

Society of Actuaries in Ireland

Finance & Investments Forum 2024: The Future of Defined Contribution Investment

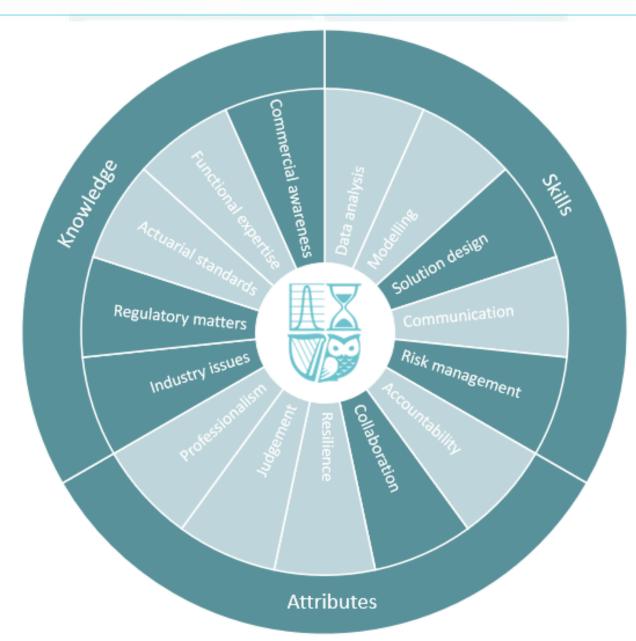
3 October 2024

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The views expressed in this presentation are those of the presenter(s) and not necessarily those of their employer(s) (if any) or the Society of Actuaries in Ireland.



Competency Framework Wheel





Society of Actuaries in Ireland

Welcome and update on Finance and Investment Committee

Aaron Kilboy, LCP



Introduction to the Finance & Investment Committee

- Aaron Kilboy
- Orla Aherne
- James Hannigan
- Daragh Burns
- Thomas Donohue
- Suzanne Leydon

- Linda Travers
- John Hannon
- Cathal Coyle
- Frans Nutt
- Prash Khaire

Committee members work across a wide range of areas including DB and DC pensions, (re)insurance, private markets, individual financial planning and investment management.



Highlights from the past 12 months

Society Guidance



Financial & Economic
Assumptions and Principles

Finance & Investment Committee March 2024

This paper was approved by the Finance & Investment Committee and Council of the Society of Actuaries in Ireland in March 2024.

Webinars and events



Advocacy / public interest



Response to Department of Finance consultation on "Funds Sector 2030: A Framework for Open, Resilient & Developing Markets"

November 2023

Executive Summary of Responses to Questions 24 to 32

The key principle that underlies the response from the Society of Actuaries in Ireland is one of equality, simplicity and incentivising better investing behaviour:

- The Society believes that different forms of investment and savings income and gains should be subject to an equal level of taxation at a harmonised rate.
- The Society believes that Life Assurance policyholder investments and savings should be on a Final Liability taxation basis.
- 3. The Society seeks a level playing field as between: (i) direct investment in securities and deposits; and (ii) investment in securities via a collective investment fund ("CIV") such as a unit-linked life fund or a UCITS-type CIV. This should be achieved by applying the harmonised tax rate from point 1 to CIVs. The rate should be linked to the DIRT tax rate. This would help reduce some of the advantages very wealthy individuals have under the current system.
- The rationale for investments made in single premium life assurance policies being subject to a 1% levy on the investment is not clear. Lump sum investments in IUTs do not incur such a levy. The Society proposes the levy is reviewed.



Today's session

- Financial markets update Kevin Quinn, Bank of Ireland
- Private markets Tim Horne, Schroders
- Post-retirement and in-Scheme drawdown JP Crowley, Mercer
- Myth-busting "Article 9" funds Alan Duffy, ILIM
- Panel discussion and Q&A led by Orla Aherne



Society of Actuaries in Ireland

Update on Financial Markets and Economic Conditions

Kevin Quinn, Chief Investment Strategist, BOI Investment Markets



Introduction Slide

Looking back

- Major market performances
- Drivers of markets this year

Looking forward

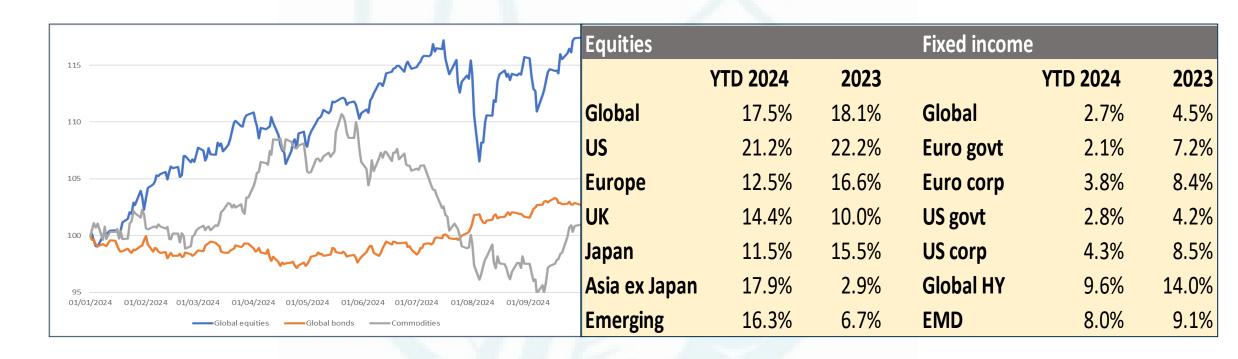
What may be prominent for the coming 12 months



Major market performances in 2024

Figure 1: Asset class performances YTD to 30.09.24

Table 1: Major index performances YTD to 30.09.24





Market drivers so far in 2024

- Inflation
- Economic growth
- Monetary policy
- Artificial intelligence
- Bond market dynamics
- Politics and geopolitics



(1) Inflation

Figure 2: Headline CPI to end Sept '24

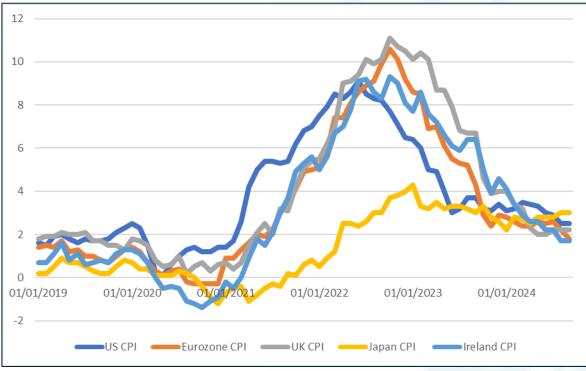
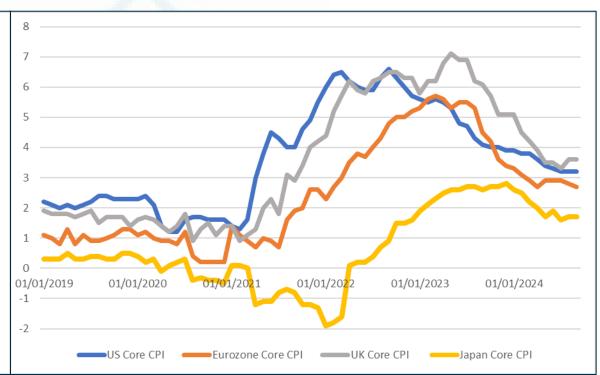


