

Voluntary Retirement Savings: Motivations, Incentives and Design

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Organization

- Why are complementary pension systems important?
- What kinds of systems are in place?
- What are the incentives and other design issues to make these work?

Motivation for Complementary and Funded Pension Systems

Primary

- Supplement Coverage and Benefits from Public schemes
 - Informal Sector
 - High Income Groups
- Diversify pension asset portfolio – complement wage based benefits with benefits linked to financial markets
- Enhance public acceptance of reforms to public system – provide additional benefits with low fiscal exposure
- Alter labor market incentives and behavior – Sorting and retention of workers

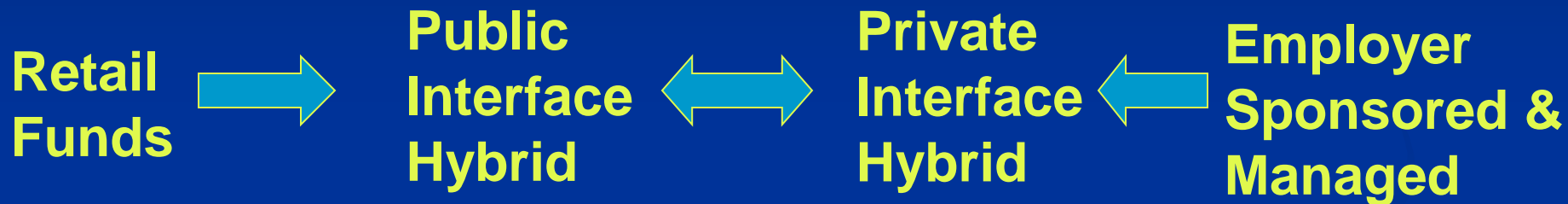
Secondary

- Increase national savings and possibly growth
- Catalyst for savings/financial market participation
- Support capital market development

Enabling Conditions for Implementation and Sustainability

- **Pension specific legal framework** that addresses:
 - Contribution flows, investment management, governance of funds
 - Members rights and dispute resolution (consumer protections)
 - Auditing, valuation and reporting on assets
 - Performance measurement and benefit projections
 - Regulation and supervision
- **Institutional**
 - Reliable custodian and asset management institutions
 - Trading, pricing and payment systems
 - Accounting standards and independent auditing
 - Accessible and credible adjudication of disputes

Models of Complementary Pension Systems



*Commercial
Asset
management*

*Direct Marketing
and
Management
within
Regulatory
Framework*

*Linked to
Mandatory System*

*Use of Clearinghouse
To Lower Costs and
Risks*

*Employer
Organized*

*Private
Administration
And Asset
Management*

*Traditional
Employee
Benefit
Program*

DB and DC

Specialized or Sanctioned Retail Funds

■ IRAs (Individual Retirement Accounts) in the United States

- Simple registration of existing financial institutions with tax authority to enter market
- Essentially no limitation on investment profile or fees
- Tax exemption with low limitations
- Exclusion from tax preference based on income level and participation in employer sponsored tax subsidize arrangement

■ Voluntary Pension System in Pakistan

- Initiated in late 2004
- Low Public System Benefits - No relevance to top quartile of earners
- Initiated by Securities and Exchange Commission in conjunction with effort to expand investment markets
- Existing Asset manager and Insurance Companies Authorized to Accept Funds

Public Interface Hybrid

- **Voluntary Tier of Mandatory Pillars (Latin America, Central & Eastern Europe)**
 - Additional contribution to specialized “pension companies”
 - Utilize same regulatory and transfer structure
- **Swedish Premium Pensions**
 - Allocation of portion of social insurance tax
 - Central public clearinghouse
 - Asset management open to all registered vendors
 - Vendor blind to retail customer
- **NPS in India**
 - Centralized record keeping
 - “Points of Presence” distribution
 - Limited set of licensed investment options

Private Interface Hybrid

- **Majority of US 401(k) plans (Participant Directed)**
 - Employment based platform with payroll deductions and contribution sharing
 - Tax preference with specific limits
 - Employer selects suite of options – worker directs investment
 - Financial firms bundle record keeping and investment services on fee basis
- **Lithuanian, Slovenia Voluntary Funds**
 - Closely controlled licensing of funds (Based on EU UCIT framework)
 - Employer or Union brings group of workers to funds
 - Asset allocation, fees and other elements closely controlled

