

RISK PROFILING FOR THE DECUMULATION WORLD

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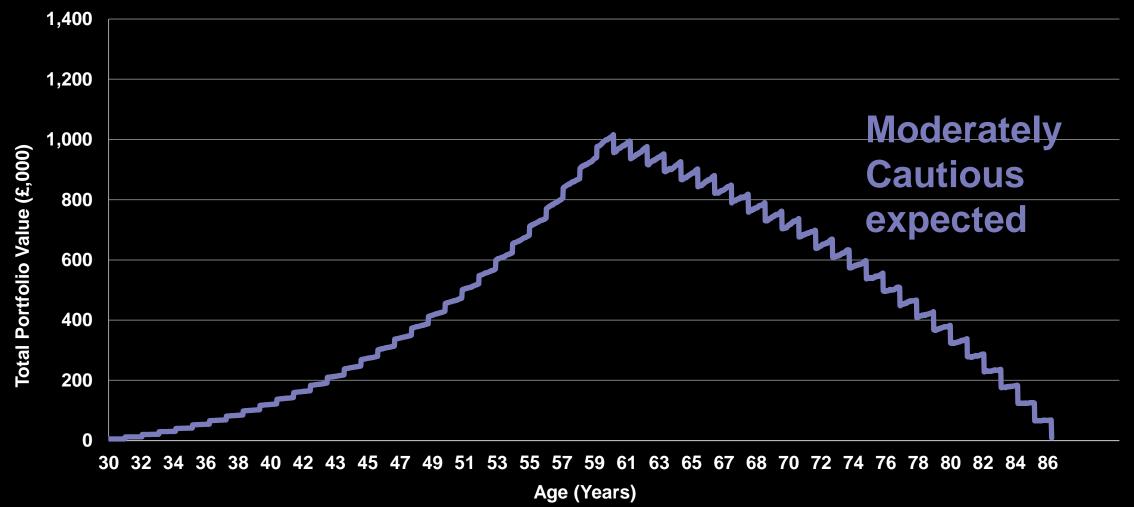


- We are concerned with poor outcomes for retirees.
- We have previously discussed how investment risk is often framed incorrectly.
 - We review the impact of the other risks, quantifying their true risk Goals Risk.



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A simple saving model





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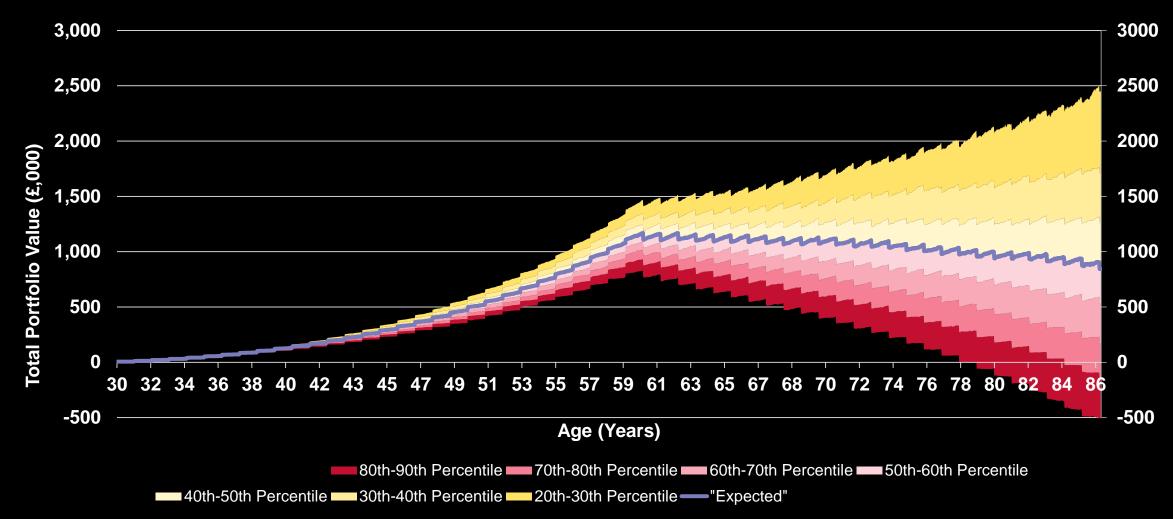
Moving up the risk scale