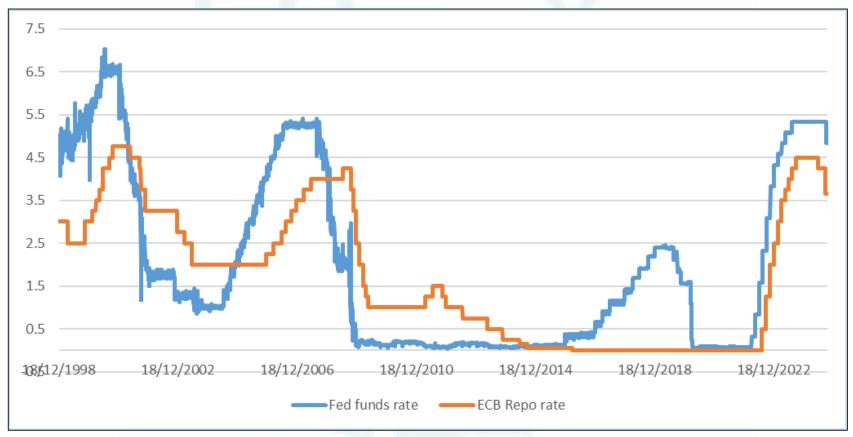
Figure 3: Core CPI to end Sept '24





(2) Monetary policy in US and Eurozone

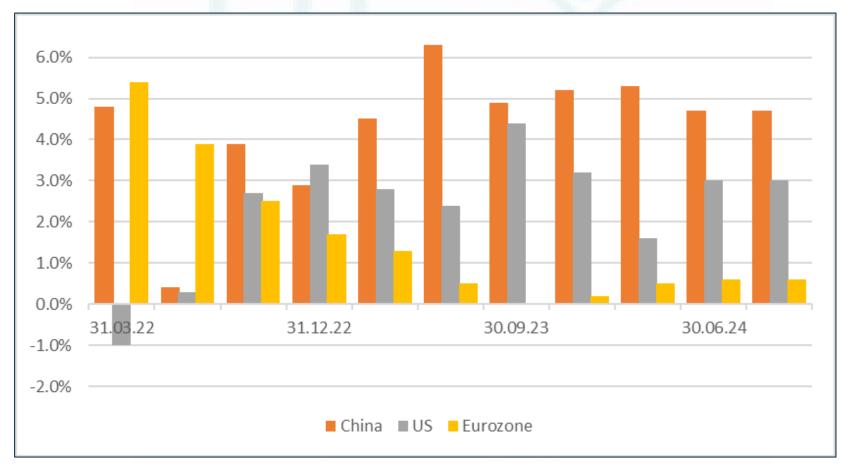
Figure 4: Fed & ECB policy rates since 1998





(3) Economic growth in the world's largest economies

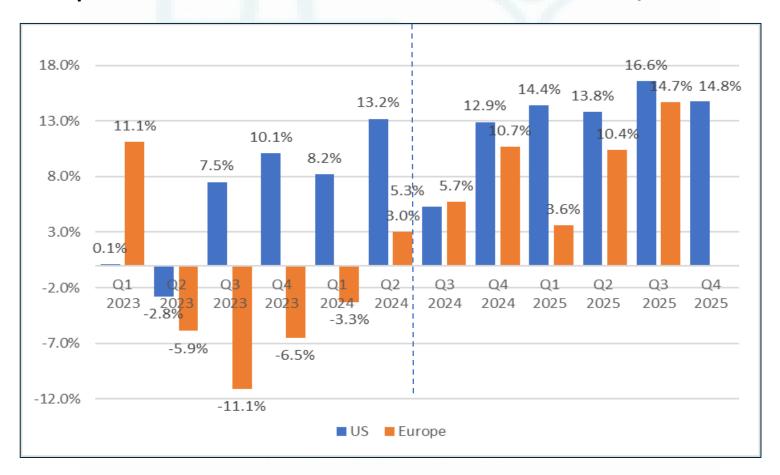
Figure 5: Real GDP % p.a. by quarter since 2022





(4) Equity markets – strength in earnings

Figure 6: Corporate EPS in the US and Eurozone Q1 '23 to Forecast Q3/4 '25

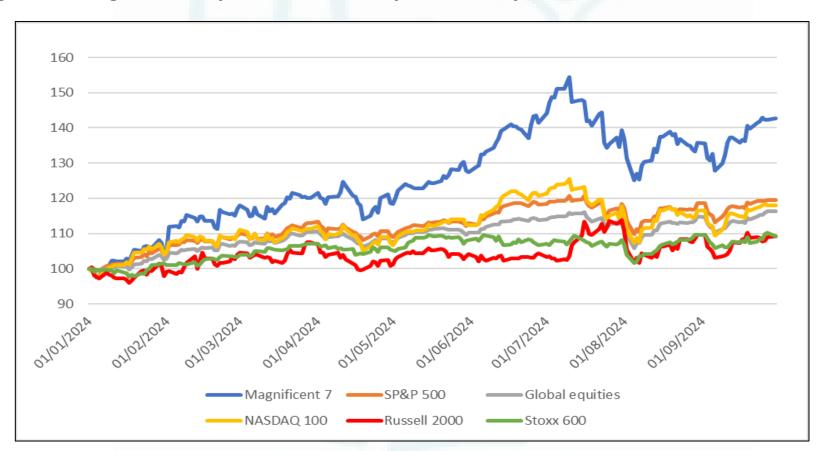


Source: LSEG I/B/E/S 30.09.24



(4) Equity markets – artificial intelligence

Figure 7: Magnificent 7 performance compared to major indices in 2024





(5) Bond market dynamics

Figure 8: US yield curve shifts Oct '23-Sep '24

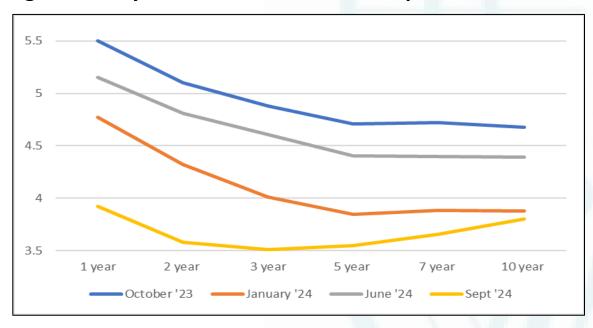
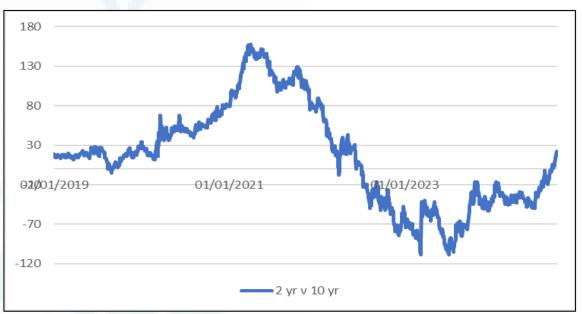


