


Investment Debate

Ian Maybury



**Are we bound by
bonds? Is there
opportunity in equity**

14th April 2011

Defined Benefit (DB) Pensions

R.I.P

Defined Benefit (DB) Pensions in the “End Game”

- **Closed** to New Entrants
 - **Closure** to Future Accrual
 - Increased recognition of deficit and contribution **volatility** on corporate and public balance sheet
 - Increasing **regulation**
-
- Therefore DB Pensions no longer a “**Long Term**” problem.
 - Increased focus on **risk management**



Defined Benefit (DB) Pensions R.I.P

No more “Set and Forget” Investment Strategy



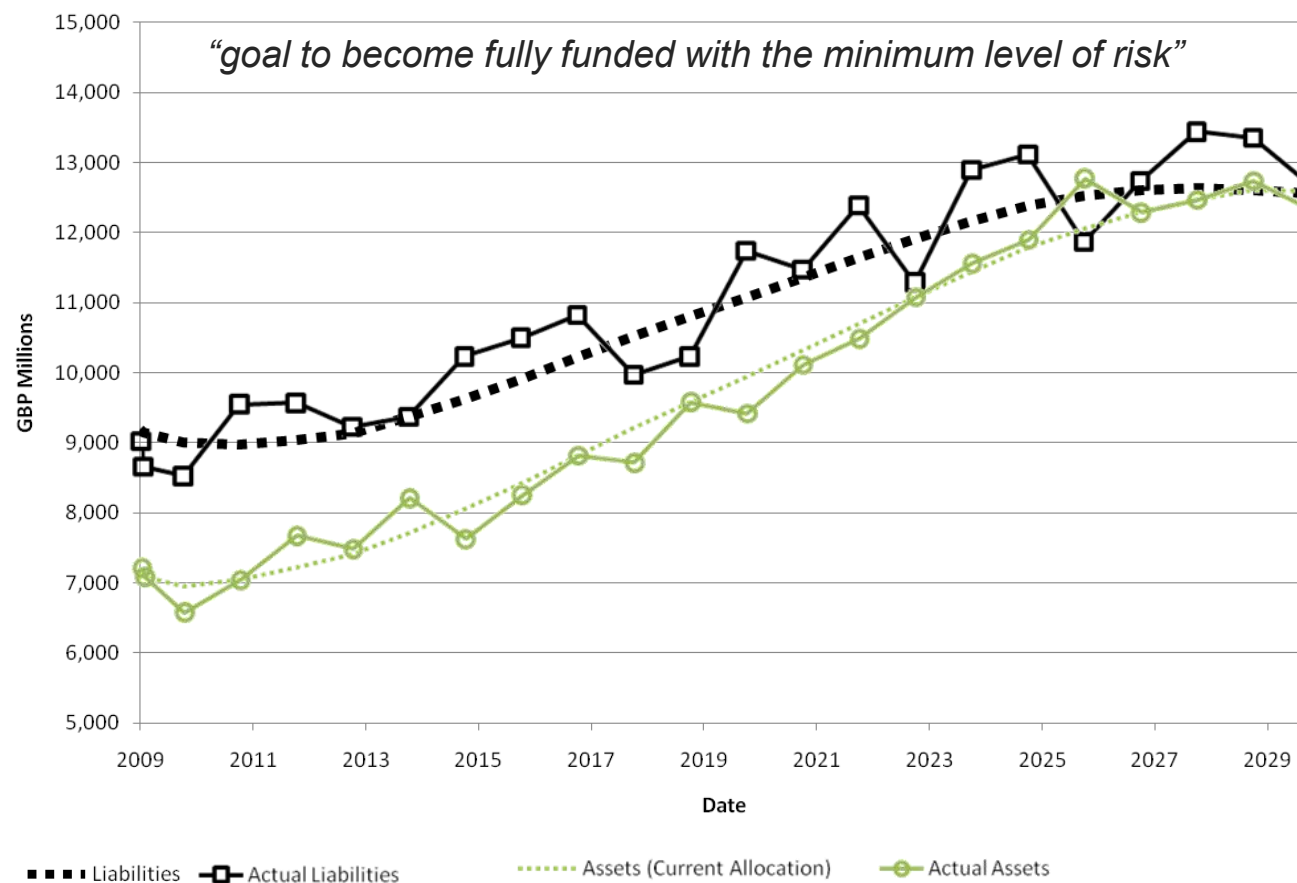
- A need for “Anticipate and Re-calibrate”