Firm or Vocational Group

- **Former British Empire (UK, US, Australia, Kenya, Tanzania, India, South Africa, etc)**
 - Employer managed trusts with minimal limitations
 - Both DB and DC
 - Defined benefits forms an endangered species, DC moving towards hybrid forms
 - Risk exposure of employer inefficient cash wage deferred benefit trade-offs driving change
- **Netherlands**
 - Quasi voluntary nature produces high coverage (>90%)
 - Collective management insulates employers from some risks
 - Risk management / Benefit tradeoffs imposing challenges as system moves to risk based supervision
- **Enterprise Annuities in China**
 - Alternative hybrid with employer sponsorship but licensed intermediation (Trustee, Asset managers)
 - Effectively DC in current form

Enabling Conditions

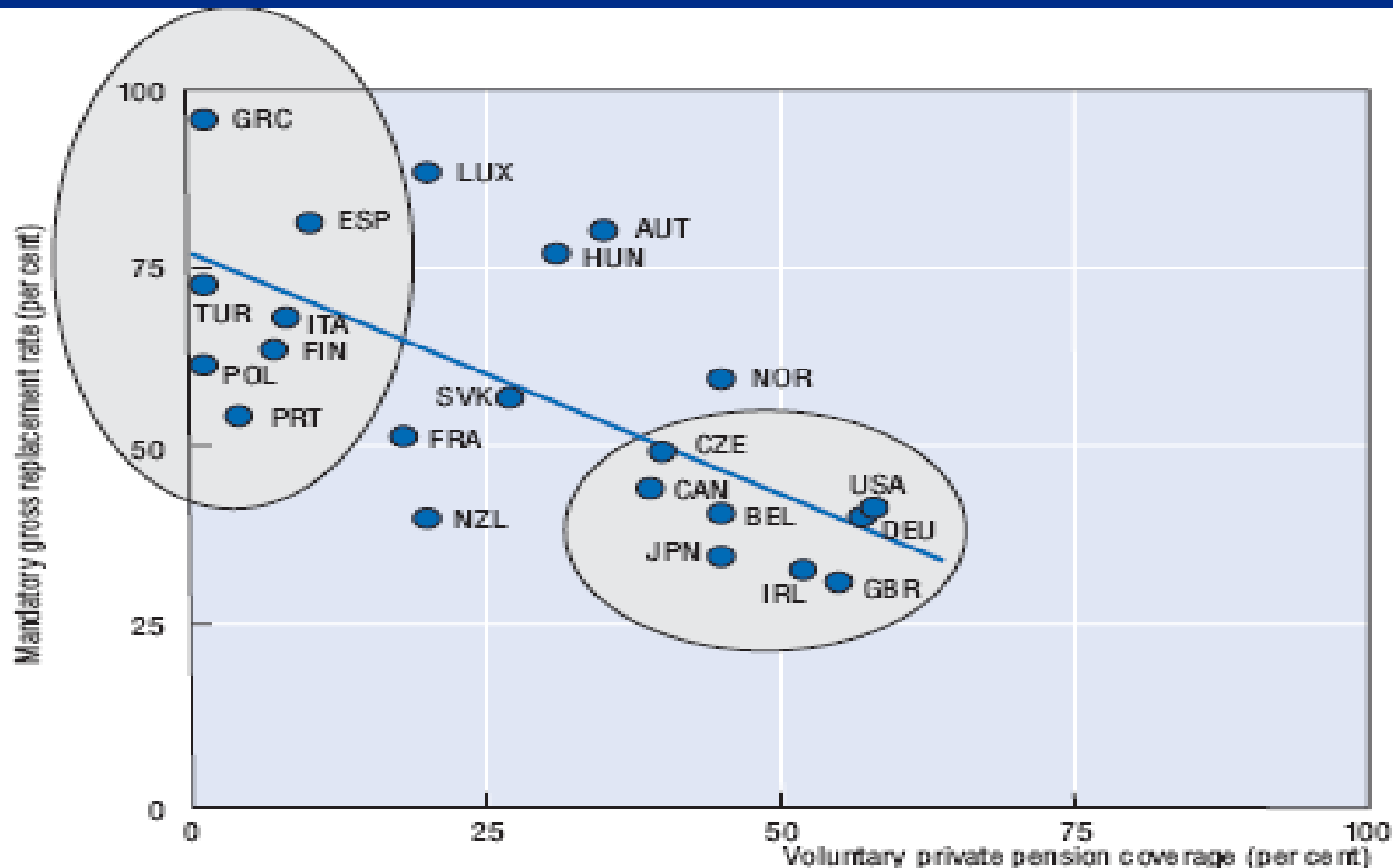
- Commercial/Retail Products
 - *Developed and Reliable Financial Institutions* – well regulated and supervised
 - *Long Term Savings Instruments* - capacity to manage/diversify risks
 - *Financial literacy* within relevant populations
 - *Consumer protections* and systems for dispute resolution
 - *Ability to establish long term character of savings* and distinguish from other private savings – typically through tax treatment or other subsidy
- Employment Based Systems
 - *Labor Market Efficiency* – Wage Benefit Tradeoffs
 - *System of Prudential/ Fiduciary Laws*
 - *Compliance Enforcement of Agency Hazards*
(contribution flows, self investment)