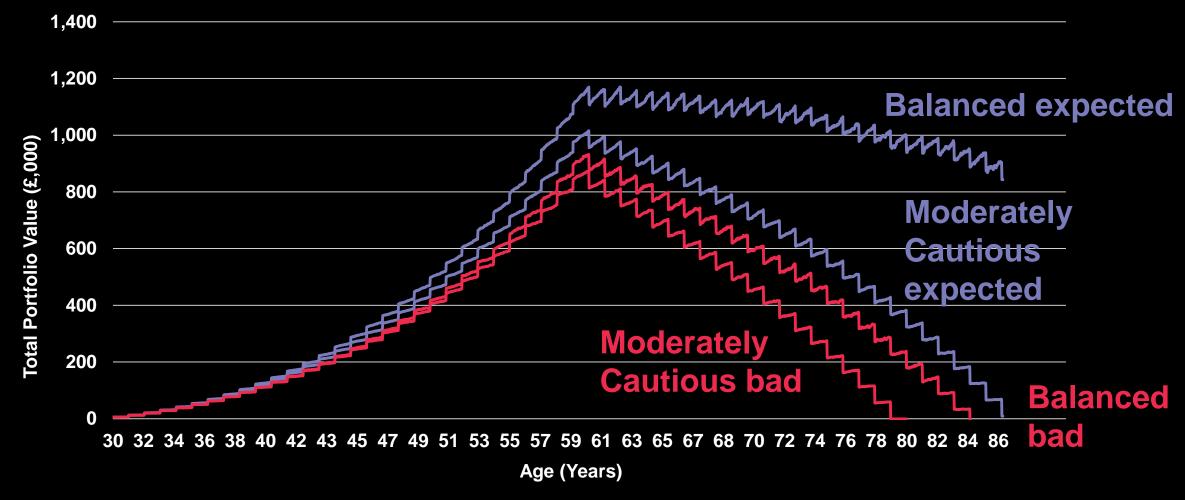
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Looking at the range of returns





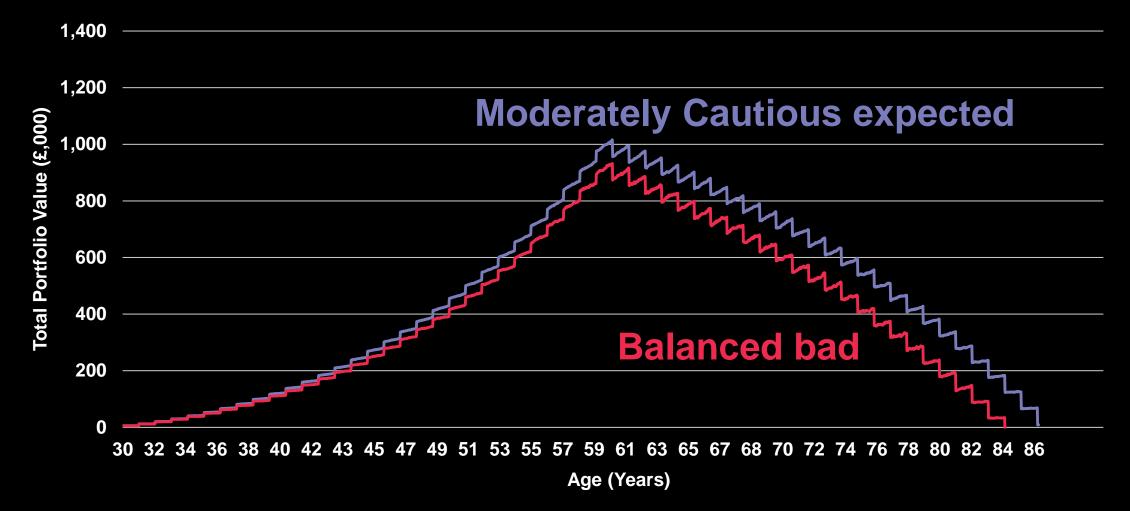
Comparing bad outcomes



SOURCE: 7IM. THE CHART DEPICTS THE 50TH AND 80TH PERCENTILE OF RETURNS GENERATED FROM A SIMULATION PROCESS USING 12 YEARS OF HISTORICAL DATA FOR EACH RISK PROFILE. THE RESULTS ASSUME NO CHANGES TO THE INVESTMENT MIX ARE MADE OVER THE LIFE OF THE FUND.