Pension Risk Management Framework

Set clear Goals and Objectives

Flight Plan for pension schemes

- a clear set of overall objectives that define your **scheme's goals** and **long term strategy**
- designed to **identify clear outcomes**, define the target path of your assets and liabilities, and to assist in monitoring the journey
- Regular reporting with clear risk analysis that offers regular insight and is a **"call to action"** for trustees, sponsors and key stakeholders



Pension Risk Management Framework

PRMF



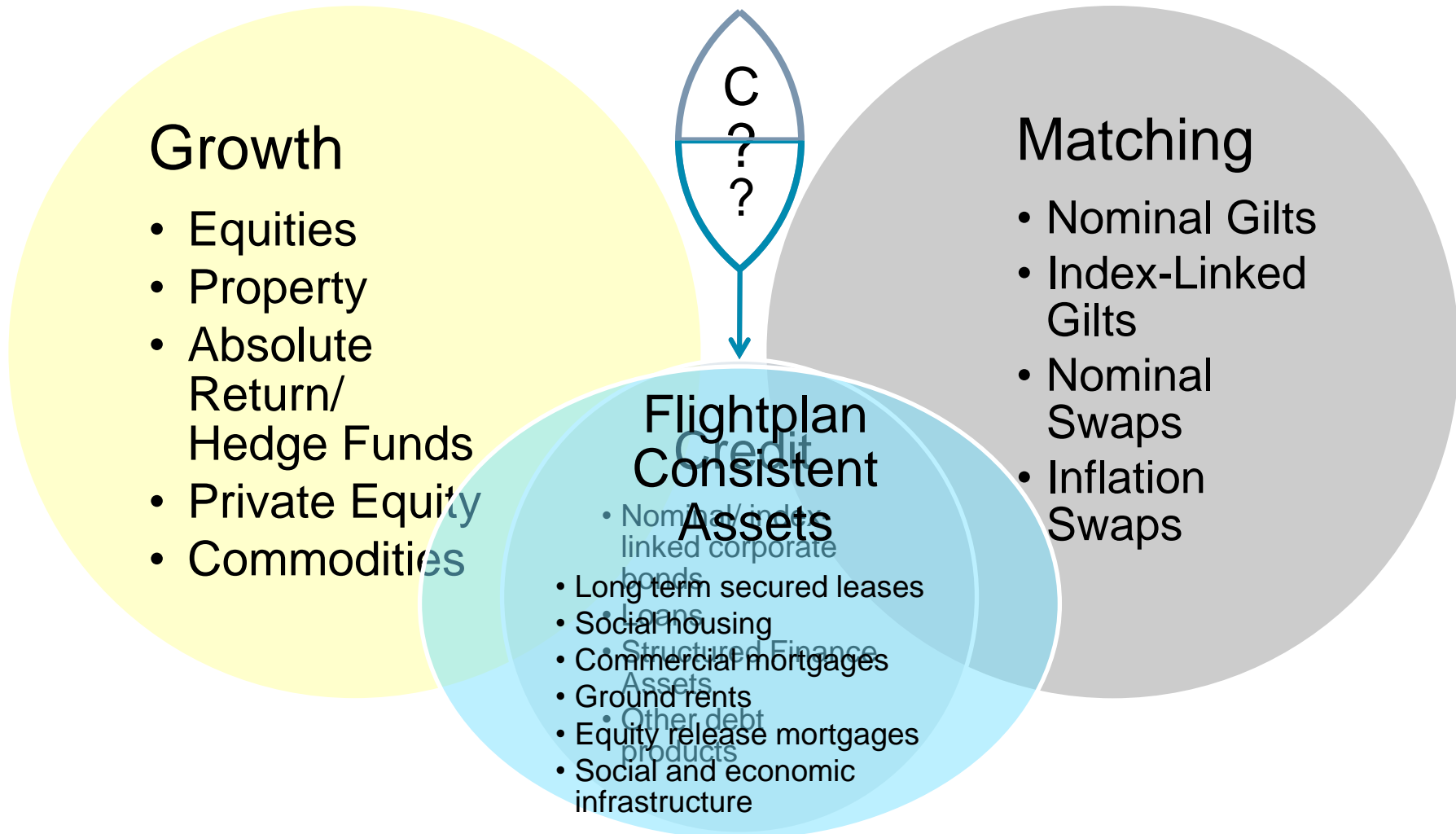
The pension risk management framework is a market consistent, transparent and actionable tool which is key for any trustee, sponsor or member