Figure 9: US Yield curve normalisation 2 v 10 year





(5) Bond market dynamics

Figure 10: German yield shifts Oct '23-Sep '24

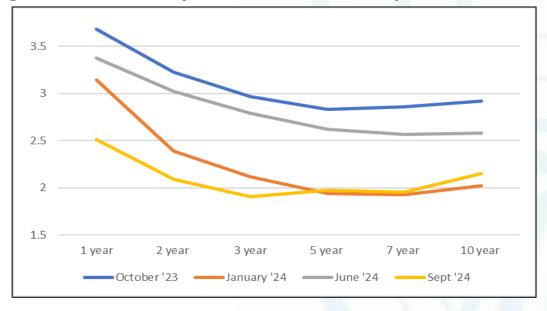


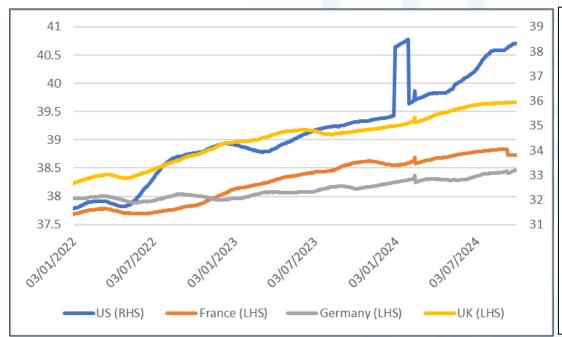
Figure 11: Option adjusted credit spreads Jan '22 - Sep '24

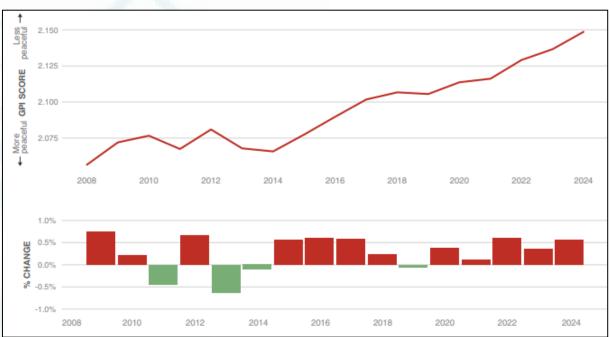




(6) Politics and geopolitics

Figure 12: GeoQuant political risk monitor '22-Sep '24 Figure 13:Global Peace index 2008-2024





Source: GPI-2024-web.pdf (economicsandpeace.org)



(1) Uncertain growth path

Table 2: Scenario analysis & probabilities based on the yield curve

End of 2025 Outcomes	Economic Outcome	Market Weights	Fed Funds	2y Yield	10y Yield
Hard Landing	Neg. Real GDP, Slower Inflation, Urate 5%	40%	1.875%	2.25%	3.20%
Stagflation	~0%real GDP, ~3%inflation, Urate 5%	5 %	2.875%	3.00%	4.00%
Soft Landing	2%real GDP, 2%inflation, Urate ~4.4%	20%	2.875%	3.30%	3.75%
Less Soft Landing	2-3%real GDP, 2.5%inflation, Urate <4.4%	30%	3.875%	4.30%	4.50%
Reaccleration	2.5-3%real GDP, 3+%inflation, Urate <4%	5 %	5.375%	5.90%	6.00%
Weighted Average		100%	2.90%	3.30%	3.88%
End of 2025 Forward As of 9/24/24			2.84%	3.30%	3.87%

Source: Bloomberg Intelligence 30.09.24



(2) Market expectations of central banks

Figure 14: Market expectations of US policy rate 2024-2027 (on 1/10)

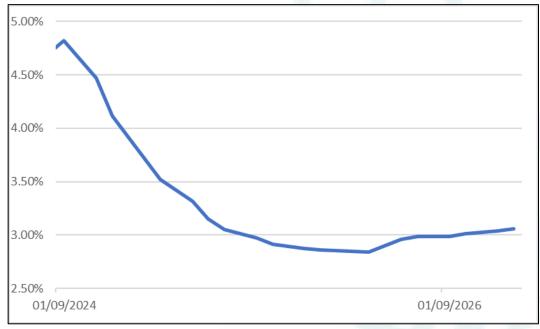
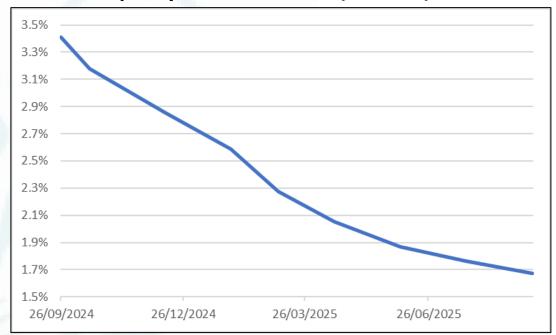


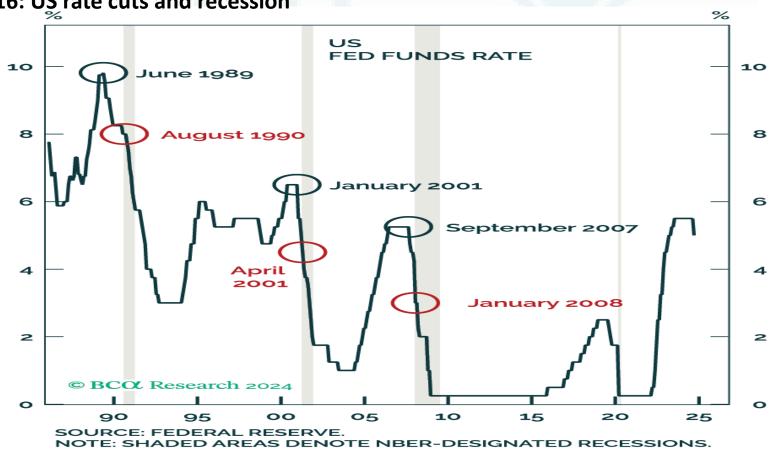
Figure 15: Market expectations of eurozone policy rate 2024-2025 (on 1/10)