Incentives and Other Design Issues

- Economic Motivations
 - Limitations of Public System
 - Tax subsidies
 - Start up or matching provisions
- Behavioral Issues
 - Defaults: Auto enrollment and active decision
 - Programmed Deferrals
 - Financial Literacy and Trust
 - Marketing and Information

Generosity of the Mandatory Systems is the Strongest Incentive:

Income Replacement Rates and Voluntary Coverage in OECD



Source: OECD, Pensions at a Glance, 2007

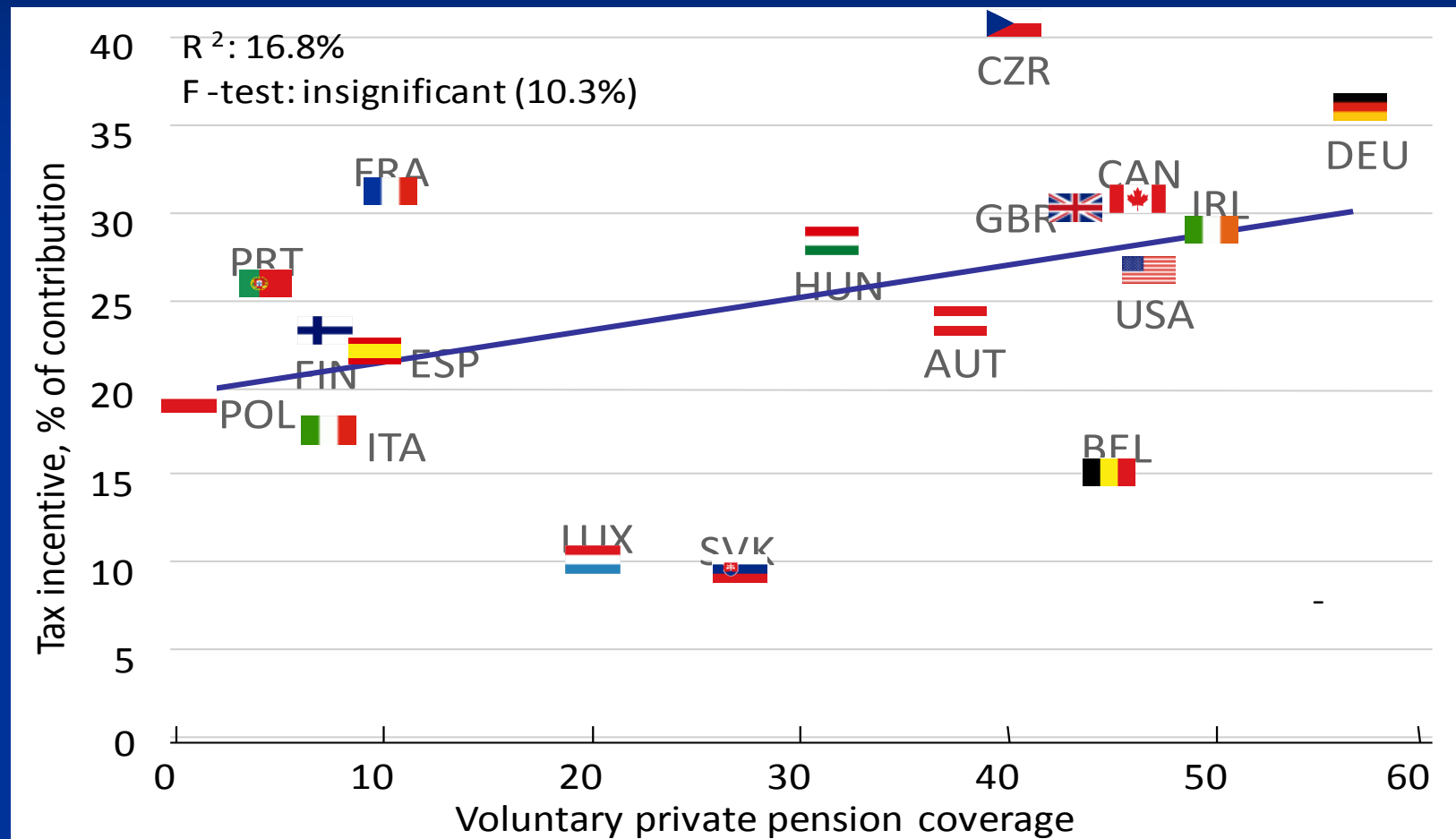
Tax Preferences Can Also Have Indirect Objective

