

## The policy issues

- Do people make sensible choices about whether to save for retirement and if so how much, in the UK context?
- The adequacy of retirement saving is a policy concern: many reports e.g. forthcoming from Pension Commission
- The saving issue is related to whether individuals are capable of making 'rational' choices concerning retirement saving.
- It is now fashionable to construct 'models' of behaviour where people are not 'life cycle' savers.
- This is embodied in ideas of bounded rationality, time inconsistent behaviour, and so on.
- Such views then used to justified interventions such as compulsion, changing default options on saving programmes etc.


## An alternative view

- People face an uncertain environment and a set of very complex pension choices
- There are costs to acquiring information on what are 'rational' optimal choices
- Government policies are frequently time inconsistent and poorly evaluated (especially at the time of implementation)
- Professional advice is often poor and self-serving to the commercial interests providing the advice
- Welfare maximising households are therefore trying to save over their life cycle subject to imperfect information, which is costly to acquire, and to uncertainty.
- They make mistakes and regret with hindsight although choice may have been 'rational' at the time
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## Plan of paper

- Summarise increasing complexity of pension choices in UK
- Summarise 'life cycle' model of saving and provide simple illustration in context of alternative definitions of saving 'adequacy'
- Sketch out the 'new views' ('behavioural models') of household choices
- Evaluate examples where behaviour might be at odds with stated aims, or predictions.
- Focus on four policies:
- Who bought Personal Pensions?
- Why do people not join company pension plans when they have the chance?
- Why have Stakeholder Pensions had no effect on take-up of private pensions?
- Will the Pension Credit improve saving incentives?


## Evolution of pension programme in UK

- Pre-1975: Beveridge. Limited access to private pensions (DB or DC). 'Two nations' of pensioners
- 1975-86: Opting out of SERPS permitted into DB company plans.
- 1986-97: Opting out expanded to include DCs plans. More variety of private plans. Growth of Personal Pensions.
- 1997 on: SERPS replaced by S2P. Another option for opting out: Stakeholder Pensions. Introduction of Pension Credit.
- Trend to greater complexity in provision....

Two nations of pensioners?

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The 1980s: The sticks and carrots to greater contracting-out


Fundamental reform or just greater complexity? UK pension scheme 2005

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The benchmark for the 'rational' saver: the life cycle/Permanent Income model of consumption smoothing

- Attributable to Modigliani et al (1954/55), Friedman (1957)
- Households have access to capital markets
- They save \& borrow to smooth consumption in the face of income fluctuations
- The model is sophisticated insofar as it can deal with:
- Variations in household preferences over the life cycle (demographics)
- Uncertain income streams
- Alternative motives for saving (e.g. retirement, precautionary, bequests) and choice of saving instruments
Costs of acquiring information(?)
- Note that no model predicts ex post that some households don't regret their actions given new information!


## Saving adequacy

- It is a common perception that retirement saving is 'inadequate' in the UK
- Cannot be derived from aggregate 'saving rate; which is an accounting, not an economic concept.
- Need a definition of 'adequacy' (consumption smoothing?)
- And to agree as to what resources are included in lifetime wealth
- The US debate (e.g. Bernheim et al v Engen, Gale at Brookings, Mitchell \& Moore NBER 1997) and elsewher (e.g. Piggott et al for Australia, Scobie and Gibson for NZ) does not prove that most households 'undersave' (the poor certainly don't save)
- A simple illustration from the LCH model


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## The revisionist view of saving

- People cannot optimise complex intertemporal problems
- They adopt simple 'rules of thumb' and ignore timevarying incentives
- 'Bounded rationality' implies people collapse the future to a single period - save now or tomorrow?
- But people have non-linear preferences and prefer to defer to tomorrow choices that should be made today
- 'Framing' choices implies that people go for the standard or 'default' option rather than what is best for them
- Implies greater role for compulsion, paternalism in saving choices, framing options the 'right' way