Objective	Triggers	Performance Indicators
What is the overall objective?	To reach full funding on self-sufficiency basis	By 2020 on a Swaps +75bps with £50m of contributions p/yr
How will we measure the objective?	Using the required return on the Scheme's assets	Required Return of assets is Swaps +160bps
What are the primary risk targets?	Required rate of Return at Risk (RRaR) Contributions at Risk (CaR)	RRaR should be no more than 300bps CaR should be kept below £50m
What is the secondary risk target?	Value at Risk (VaR)	VaR should not exceed 20% of the liabilities
What are the primary aspirational targets?	To increase interest rate and inflation hedge ratios	Hedge ratios equal to funding level
What is the secondary aspirational target?	Dynamic de-risking	Based upon regular monitoring
What is the primary Scheme constraint?	Liquidity	Enough liquidity to pay pension payments
What is the secondary Scheme constraint?	Collateral Requirements	Enough eligible collateral to cover the 1yr derivative VaR95

Regular monitoring allows a call to action that enables trustees and sponsors to anticipate and recalibrate the investment strategy

Pension Risk Management Framework

Flight Plan Consistent Assets



Pension Risk Management Framework

Flight Plan Consistent Assets

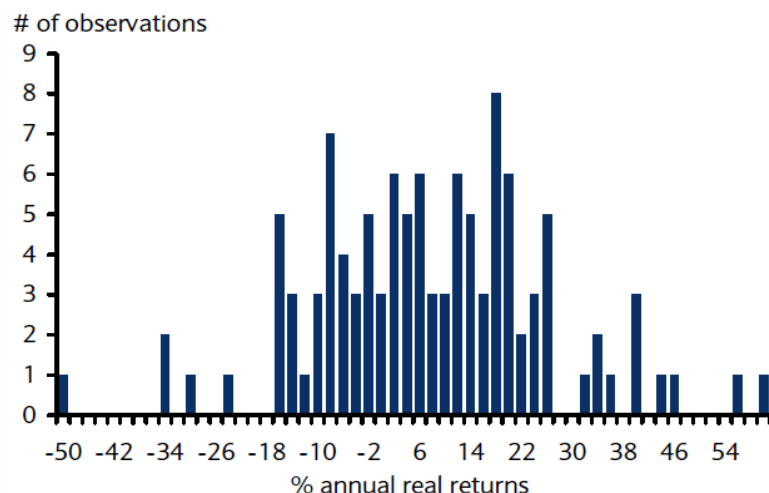
	FPCAs	Matching	Growth	Credit
High Correlation to Liabilities	✓	✓	x	x/✓
Contractual Cashflows	✓	✓	x	✓
Senior Secured	✓	✓	x	x
Long Duration	✓	x/✓	x	x/✓
Excess Returns	✓	x	✓	✓
(II)Liquidity Premium	✓	x	x	x/✓
Potential for Upside Gain	✓	x	✓	x

Why Invest in Equities when you could invest in Bonds?

