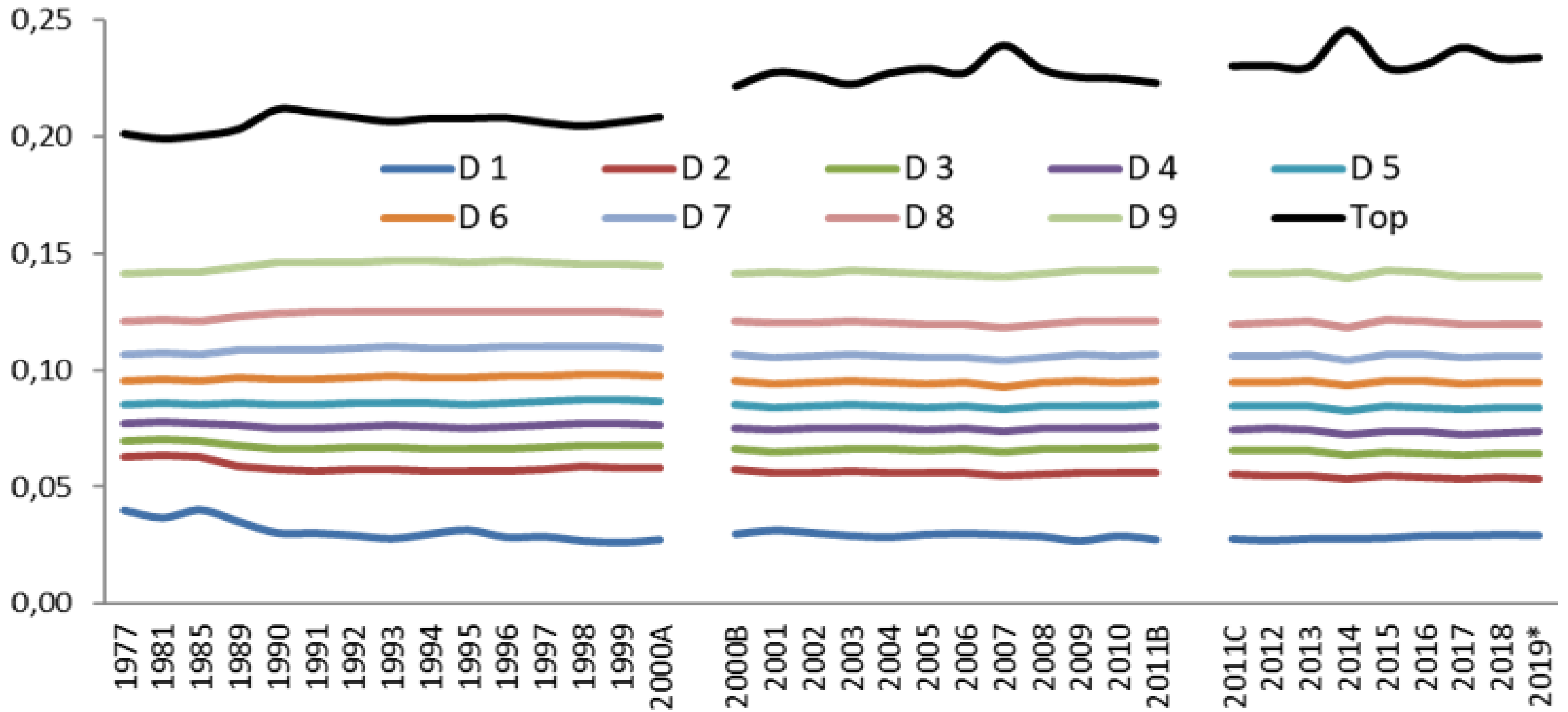


3.3.2 OLS regression trend Gini's and S80/S20, 1977-2019*

	Period 1977-2019				Period 1990-2019			
	Constant	X-var	Adj R ²	F test	Constant	X-var	Adj R ²	F test
Gini primary income (a)	0,480** (0,000)	0,0020** (0,000)	0,781	46,2 (0,000)	0,511** (0,000)	0,0012** (0,002)	0,739	33,0 (0,000)
Gini gross income (b)	0,295** (0,000)	0,0015** (0,000)	0,936	187,2 (0,000)	0,316** (0,000)	0,0012** (0,000)	0,903	106,2 (0,000)
Gini disposable income (c)	0,240** (0,000)	0,0011** (0,000)	0,852	73,9 (0,000)	0,261** (0,000)	0,0004 (0,099)	0,813	50,2 (0,000)
Absolute redistribution (a-c)	0,240** (0,000)	0,0009** (0,004)	0,285	6,1 (0,000)	0,250** (0,000)	0,0008* (0,012)	0,389	8,2 (0,000)
Redistribution via social benefits (a-b)	0,185** (0,000)	0,0005* (0,045)	0,214	4,5 (0,000)	0,195** (0,000)	0,0001 (0,843)	0,336	6,7 (0,000)
Redistribution via income tax (b-c)	0,055** (0,000)	0,0003** (0,006)	0,405	9,6 (0,000)	0,056** (0,000)	0,0007** (0,000)	0,620	19,5 (0,000)
S80/S20 gross income	4,7** (0,000)	0,046** (0,000)	0,922	150,9 (0,000)	5,4** (0,000)	0,035** (0,000)	0,878	82,2 (0,000)
S80/S20 disposable income	3,4** (0,000)	0,033** (0,000)	0,844	69,8 (0,000)	4,0** (0,000)	0,014** (0,013)	0,845	62,7 (0,000)

OLS-regression. P-value between brackets: **p-value <0,01 and *p-value <0,05. Dummies for trend breaks

3.3.3 Share equivalized disposable income per decile group, 1977-2019*



3.3.4 Income inequality and income redistribution in the Netherlands, 1977-2019*

	A-reeks				B-reeks		C-reeks	
	1977	1985	1990	2000	2000	2011	2011	2019*
Gini primary income (a)	0,459	0,514	0,516	0,511	0,514	0,537	0,545	0,544
-/-Redistribution via social benefits (a-b)	0,163	0,210	0,198	0,184	0,183	0,191	0,193	0,186
Gini gross income (b)	0,296	0,304	0,319	0,326	0,331	0,346	0,352	0,358
-/-redistribution via income taxes (b-c)	0,059	0,067	0,052	0,066	0,062	0,064	0,064	0,067
Gini disposable income (c)	0,238	0,237	0,266	0,260	0,270	0,282	0,288	0,291
Absolute redistribution (a-c)	0,221	0,277	0,250	0,250	0,244	0,255	0,257	0,253
Relative redistribution: (a-c)/a*100	48%	54%	48%	49%	47%	47%	47%	47%
Components redistribution (share%)								
Public Old-Age benefits (AOW)	35%	28%	30%	30%	30%	34%	34%	35%
Supplementary benefits	15%	17%	19%	23%	24%	27%	27%	26%
Wages and income tax	16%	10%	11%	12%	12%	15%	15%	16%
Disability benefits	12%	11%	11%	8%	8%	7%	7%	6%
Welfare benefits	8%	16%	12%	8%	8%	7%	8%	8%
Unemployment benefits	1%	1%	3%	2%	2%	3%	3%	2%
Rent subsidy/benefit/contribution own home	1%	2%	2%	3%	3%	3%	3%	4%
Scholarship benefits and compensation study costs	0%	1%	3%	2%	1%	2%	2%	1%
Child benefits (kinderbijslag)	3%	3%	2%	1%	1%	1%	1%	1%
AWW/ANW	4%	3%	3%	2%	2%	1%	1%	0%
Other (premiums included)	4%	7%	4%	9%	7%	1%	0%	3%

Rather stable income distribution and redistribution

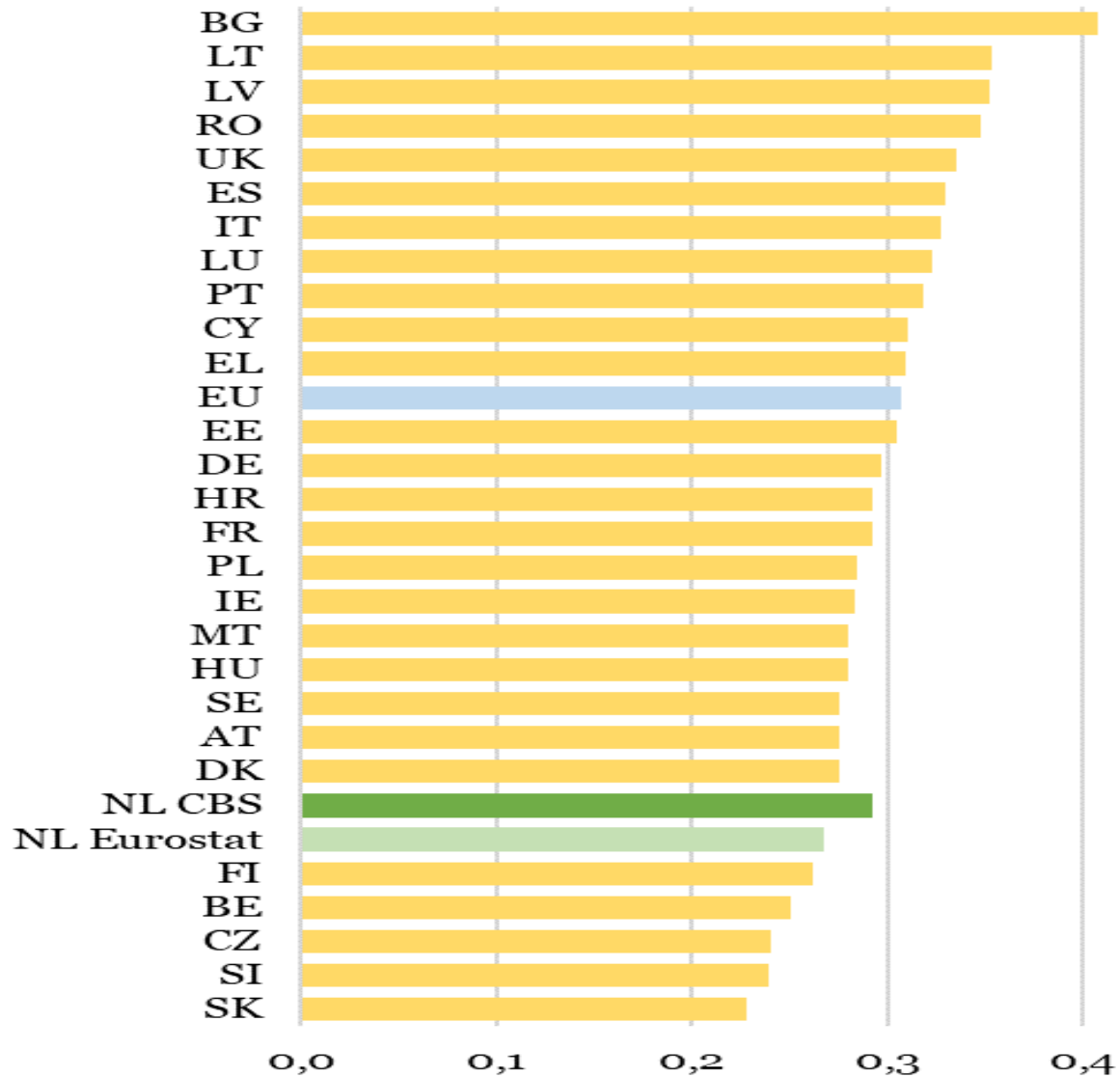
Peak of redistribution: 1985

Onwards:

Increase:
PAYG pensions /
supplementary pensions

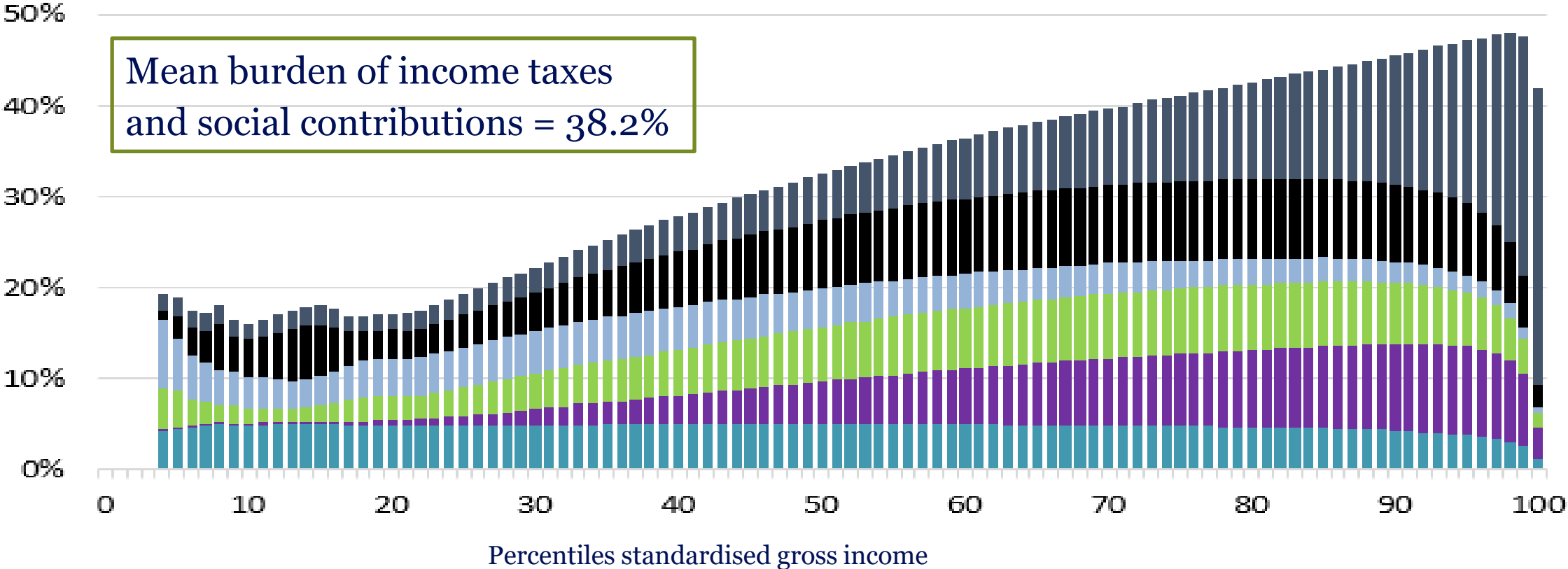
Decrease:
Unemployment benefits and
disability benefits

