



OBSERVATOIRE DE L'ÉPARGNE EUROPÉENNE

Household structure and household wealth: Evidence from Germany, France, Spain, Italy and Portugal

OEE, January 22nd, 2014

Let us not forget

- Thanks to:
 - OEE
 - ECB (in particular Sebastien)

Household structure and household wealth: Evidence from Germany, France, Spain, Italy and Portugal

- Source of the data
- The raised question
- Descriptive analysis
- Counterfactual analysis
- (robustness analysis, see report)

We are not *the* first...

- Others have done something similar
- Bover (2010) compares Spain and US
- Christelis et al. (2013) cover population 50+
- Sierminska and Doorley (2012) non-harmonised survey instrument

... *but the first with a harmonised survey instrument for the full population*

Source of the data

- HFCS (household finance and consumption survey), Eurosystem survey
- A common project by the Eurozone central banks (except Estonia and Ireland)
- 62 000 households, individual data

Description of data

Our study (France, Germany, Spain, Portugal, Italy): 37123 households.

Country	Number of observations	Year
Germany	3,565	2010
Spain	6,197	2008
France	15,006	2010
Italy	7,951	2010
Portugal	4,404	2010

About savings and wealth

- Life cycle hypothesis is powerful to explain savings
- Knight (1921), Arrondel & Masson (2003) highlight the complexity of wealth accumulation: it is influenced by institutional and sociological factors
- This study focuses on households structures (Mediterranean versus continental countries)

Descriptive analysis: Households structures (table 3)

	France	Germany	Spain	Italy	Portugal		Total
Average HH size	2.2	2.0	2.7	2.5	2.7		2.3
Housing status (%):							
Owner outright	38	26	56	59	47		41
Owner with mortgage	17	18	27	10	24		17
Renter	45	56	17	31	29		41
Avg. age of reference person	52	52	53	56	55		53
Work status of reference person							
Employee	47	47	41	38	41		44
Self-employed	8	7	8	11	10		8
Retired	34	30	21	39	36		32
Other Not Working	11	17	30	12	12		16
Education of reference person:							
Primary/no education	32	2	31	26	64		22
Secondary	45	69	39	63	27		56
Tertiary	23	29	26	11	9		23

Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Descriptive analysis: Selected statistics on the 16 demographic household groups (table 4)

	Proportion of population (%)					Number of observations in the sample					Median net household wealth (EUR thousands)				
	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal
Age < 25															
Couple	1	1	1	0	1	29	19	90	16	26	3.7	5.5	7.9	9.0	4.2
Single Male	2	0	1	0	0	55	11	98	25	11	6.2	186.8	5.0	33.5	1.5
Single Female	2	0	2	0	0	52	19	128	18	13	1.2	1.4	2.8	108.0	2.7
25 ≤ age < 35															
Couple, no children	3	3	4	2	2	91	81	272	84	60	24.6	50.0	24.1	57.8	46.8
Couple, children	4	7	6	3	5	106	135	576	180	144	22.4	105.2	42.7	67.5	27.4
Single male	4	2	3	2	1	82	64	246	98	49	13.3	128.6	13.1	9.2	31.5
S female: no children	3	1	2	1	0	62	40	160	76	31	11.9	70.2	17.9	19.5	6.1
S female: children	1	0	1	0	0	20	13	128	22	16	0.0	5.4	3.9	15.0	2.6
35 ≤ age < 55															
Couple, no children	5	4	3	3	2	203	137	347	182	94	114.2	148.6	116.1	127.0	66.4
Couple, children	13	21	15	19	22	464	930	2,309	1,272	723	97.8	193.6	183.6	180.6	80.2
Single male	6	3	5	3	2	111	167	526	231	84	26.5	182.4	31.7	110.0	51.2
S female: no children	3	2	2	3	1	59	102	238	185	58	8.9	131.7	31.2	51.0	51.2
S female: children	2	3	4	2	2	64	119	483	141	107	5.7	118.9	9.7	92.2	17.8
Age ≥ 55															
Couple	27	31	27	36	38	1,522	2,817	5,732	3,309	1,828	161.7	267.0	259.5	244.0	103.4
Single male	10	6	8	6	5	261	497	1,143	568	307	53.0	175.4	120.3	152.7	68.0
Single female	15	15	18	17	17	382	1,046	2,530	1,544	853	23.9	152.5	103.1	120.0	50.7
Total	100	100	100	100	100	3,565	6,197	15,006	7,951	4,404	51.4	182.7	115.8	173.5	75.2

Notes: In percentages 0 stands for less than 0.5% and 0.0 in thousands of euros stands for less than 50 euros. Columns may not sum to total due to rounding.

Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Descriptive analysis: Participation rates (table 5)

	Participation rate in real assets (%)					Participation rate in financial assets (%)					Mean share of financial assets in total assets (%)				
	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal
Age < 25															
Couple	90	84	100	92	83	100	100	100	57	98	59	18	57	15	31
Single Male	68	79	100	91	38	100	100	100	86	94	71	31	54	34	77
Single Female	56	62	100	100	43	100	100	99	69	100	69	35	60	18	73
25 ≤ age < 35															
Couple, no children	82	99	100	100	93	100	100	100	95	99	51	15	46	16	20
Couple, children	85	97	100	99	95	100	97	100	88	98	49	9	27	15	24
Single male	57	95	100	90	85	99	97	100	89	97	70	30	46	31	47
S female: no children	66	84	100	97	77	100	100	100	95	98	66	25	46	26	35
S female: children	40	96	100	81	62	100	96	100	79	100	77	8	38	19	55
35 ≤ age < 55															
Couple, no children	97	95	100	98	86	100	98	98	94	92	35	19	26	20	27
Couple, children	97	98	100	100	96	100	99	100	95	99	33	11	21	13	16
Single male	74	94	100	98	81	100	100	99	93	82	63	17	34	22	24
S female: no children	65	77	100	93	78	100	100	100	86	98	61	30	44	25	36
S female: children	56	89	100	94	78	100	100	99	93	96	75	18	37	22	33
Age ≥ 55															
Couple	93	98	100	99	95	100	98	100	95	96	36	12	22	13	20
Single male	76	93	100	96	85	96	97	99	90	86	50	18	33	20	23
Single female	63	92	100	96	78	99	97	100	86	87	57	14	36	18	29
Total	80	95	100	98	90	99	98	100	92	94	48	14	31	16	23

Notes: 0 stands for less than 0.5%. Real assets: Household residence, other real estate property, vehicles, valuables (jewellery, antique or art), and asset in self-employment business. Financial assets: deposits, mutual funds, bonds, publicly traded shares, managed accounts, money owed privately, other financial instruments, private pension plans and whole life insurance policies (see Annex I in ECB (2013) for complete definitions).

Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Descriptive analysis: Detailed participation rates in real assets (by demographic group) (table 6)

	Property (%)					Valuables (%)					Assets in self-employment business (%)				
	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal
Age < 25															
Couple	8	59	11	13	15	90	84	100	92	81	0	0	4	20	4
Single Male	13	60	8	47	12	67	63	100	85	32	5	0	0	8	0
Single Female	12	49	1	63	17	56	56	100	97	38	6	2	1	8	6
25 ≤ age < 35															
Couple, no children	32	66	34	48	62	75	96	100	100	87	14	23	9	24	16
Couple, children	31	84	53	52	59	84	95	100	97	92	2	22	13	23	8
Single male	9	60	26	31	40	56	90	100	87	79	4	4	8	20	0
S female: no children	20	57	27	44	51	59	79	100	92	51	2	0	11	27	6
S female: children	16	34	16	38	25	30	68	100	81	56	0	0	3	13	0
35 ≤ age < 55															
Couple, no children	65	77	62	55	64	93	87	100	98	77	22	23	14	27	7
Couple, children	65	88	75	72	80	94	95	100	99	90	16	20	18	27	11
Single male	27	81	44	60	61	70	82	100	93	72	6	23	12	21	13
S female: no children	33	68	38	53	58	63	66	100	91	59	2	4	4	15	0
S female: children	18	74	32	56	58	52	71	100	94	62	6	7	6	12	7
Age ≥ 55															
Couple	71	94	84	85	84	89	86	100	97	82	11	15	11	19	9
Single male	53	87	63	78	77	66	63	100	89	64	10	9	5	10	4
Single female	43	88	59	70	70	41	45	100	90	37	3	3	1	6	1
Total	49	86	61	72	75	73	79	100	95	74	9	14	9	18	8

Note: 0 stands for less than 0.5%. Property: household residence, other real estate property. Valuables: vehicles, jewellery, antique and art.

Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Descriptive analysis: Detailed median real asset holding conditional on participation (by demographic group), '000 Euro (table 7)

	Property						Valuables				
	Germany	Spain	France	Italy	Portugal		Germany	Spain	France	Italy	Portugal
Age < 25											
Couple	580	138	116	180	90		3	4	2	8	4
Single Male	296	246	158	200	125		2	13	1	7	10
Single Female	259	469	160	250	60		2	15	1	4	3
25 ≤ age < 35											
Couple, no children	150	191	183	200	150		10	9	4	12	15
Couple, children	198	173	192	200	99		6	9	5	11	5
Single male	70	205	130	219	88		6	7	2	5	4
S female: no children	164	238	127	200	99		7	6	3	8	4
S female: children	100	284	112	260	120		4	5	2	5	3
35 ≤ age < 55											
Couple, no children	200	182	229	230	114		10	7	5	11	8
Couple, children	200	216	252	220	110		8	10	6	12	6
Single male	180	214	158	200	100		7	5	3	8	4
S female: no children	92	193	162	190	114		3	4	2	6	8
S female: children	150	204	181	200	100		2	5	3	7	5
Age ≥ 55											
Couple	200	244	249	250	100		10	8	6	11	5
Single male	130	180	169	170	87		6	4	3	6	3
Single female	147	169	155	180	75		5	4	3	4	4
Total	180	210	211	200	100		8	7	4	10	5

Descriptive analysis: Detailed participation rates in financial assets (by demographic group) (table 8)

	Liquid (%)					Illiquid (%)					Pension (%)				
	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal
Age < 25															
Couple	100	100	100	57	98	11	12	11	0	9	57	9	22	21	8
Single Male	100	100	100	86	94	18	18	5	2	0	38	20	13	10	0
Single Female	100	100	99	69	100	35	0	3	4	23	32	0	8	24	0
25 ≤ age < 35															
Couple, no children	100	100	100	95	99	42	9	17	9	4	64	20	37	19	20
Couple, children	100	97	100	88	98	20	12	9	3	9	59	14	34	23	14
Single male	99	97	100	89	97	21	9	10	1	11	59	15	21	8	15
S female: no children	100	100	100	95	98	24	3	8	1	10	64	21	32	9	19
S female: children	100	96	100	79	100	21	0	9	6	13	55	20	26	7	10
35 ≤ age < 55															
Couple, no children	100	98	98	94	92	23	11	11	2	13	72	38	43	30	19
Couple, children	100	98	100	94	99	16	11	14	5	12	76	33	43	28	21
Single male	99	100	99	92	81	33	9	15	4	16	58	21	28	28	16
S female: no children	100	100	100	86	98	29	5	10	7	8	43	17	31	26	18
S female: children	100	100	99	90	95	21	9	11	4	10	65	17	31	20	19
Age ≥ 55															
Couple	100	98	100	95	96	23	7	14	6	8	41	27	47	17	14
Single male	96	97	99	90	85	24	6	15	6	7	24	19	36	13	8
Single female	98	97	100	86	86	17	3	9	3	4	19	12	33	5	6
Total	99	98	100	92	94	22	8	12	8	8	47	24	37	18	14

Note: 0 stands for less than 0.5%. Liquid assets: deposits, mutual funds, bonds, publicly traded shares, managed accounts. Illiquid assets: value of non-self employment private businesses, money owed to the household, other assets. Pension: voluntary pension savings and whole life insurance products.