(3) Rate cuts and recessions

Figure 16: US rate cuts and recession

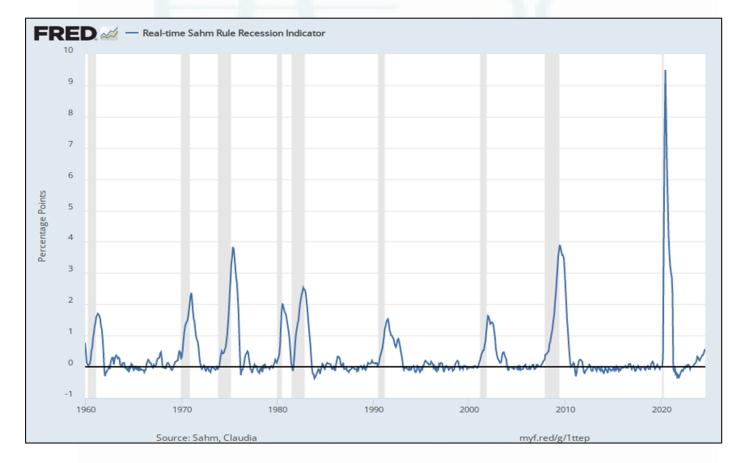


Source: BCA Research September 2024



(4) Unemployment & recessions

Figure 17: Sahm Rule indicator 1960-2024

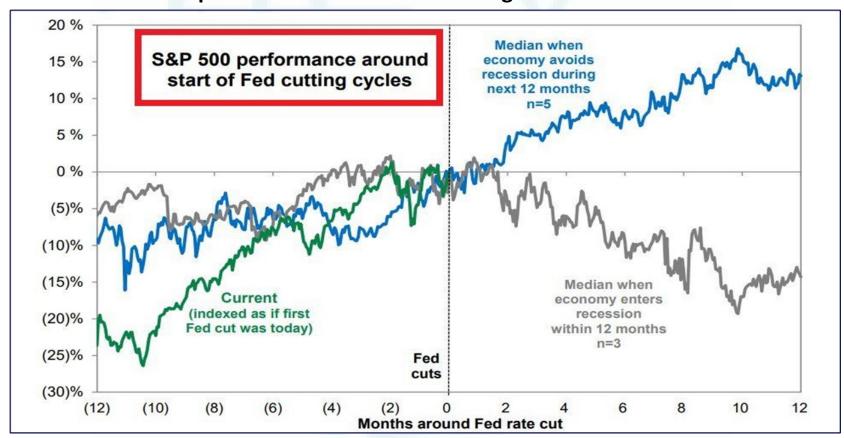


Source: FRED St Louis Fed 01.10.24



(5) Rate cuts and recessions

Figure 18: Median S&P 500 performance after rate cuts begin



Source: Goldman Sachs September 2024



(6) Elections and markets

US election forecast impact compared

- Increase primary deficit by \$1.2
 Trilion over 10 years
- Spending increases by \$2.3 TN while taxes increase by \$1.2 TN. Negative feedback from this adds \$0.8 TN
- Causes, cet par, GDP to drop by 1.3% by 2034

- Increase primary deficit by \$5.8
 Trillion over 10 years
- Tax cuts of equivalent amount,
 Positive feedback reduces this by
 \$1.7 TN to \$4.1TN
- Causes, Cet par, GDP to drop by 0.4% by 2034

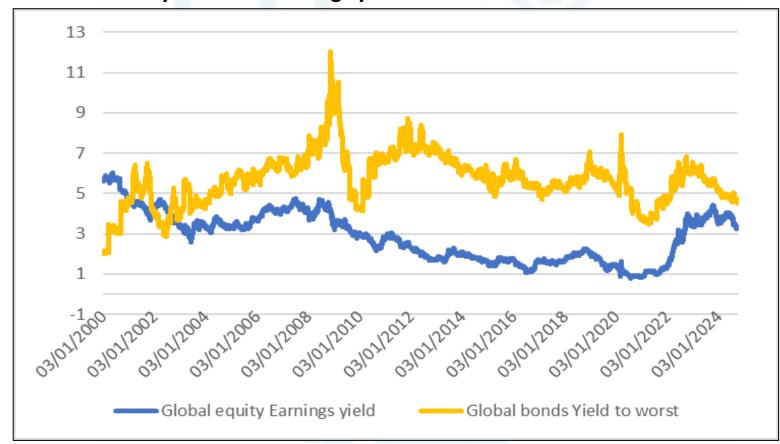






(6) Relative valuations

Figure 19: Global bond yields and earnings yields since 2000



Source: BOI Investment Markets/Bloomberg 01.10.24



(7) Financial conditions

Figure 20: US Financial conditions 2017 to 2024

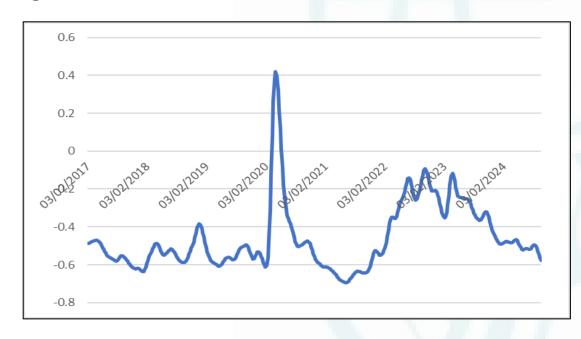
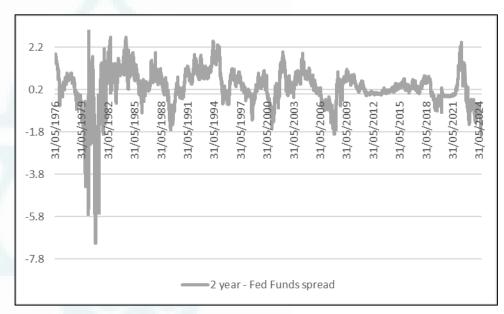


Figure 21: 2 year – Fed funds rate since 1976





Crystal ball time...