3.4.1 Gini Coefficient equivalized disposable income, 2019



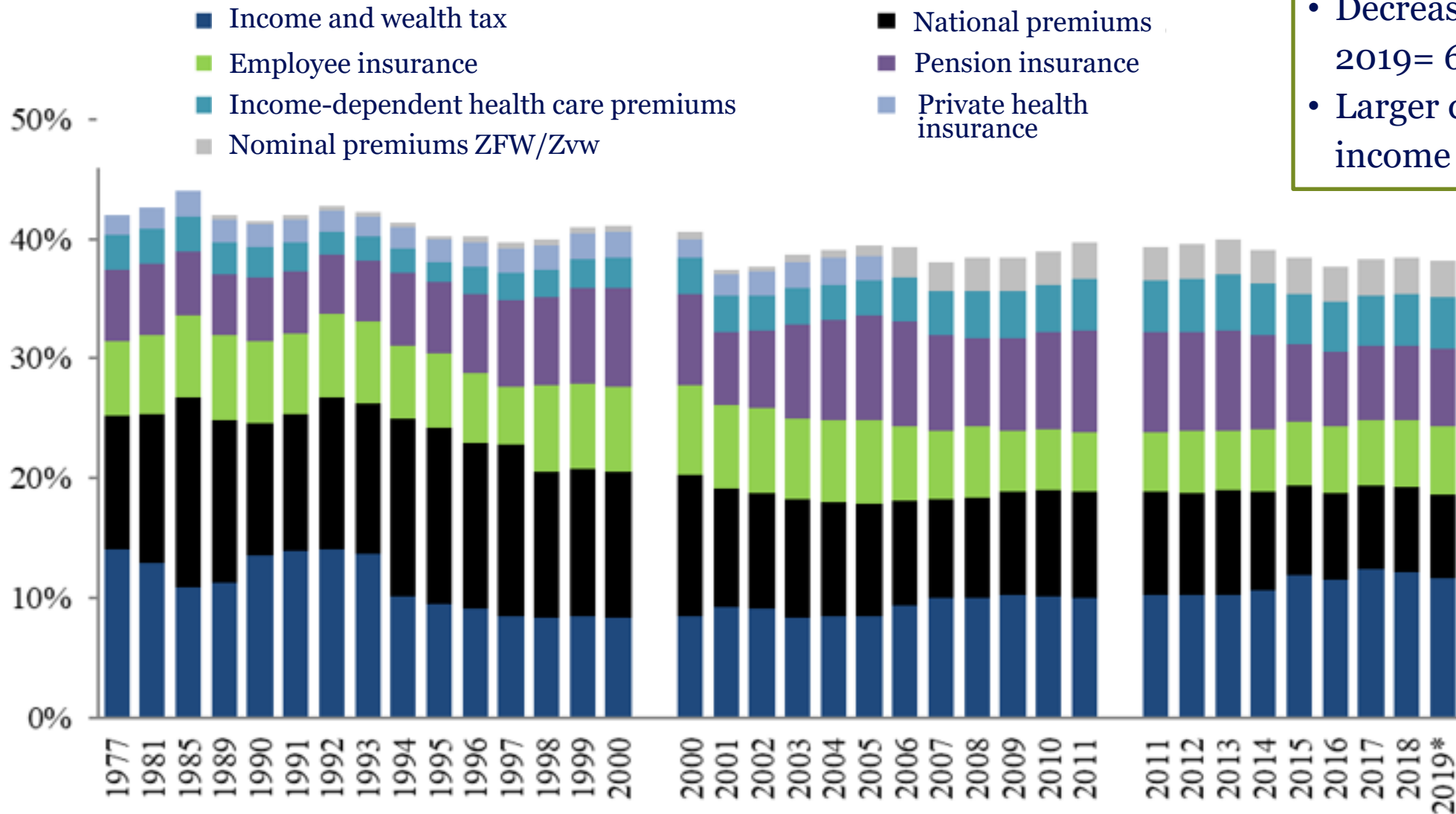
- Dutch income inequality rather low
- Dutch redistribution around EU mean
- No clear trend of income inequality in EU since 1995
- Convergence EU15 1995-2019

4.2.2 Composition mean tax burden per percentile gross income, 2019*



- Income-related premiums health care
- Employee insurance
- National insurance
- Pension insurance
- Private health insurance/ Zvw
- Income and wealth tax

4.3.1 Trend level and composition of levies on income, 1977-2019*



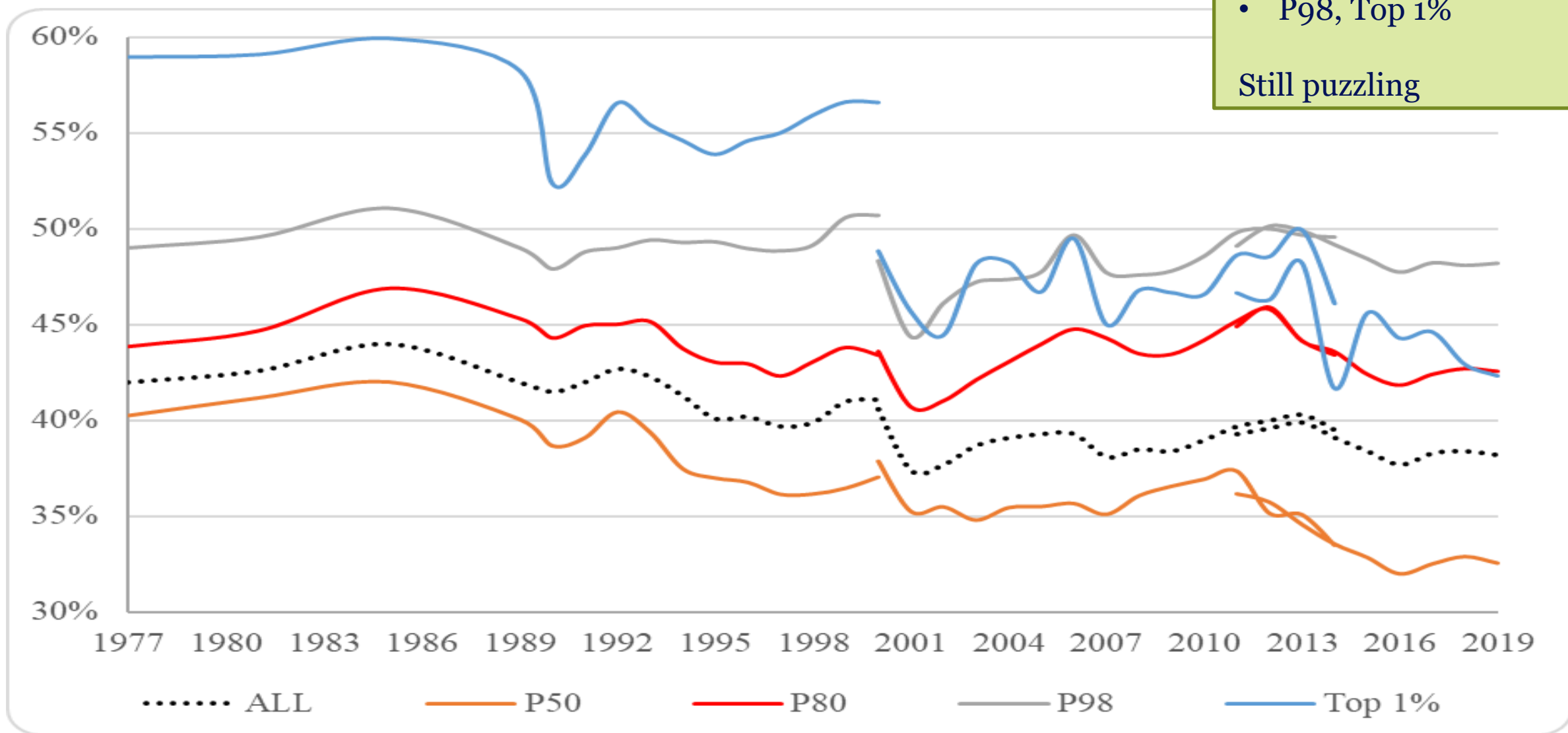
- Decrease tax burden 1985-2019= 6%-points
- Larger decrease for lower income groups

Tax burden per percentile (top 1%, P98, p80, p50)

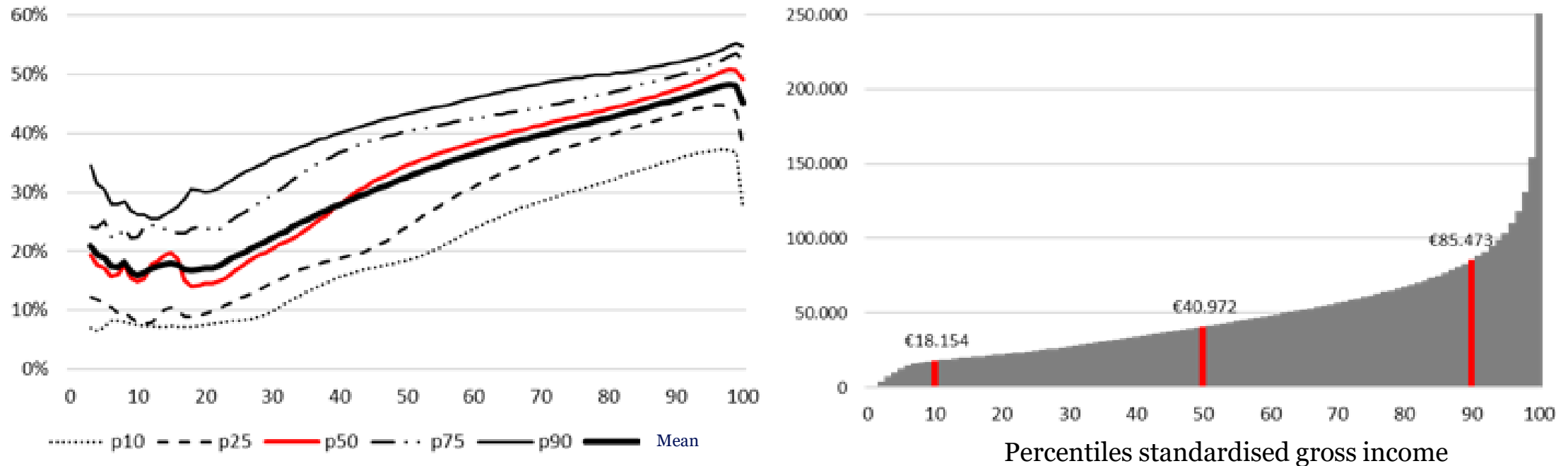
Repair breaks series:

- P50, p80, ALL
- P98, Top 1%

Still puzzling

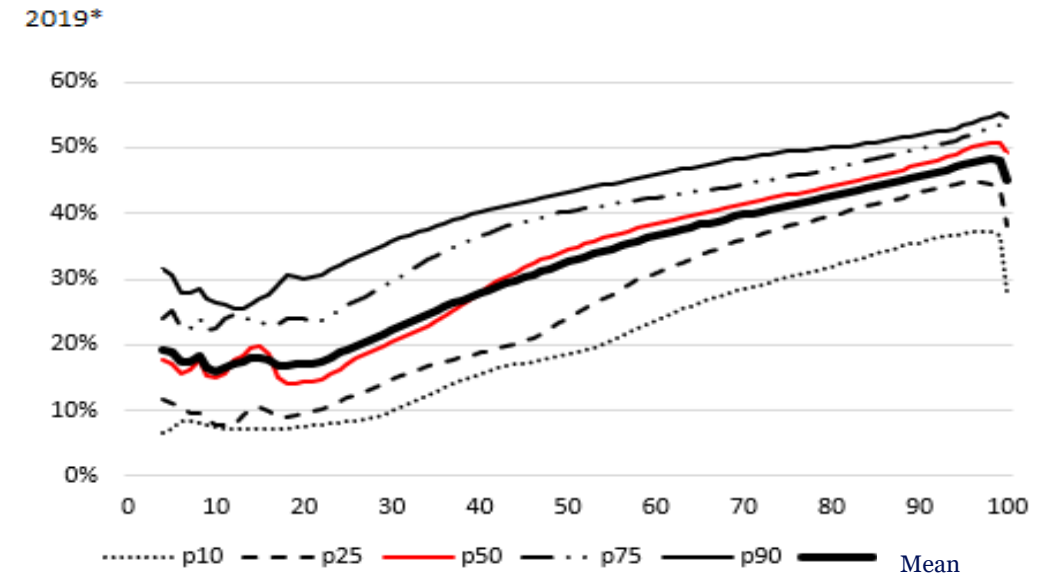
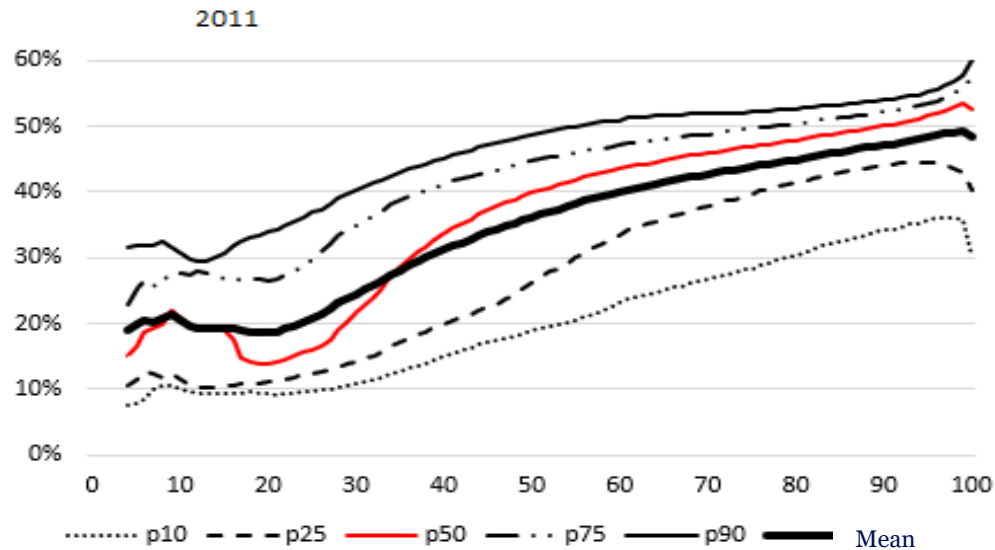
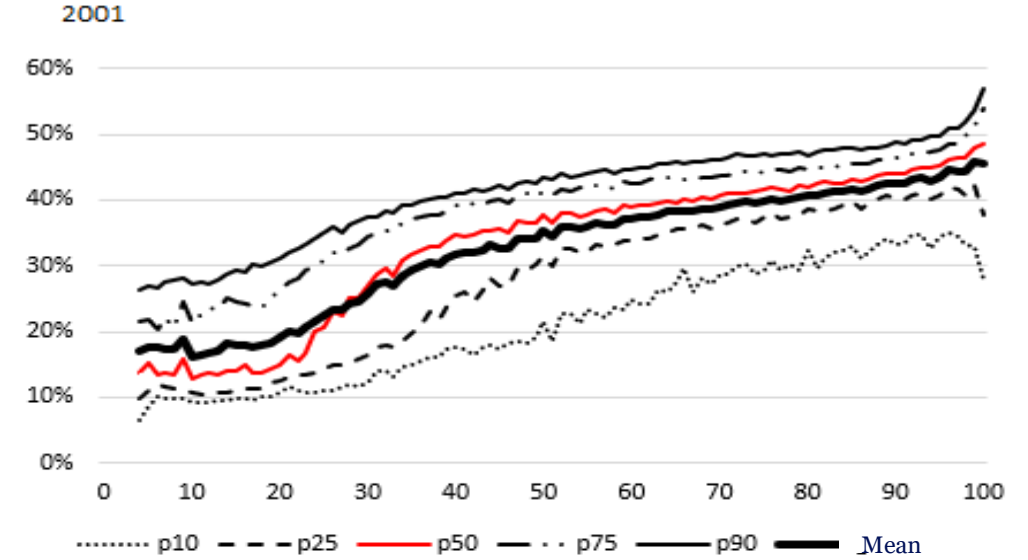
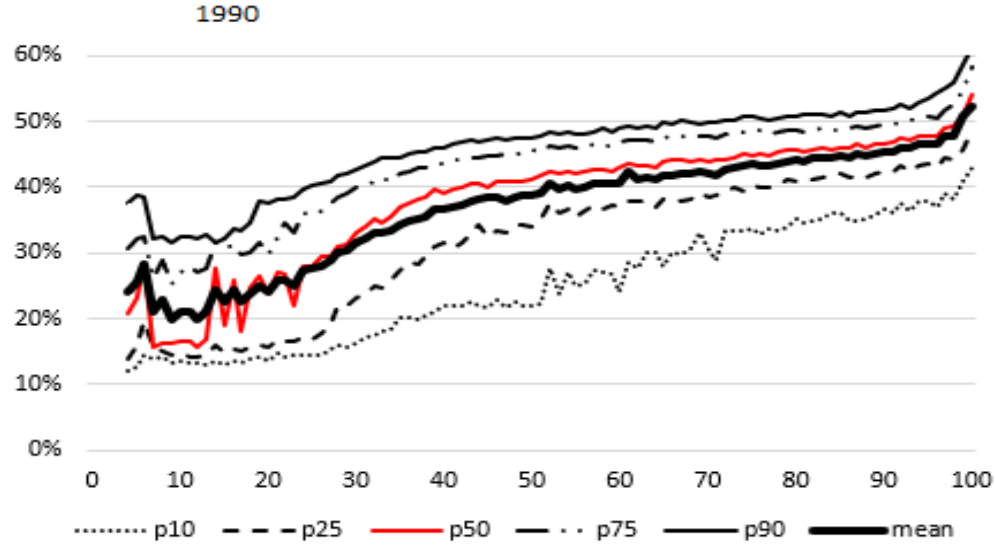


4.4.1 Heterogeneity tax burden (left) and income level per percentile (right), 2019*

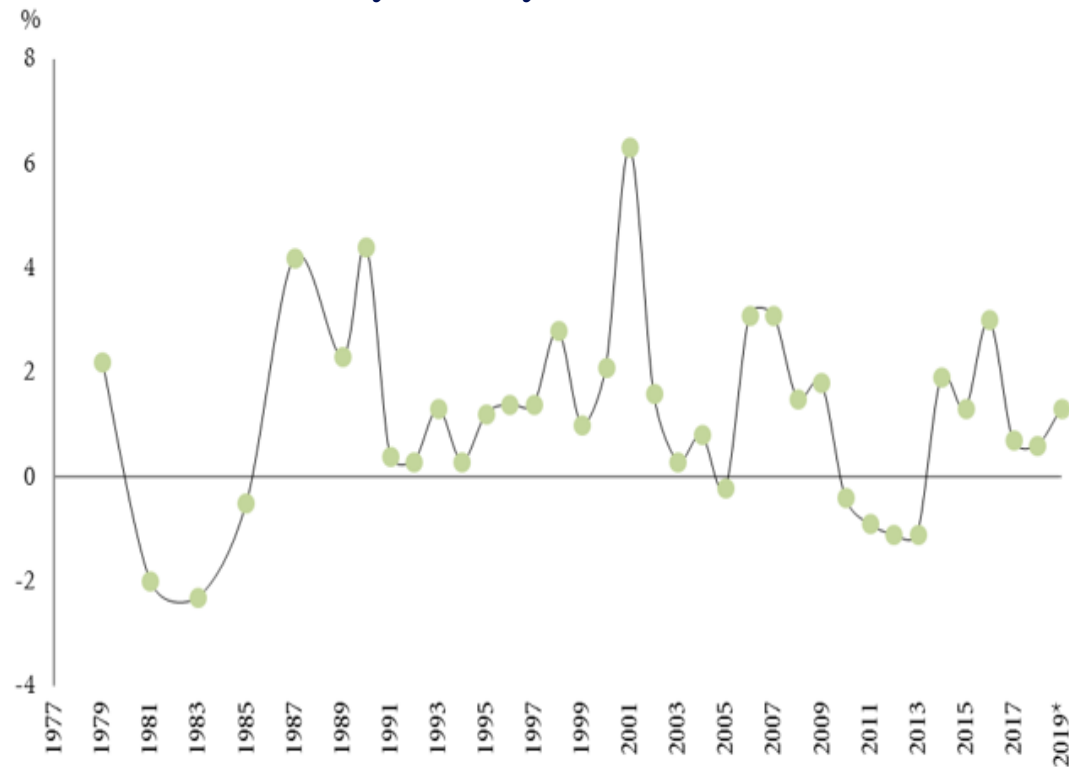


- Median tax burden: 33.7%, much variation around the mean.
- 50th percentile: 10% of households tax < 18.5% (p10)
- 50th percentile: 10% of households tax burden > 43.3% (p90)
- Same level of gross income → variation in income taxes and social premiums of 10.158 euros (43.8% minus 18.5% of 40.972 euros).

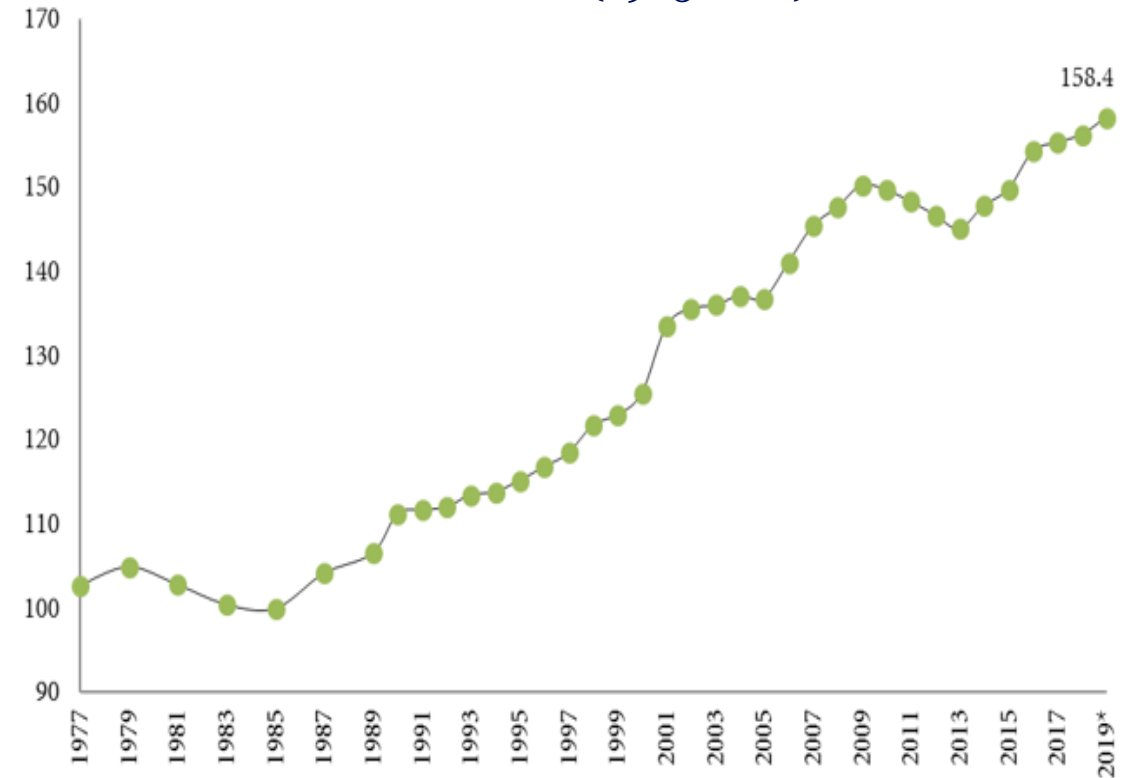
4.4.2 Trend heterogeneity distribution of the tax burden, 1990-2019*



5.3.1 Trend dynamic purchasing power 1977-2019, year-to-year



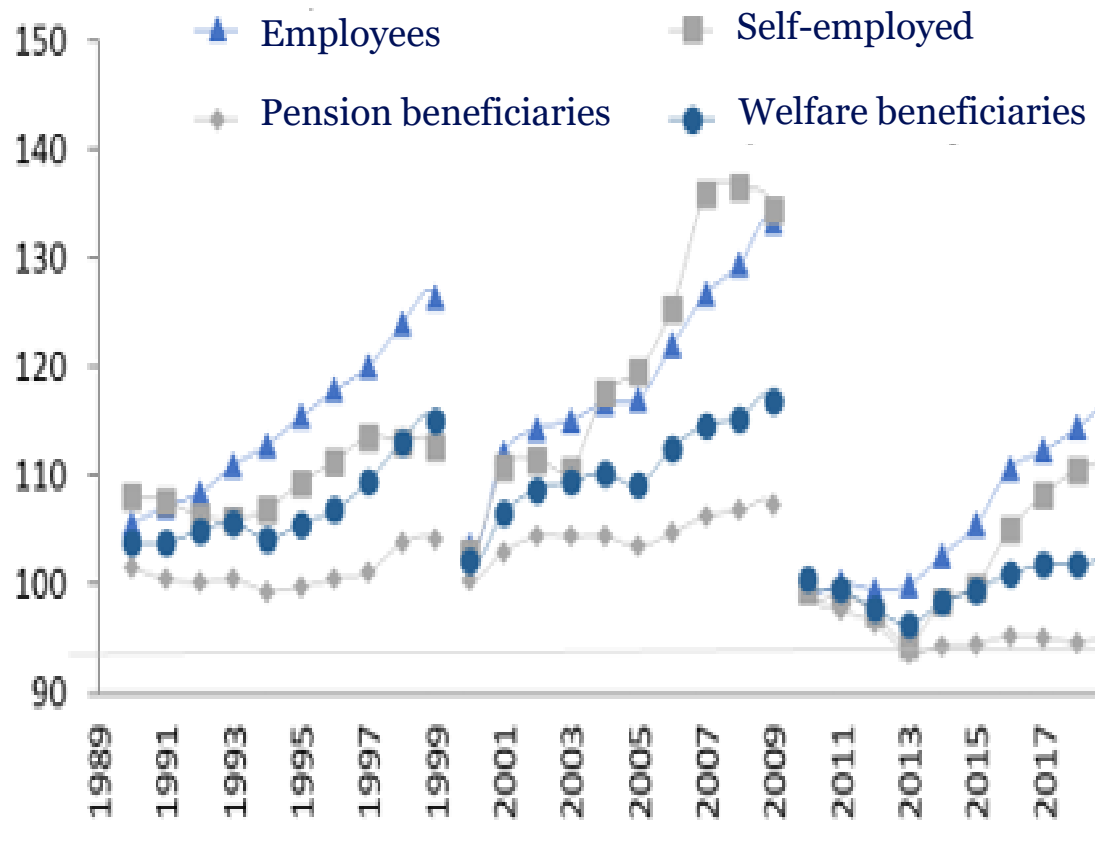
5.4.1 Trend dynamic purchasing power 1977-2019, cumulative (1985=100)