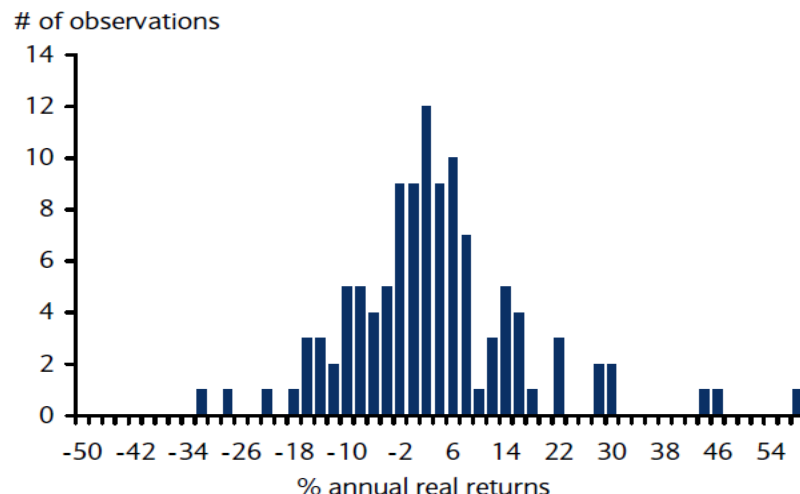
Real investment returns by asset class (% pa)

	2010	10 years	20 years	50 years	111 years
Equities	8.9	0.6	6.0	5.4	5.1
Gilts	4.4	2.4	5.8	2.5	1.2
Corporate bonds	3.9	2.1	N/A	N/A	N/A
Index-linked	5.3	2.4	4.3	N/A	N/A
Cash	-4.1	1.1	2.6	1.7	1.0

Distribution of real annual equity returns



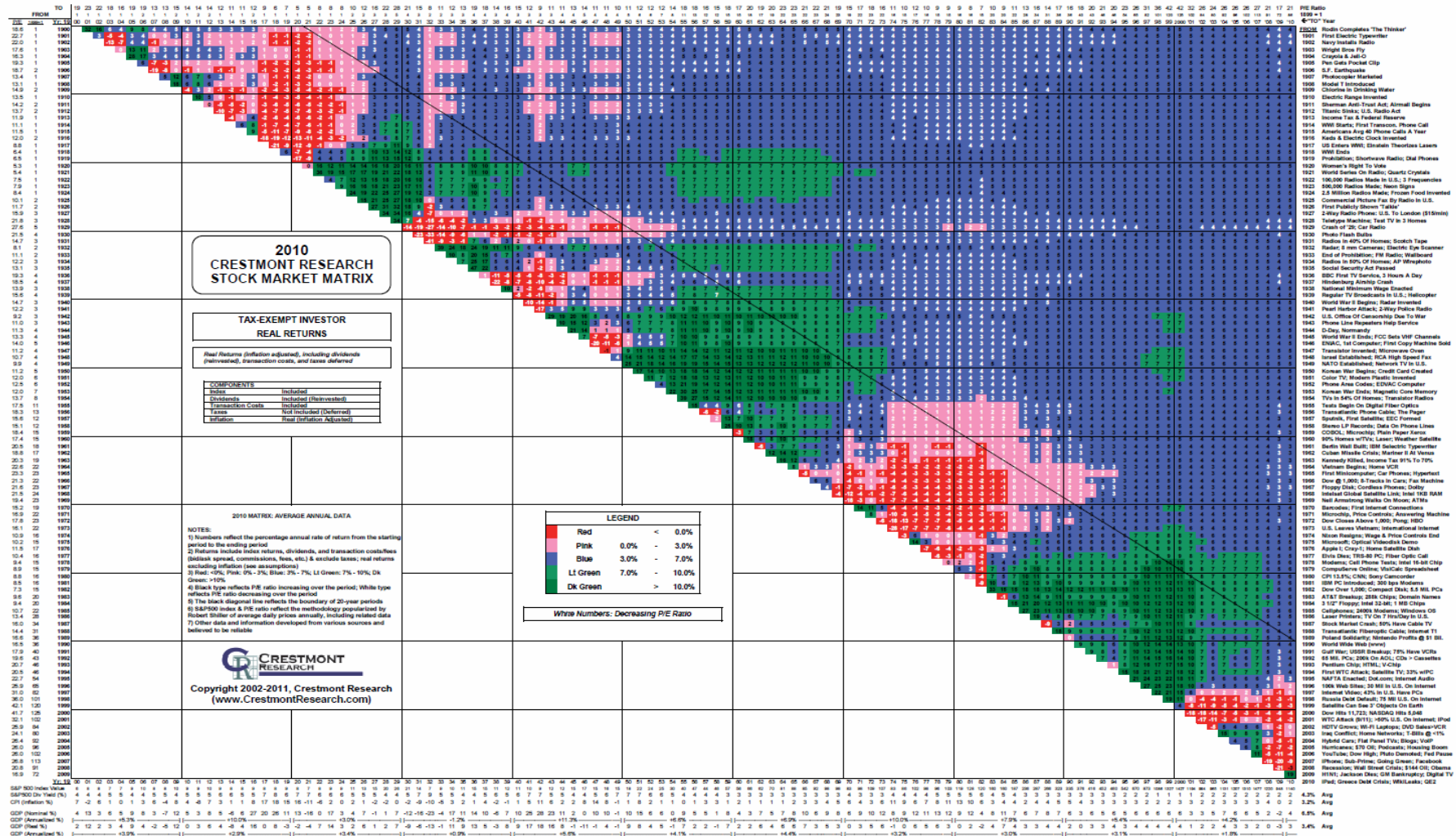
Distribution of real annual gilt returns



