

Centre for Law, Markets and Regulation, UNSW Law

Whose best interests? The effects of member heterogeneity on strategy optimality in Australian superannuation funds.

By M. Scott Donald PhD CFA

Super fund trustees have a duty to exercise their powers in the best interests of members as a whole ...

... but what if they are all different?





The more diverse (heterogenous) the members are, the bigger the challenge

The Stronger Super regime formalised a choice architecture with choices at several points:

- Fund Choice (incl SMSFs)
- Member Investment Choice

MySuper products cater to those who do not choose an investment option (and some who do)

Trustees can (and arguably should) respond to heterogeneity by:

- 1. Offering member investment choice
- 2. Implementing a life-cycle approach in their MySuper product*





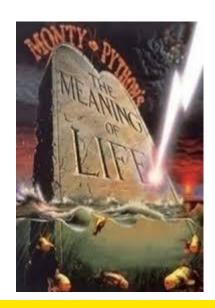
^{*} Assuming you think this is a good thing, and I am not convinced

What drives individual investment strategy optimality over the life-cycle?

Salient inputs (Merton, Bodie et al):

- Time horizon (age, health)
- Wealth (relative to needs)
- Income
- Marital status (because of joint holdings)
- Gender (because of different contribution trajectory and longevity)

Note this is distinct from subjective and behavioural factors (which is where choice architecture comes in)





What do trustees know about individual members?

The key dimensions of diversity that trustees can observe are:

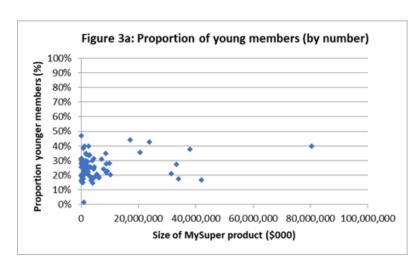
- Age (as a proxy for investment time horizon)
- Gender
- Account size (as a very poor proxy for wealth)

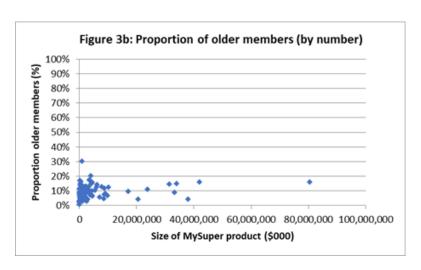
The key dimensions of diversity that trustees <u>cannot</u> confidently observe are:

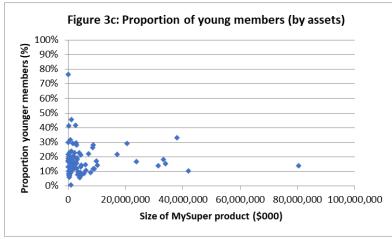
- Marital status
- Health
- Current income
- Other stores of wealth

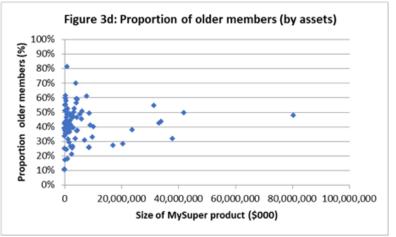


There is considerable age diversity



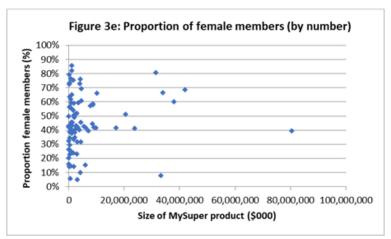


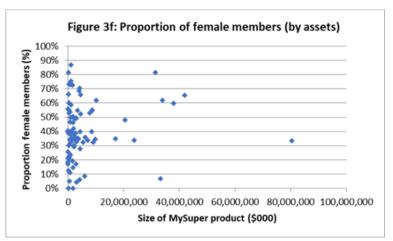


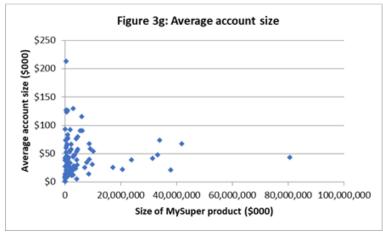




There is also diversity by gender and account size









So yes, there is salient heterogeneity at fund level

Table 3 - Heterogeneity across MySuper products										
	Young (<35)		Older (>54)		% female		Average	Target	Alloc.to	
							Account	Return	Equities	
	(by #)	(by \$)	(by #)	(by \$)	(by #)	(by \$)	(\$000)	(%pa)	(%)	
Max	47%	76%	30%	81%	86%	87%	213	5.6	77.5	
1st Decile	36%	29%	16%	56%	73%	69%	90	5.0	60.2	
1st Quartile	30%	21%	13%	49%	59%	55%	63	4.2	58.0	
Median	24%	15%	10%	41%	43%	39%	40	3.7	54.0	
3rd Quartile	20%	10%	7%	35%	35%	29%	20	3.0	50.0	
9th Decile	17%	7%	4%	25%	16%	12%	10	2.6	45.0	
Min	2%	0%	1%	10%	5%	0%	0	2.0	30.0	
MySuper population*	29%	18%	8%	45%	48%	44%	33			
Super population	35%	9%	21%	50%	46%	41%	53			
Working population	39%		19%		47%					