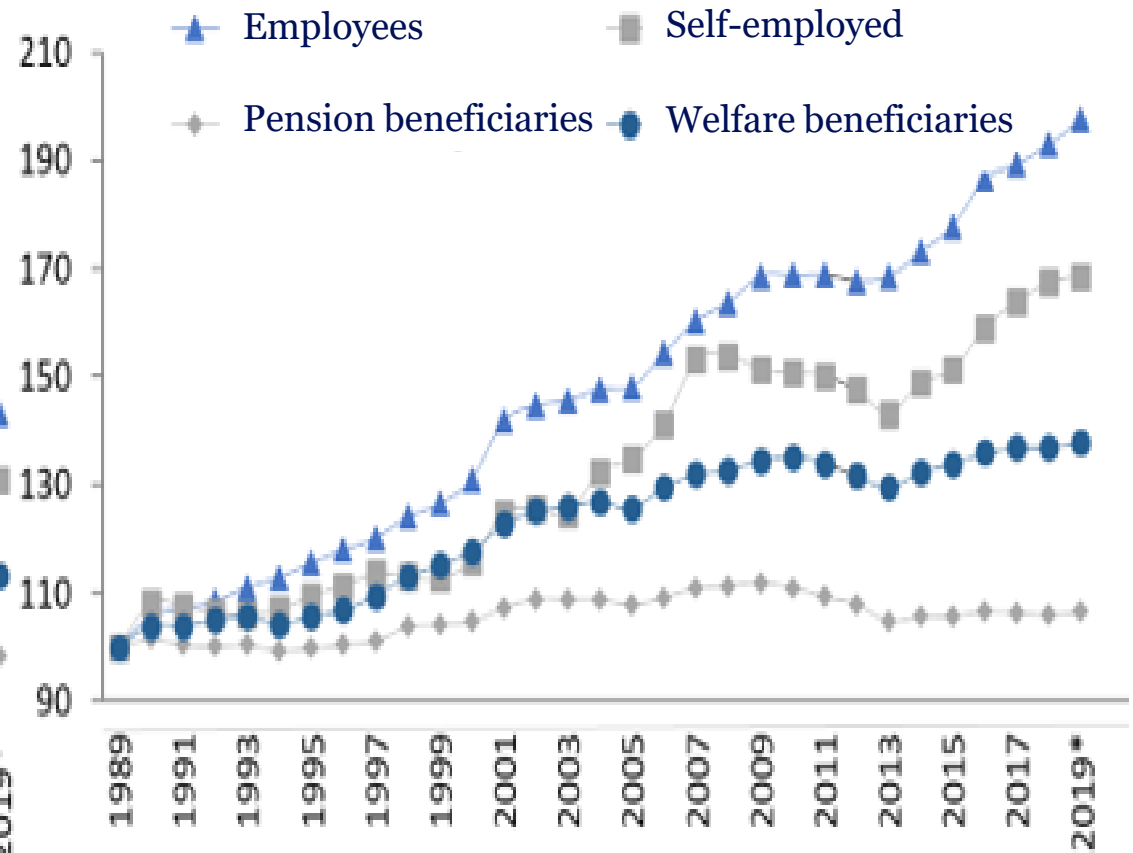
- Trend dynamic purchasing power takes into account all factors (e.g. lost of jobs, divorce)
- Purchasing power has risen since 1977, with exceptions for economic crises in 1979-1985 and 2009-2013
- Trend purchasing power most positive for working population and households with children