- Availability of preferential tax treatment can be linked to minimum standards or design of pension system
- Common approach in Anglo Saxon countries with occupational systems – limit minimum value, terms and distribution of pension benefits to prescribed standards to receive tax treatment.
- Principle is to link interests of higher income workers and/or owners to moderate or low income - create incentive to extend complementary coverage.

Some Key Policy Question for Tax Incentives

- Do they create high levels of coverage?
- Does it expand the pension system to produce net additions to retirement savings?
- Does it add to overall national savings levels?
- What is the distribution of tax benefits?

Value of Tax Incentives Does Not Predict Coverage of System in OECD



Source: Whitehouse and Antolin, OECD, 2007

How fair is the distribution: The Case of the United States

Distribution of Value of IRA and DC Plan Tax Subsidies

<i>Income Quintile</i>	<i>% or Units</i>	<i>Share of total</i>	<i>Average Value</i>
Lowest	2.0	0.2	\$6
Second	12.7	2.9	\$78
Middle	25.0	8.2	\$218
Fourth	43.0	19.3	\$513
Highest	61.0	69.3	\$1,838
Total	28.7	100.0	\$531

Source: Urban Institute-Brookings Tax Policy Center, 2004

Does it create new savings: “crowd out” or “crowd in”?

- **Studies of the 401(k) system in the US are contradictory**
 - Some find very high substitution through both decreased private savings and leverage suggesting tax arbitrage and substitution
 - Other find conclude net positive additions but at moderate levels – Some estimates (Engen and Gale 2000) estimate that at best 30% represent net additions to savings
- **Many other more complex issues arise from secondary effects (eg form of assets, how government finances tax subsidies)**
- **Preliminary analysis of developing countries and mandatory systems find some net additions**
- **Key factor may be level of development of financial markets – suggests higher potential for substitution in US and Europe**

Coverage in Voluntary Systems

- **Factors Associated with Coverage within systems**
 - Income of workers – Strongest predictor in nearly all settings
 - Age of worker – significant increases at about age 35 - 50
 - Size of Firm has similar effect – very low participation in firms below 25 and informal sector
 - Job Tenure
- All of the factors however interact to create more complex puzzle
- Mitigated by presence of union, employee organization and industry wide funds
- Association of factors with coverage is only moderate – many workers with high expected participation do not – others with low expected probability participate. This suggests many other influences
- Limits of “rational economic” model to explain patterns of coverage and participation have led to increased interest in behavioral issue

Design and Behavioral Issues

- Start up or Matching Provisions
- Defaults: Auto enrollment and active decision
- Programmed Deferrals
- Financial Literacy and Trust
- Marketing and Information

Start Up Incentives and Matching Contributions

- Likely the most direct and easily understood incentive – immediate high percentage rate of return
- Common practice in U.S. 401(k) plans – contribution matching of $\frac{1}{2}$ of employee contributions up to 6% of pay
- Studies of effects however are mixed:
 - Show range of effects from very small to 25% increase in contributions
 - Seem to be related to composition of the group
- More effective at getting workers to join and for low income workers than increasing longer term savings
- Some contradictory effects – may actually reduce worker contribution levels through substitution or providing reference point.
- Key issue is interaction with other factors – Initial evidence is that effects are small when combined with other factors