## Comments on the revisionist view

- Obviously people do not solve complex recursive problems in their head!
- People rely on advice - if the advice is bad, then so is the decision
- How do people process what is 'good' advice? (for example: they may treat the 'default option' as information)
- Evidence on lack of saving is not per se evidence of irrationality (e.g. saving is affected by the presence of a public programme)
- We can examine some cases where people face choices (e.g. take-up of private pension benefits) and search for evidence of inconsistency or 'irrationality'


## Four examples:

- Personal pensions
- A bad choice for many?
- Occupational pensions
- Why doesn't everybody join their OP scheme?
- Stakeholder pensions
- Targeted at middle earners - why didn't they buy them?
- Pension Credit
- For the future - how will it affect incentives?
- I'll show:
- Household behaviour is consistent with actual incentives
- What is not always easy to understand is the intention of the policy!
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Who bought Personal Pensions after 1987?

- Personal Pensions have had a bad press due to misselling, high administrative costs etc.
- But take-up far exceeded expectations of policy-makers
- Initial incentives to contract-out into Personal Pension were substantial, on average
- But the 'return' to contracting out of SERPS into a Personal Pension varied by age group $\qquad$
- So a standard incentive model would predict:
- High take-up overall
- High take-up among groups where incentives were highest
- These were younger earners, who traditionally do not save for retirement (compare with take-up by age in US of IRAs)

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Assumptions: $2 \%$ rear earnings growth; $3.5 \%$ rate of return after tax; lump sum annual charge $+4 \%$ of value of fund at purchase of annuity

Who switched? Coverage of personal pensions in the United Kingdom by age, 1987 and 1995 (per cent of employees)


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Why do people not join their occupational pension plans?

- A significant minority of people who are covered by a pension plan do not take-up the offer - they prefer to buy a Personal Pension or contract-in to SERPS/S2P
- This could be myopia and/or a preference for current consumption (thereby they do not have to pay employee contribution) - so maybe should not permit?
- But they forgo employer contribution and (on average) more generous prospective entitlements
- But accrual structures of DB plans are 'backloaded' and expected quitters may be better off in a portable pension plan
- Moreover, after 'job search' they may find a better job and subsequently join a pension plan, if offered.
their OP pension plan
Source: Disney and Emmerson, IFS Working Paper 02/09

|  | Offered OP? |  |  |
| :--- | :---: | :---: | :---: |
|  | No <br> $(47 \%)$ | Yes <br> $(53 \%)$ | All |
| $(100 \%)$ |  |  |  |

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| (Conditional) Probabilities of moving job and pension status |  |  |  |  |
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| Pension in year |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  | None PP | None | PP | OP | Both |
| Not offered: |  |  |  |  |  |
| None | 65.63 .9 | 14.4 | 1.2 | 13.7 | 1.1 |
| PP | $16.3 \quad 53.8$ | 2.8 | 14.7 | 7.8 | 4.7 |
| Offerect $P$ P | $\begin{array}{ll\|l\|l\|l\|l} 41.8 & 2.4 & 29.1 & 3.8 & 21.7 & 1.2 \\ 8.0 & 33.7 & 7.4 & 36.8 & 7.4 & 6.7 \\ \hline \end{array}$ |  |  |  |  |
| None |  |  |  |  |  |
| PP |  |  |  |  |  |
| OP | $21.6 \quad 2.9$ | 13.2 | 1.9 | 55.7 | 4.7 |
| Both | 13.719 .4 | 6.5 | 16.5 | 18.7 | 25.2 |

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Stakeholder pensions: what evidence of take-up?
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- Targeted by Green Paper at 'middle income earners' (c£10k - £20k)
- Impact on take-up rates seems minimal, especially among target group
- Was this myopia among the target group or was the policy 'experiment' not thought through?
- Current research with Emmerson and Wakefield (IFS)

| Private pension coverage by type |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 1999 | 2000 | 2001 | 2002 | $99-02$ |
| SHP | 0.0 | 0.0 | 0.9 | 1.4 | +1.4 |
| PP | 11.2 | 10.1 | 9.7 | 8.7 | -2.5 |
| OP | 46.8 | 46.6 | 46.9 | 46.8 | 0.0 |
| Multiple | 1.9 | 1.9 | 2.0 | 2.2 | +0.3 |
| Total | 59.8 | 58.6 | 59.4 | 58.9 | -0.8 |


| Private pension coverage, by earnings group |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 1999 | 2000 | 2001 | 2002 | $99-02$ |
| Zero | 3.4 | 3.6 | 3.5 | 3.5 | +0.1 |
| Low | 34.0 | 34.2 | 35.6 | 35.2 | +1.2 |
| Medium | 68.2 | 66.9 | 67.3 | 65.5 | -2.7 |
| High | 86.2 | 85.4 | 84.6 | 83.8 | -2.4 |