5.5.2 Trend dynamic purchasing power by main income source of households, 1989-2019

Cumulative per decade

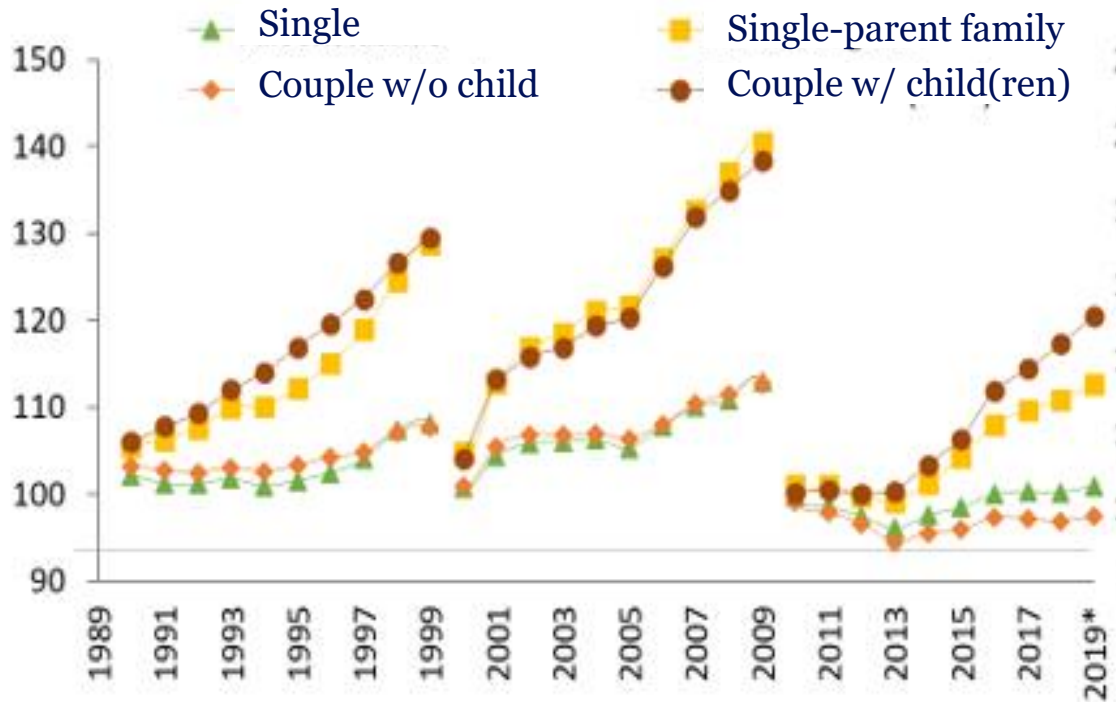


Cumulative since 1989

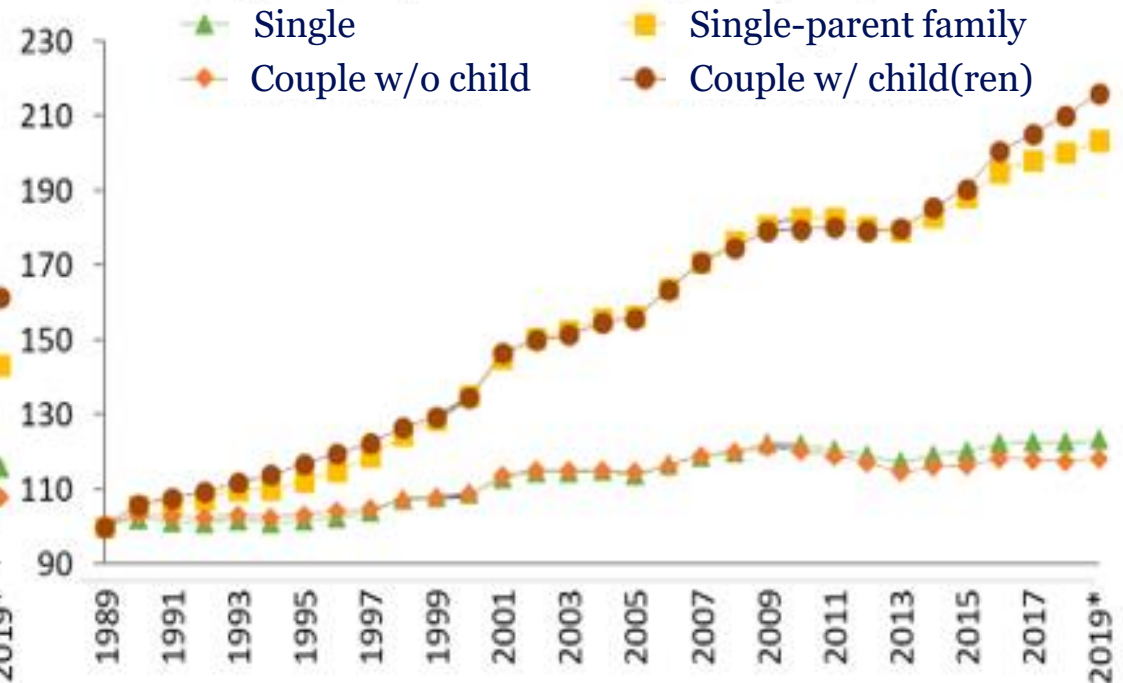


5.5.4 Dynamic development of purchasing power, by household composition, 1989-2019

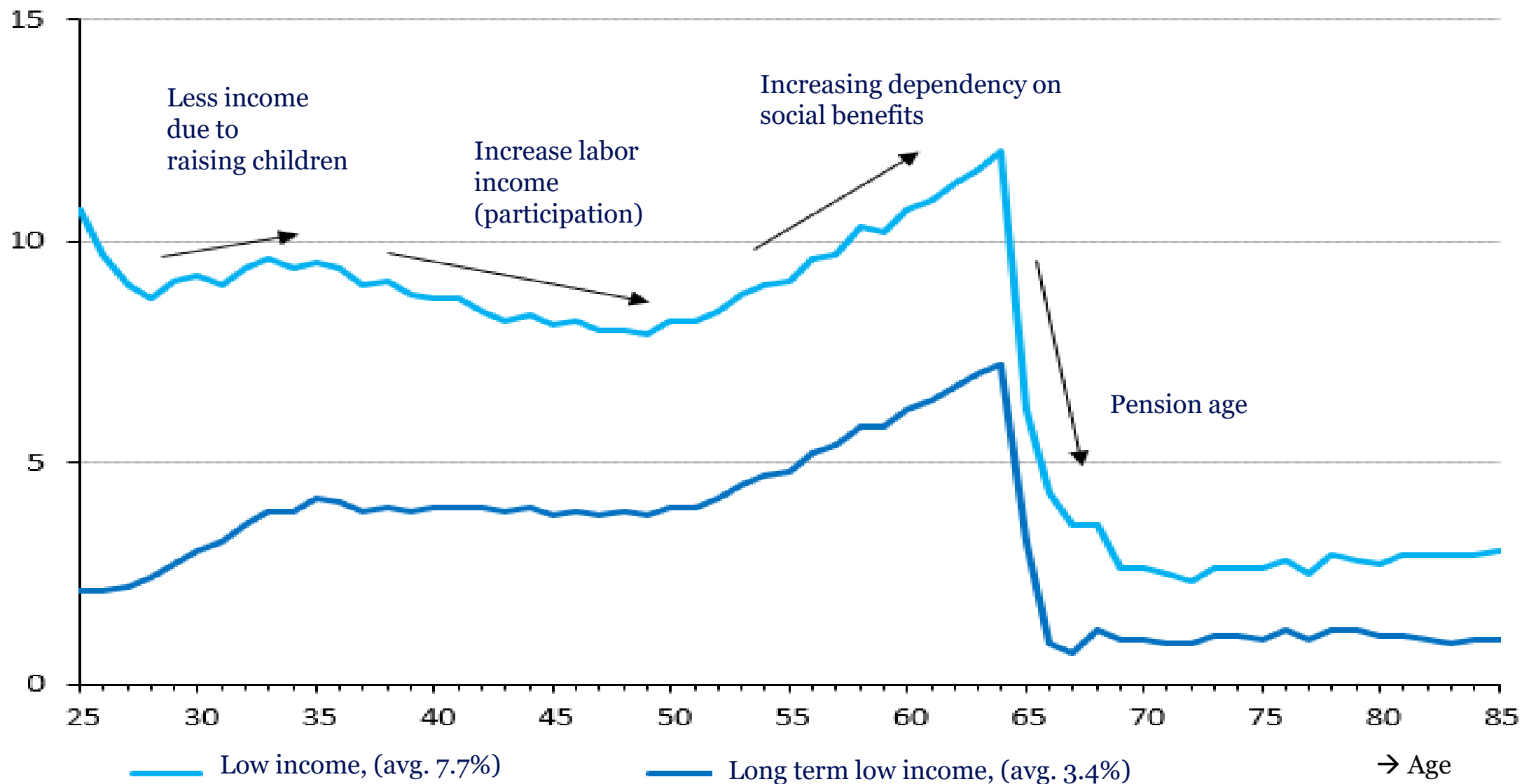
Cumulative per decade



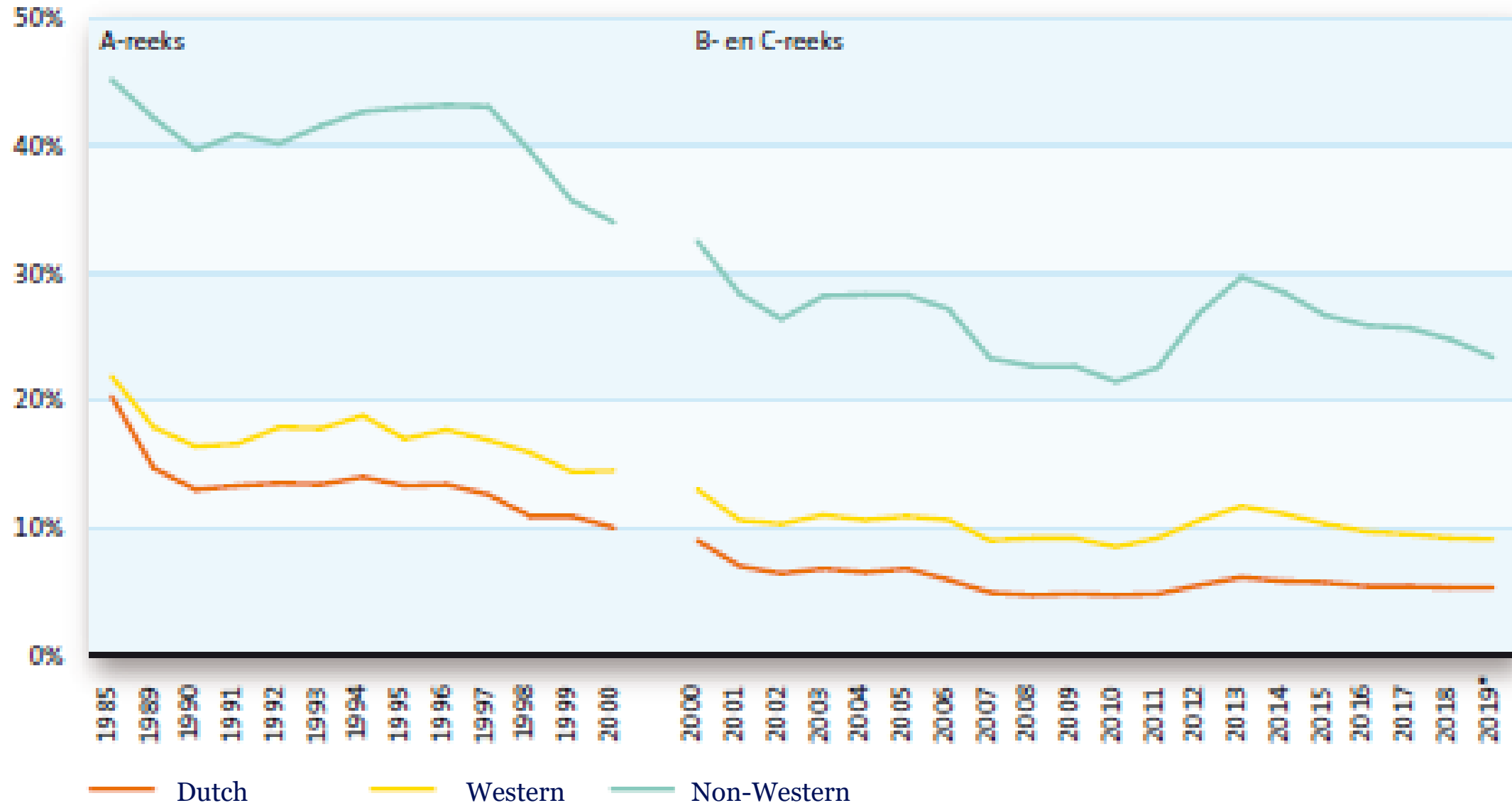
Cumulative since 1989



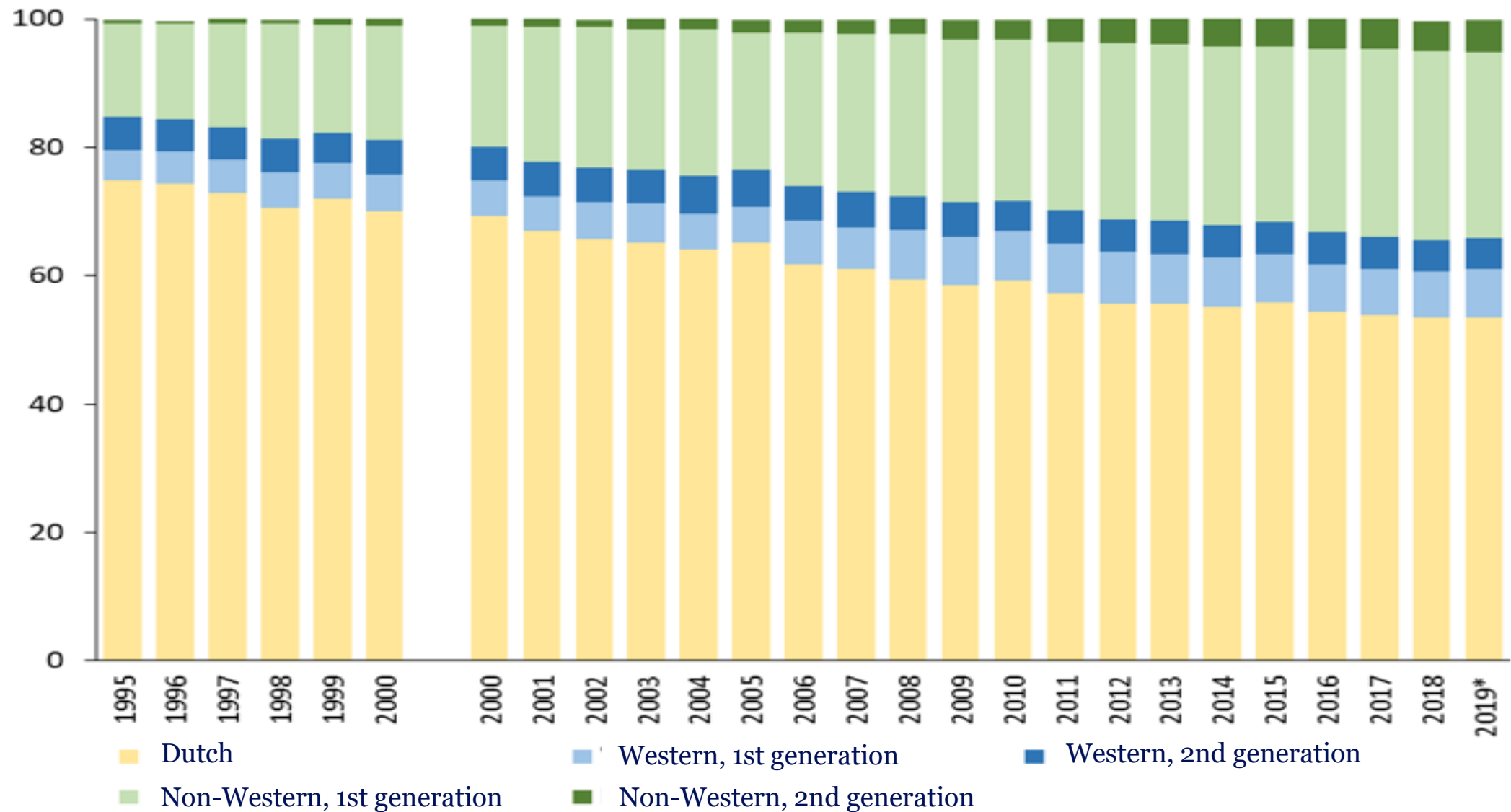
6.2.2 Households with (long term) low income, by age of sole earner, 2019*



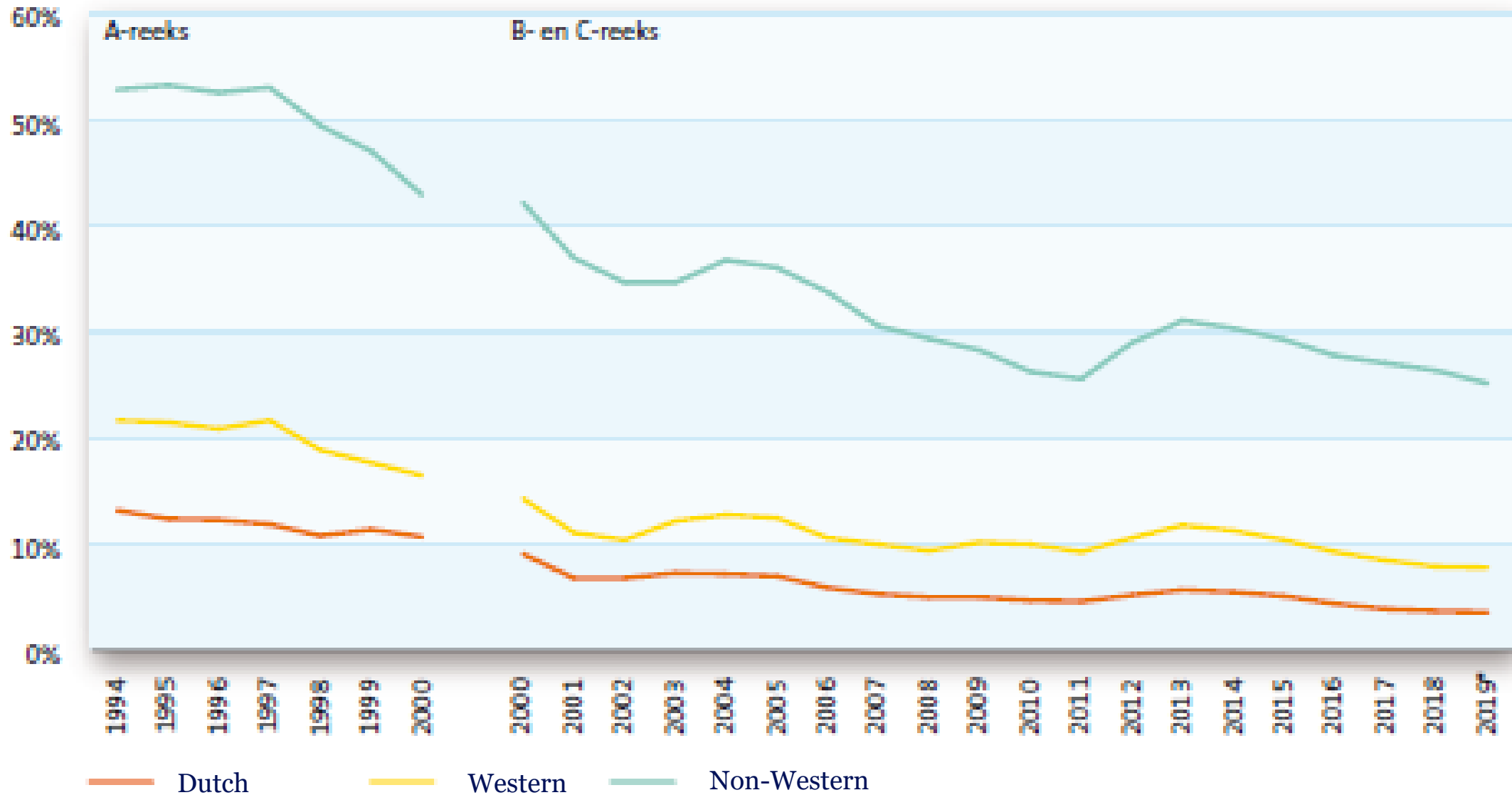
6.4.3 Households with low income by migration background, 1995-2019*