Descriptive analysis: Detailed median financial asset holding conditional on participation (by demographic group), '000 euro (table 9)

	Liquid						Illiquid						Pension				
	Germany	Spain	France	Italy	Portugal		Germany	Spain	France	Italy	Portugal		Germany	Spain	France	Italy	Portugal
Age < 25																	
Couple	0.9	0.1	3.0	4.5	0.8		0.5	0.9	6.7	..	0.7		1.5	0.4	1.4	0.3	1.8
Single Male	2.7	1.7	2.0	4.7	0.3		1.5	1.5	1.2	10.0	..		5.8	4.5	1.1	4.2	..
Single Female	0.9	1.1	1.9	1.5	1.2		0.9	..	1.0	1.5	0.3		1.9	3.6	0.7	10.6	..
25 ≤ age < 35																	
Couple, no children	5.4	4.6	8.4	5.2	5.5		0.9	6.0	2.0	7.4	2.6		4.1	2.3	2.0	3.0	2.1
Couple, children	5.3	2.0	4.6	4.2	1.7		1.0	2.6	2.1	6.0	5.0		4.2	2.8	2.2	9.7	1.8
Single male	2.6	12.0	3.3	3.5	8.6		0.5	1.2	1.8	1.8	8.0		5.2	6.5	3.5	8.0	15.0
S female: no children	5.7	4.2	5.9	5.0	1.3		0.6	0.3	1.8	1.8	2.0		4.9	7.0	1.7	14.9	1.8
S female: children	0.1	1.0	0.7	1.1	0.5		2.5	..	1.5	1.5	1.0		2.8	3.3	1.1	0.2	4.0
35 ≤ age < 55																	
Couple, no children	12.0	4.0	6.9	5.1	2.8		5.5	15.0	3.0	3.0	3.0		20.3	5.0	5.1	8.7	1.9
Couple, children	12.6	4.0	9.3	6.8	2.7		5.4	12.0	3.6	7.0	3.0		16.8	6.0	7.9	11.8	4.8
Single male	7.9	3.0	4.5	5.0	3.5		2.8	6.0	2.7	15.0	10.0		14.7	6.6	5.2	9.0	3.0
S female: no children	1.0	2.3	5.9	6.0	3.1		2.6	4.5	3.8	5.0	1.2		4.1	3.5	6.4	8.4	13.8
S female: children	2.2	1.1	1.8	4.7	1.0		2.0	4.5	2.0	6.0	4.0		3.0	4.5	3.6	10.4	2.3
Age ≥ 55																	
Couple	20.0	7.4	14.0	12.0	5.5		4.0	12.0	6.1	5.5	6.2		20.2	13.8	23.3	11.8	9.1
Single male	12.5	8.6	7.6	10.0	3.8		6.1	10.2	4.8	5.0	3.8		27.4	11.0	23.9	7.0	5.8
Single female	8.0	2.4	6.0	6.1	2.0		2.2	3.0	6.3	3.0	2.9		6.5	8.1	15.1	6.8	7.2
Total	9.6	4.0	7.2	7.8	3.5		2.6	7.0	4.2	5.2	4.2		11.4	7.4	10.6	10.1	5.9

Note: 0.0 in thousands of euros stands for less than 50 euros. Liquid assets: deposits, mutual funds, bonds, publicly traded shares, managed accounts. Illiquid assets: value of non-self employment private businesses, money owed to the household, other assets. Pension: voluntary pension savings and whole life insurance products. Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Descriptive analysis: Detailed participation in liquid financial assets (by demographic group) (table 10)

	Deposits (%)					Bonds (%)					Publicly traded shares (%)					Mutual funds (%)				
	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT
Age < 25																				
Couple	100	100	100	57	98	0	0	0	3	0	2	0	6	0	4	0	0	4	3	0
Single Male	100	100	100	86	94	0	0	1	0	0	3	0	1	0	0	4	0	1	2	0
Single Female	100	100	99	69	100	0	0	0	0	0	0	1	1	0	0	4	0	2	0	0
25 ≤ age < 35																				
Couple, no children	100	100	100	95	99	10	0	2	10	0	14	7	14	0	6	28	3	10	4	1
Couple, children	100	97	100	88	98	3	0	0	3	1	4	5	12	1	3	10	0	14	0	5
Single male	99	97	100	89	97	1	0	0	1	0	11	21	11	5	6	21	9	9	3	11
S female: no children	100	100	100	95	98	2	13	0	7	0	9	5	9	3	4	19	17	9	5	6
S female: children	100	96	100	79	100	0	0	0	0	0	0	0	1	0	0	13	0	4	0	0
35 ≤ age < 55																				
Couple, no children	100	98	98	94	92	9	0	1	8	0	19	12	17	5	7	27	3	12	8	2
Couple, children	100	98	100	94	99	3	1	1	10	1	13	10	20	6	6	22	6	16	7	3
Single male	99	100	99	92	81	6	2	0	15	0	13	8	14	3	1	21	7	10	8	7
S female: no children	100	100	100	86	98	1	1	2	9	0	3	4	12	1	1	13	2	10	6	0
S female: children	100	100	99	90	95	2	1	1	8	0	6	4	6	0	3	17	5	5	5	2
Age ≥ 55																				
Couple	100	98	100	95	96	9	2	2	21	0	14	15	21	6	5	17	7	13	8	3
Single male	96	97	99	90	85	4	2	3	17	1	11	13	15	7	4	16	7	10	5	3
Single female	98	97	100	86	86	5	2	2	13	0	6	7	9	2	2	10	4	6	4	1
Total	99	98	100	92	94	5	1	2	15	0	11	10	15	5	4	17	6	11	6	3

Notes: 0 stands for less than 0.5%. Managed accounts are only held by very few people in the sample. Participation rates are therefore not reported.