Source: *Equity Gilt Study 2011, Barclays Capital*

Equity Risk and Returns

Stock Market Matrix



Source: Crestmont Research Stock Market Matrix,
<http://www.crestmontresearch.com/pdfs/Stock-Matrix-Tax-Exempt-Real3-11x17.pdf>

Equity Risk Premium

Recent discussions regarding equity risk premium

Shrinking risk premium for equities

Professional Pensions | 10 Feb 2011 | 11:20

By David Holder

Category: Investment

Tags: Other equities

The extra returns for holding equities over risk-free assets will fall by

more than half from present levels, making a return on equities by

around 3.1% a pretty dangerous strategy. London Business School

research warns.

LBS academics estimate the equity risk premium will contract from 4.5%, to about 3.1% in future. Each figure

represents the extra reward for holding equities rather than Treasury bills, in return for the same risk taken.

The authors of new research from the

LBS, published yesterday, calculate the cut in

the risk premium by taking the 5.5% historic

equity returns, then subtracting a 0.5%

contraction in share multiples, a 0.8%

contraction in dividend growth, and a 1%

shift from Treasuries.

Their argument, co-authored by the study which

was sponsored by Credit Suisse Research, is

that the extra gains that equities have had

over the past century have been largely due to

the fact that the future will match the past in its

return. "The future will match the past in its

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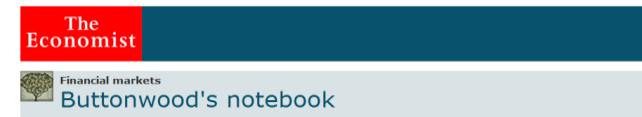
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"A study by LBS academics (and sponsored by Credit Suisse Research) estimates the **equity risk premium will contract from 4.5%, to about 3.1% in the future**. The risk premium has been calculated by taking the 5.5% historic equity returns, then subtracting a 0.5% contraction in share multiples, a 0.8% contraction in dividend growth, and a 1% return from Treasuries."

"Their reasoning was that equities have always beaten bonds (except in the last decade) by a wide margin and will continue to do so. That has been true of the US, where equities have always produced real returns over 20 years, as the LBS/Credit Suisse data show. **But it has not been true in Britain; and in France, there have been periods of 60 years or more when equities have not produced positive real returns.**"

Source: Professional Pensions, <http://www.professionalpensions.com/professional-pensions/news/2024862/shrinking-risk-premium-equities>



Land of the free lunch

Feb 7th 2011, 17:17 by Buttonwood

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ENGLAND and America are two countries separated by a common language, said George Bernard Shaw. Certainly, on my trip to the US last week, I found a gulf between my natural British pessimism and the can-do American spirit. In particular, this relates to expectations of future returns.