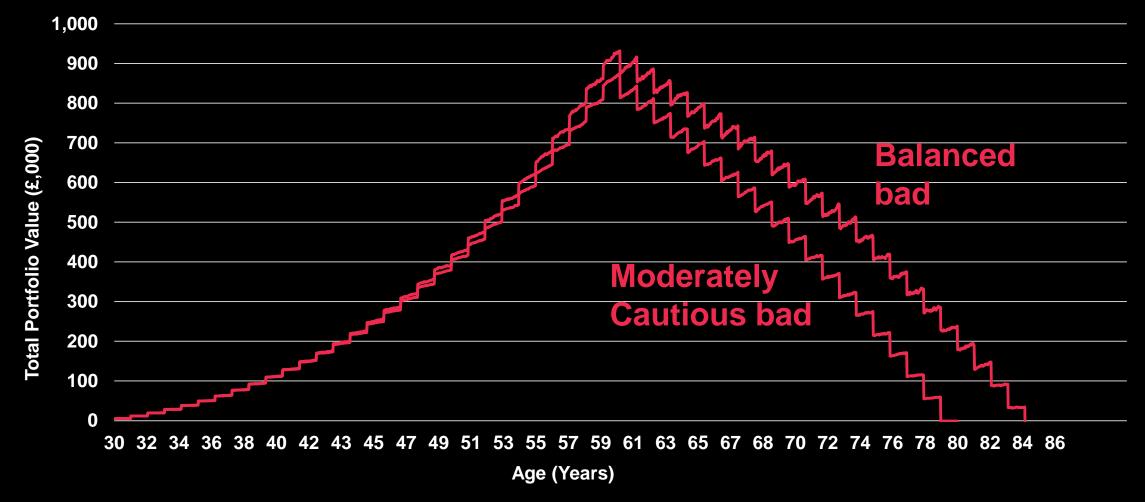
The comparison clients often make





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Comparing bad outcomes



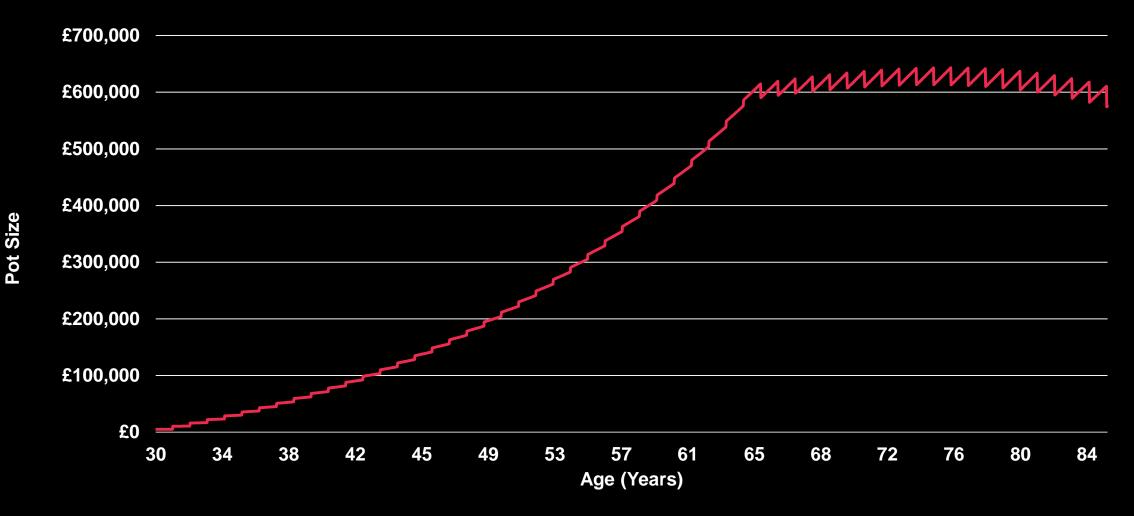




Risks for a saver



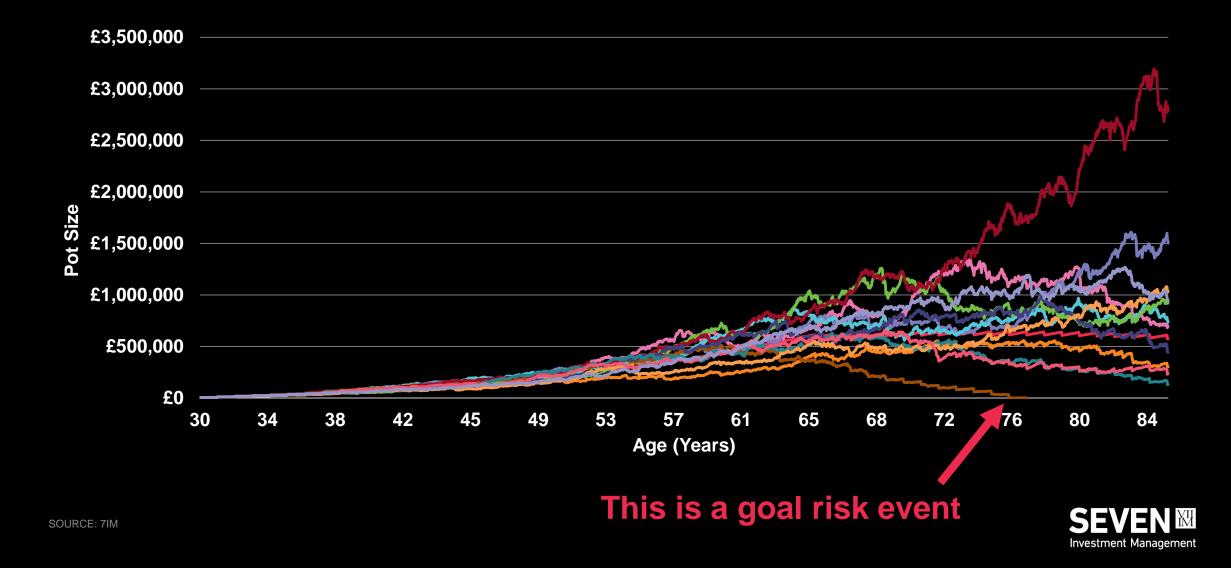
A saver with no risk





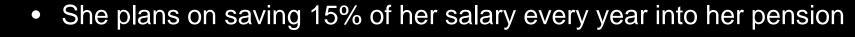
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Simulating Investment Risk





• Mrs Miggins is 30 years of age:



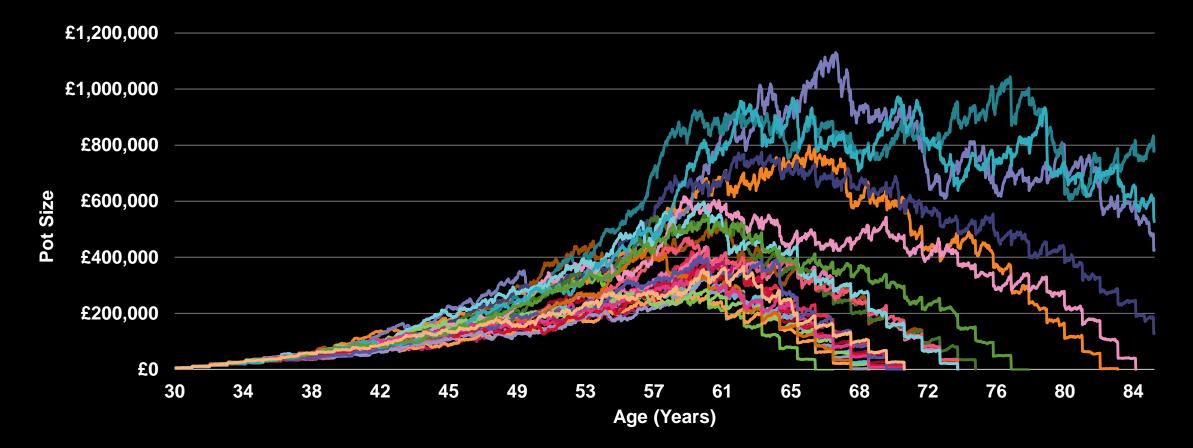
- She wants to retire at 60
- She wants her portfolio to provide 40% of her final salary as income
- She is comfortable with some investment risk, so targets a 5% return (Balanced)

• What is Mrs Miggins' risk profile?





Simulating Mrs Miggins' risk



A goals risk profile should reflect the real risk of a retirement plan – the risk of running out of money



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Capacity for (investment) loss

Capacity for Loss refers to "the customer's ability to absorb falls in the value of their investment... (that would) have a materially detrimental effect on their standard of living."

Source: FCA FG11-05

"One concern we have is that I personally have some conversations with people in the industry and I get the impression they don't quite get what capacity for loss is. They start to talk about clients' emotional reactions to losses."

Source: Rory Percival, November 2014





Risks for a saver





Which lever is biggest?