- Economic growth will slow and be quite disparate. Eurozone will remain near recession while US will be lower but may avoid recession in 2025. China's dramatic policy shift will aid in the near term but fail longer term
- Inflation is mostly resolved but the path will be bumpy US policy settings may be inflationary, money supply growth is back, middle east risks could impact supply chains/energy costs but deflationary drivers are likely to be in the ascendancy
- Equities to rotate towards less highly valued sectors but market is fragile at these valuation levels. Once liquidity and financial conditions remain supportive we will see quick recoveries from set-backs
- Bonds fully priced for rate cuts and expect some spread widening in credit as economy slows—bull steepening to be the dominant trend for the year ahead
- Animal spirits...aka investor confidence...buoyed in near term by raft of rate cuts globally, China stimulus and prospect of oil price falling suggests path of least resistance for now at least is up

Source: Goldman Sachs September 2024

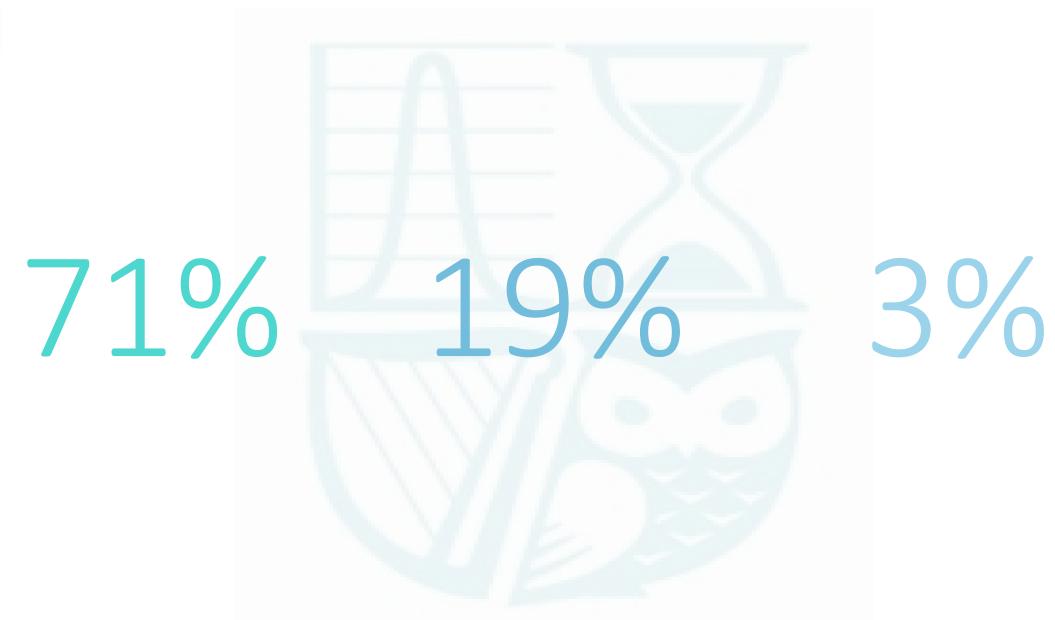


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Private Market Allocations within DC Schemes and Master Trusts

Tim Horne, Head of UK DC, Schroders





Source: Peoples Pension. 2022. Pensions Adequacy in Great Britain, findings from round 7 of the Wealth and Asset Survey.



What is Driving Private Asset Allocations in UK DC?



Improve Member Outcomes

- Contributions insufficient
- Investment strategies not using breath of investment universe
- Public markets are shrinking



Consolidation

- Master trusts
- Asset growth and maturing market
- Commercial pressure to innovate



- Pressure from government
- Regulator using private asset policy in consolidation story
- Mansion House compact



Benefits of Using Semi-Liquid Fund Structures

Semi liquid funds can be utilised by all types of institutional investors



Improved Access to Liquidity

Semi liquid funds provide liquidity within pre-agreed thresholds.

Exposure can be tailored over time and dealt at NAV.



Immediate Exposure

Exposure to a diversified portfolio on day one.

Distributions can be automatically reinvested to compound growth.



Simplified Operations

Lower minimum investments, no capital calls, and transparent fees.

Subscription approach simplifies cash management requirements.



Long-Term Asset Funds (LTAFs)

Flexible, regulated UK semi-liquid structure



Liquidity Transformation

Intended to align the liquidity of the investment vehicle with the liquidity of the underlying assets. Redemptions no more frequently than monthly, minimum 90-day redemption notice.



Permitted Links

Solves the structural problems associated with the way in which many real asset investments are made and which make more established structures unworkable. The LTAF is a conditional permitted link.



Regulated Structure (Consumer Protection)

LTAF can be offered only by an authorised manager under the FCA and is subject to its rules. The enhanced governance requirements ensure funds are managed in investors' best interests.

Obligations of the authorised fund manager

- 1. Understand the risks involved in the assets held by the LTAF
- 2. Employ sufficient personnel with the skills, knowledge and expertise necessary for discharging the responsibilities allocated to them
- 3. Part of the FCA Assessment of Value regime.



Managing Liquidity

Semi-Liquid Portfolio Characteristics



Portfolio diversification

 Asset class, investment type, region, sector and vintage diversification avoids concentration risks and ensures regular distributions from the portfolio



Allocation to liquid investments

- A 5-10% allocation to liquid funds which offer daily or weekly liquidity
- Cash balance between 5-10% to serve redemptions and capital calls from underlying investments



Regular cash flows

 Regular portfolio cashflows from a high allocation to income producing real assets

Liquidity Risk Mitigation



Ramp-up

 Three year lock up to efficiently ramp-up investments to get portfolio to steady state



Notification periods and Redemption limits

- T-90 days notice for subscriptions and redemptions.
- Settlement T+27 days
- Redemptions limited to net 5% of fund per quarter



Active liquidity management

- Bi-weekly reviews of expected cash flows
- Regular liquidity stress testing
- High degree of pipeline visibility and close proximity to investments



Managing the Dealing Cycle

Example Blended Fund: 90% Liquid Growth Assets, 10% LTAF – Quarterly Rebalance

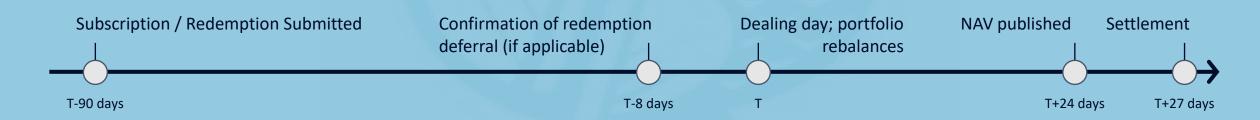


90% Liquid Growth Portfolio

- Monthly contributions are allocated to the liquid growth allocation
- Ad hoc fund switches and transfers out are provided from the liquid growth allocation
- Blended fund can rebalance quarterly in line with LTAF requirements

10% Long-Term Asset Fund

- Subscription/redemption request submitted by last business day of quarter.
- If redemptions are deferred, confirmation is provided 8 days prior to dealing. Net redemptions more than 5% are carried over/pro rata and dealt in next period as a new trade (no priority in queue).
- Gain exposure to the LTAF at T and rebalance assets. Settlement T+27.





