

Mind the Gap: Incentives to Boost Retirement Saving

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Begin with: What is the aim? How large a gap to fill? Part I: Exploit European institutional variation 1. Incentive effects through PAYG systems 2. Incentive effects through taxation 3. Incentive effects through opt-in/opt-out mechanisms Part II: Germany and the recent reforms 1. Pre-2001 tax incentives and their effects 2. Introduction of IRA-type "Riester" pensions 3. Tax subsidies/credits vs. product regulation End with policy conclusions

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Figure 1: Saving rates necessary to fill pension gap

(Percent of gross earnings, by real rate of return)



Source: Birg and Börsch-Supan (1999).

European variation

Percent ^a	D	F	Ι	Ε	NL	СН	GB	US
First Pillar ^b	85%	79%	74%	92%	50%	42%	65% ^f	45%
Second Pillar ^c	5%	6% ^e	1%	4%	40%	32%	25%	13%
Third Pillar ^d	10%	15%	25%	4%	10%	26%	10%	42% ^g

Table 1: Sources of Retirement Income – Size of the "Three Pillars"

Notes: (a) Percent of total income of average two-person household just after retirment. (b) Public retirement income (public pensions, social assistance, civil servants' pensions, etc.). (c) Private occupational pension income (d) All other retirement income (asset income, net transfers received, earnings, etc.). (e) In France, mandatory occupational pensions are pay-as-you-go financed and are included in the first pillar. (f) In Great Britain, first pilla income also includes SERPS. (g) In the US, 25 percentage points of this figure are earnings. *Sources*: Disney et al. (1998), Gruber and Wise (1999), Börsch-Supan and Miegel (2001).

	Та	ble	2:	Со	mprehensive	Retirement	Income	Repl	lacement	Rate
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	D	\mathbf{F}	Ι	Ε	NL	СН	GB	US
Percent of Preretirement ^a	82%	79%	80%	./.	78%	81%	69%	./.

Notes: All income sources of average two-person retiree household just after retirement as percent of total income average two-person household just before retirement. Source provides no strictly comparable data for Spain and U *Source*: Disney et al. (1998).

European variation

	D	F	Ι	Ε	Γ	NL	СН	GB	US
Percent of GDP	8.6%	5.7%	5.5%	5.0%		116%	112%	76%	108%
Percent of employment				42%		90%	79%	59%	53%

Table 3: Assets and Participation in Tax-Favored Retirement Saving Plans

Source: Antolin, de Serres and de la Maisonneuve (2004). Data refers to year 2000. Life-insurance not included.

Table 4: After-Tax Replacement Rates (Public Pensions)

	D	F	Ι	Ε	NL	СН	GB	US
Percent	77%	77%	97%	92.5%	46%	57%	40%	48%

Source: Adapted from Casey (2003). Based on the salary of an average production worker at "normal" age of retirement. In France, mandatory occupational pensions are pay-as-you-go financed and are included in the above figure. In the Netherlands, mandatory occupational pensions are pre-funded and not included in the above figure.

European variation: taxes

	U							
	D	F	Ι	E	NL	СН	GB	US
Percent	EEP	EEP	EPP	EET	EET	EET	EET	EET
Effective Tax on Contributions				22.1%	37.1%	16.6%	22.1%	29.0%
Effective Tax on Accrued Income				14.5%	12.8%	12.7%	20.1%	22.3%
Effective Tax on Benefits				17.1%	32.1%	11.6%	17.1%	24.0%

Table 5: Tax Treatment of Retirement Savings

Source: Yoo and de Serres (2004). E=tax exempt, P=partially exempt/partially taxed, T=taxed. Comparable data for Germany, France and Italy is not available.





Figure 2: Substitution among savings types ("Crowding out")

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TEA Evidence

- Time series: Kim (1992) in Germany
 - Rossi and Visco (1994) in Italy
- Cross section: Brugiavini (1987), Jappelli (1995) in Italy
- Börsch-Supan and Stahl (1991), Brunsbach and Lang (1998), Walliser and Winter (1999) in Germany
- Alessie, Kapteyn and Kliijn (1997), Kapteyn, Alessie and Lusardi (1997), Euwals (2000) in the Netherlands
- "Experiment": -Attanasio and Brugiavini (1997) using the 1992 Italian Social Security Reform Attanasio and Rohwedder (2004) using UK
- Cross-national panel: Börsch-Supan and Lusardi (2003)

Inea Life-cycle saving patterns

Figure 3: Age-specific saving rates (cohort corrected)



Sources: France: Fall, Loisy, and Talon (2001); Germany: Börsch-Supan, Reil-Held, Rodepeter, Schnabel, and Winter (2001); Italy: Brugiavini and Padula (2001); Netherlands: Alessie and Kapteyn (2001). 9