Likelihood of meeting goal

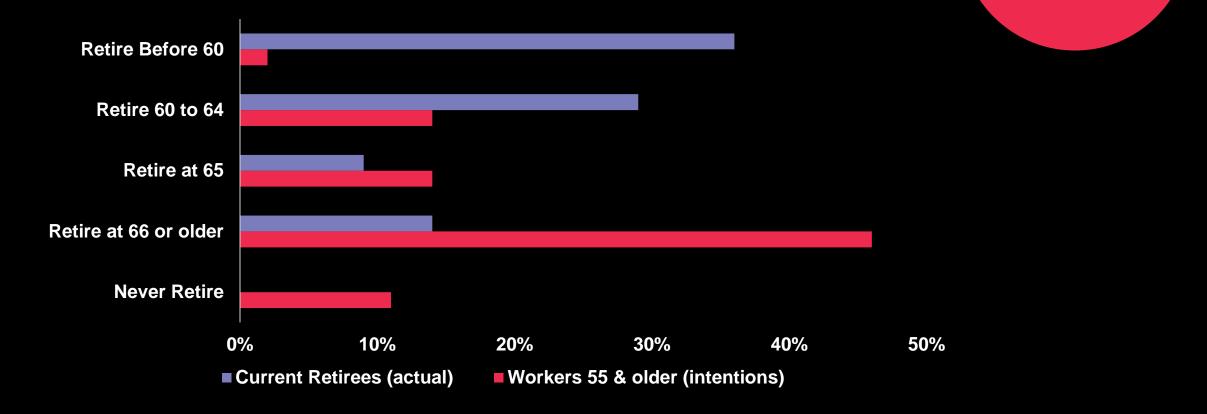
	Saving 1% of salary	3.8%	
Impact of	Increasing investment return by 1 %	7.1%	more likely
	Retiring 5 years 5 later	15.7%	





Retiring later?

When older workers plan to retire versus when retirees actually retired:





Savings

Risk

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Saving later?

- How would a 25% decline in the amount saved (as a proportion of salary) change a retiree's probability of a successful outcome?
 - For example, a savings rate of 8% of income is reduced to 6% of income.

• Holding other assumptions constant, Balanced plans that would have a 70% chance of goal success fall to about 40%.





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Living longer?

Longevity Risk

- How would a 10 year increase in lifespan change a retiree's probability of a successful outcome?
 - For example, a retiree lives to 95 rather than 85 years.

 Holding other assumptions constant, Balanced plans that would have a 75% chance of goal success fall to about 50%.



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Incorporating Longevity Risk

Incorporating Longevity Risk can decrease Goals Risk:

Market Risk, Mortality Risk, and Sustainable Retirement Asset Allocation: A Downside Risk Perspective

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Keith C. Brown University of Texas Department of Finance B6600 Austin, TX 78712 (512) 471-6520 E-mail: keith.brown@mccombs.utexas.edu Longevity Risk



What about expected returns?

- How would a 2% decline in investment return change a retiree's probability of a successful outcome?
 - Over the last 10 years, yields on 10 year Gilts have fallen from 4.7% to 1.5%.

• Holding other assumptions constant, plans that have a 70% probability of goal success fall to about 25% (meaning they are *expected to fail*).



Investment

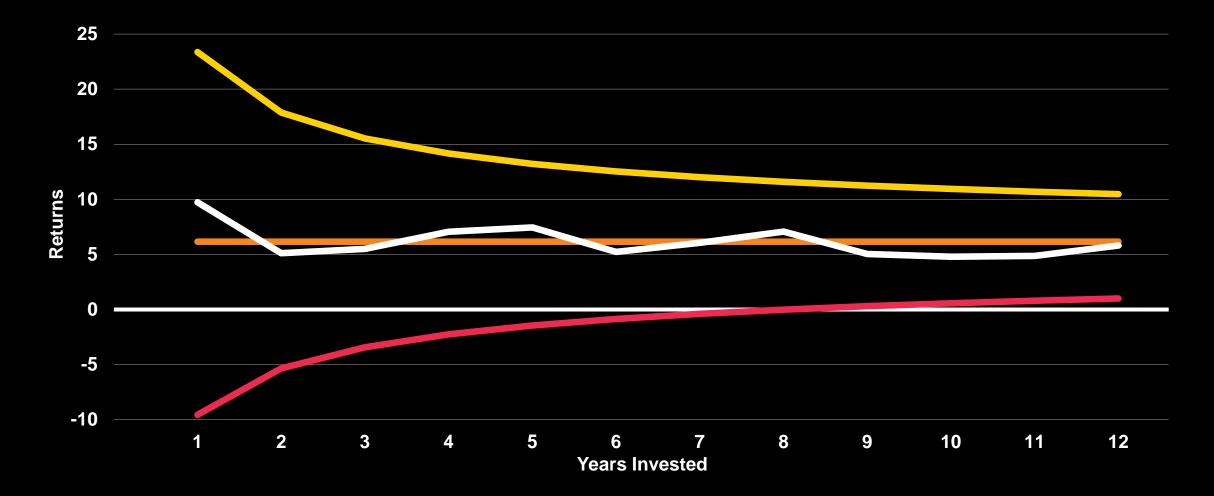
Risk



Implications of the results



7IM – managed to expected return







THANK YOU

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