The standard assumption for pension fund returns is around 8% per annum. This seems to be based on past experience*. Corporate pension funds have a standard 60/40 asset split; state funds may 70/30 (Instructive that they are taking more risk on the taxpayers' dime). Treasury bonds yield 3% or so, which means the fixed income portion of a state's portfolio is generating 0.9%; the equity portion has to generate the other 7.1%, which equates to 10% a year.

How likely is that? It is a truism to say that equity returns come from three sources; the dividend yield, dividend growth and the change in the price/dividend ratio. This latter figure reflects the re-rating or de-rating of the market. If the dividend is unchanged, then a shift in the market's yield from 3% to 2% means a 50% capital gain. Figures from Elroy Dimson, Paul Marsh and Mike Staunton of the London Business School, in association with Credit Suisse, show that global real equity returns over more than a century have averaged 5.5%. This has been made-up of an initial yield of 4.1%, real dividend growth of 0.8% and a re-rating effect of 0.5% a year (the US figures are pretty much the same). As you can see, the initial yield is crucial.

Source: The economist, http://www.economist.com/blogs/buttonwood/2011/02/equity_risk_premium/print

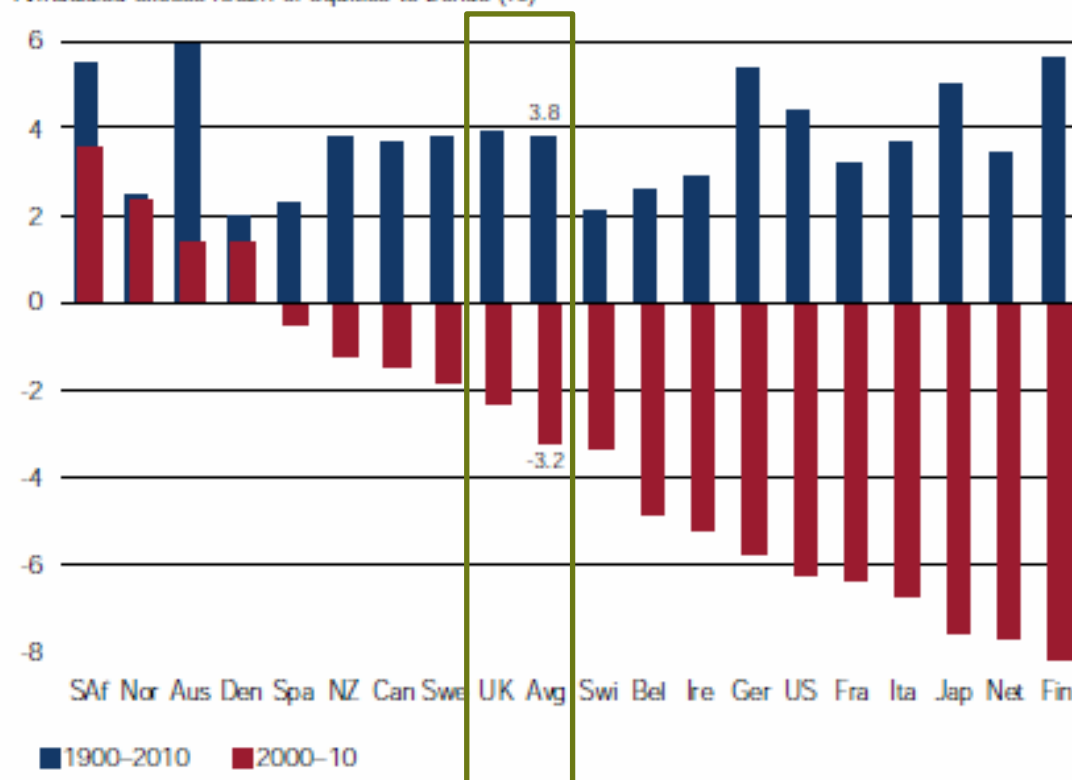
Equity Risk Premium

Why do actuaries promote equities?