Case Study: Building a Pooled Multi-Private Asset Solution

Multi-Private Asset Solutions

Case Study:

- Leading DC Master-trust with a fast-growing asset base
- Building out their private markets investments; facing challenges in **integrating private equity** into their default given **cost and structuring constraints**

Our Solution:

- Bespoke co-investment only mandate to provide **low-cost evergreen private equity exposure** in a DC compatible flat-fee structure
- Targeting small and mid buyout and growth, for a tailored risk-return profile
- Lower-mid market focus to meet the required scale and pace of deployment.
- Alignment of S&I values, utilising proprietary tools to produce and report detailed GP and fund ESG assessments.

Working in Partnership:

- Providing open access to senior investors and pension experts within our business
- Giving the client sight of upcoming pipeline and deal-by-deal reporting for education and transparency



Case Study: Leading UK Master Trust Incorporating Private Assets

Structuring Bespoke Private Markets Vehicles

Process Inputs:

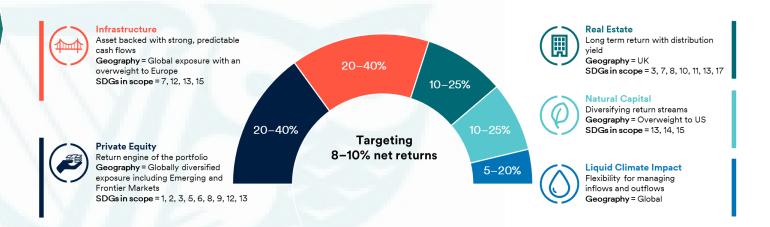
Establish Client Objectives: Risk, Return & Sustainability

Understand Constraints:Costs, Exclusions, Liquidity

Discuss Trade-Offs: Few Independent Variables

Characteristics:

- Global multi-private asset portfolio investing across private equity, infrastructure, real estate and natural capital
- Evergreen, semi-liquid structure offering quarterly subscriptions and redemptions
- No performance fees / carry



Source: Schroders, 2024



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Source: Schroders, 2024



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Post-retirement and in-Scheme Drawdown Investment Considerations

JP Crowley, Mercer



Overarching objective

Providing a framework to save and invest towards an adequate and sustainable income in retirement

Pre-Retirement

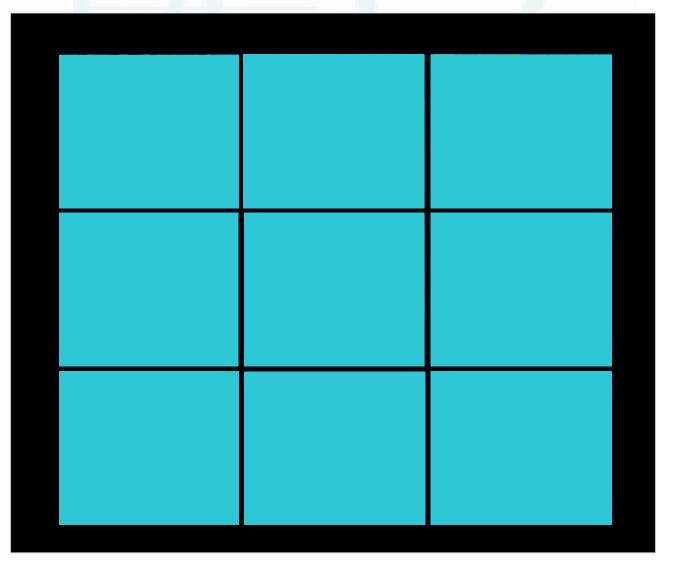
Post-Retirement

Age



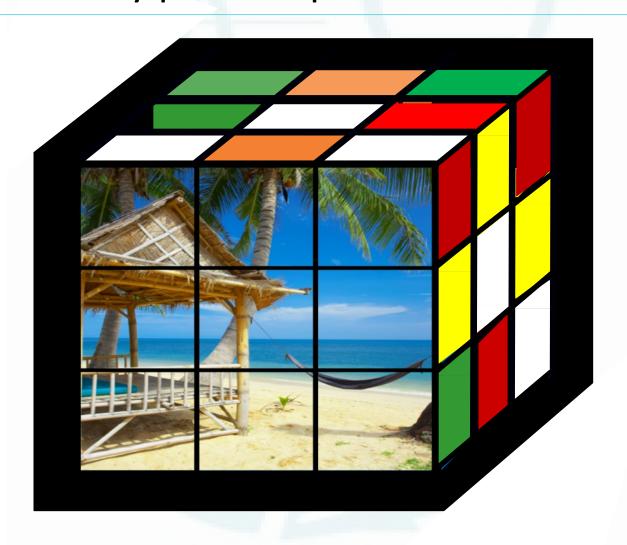
Retirement income challenge

- a common one-dimensional perspective...



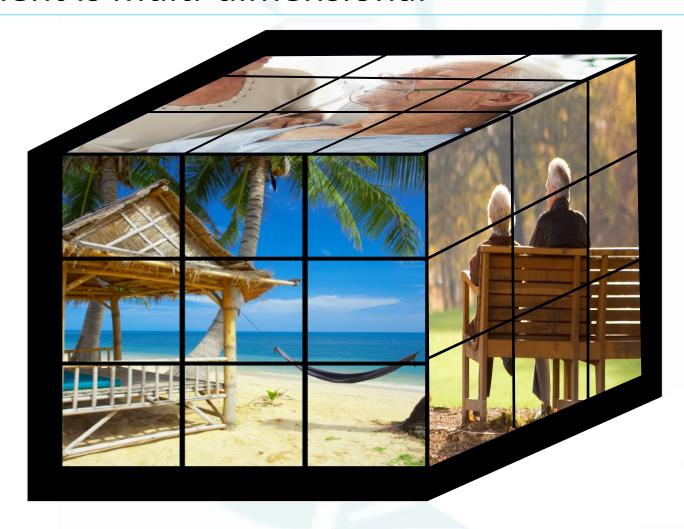


Retirement income challenge But there are many possible permutations...