DE: Germany, ES: Spain, FR: France, IT: Italy, PT: Portugal

Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Descriptive analysis: Detailed participation in liabilities by components (by demographic group) (table 11)

	Total debt (%)					Mortgage debt (%)					Credit lines, cards and overdrafts (%)					Other non-mortgage debt (%)				
	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT
Age < 25																				
Couple	78	48	49	40	40	7	21	6	0	10	48	1	2	3	10	50	32	44	37	30
Single Male	32	20	22	25	42	5	0	4	2	12	15	0	4	3	36	20	19	16	22	0
Single Female	43	25	23	2	39	4	7	0	2	0	18	0	5	0	22	32	18	22	0	17
25 ≤ age < 35																				
Couple, no children	79	74	58	32	69	22	58	26	13	51	35	23	3	9	13	53	37	43	20	12
Couple, children	68	86	78	41	64	23	77	44	23	44	34	13	11	9	17	36	43	55	20	26
Single male	51	37	46	21	42	1	7	18	6	19	21	10	7	4	12	35	26	26	17	23
S female: no children	45	47	45	18	50	0	25	18	13	40	21	3	14	0	9	38	28	22	7	16
S female: children	53	79	45	39	38	9	33	8	21	20	20	13	19	0	27	35	36	28	18	27
35 ≤ age < 55																				
Couple, no children	67	67	66	39	54	43	53	39	17	40	32	16	10	7	12	25	28	38	17	19
Couple, children	71	73	79	47	65	46	56	56	22	52	30	12	9	8	11	28	39	47	29	21
Single male	51	47	55	23	42	13	32	25	12	38	27	5	12	6	5	30	16	29	12	7
S female: no children	55	53	42	29	38	11	26	20	14	28	28	6	8	6	10	34	28	22	16	11
S female: children	47	68	54	30	56	6	49	19	9	36	23	14	16	4	20	28	28	32	22	24
Age ≥ 55																				
Couple	43	40	43	21	27	27	20	22	8	18	18	4	5	5	4	13	24	27	13	10
Single male	36	23	28	12	19	16	8	12	5	11	17	5	6	2	6	13	13	15	8	7
Single female	22	23	22	10	16	10	9	8	3	9	10	2	5	2	3	9	16	12	7	7
Total	47	50	47	25	38	21	33	24	11	27	22	8	7	5	7	22	27	29	15	13

Notes: 0 stands for less than 0.5%. Other non-mortgage debt includes car loans, consumer loans, installment loans, private loans from relatives, friends, employers etc., and other loans. Credit lines are usually linked to a bank overdraft, may also be granted on the basis of an 'umbrella contract' allowing the customer to draw loans on several types of loan accounts up to a certain maximum amount applying to all loan accounts together. Bank overdrafts are defined as debit balances on current accounts. Definitions according to ECB/2001/18. DE: Germany, ES: Spain, FR: France, IT: Italy, PT: Portugal

Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Descriptive analysis: Detailed median liabilities by debt type conditional on participation (by demographic group), '000 Euro. (table 12)

	Total debt					Mortgage debt					Credit lines, cards and overdrafts					Other non-mortgage debt					
	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT	DE	ES	FR	IT	PT	
Age < 25																					
Couple	4	18	3	3	18	80	160	137	70	45	0.5	4.9	0.0	0.6	0.7	7.3	10.0	2.7	2.5	6.5	
Single Male	0	10	4	4	0	198	83	14	127	82	0.2	0.9	0.2	2.0	0.3	1.4	10.0	4.5	3.5	5.4	
Single Female	5	4	2	80	0	150	164	80	75	82	0.8	0.1	0.9	0.7	1.0	3.0	1.9	0.4	2.9	8.0	
25 ≤ age < 35																					
Couple, no children	5	60	43	21	79	109	90	109	97	79	0.7	1.4	1.0	2.0	4.5	8.0	5.0	9.2	2.5	8.4	
Couple, children	10	71	72	40	59	104	90	78	86	80	1.4	1.3	0.9	0.7	0.4	6.9	5.0	4.3	8.0	6.0	
Single male	3	6	9	5	12	82	62	76	108	63	0.5	2.5	2.4	1.0	0.2	4.5	5.0	8.1	4.8	16.8	
S female: no children	8	27	9	89	65	90	75	148	79	95	0.7	0.5	3.1	2.6	0.2	3.9	4.0	1.0	1.6	15.6	
S female: children	3	18	2	180	35	180	47	90	60	70	0.5	0.7	0.7	0.7	2.0	3.1	7.0	5.0	11.5	8.0	
35 ≤ age < 55																					
Couple, no children	56	47	42	7	45	55	59	90	51	68	1.2	2.0	0.8	0.9	2.0	8.2	7.2	1.1	4.7	8.0	
Couple, children	44	42	51	27	42	63	50	100	80	46	0.7	2.2	4.5	0.5	1.0	7.7	8.0	4.4	3.3	11.0	
Single male	4	63	14	35	45	55	51	90	20	45	0.4	1.0	0.6	1.1	1.2	5.3	1.0	4.8	3.6	2.8	
S female: no children	4	12	28	40	34	73	38	39	60	72	0.3	0.5	1.2	0.8	1.0	8.9	8.5	11.3	1.3	3.6	
S female: children	2	40	9	12	43	94	60	56	48	25	0.8	2.2	1.0	1.5	2.5	4.1	8.0	4.0	6.5	9.0	
Age ≥ 55																					
Couple	21	20	13	10	15	40	27	115	102	30	1.0	0.9	0.9	1.1	2.5	6.7	7.0	5.9	8.7	10.0	
Single male	23	12	7	12	17	64	37	56	45	19	1.8	1.2	0.6	0.8	2.5	3.0	6.0	3.0	3.0	9.7	
Single female	11	12	6	9	12	30	29	.	.	.	0.8	.	.	.	.	4.1	5.0	3.3	.	.
Total	13	36	18	15	32	80	60	59	60	49	1.5	0.9	0.9	2	0.9	4.5	8.0	6.0	6.5	4.9	

Notes: 0.0 in thousands of euros stands for less than 50 euros, 0 for less than 500 euros. Other non-mortgage debt includes car loans, consumer loans, installment loans, private loans from relatives, friends, employers etc., and other loans. Credit lines are usually linked to a bank overdraft, may also be granted on the basis of an 'umbrella contract' allowing the customer to draw loans on several types of loan accounts up to a certain maximum amount applying to all loan accounts together. Bank overdrafts are defined as debit balances on current accounts. Definitions according to ECB/2001/18. DE: Germany, ES: Spain, FR: France, IT: Italy, PT: Portugal
Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Descriptive analysis: Wealth dispersion within and between demographic groups in each country (table 13)