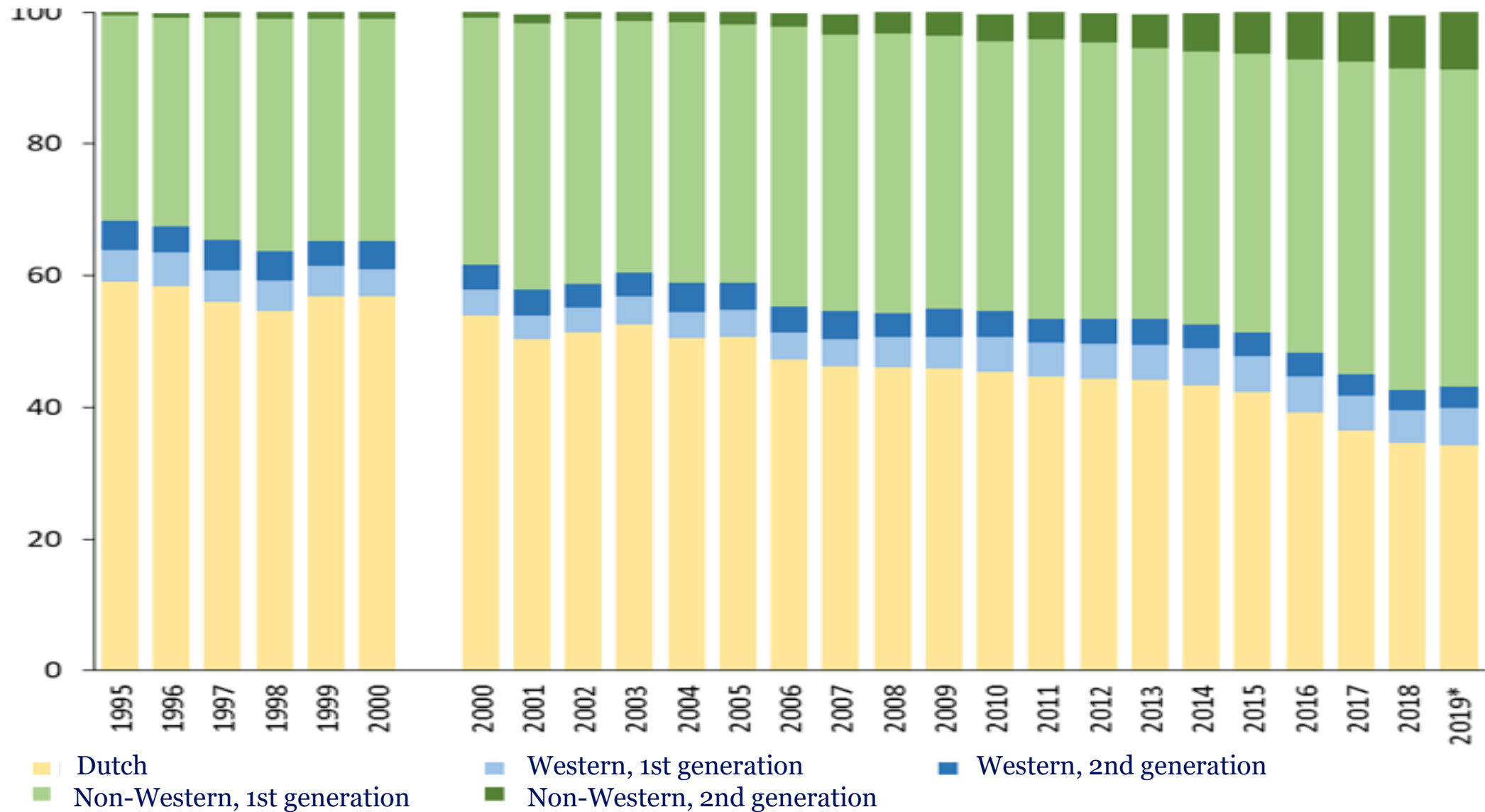
6.4.4 Households with low income, by migration background, 1995-2019*



6.5.3 Minors < 18 years at risk of poverty by migration background, 1995-2019* (%)



6.5.4 Minors at risk of poverty by migration background, 1995-2019*

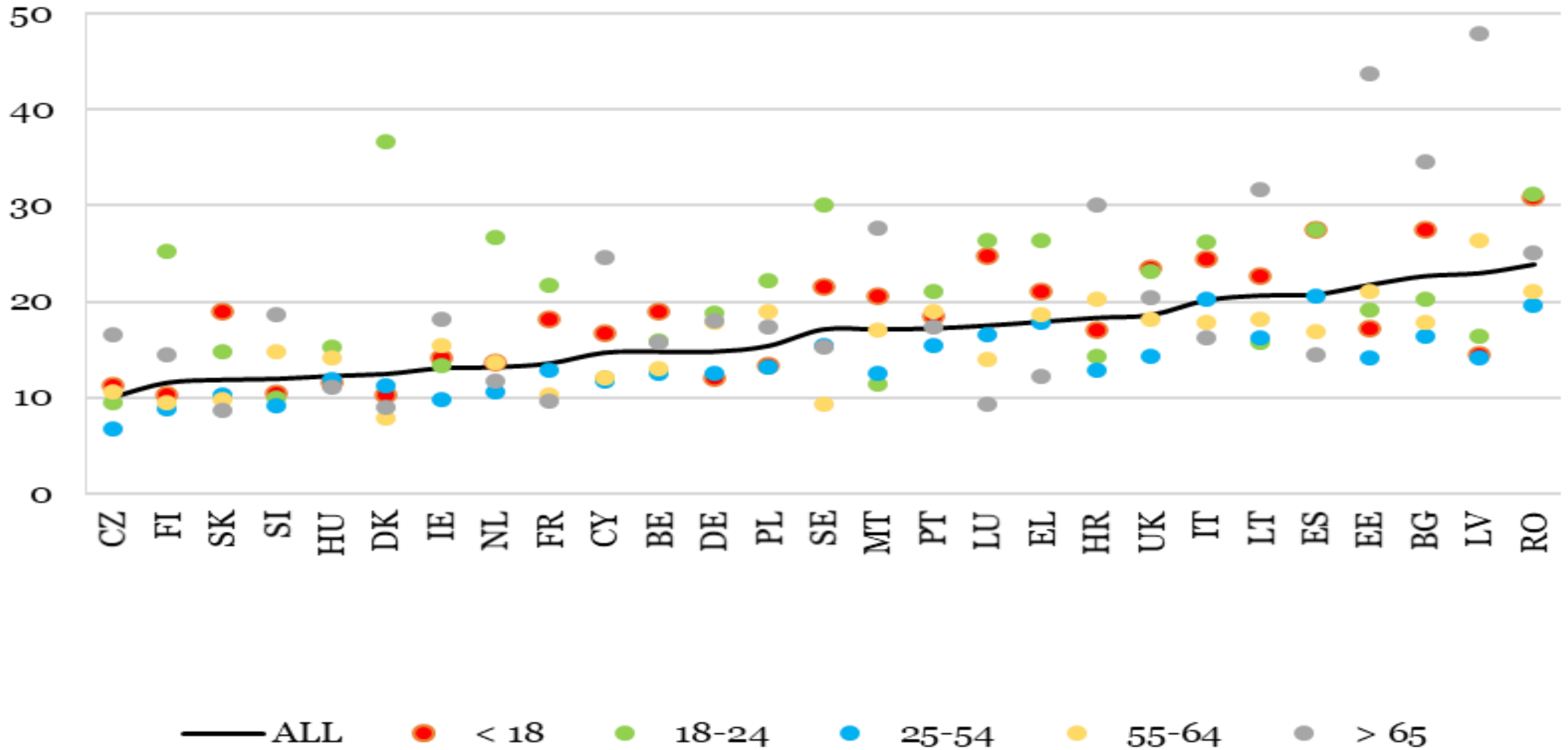


6.4.5 Relative risk at poverty households (long term low income), 2019*

	All households (7.5 million)	With minors (3.1 million)
No migration background (= 1)	1,0	1,0
Romania	1,4	1,8
Bulgaria	1,8	2,8
Suriname (2nd generation)	1,3	3,8
Turkey (2nd generation)	1,5	4,5
Netherlands Antilles (2nd gen.)	1,6	5,5
Iran	5,2	7,8
Morocco (2nd generation)	2,7	9,3
Afghanistan	4,8	13,4
Eritrea	5,5	15,8
Iraq	5,8	16,1
Somalia	5,6	17,2
Syria	7,1	24,0

Adjusted for differences in education level and age of main bread winner.

6.6.1 At risk of poverty in the EU, 2019



6.6.2 Share of population lifted out of poverty via income taxes and social benefits, 2019

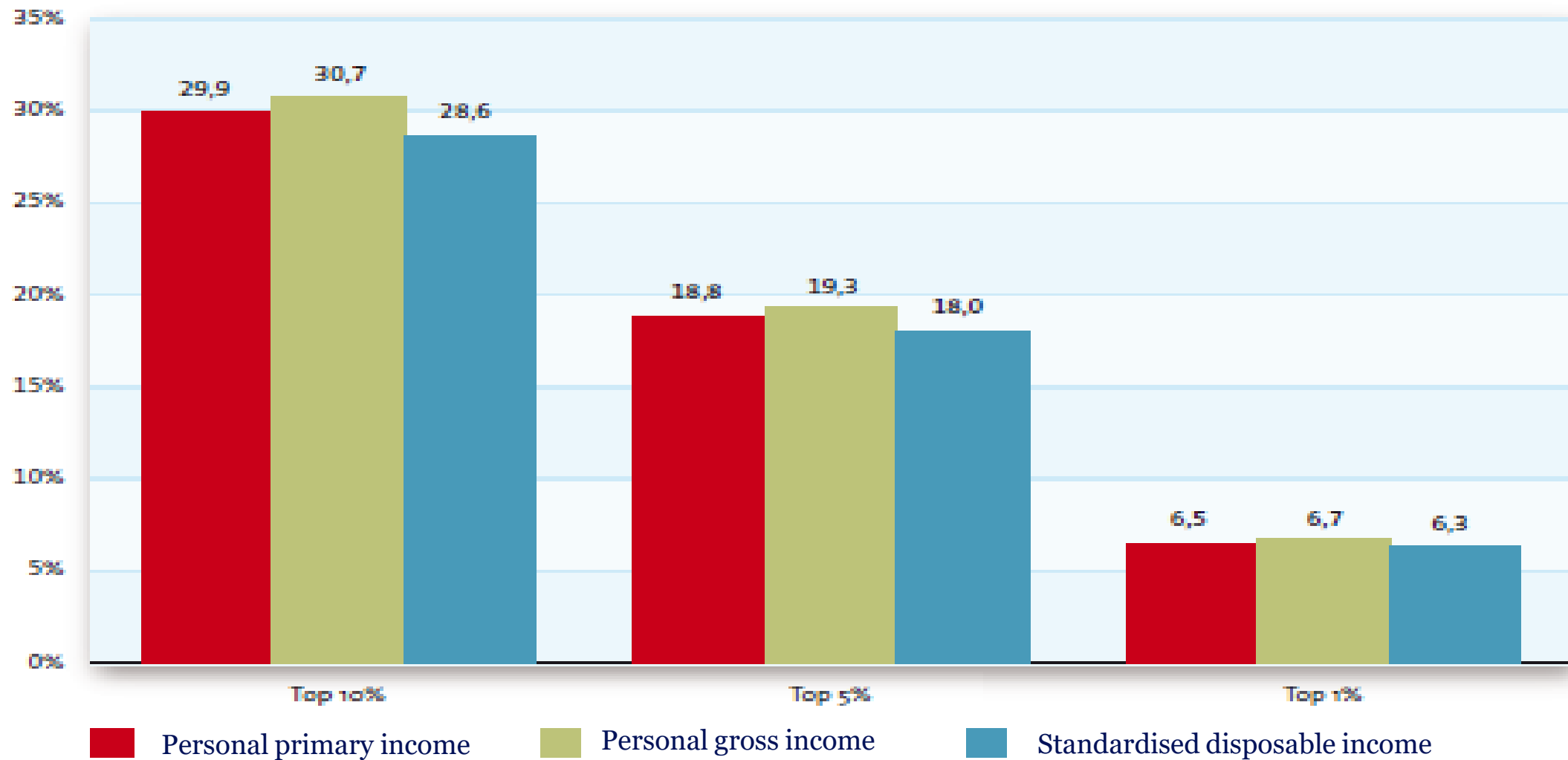
Above EU-average

	AROP market income (%)	AROP disposable income (%)	Lifted out of poverty (%)
IE	31,0	13,1	17,9
FI	25,2	11,6	13,6
AT	26,2	13,3	12,9
SE	28,9	17,1	11,8
DK	23,7	12,5	11,2
BE	25,4	14,8	10,6
UK	29,1	18,6	10,5
SK	22,0	12,0	10,0
FR	23,5	13,6	9,9
LT	30,1	20,6	9,5
LU	26,5	17,5	9,0
PL	24,4	15,4	9,0
EE	30,2	21,7	8,5
DE	23,2	14,8	8,4
EU-28	25,1	16,8	8,3

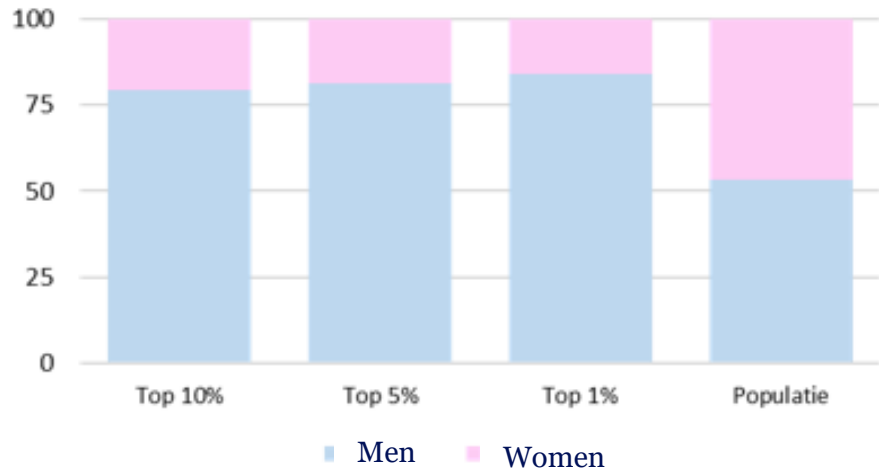
Below EU-average

	AROP market income (%)	AROP disposable income (%)	Lifted out of poverty (%)
NL	21,4	13,2	8,2
CY	22,7	14,7	8,0
HU	20,0	12,3	7,7
SI	19,2	11,9	7,3
BG	29,6	22,6	7,0
LV	29,9	22,9	7,0
CZ	16,6	10,1	6,5
ES	26,9	20,7	6,2
MT	23,2	17,1	6,1
HR	24,3	18,3	6,0
PT	22,7	17,2	5,5
EL	23,2	17,9	5,3
IT	25,2	20,1	5,1
RO	28,1	23,8	4,3
EU-28	25,1	16,8	8,3