Equity risk premium versus to bonds, 1900–2010 and 2000–10

Source: Elroy Dimson, Paul Marsh, and Mike Staunton, *Triumph of the Optimists*; authors' updates.
Germany excludes 1922–23.

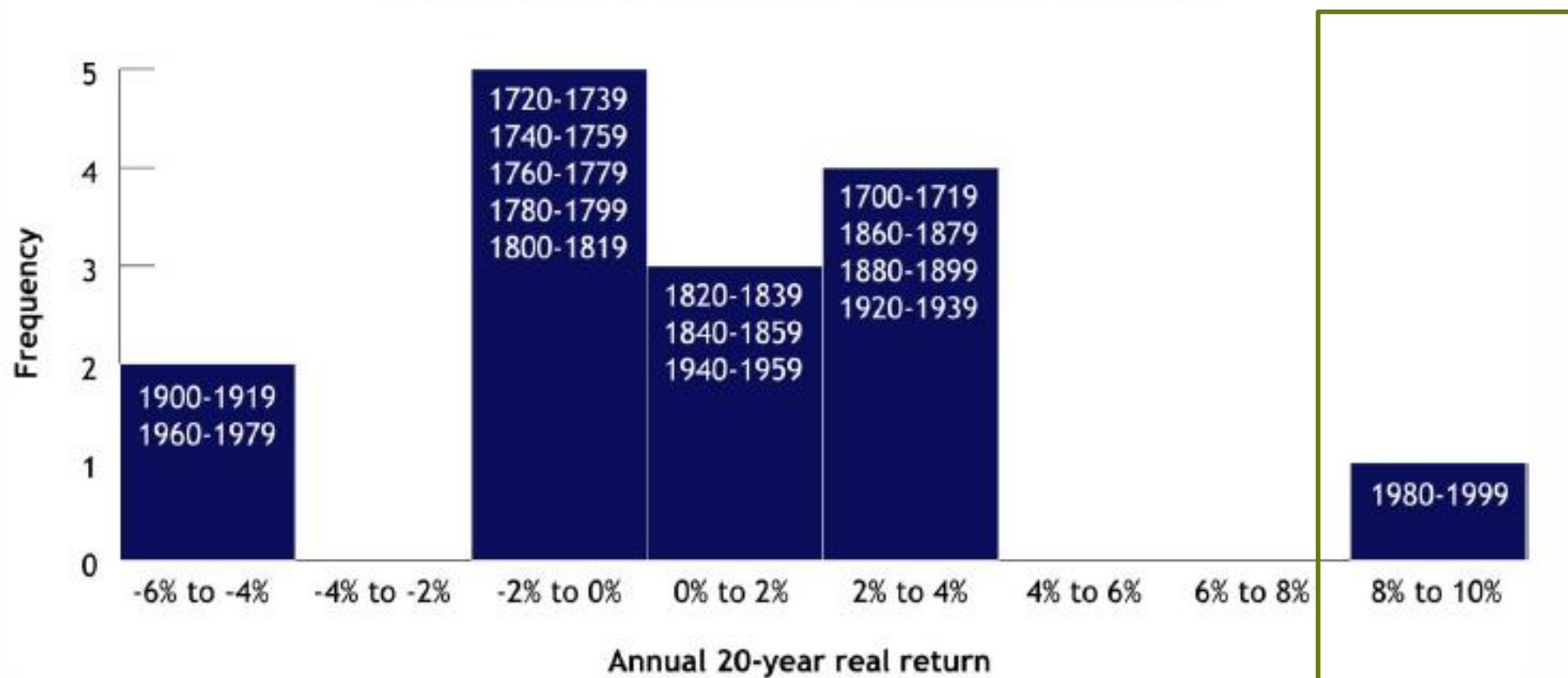
Annualized excess return of equities vs bonds (%)



DB Investing

Why do actuaries promote equities?

Annual 20-year returns for the UK stock market



Source: Global Financial Data, Datastream

Questions or comments?

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