	Interquartile ratio (p75/p25)					Mean-median ratio					Share of wealth / population share				
	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal	Germany	Spain	France	Italy	Portugal
Age < 25															
Couple	172	.	13	2	114	9	9	3	4	3	0.2	0.2	0.1	0.1	0.1
Single Male	18	226	5	36	192	14	1	3	4	6	0.4	0.8	0.1	0.4	0.1
Single Female	307	6179	4	47	78	91	190	5	2	27	0.5	0.9	0.1	0.6	0.5
25 ≤ age < 35															
Couple, no children	22	23	14	22	13	3	3	3	2	2	0.3	0.5	0.3	0.5	0.6
Couple, children	26	4	28	13	23	3	1	2	2	3	0.3	0.4	0.4	0.5	0.5
Single male	36	28	15	45	9	2	2	6	12	2	0.1	0.8	0.3	0.4	0.3
S female: no children	15	54	16	22	174	4	2	4	6	5	0.3	0.5	0.3	0.4	0.2
S female: children		400	1	172	94	.	12	6	4	9	0.0	0.2	0.1	0.2	0.2
35 ≤ age < 55															
Couple, no children	7	7	31	15	24	2	1	2	2	1	1.3	0.7	0.9	0.7	0.6
Couple, children	10	4	7	9	6	3	1	2	2	2	1.3	0.9	1.2	1.0	0.9
Single male	52	6	49	22	48	5	2	5	2	2	0.6	0.9	0.7	0.7	0.8
S female: no children	780	45	51	35	23	6	1	3	3	2	0.3	0.5	0.4	0.5	0.8
S female: children	151	7	51	29	122	8	1	8	2	4	0.2	0.6	0.3	0.6	0.4
Age ≥ 55															
Couple	8	3	3	4	4	2	2	2	2	2	1.8	1.5	1.8	1.4	1.4
Single male	42	6	27	5	9	3	2	2	2	2	0.9	1.1	1.0	0.9	0.8
Single female	29	3	26	13	19	5	1	2	2	2	0.6	0.7	0.7	0.7	0.7
Total	32	4	28	9	9	3.8	1.6	2.0	1.6	2.0	..	..	..	..	..

Note: 0 and 0.0 stands for less than 0.5 and 0.05 respectively.

Source: Eurosystem Household Finance and Consumption Survey (ECB, 2013). Own calculations.

Counterfactual analysis

- Assume same HH structure as France
 - 16 dimensions
- Ex: French sample 18% HHs single female, 55+
Germany equivalent number is 15 %
- Counterfactual assumes Germany has 18% single female 55+ HHs
- Reasonable measure of German CF distribution

Counterfactual analysis

- What is left when demographics is equalised?
 - Institutions (pensions, unemployment insurance, savings incentives, etc)
 - Traditions / folklore (“Belgians notorious savers”)
- Not guaranteed that distributions get closer
- Different effects from “institutions” can cancel each other out

Counterfactual analysis: Participation rates (table 14)

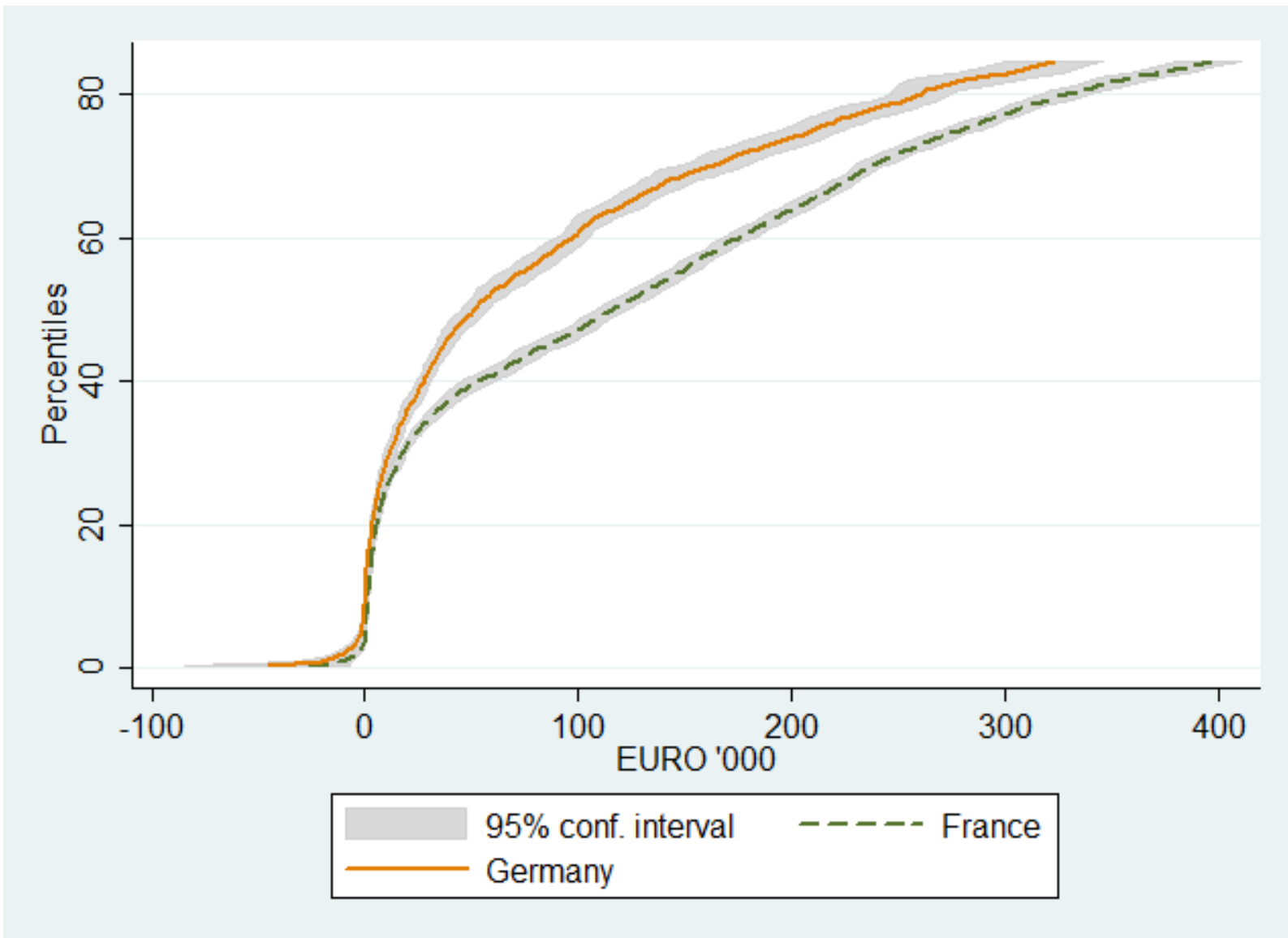
Compare France to Spain

	Participation rates (%)				
	Germany	Spain	France	Italy	Portugal
Property	49	86	61	72	75
Self-employment business	9	14	9	18	8
Illiquid financial assets	22	7	11	4	8
Private pensions	47	24	37	18	14
Detailed financial assets:					
Bonds	5	1	2	15	0
Publicly traded shares	11	10	15	5	4
Mutual funds	17	6	11	6	3