Based on APRA data as at 30 June 2017, ABS data for working population

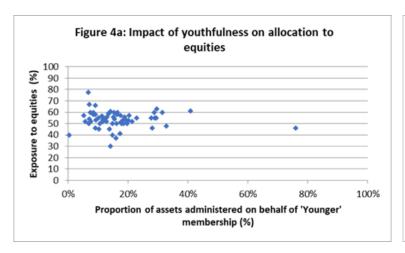


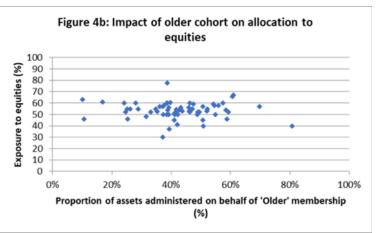
So do trustees manage their MySuper products differently, depending on their membership?

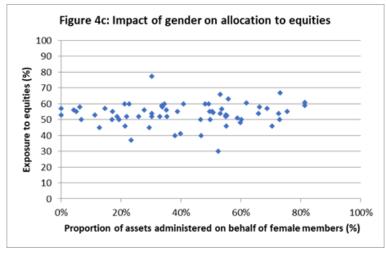
- If you ask them, they say yes (See Butt et al 2017)
- If you look at their stated objectives, you have to conclude "no".
- ➤ If you look at their actual asset allocation, you cannot confidently say "yes".
- If you look for a decision to use a life-cycle approach, you have to conclude "no".

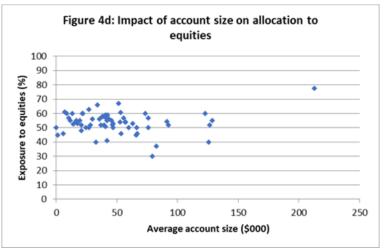


The pictures don't tell the story we expect ...



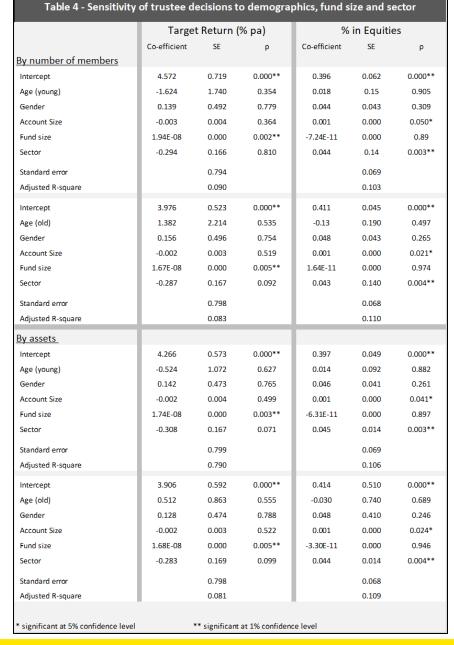








The numbers do not reveal a compelling relationship between MySuper product demographics and either the trustees' declared target return, nor their actual investment strategy



Note: not for quotation without prior written authority from author



The story is no clearer in respect of trustees adopting life-cycle approaches ...

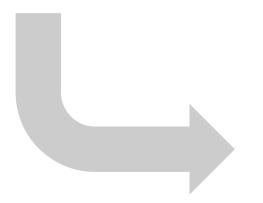


Table 5 - Propensity of trustees to offer Life-cycle products								
	Co-efficient	SE	р					
By number of members								
Intercept	2.312	2.837	0.415					
Age (young + old)	-12.406	7.692	0.107					
Gender	0.337	1.515	0.824					
Account Size	-0.010	0.110	0.361					
Fund size	0.00E+00	0.000	0.035*					
Sector	0.296	0.433	0.494					
By assets								
Intercept	1.084	3.235	0.738					
Age (young + old)	-3.978	4.490	0.376					
Gender	0.256	1.445	0.859					
Account Size	-0.006	0.011	0.564					
Fund size	0.00E+00	0.000	0.117					
Sector	-0.082	0.425	0.847					
* significant at 5% confidence level								
** significant at 1% confidence level								

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Conclusion

It does not appear that trustees responsible for MySuper products are calibrating their investment strategies to match their members' demographics or responding to diversity by offering Life-cycle

But before we jump to conclusions ...

This could be because they feel the need to be 'true to label'

Or

There may be a hidden variable (which is ?)

Or

➤ The statistical tools are inadequate (but I don't think that is the reason)