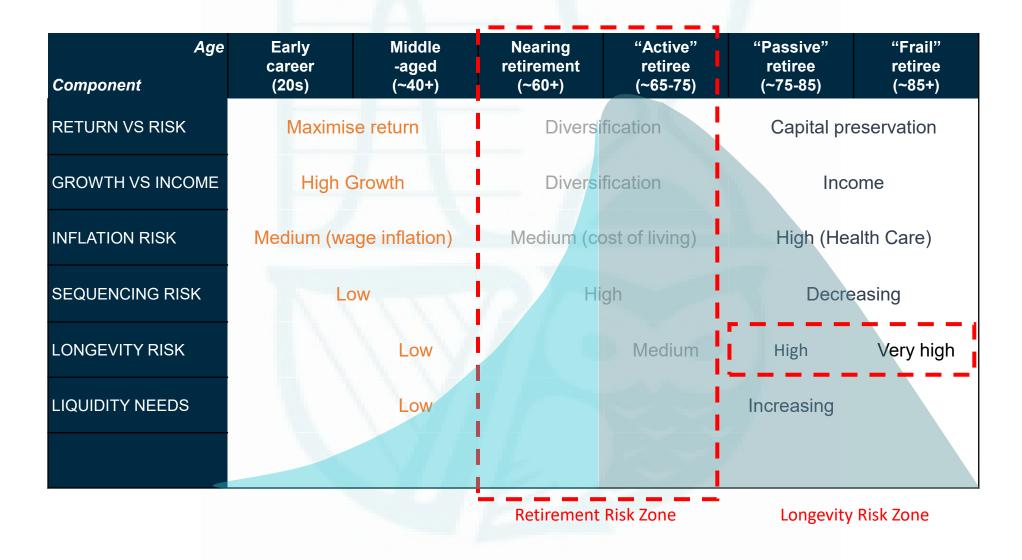


Retirement income challenge Retirement is multi-dimensional



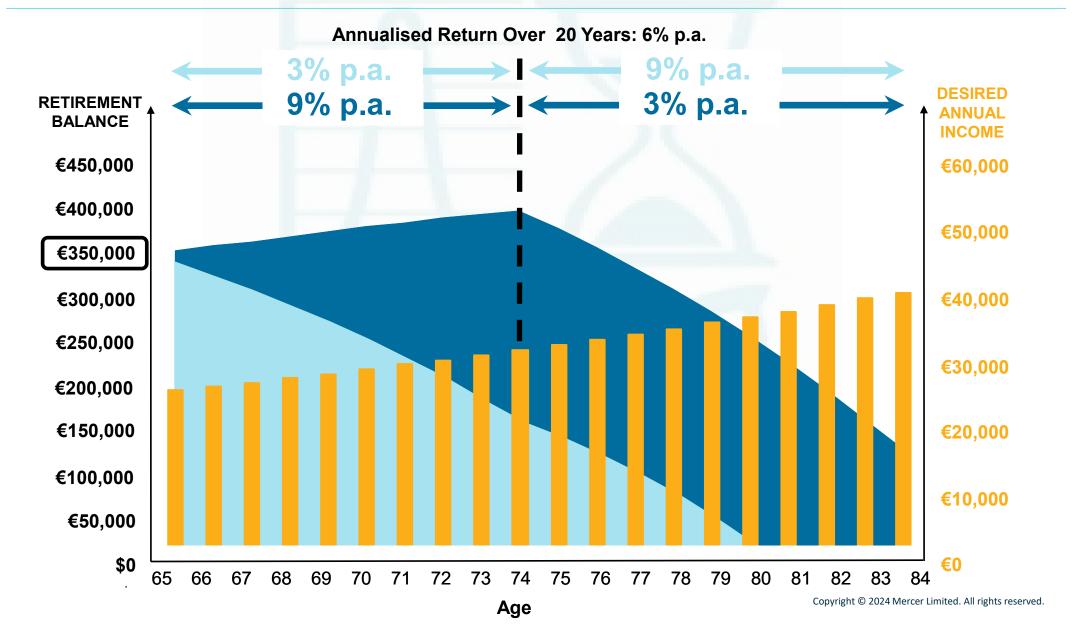


Member Needs Change Over Time



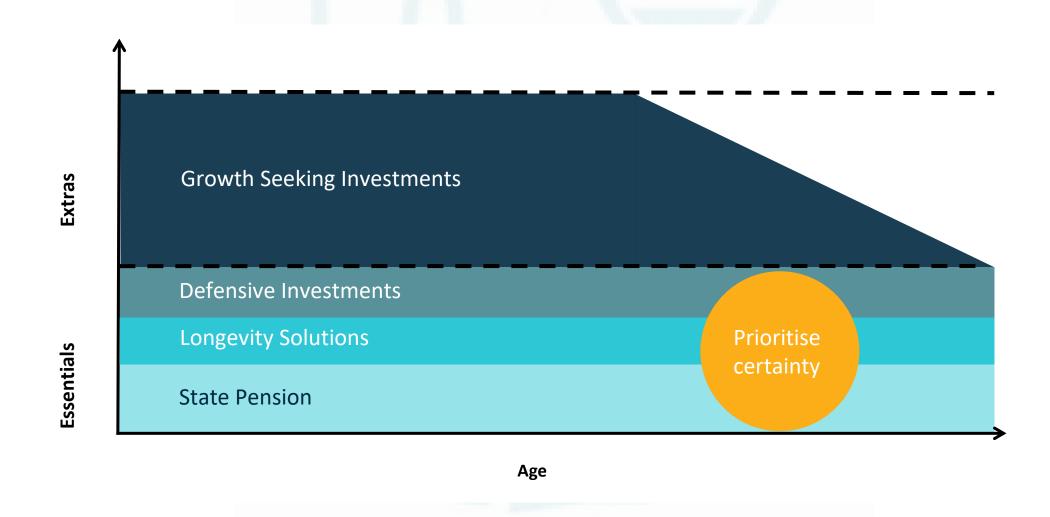


Sequencing of investment returns is key





Members' hierarchy of needs









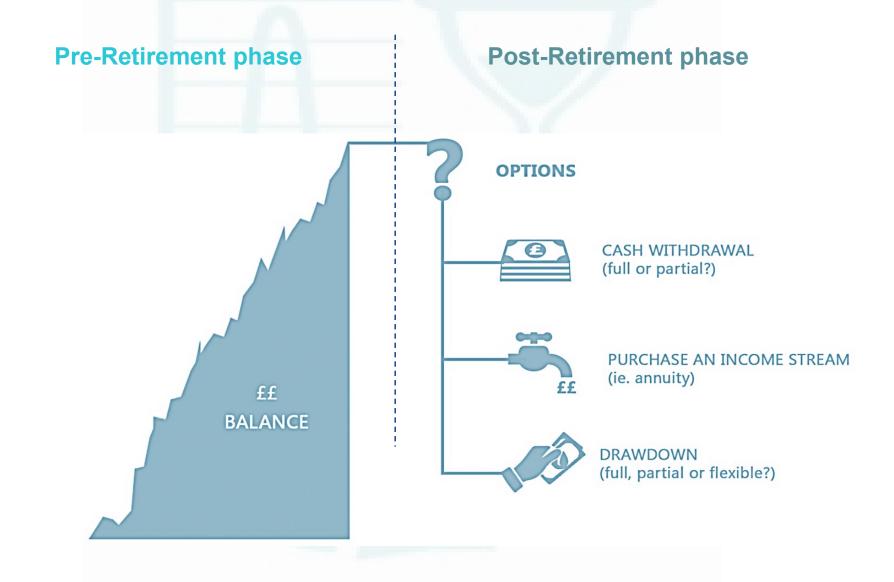
Evolution of UK DC Market – Then and Now...