Behavioral Incentives

“Escape From Freedom”

- **Automatic enrollment** – Series of studies of US and UK show that requiring workers to “opt out” or make active decision within specified time frame increases participation by up to 60% in first year and 15 to 30% over longer terms
 - Several studies conclude that automatic enrollment has greater overall effect than matching contributions over longer term
 - McDonalds achieved 93% participation – but many were small accounts that were not cost effective or sustained
 - Strongest effect among younger and low wage (Nessmith, Utkus and Young, 2007)
- **Default investment choices** – When these provided have strong effect on initial choices with significant persistence – Workers seems to view as implicit investment advice
- **Deferred Savings Decisions** – Evaluation of program in which savings is taken from future salary increase (Benartzi and Thaler, 2003) finds much higher long term savings rates

Financial Literacy, Trust and Information

- Recent study (Agnew et al, 2007) concludes that degree of financial literacy has effect on participation in retirement savings that is equivalent to financial incentives
- Consistent with earlier findings (Munnell et al 2001) report that planning horizon of individual is significant factor in participation in employer sponsored retirement savings
- Experiment with provision of tax credit in US (Duflo et al 2005) indicates that use of incentive increases greatly with explanation and advice – Provider of advice found to be significant factor
- Trust in financial institutions is important – Person expressing lack of trust did not respond to economic incentives even with efforts to explain immediate value of savings
- Provision of information has some effects -in Swedish Premium Pension system majority made active choices when information program was in place – 60% chose default in later period
- Lusardi (2004) found greater effect of seminars for less educated

Two Paradoxes: Choice and Liquidity

- **Choice increases participation ..But too much choice lowers rates of participation and Investment decisions**
 - One study (Papke 2004) finds that ability to choose investments raises participation in savings and amounts saved by 3 to 8%
 - Another (Iyengar et al) finds that an additional 10 investment choices decreases participation rates by 1.5 -2%
- **Availability of loans increase participation but ability to cash out dissipates retirement savings**
 - One study (Munnell et al 2001) finds that loans increase savings by 1% of earnings – another (GAO 1997) find increases savings rates by a third
 - Experience over 20 years indicates that half of workers take cash out when changing jobs – although now about 80% of the money is ultimately saved for retirement purposes
 - The greater the amount of the fund balances the less is cashed out.

Suggested Explanations for Observed Behavior

- Reluctance to make decisions in the face of uncertainty
 - Seeking reference points – Safety of the crowd
- Present Orientation – “Hyperbolic Discounting”
- Inertia and Procrastination
- Nominal Loss Aversion – fear of loss greater than desire for gain
- Information Overload – Inability to make decision with too many choices
- Signaling and Framing Effects – Choices interpreted as providing advice -Employer or Government perceived as endorsing choices

Some Interesting Innovations

- Group Savings Arrangements – ROSCAs
- Highly asymmetric return patterns – integration with lottery structure – South Africa program begun in 2005
- Reister Pensions in Germany –
 - Tax exemption and fixed subsidy with additional subsidies for number of children
 - No withdrawals until age 60
- U.S. Pension Protection Act 401(k) revisions
 - Auto enrollment, default options and investment advice
- The Kiwi-Saver system in New Zealand

KiwiSaver – Rules Based Solutions

- **Attempt to incorporate lessons learned from existing forms**
- **Design Principles**
 - All new workers enrolled – can then opt out within specified time period
 - Five year or retirement age lock in
 - Employer can contribute – also substitute scheme
 - \$1,000 government start up contribution
 - Public clearinghouse of contributions
 - Limited investment options
 - Individual choice with defaults

Kiwi-Saver Refinements

- Short opt out window - 2 to 8 weeks only
- 3 month holding period to facilitate choice
- Minimum balance before transfer to control fees in relation to balance
- Optional contributions holiday – but only after one year – 5 year maximum but renewable
- Hardship exceptions
- One half of contribution can be directed to qualified mortgage
- Providers established through government tender process – Multiple funds but one default with long term orientation

Some General Conclusions

- Size and perception of public system matters a lot
- Tax incentives are effective but not sufficient condition
 - greatest effect on higher income groups creates distributional hazards
- Evidence is that “rational economic” model only partially explains outcomes
- Behavior issues are very important – Inertia, financial literacy, loss aversion, information and trust – especially for lower income groups
- How and by whom choices are presented is very important