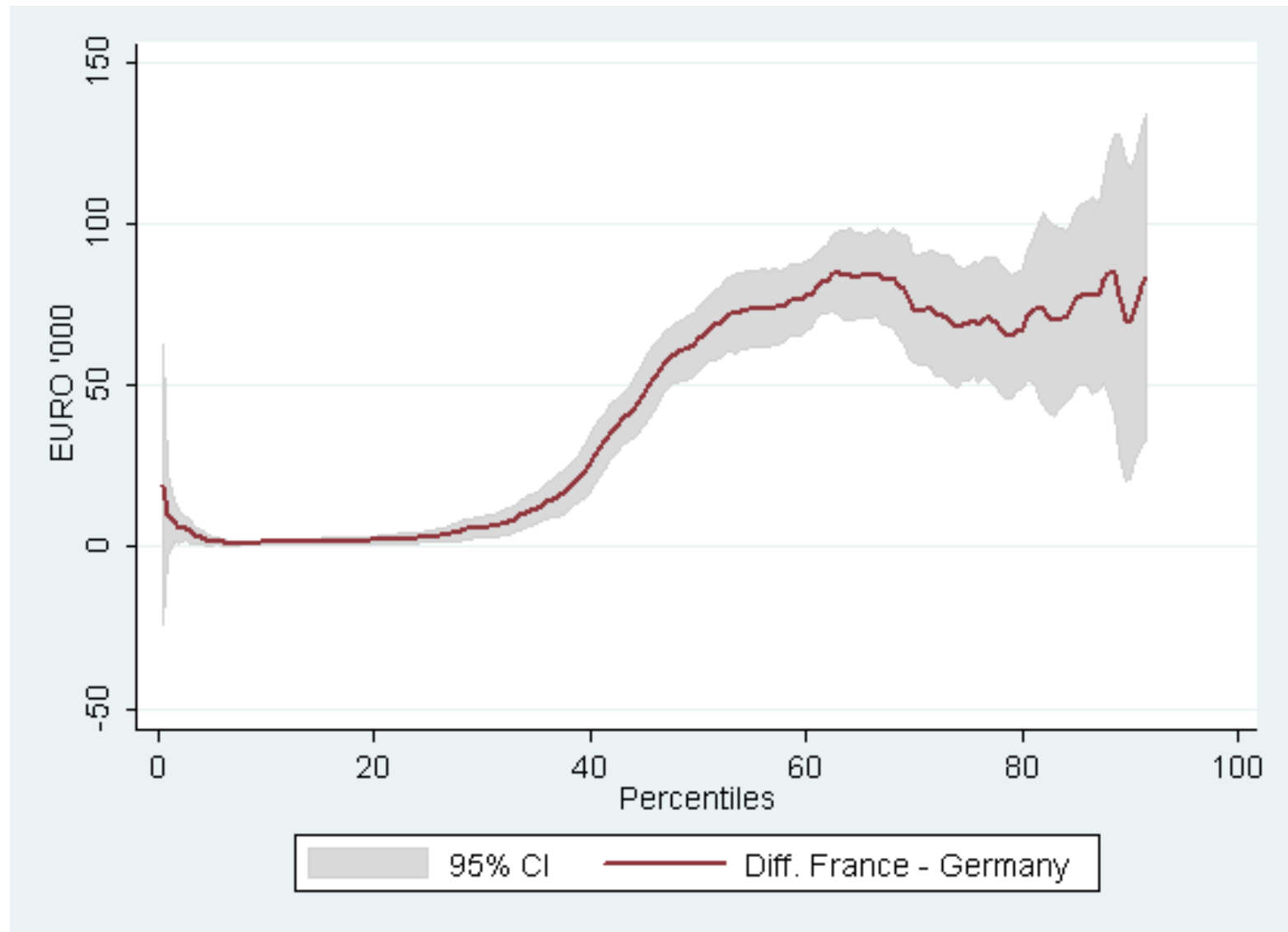
Counterfactual analysis: Differences in participation rates in different asset classes due to household structure (table 14)

	Difference due to household structure (%- points)				
	Germany	Spain	Italy	Portugal	
Property	0	-2~	-4~	-6~	
Value of self-employment business	0	-2~	-1~	-1	
Illiquid financial assets	0	0	0	0~	
Private pensions	-0~	-2	-1	-1	
Detailed financial assets:					
Bonds	0	0	-2~	0	
Publicly traded shares	0~	-1	-1	0	
Mutual funds	0	0	-1	0	