Interim conclusions

- Tax incentives: PAYG vs. saving/among saving instruments
- PAYG substitution: the role of information
- Mandatory/Quasi-mandatory/Opt-in vs. opt-out

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Table 7. Effects of alferent laxation rules on retirement sav	Table /: E
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	Public retirement insurance	Civil servant pension	Occupational pension I/II (pension promise/ provident fund)	Occupational pension III/IV (direct insurance/ staff pension insurance)	Whole life insurance	Investment fund
Tax Regime	EEP	EET	EET	TET	PEE	TTE
Benefits as percent of contributions	173.3%	143.7%	159.9%	142.8%	143.7%	124.8%

Note: The figures reflect a savings period of 37 years and an annual contribution of EUR 500, a real rate of interest of 3%, a retirement age of 65 and an average tax rate of 22%. Deductions are calculated on the basis of statutory percentage rates; no account is taken of maximum tax allowance amounts. E=tax exempt, P=partially exempt/partially taxed, T=taxed.

Source: Computed from Börsch-Supan and Lührmann (2000)

Germany pre 2001

Individual retirement saving:

Table 8: Composition of household wealth, Germany, 1978–1998

1978	1983	1988	1993	1998
33,8%	26,7%	25,2%	17.5%	22,2%
13,6%	13,0%	9,5%	7.5%	7,5%
16,2%	19,6%	19,7%	31.4%	24,3%
36,4%	36,7%	42,4%	33.3%	30,7%
0,0%	4,0%	3,4%	10.4%	15,3%
100.0%	100.0%	100.0%	100.0%	100.0%
	1978 33,8% 13,6% 16,2% 36,4% 0,0% 100.0%	1978198333,8%26,7%13,6%13,0%16,2%19,6%36,4%36,7%0,0%4,0%100.0%100.0%	19781983198833,8%26,7%25,2%13,6%13,0%9,5%16,2%19,6%19,7%36,4%36,7%42,4%0,0%4,0%3,4%100.0%100.0%100.0%	197819831988199333,8%26,7%25,2%17.5%13,6%13,0%9,5%7.5%16,2%19,6%19,7%31.4%36,4%36,7%42,4%33.3%0,0%4,0%3,4%10.4%100.0%100.0%100.0%

Note: Household data from the Einkommens- and Verbrauchsstichprobe (EVS). Source: Börsch-Supan, Reil-Held, Rodepeter, Schnabel and Winter (1999) and own computations.

Occupational pensions:

Direct pension promise: 202 bn Euro of 342 bn Euro total

The 2001 and 2004 reforms

Riester 2001:

- 1. Replacement rate down by hypothetical uptake
- 2. Introduction of IRA-like Riester pensions
- 3. Deep tax subsidies/credits, plus tight regulation

Rürup-Commission I and II, law in 2004:

- Replacement rate down by "sustainability factor" (indexation by system dependency, quasi notional DC system)
- 2. Some deregulation of Riester pensions
- 3. Deferred taxation, plus tax subsidies/credits



Figure 5: Depth of subsidies to Riester pensions



Note: Direct subsidy/the tax advantage as a percentage of savings in form of the new supplementary pensions. *Source:* Deutsche Bundesbank (2002).

Riester regulations

- 1. Regular contributions.
- 2. Benefits paid out when beneficiary reaches age 60/retirement age.
- 3. Accrued contributions (inclusive of subsidies) guaranteed (i.e., nominal return nonnegative).
- 4. Benefits must be a life long annuity or a disbursement plan.
- 5. Disbursement plan must continue to provide benefits until age 85, then life long annuity.
- 6. Supplementary survivor's coverage must not offset original plan.
- Initial commission and administrative charges must be spread equally over at least 10 years.
- 8. Information must be provided on administrative and switching cost, and investment policies, including ethical, social and ecological investment criteria.

Claims to pension benefits cannot be transferred to third party (incl. not be bequeathed).

Inca Lessons from Riester reform

Take up of Riester pensions

- 1. Very sluggish (2 mio out of about 35 mio)
- 2. IRAs in the 1980s? 401(k)?
- 3. Stalling since 2003

Evidence Boeri-Börsch-Supan-Tabellini:

- 1. People like mandatory retirement saving
- 2. Con: Tax character, implicit guarantees
- 3. Pro: Implicit guarantees, moral hazard, self-control issues

Overall Lessons

Long-run PAYG vs. retirement saving:

- Almost perfect substitution: communicating pipes
- How long is the long run?

Short/medium run role of tax relief:

- Taxes shift saving among instruments
- Effect of even very deep tax relief/subsidies can be offset by restrictions on demand/supply side
- Costs of deferred taxation are high, unless double tax

Information about PAYG evolution!