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Change in coverage relative to trend: 'Diff-in-diff' effects (1)

- Zero earners: $0.3 \%$ ( $0.4 \%$ )
- Low earners: $\quad 3.6 \%(1.7 \%)^{*}$
- Mid earners: $1.6 \%$ ( $1.1 \%$ )
- Significant only for 'low’ group
- Small \& insignificant for target ('mid') group
- Surprising?
- Low earners finding money to save?
- Could another element of SHP reform drive this pattern?

Diff-in-diff effects (2)
Take account of spouse's income:
First term is own income, $2^{\text {nd }}$ term is spouse's income $\qquad$

- Zero + zero/low: $0.1 \%(0.3 \%)$
- Zero + mid/high: $1.1 \%$ ( $0.8 \%$ )
- Low + zero/low: $2.6 \%$ (1.6\%)
- Low + mid/high: $5.2 \%(2.3 \%)^{*}$
- Mid + zero/low: $1.7 \%$ (1.3\%)
- Mid + mid/high: $1.4 \%$ (1.4\%)
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| Diff-in-diff effects (2) |  |
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| - Zero + mid/high: | $1.1 \%(0.8 \%)$ |
| - Low + zero/low: | $2.6 \%(1.6 \%)$ |
| - Low + mid/high: | $5.2 \%(2.3 \%)^{*}$ |
| - Mid + zero/low: | $1.7 \%(1.3 \%)$ |
| - Mid + mid/high: | $1.4 \%(1.4 \%)$ |
|  |  |



Suggests a direct test of effect on private pension coverage: Diff-in-diff effects (3) $\qquad$

- Had a limit increase: $\quad 2.4 \%(0.9 \%)^{*}$
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- Limit increase \& zero earnings: $0.6 \%(0.3 \%)^{*}$
- Limit increase \& earnings: $3.3 \%(1.4 \%)^{*}$
- Inferences:
- Targeting on middle income earners irrelevant
- There was a downward trend in coverage overall 1999-2002
- But new contribution limits induced positive change in coverage, mostly among zero/low earners married to better off spouses (mostly husbands)
- This, not the Green Paper 'target group', was the 'real' reform


## Should low and middle income families

 save at all for retirement?- Introduction of Pension Credit intended to 'improve incentives' relative to $100 \%$ withdrawal from MIG/PCG
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- But there are both wealth and substitution effects involved.
- And Pension Credit currently uprated more generously than Basic State Pension, so eligibility will increase as \% of population. $\qquad$
- Pension Credit more likely to reduce incentives to save, not increase them
- There are both wealth and substitution effects to policy reforms such as Pension Credit, size of COR etc.
- But people would not be wise to assume that Pension $\qquad$ Credit will continue in present form..

MIG v. Pension Credit: Incentive effects on saving
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## Conclusions

- Have examined incentives attached to various retirement saving policies
- The basic model is of a rational consumer optimising subject to uncertainty and imperfect information
- Some 'revisionist' theory argues that consumers can't do this - so greater role for paternalist interventions
- For 3 case studies (and 1 projected outcome) reasonable evidence that consumer response, at the time, was broadly 'rational' (even if subsequent 'regret')
- That behaviour did not accord with prior evaluations suggests improving quality of evaluations (and policies)!
- In such circumstances, need to be careful before promoting excessive degree of prescription in saving behaviour.
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[^0]:    Source: Whitehouse World Bank WP 1998, based on one per cent sample of personal-pension members in
    Department of Social Security; employment data from quarterly Labour Force Survey