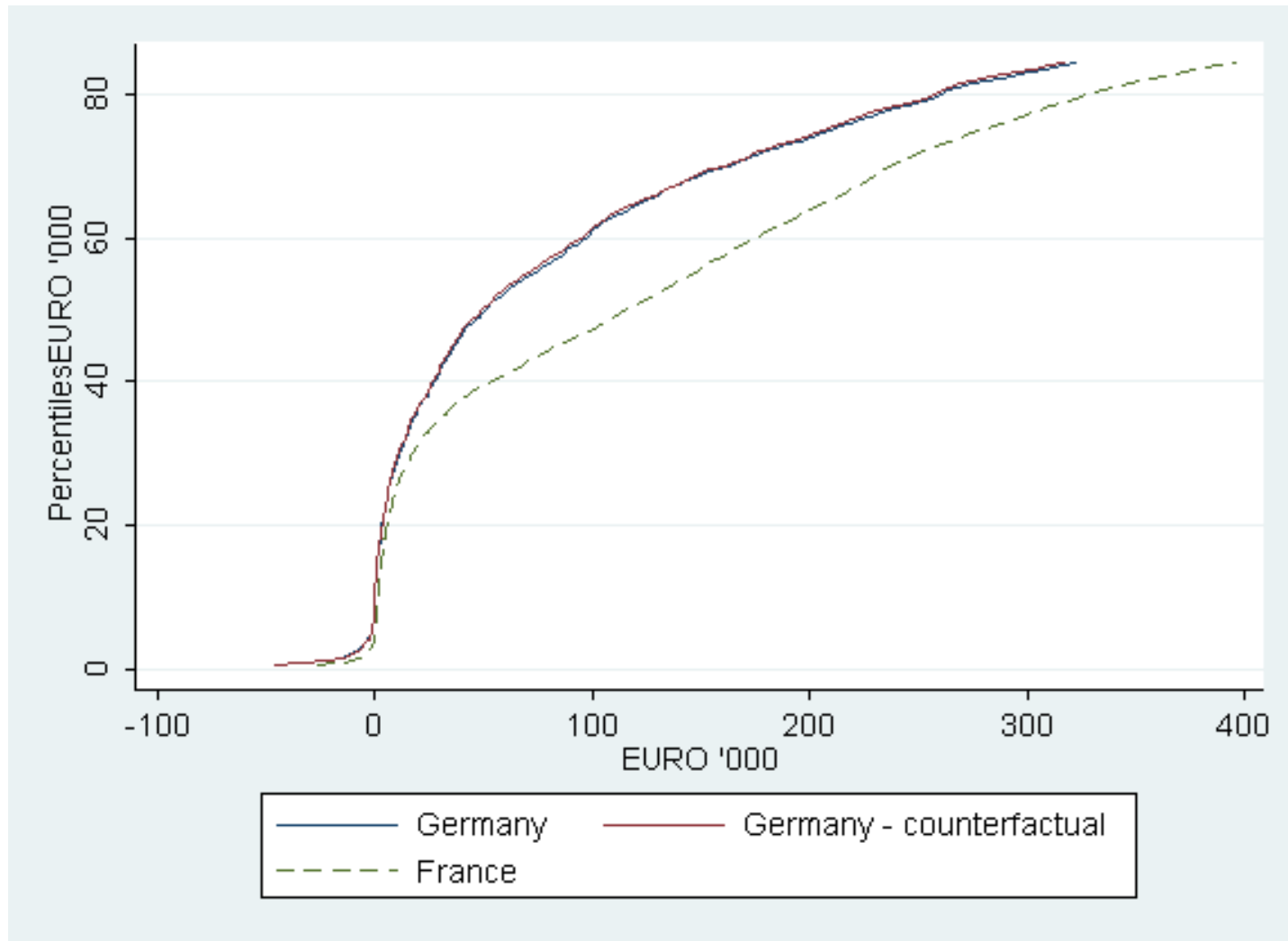
Counterfactual analysis: Distribution of household net wealth in Germany vis-a-vis France



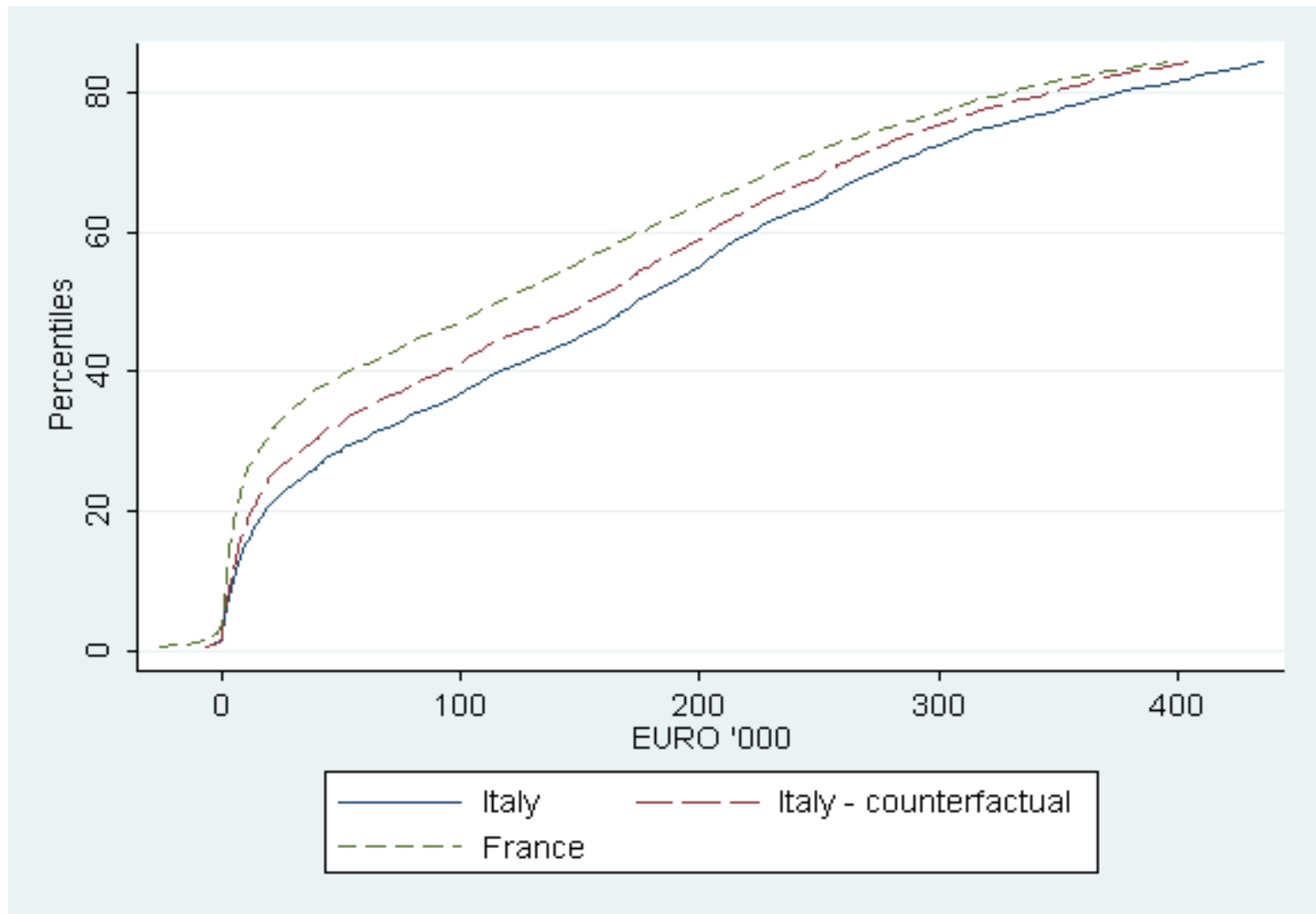
Counterfactual analysis: Difference in net wealth distribution Germany vis-a-vis France