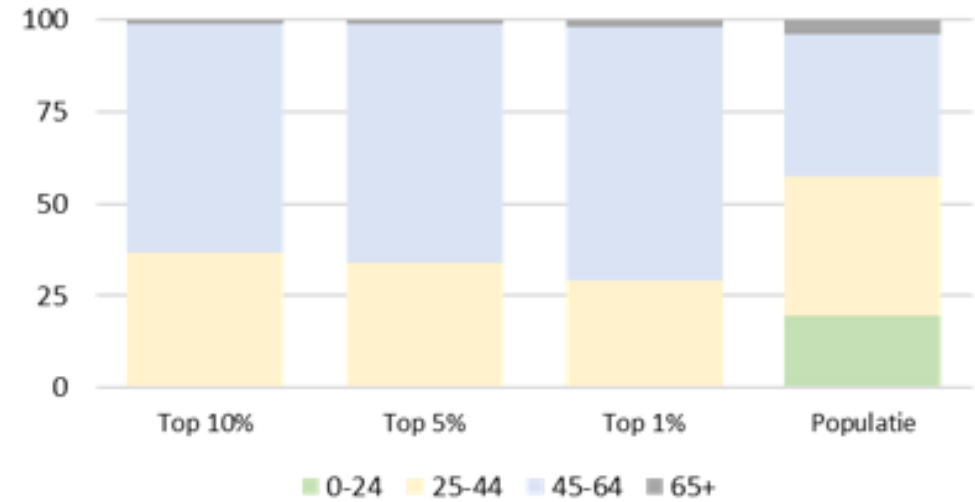
7.2.3 Top income shares 2019*: different definitions of income



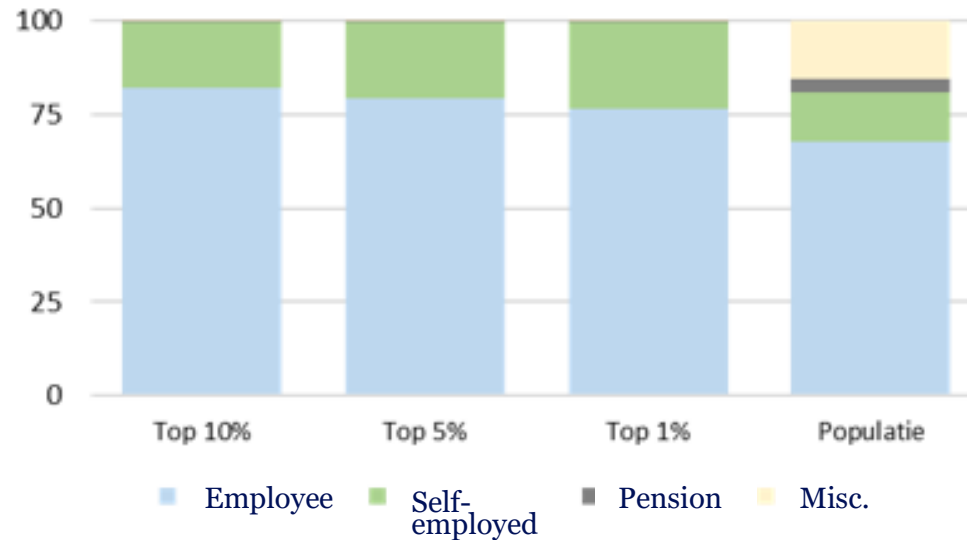
7.2.4 Share top incomes by gender 2019*



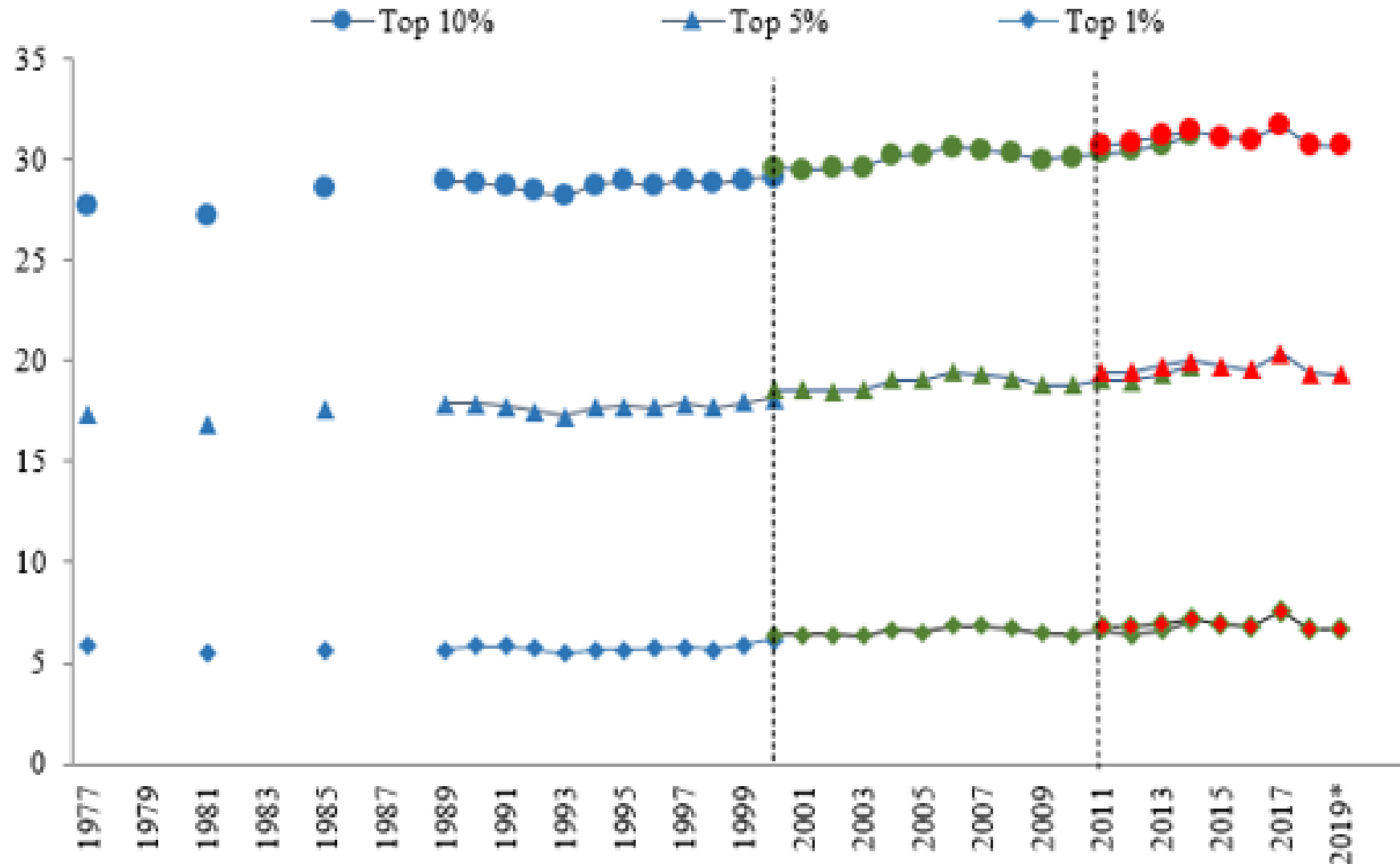
7.2.5 Share top incomes by age 2019*



7.2.6 Share top incomes by socio-economic category 2019*



7.3.1 Share top incomes in 1977-2019*: personal primary income



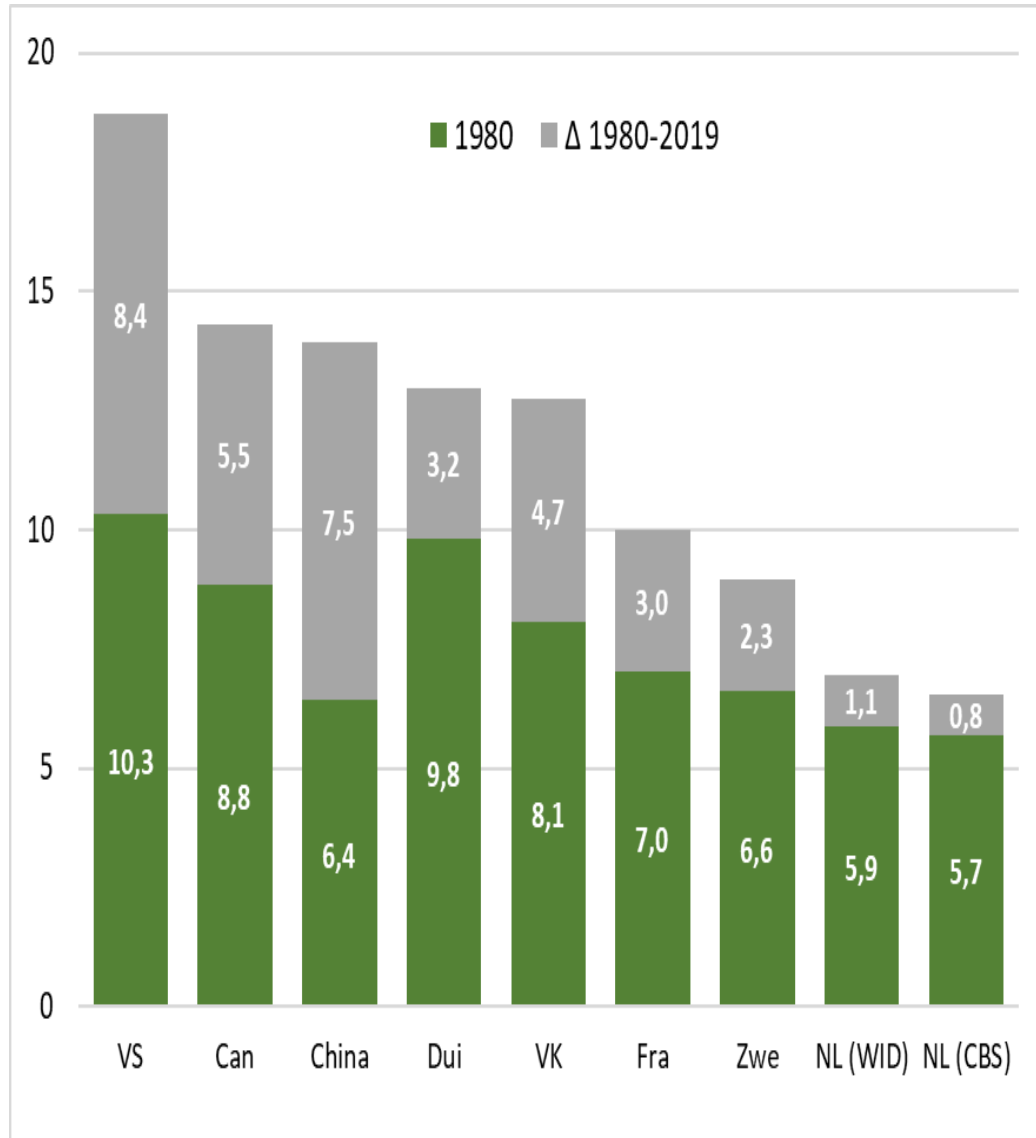
- Share top incomes rather stable over time (top 10%, top 5% & top 1%)
- Independent of definition of income, such as personal gross income and standardized disposable income
- OLS regression: no increased concentration of income in top 1% since 1977

7.3.4 OLS regression trend share of top incomes, 1977-2019*

	Periode 1977-2019				Periode 1990-2019			
	Constante	X-var	Adj R2	F test	Constante	X-var	Adj R2	F test
Primary income								
top 10%	27,7**	0,055**	0,853	74,4	28,5**	0,049**	0,798	45,8
	(0,000)	(0,000)		(0,000)	(0,000)	(0,004)		(0,000)
top 5%	17,2**	0,028**	0,849	72,3	17,6**	0,027	0,813	50,3
	(0,000)	(0,004)		(0,000)	(0,000)	(0,050)		(0,000)
top 1%	5,7**	0,004	0,841	68,1	5,7**	0,007	0,826	54,8
	(0,000)	(0,462)		(0,000)	(0,000)	(0,448)		(0,000)
Gross income								
top 10%	27,6**	0,066**	0,908	126,7	28,4**	0,066**	0,898	100,4
	(0,000)	(0,000)		(0,000)	(0,000)	(0,000)		(0,000)
top 5%	17,1**	0,038**	0,895	109,1	17,5**	0,043**	0,881	85,0
	(0,000)	(0,000)		(0,000)	(0,000)	(0,003)		(0,000)
top 1%	5,6**	0,011	0,854	74,9	5,7**	0,018	0,839	60,0
	(0,000)	(0,123)		(0,000)	(0,000)	(0,077)		(0,000)
Equivalent disposable income								
top 10%	19,5**	0,027	0,877	91,3	20,0**	0,015	0,843	62,0
	(0,000)	(0,077)		(0,000)	(0,000)	(0,516)		(0,000)
top 5%	11,3**	0,022	0,883	96,1	11,6**	0,016	0,853	66,6
	(0,000)	(0,137)		(0,000)	(0,000)	(0,491)		(0,000)
top 1%	3,1**	0,012	0,898	112,0	3,4**	0,007	0,875	80,6
	(0,000)	(0,266)		(0,000)	(0,000)	(0,659)		(0,000)