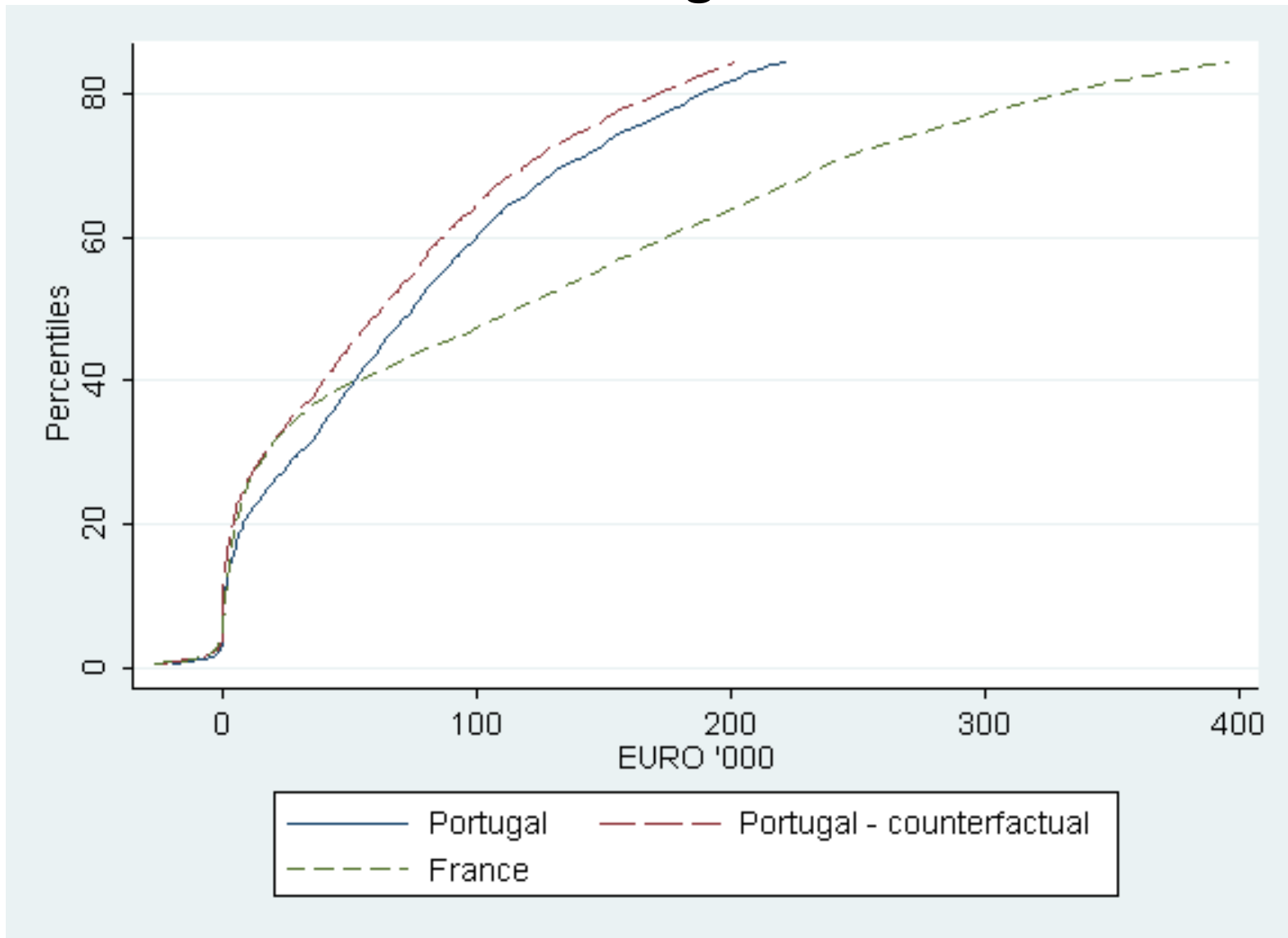
Counterfactual analysis: Distribution of household net wealth counterfactual Germany vis-a-vis France



Counterfactual analysis: Distribution of household net wealth counterfactual Italy vis-a-vis France



Counterfactual analysis: Distribution of household net wealth counterfactual Portugal vis-a-vis France



Counterfactual analysis: Differences in net wealth due to household structure, '000 Euro

	Germany		Spain		Italy		Portugal	
	Due to HH structure	% of total diff	Due to HH structure	% of total diff	Due to HH structure	% of total diff	Due to HH structure	% of total diff
p5	-0.3 (0.3)	13	0.2* (0.1)	-121	0.0 (0.2)	0	0.1 (0.0)	-15
p10	0.0 (0.0)	1	2.6*** (0.7)	64	1.4*** (0.1)	41	0.7*** (0.2)	-135
p25	0.0 (0.3)	-1	11.3*** (2.5)	17	13.7*** (1.9)	56	9.5*** (1.0)	111
p50	1.4 (1.4)	-2	6.0*** (2.1)	9	20.2*** (2.1)	35	12.0*** (1.9)	-30
P75	3.3 (3.4)	-5	10.9*** (3.7)	21	25.3*** (3.6)	60	16.5*** (1.8)	-14
P90	8.3 (6.8)	-12	7.0 (9.6)	7	46.1*** (6.4)	70	23.1*** (4.8)	-11
P95	15.1 (10.3)	-13	20.4 (14.8)	20	69.0*** (12.9)	87	65.8*** (12.2)	-22

Thanks for attention!