OLS-regression. P-value between brackets: **p-value <0,01 and *p-value <0,05. Dummies for trend breaks

7.4.2 Share of income top 1% in selected countries: 1980-2019



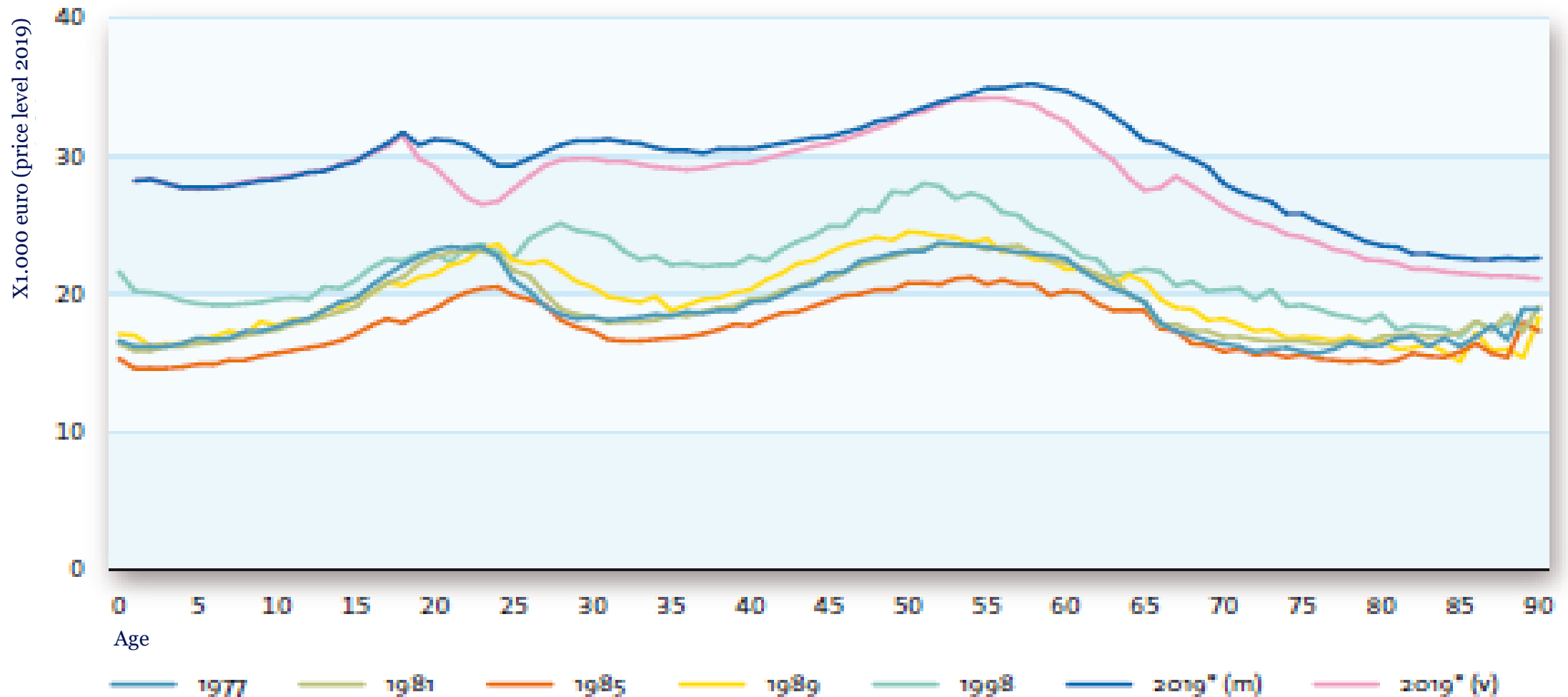
7.4.1 International comparison income share top 1% in 2019

USA	18,7	Hungary	12,4	Cyprus	9,8
Bulgaria	18,3	Spain	12,2	Austria	9,2
Turkey	18,0	Litouania	12,2	Luxembourg	9,2
Poland	14,6	Portugal	11,6	Letland	9,0
Israel	14,4	Ireland	11,6	Sweden	9,0
Canada	14,3	New Zealand	11,4	Cratia	9,0
Korea	14,1	Denmark	11,2	Italy	8,8
China	13,9	Sebia	11,2	Bosnia Herzegovina	8,6
Estland	13,9	Switzerland	10,9	Kosovo	8,6
Romenia	13,2	Slavakia	10,6	Belgium	8,5
Germany	13,0	Norway	10,4	Slovenia	8,3
Greece	12,9	Malta	10,3	Iceland	8,1
UK	12,7	Czech Republic	10,0	Macedonia	7,9
Australia	12,4	France	10,0	<i>Netherlands (WID)</i>	7,0
Japan	12,4	Finland	10,0	<i>Netherlands (CBS)</i>	6,5

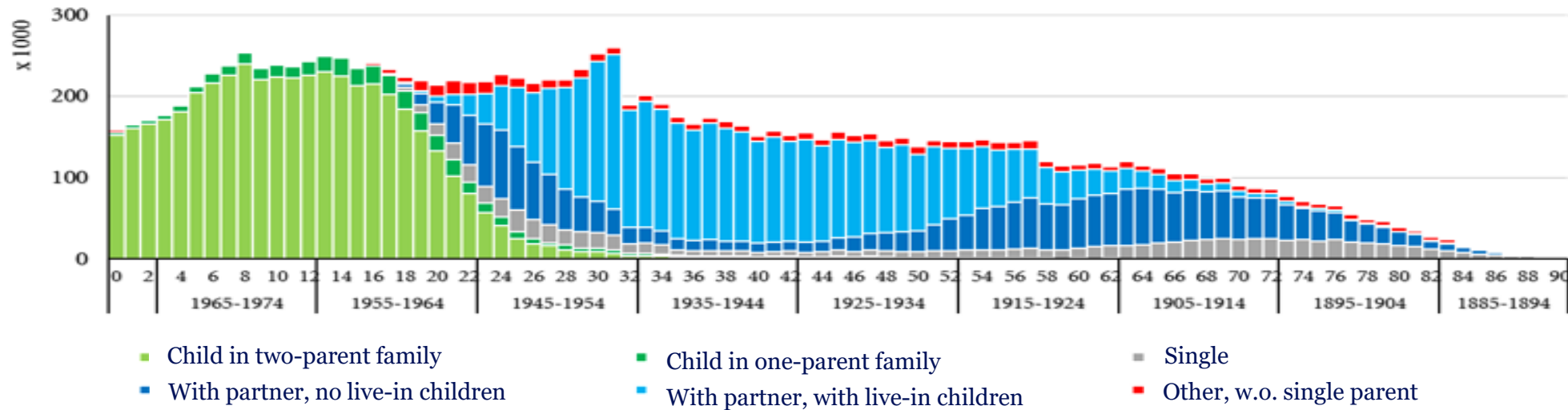
Ranking 177 countries World Inequality Database:
 No 1: USA - 18.7%
 No 177: Netherlands - 7.0%

Income over the life course - Valediction chapter of Wim Bos

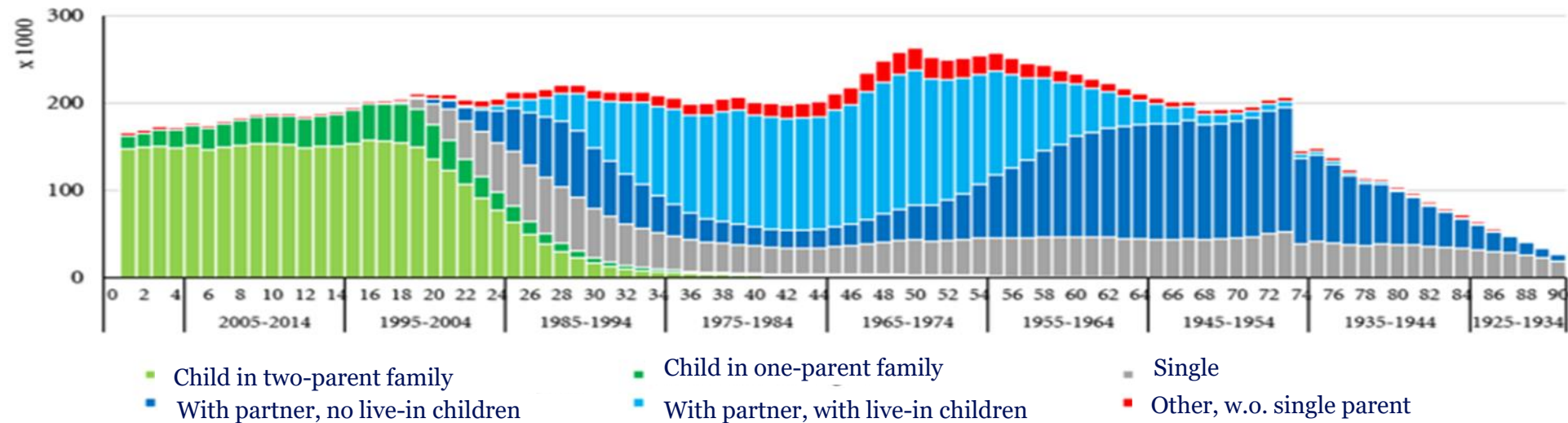
8.4.2 Median income by age



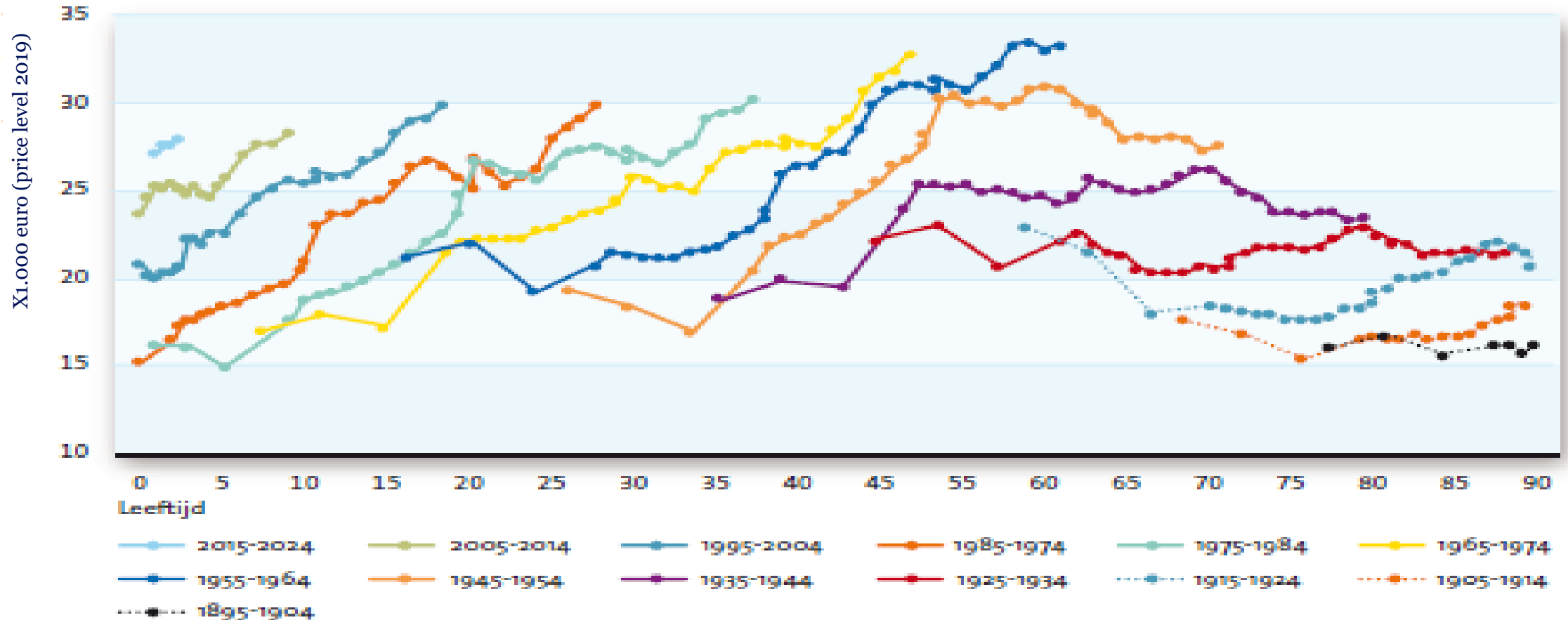
8.2.1 Population by age & household position, 1977



8.2.3 Population by age & household position, 2019*



8.5.1 Median income of generations during the lifecycle, 1977-2019*



- More or less same pattern of lifecycle income; highest level of income around 55 years
- Younger generation more income than precedent generations in similar stages of life
- Main explanation: increased labor participation females



Research project

Dutch Income (Re)Distribution, trends 1977-2019

The book 'Dutch Income (Re)Distribution, trends 1977-2019' was published on the 14th of October. Files related to the project can be downloaded via this website.

Contact **Koen Caminada**

Revision Dutch Income Statistics, time series 1977-2019

- Book *Dutch Income (Re) Distribution, trends 1977-2019 (in Dutch)* ([link](#))
- Supplement Figures and Tables (xls.)
- Presentation Main Findings ([ppt.](#))
- CBS Web publication (in Dutch) ([link](#))
- Initiators: **Koen Caminada** (Universiteit Leiden), **Egbert Jongen** (Universiteit Leiden), [Wim Bos](#) (CBS), [Marion van den Brakel](#) (CBS), [Ferdie Otten](#) (CBS)
- More information (in Dutch): [click here](#)



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