2012 2023 **Number of DC savers** 2.25m 23.4m £143bn £22bn Amount of assets in DC Retirement target Compulsory annuitisation Pension freedoms

Source: The Pensions Regulator – DC Trust: Scheme return data



Options at Retirement





The bigger picture on post-retirement



People may be making poor decisions

57%

Of all UK DC pension pots are cashed in entirely on first access, when leaving some funds in the pension might have led to better returns and a lower tax bill 40%

Proportion of UK members using an income drawdown solution that withdraw savings at an unsustainable rate (8% or more of the pot per annum)

2/3rds

Of UK DC pots accessed for the first time in 2021/22 were accessed by individuals who did not take any regulated financial advice

Reference: Figures based on last 12 months of experience from FCA Retirement Income Market Data 22/23 and ONS (Pension wealth: wealth in Great Britain)



"In-Scheme" vs "Outsourcing" – key considerations

IN-SCHEME

Drawdown in the UK could be offered via an existing Trust and using the current administrative framework (Provider and Administrator)

Considerations:

- 1. Company and Trustees keep control
- 2. Trustees retain ongoing responsibility for retired members
- 3. Cognitive decline in older members can be problematic
- 4. Can the provider's administration systems cope?
- 5. Members retain institutional charges and no transaction costs or out of market risk

OUTSOURCING

Drawdown could be offered via a separate Master Trust (MT) with Provider

Considerations:

- 1. Company can retain limited control over MT section (e.g. investment strategy, subject to external advice)
- Reputational risk to Company if performance / service levels are poor
- 3. Independent governance structure in place
- 4. Members retain institutional charges and we are investigating the possibility of mitigating transaction costs and out of market risk

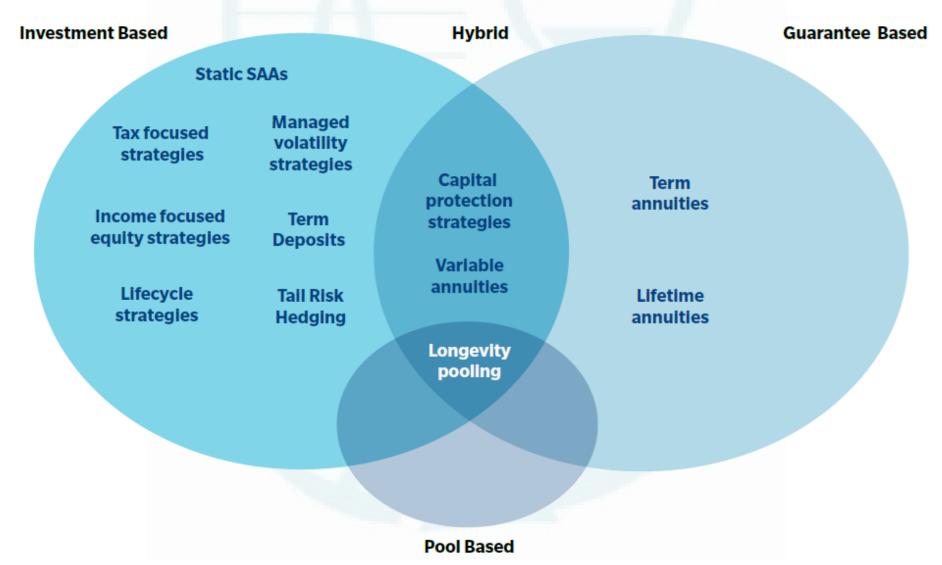


Lessons learned from Australia

- The power of defaulting is clear supplementing defaults with prompts that nudge members in the right direction can be very effective
- Recognising the potential long-term benefits of private markets for DC savers
- Australian superannuation funds' multi-decade focus on ESG factors has been instructive
- Highlight the importance of shifting focus from simply growing a DC savings pot to an emphasis on income generation throughout retirement.
- Breaking the employer link evolving distribution channels as the large multi-employer superannuation funds became the 'face' of Australian pensions.

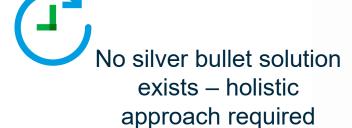


Lessons learned from Australia – what's the optimal solution?





Post retirement – where to from here?



Members should be given access to a range of services to suit their needs and wants



Cost-efficient advice can add value, particularly for members with larger pots



Outsourcing postretirement solution likely to appeal to most over offering inscheme



It is too early to say whether CDC will play a role, but we expect further product innovation that leverages the concept of pooling risk



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Tea & Coffee Break



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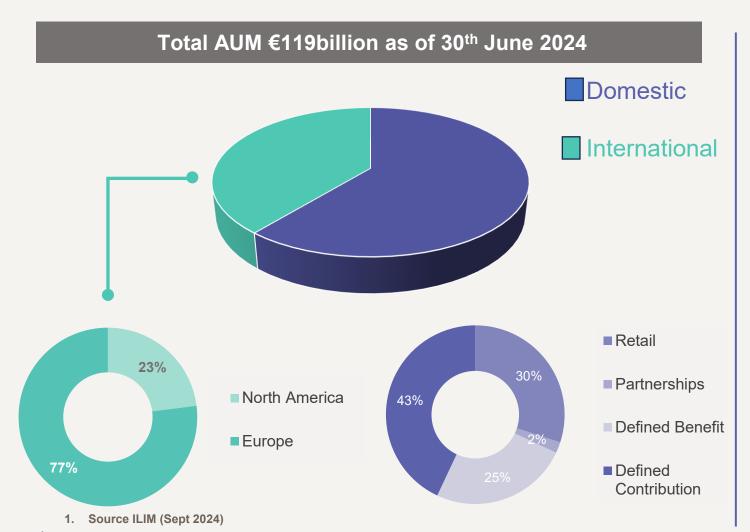
Myth-busting "Article 9" Investment Funds

Alan Duffy, ILIM



Myth busting Investment
Products Categorized as
Article 9





Our DC Business Snapshot

Full-Service Irish Life Investment Stand alone DC Master Trust Only DC







- Full range of DC investment solutions
- SFDR Classification and Reporting

c.50% of assets managed for third parties ² currently in Art 8/9

Bespoke ESG solutions for partners



Remember these guys?



Myth 1 - Article 9 funds only invest in renewable energy



Myth 1 - Article 9 funds only invest in renewable energy

more **INVESTED**

Article 9 Products

Financial Products that have sustainable investment as their objective

2(17) The SFDR defines sustainable investment ¹:

A

an investment in an economic activity that contributes to an environmental or social objective;

В

the investment does not significantly harm any environmental or social objective; and C

investee companies follow good governance practices





Frameworks to Guide Sustainable Investing

























The 17 SDGs highlight the connections between the environmental, social and economic aspects of sustainable development.

The taxonomy is a classification system that defines criteria for ² economic activities that are aligned with a net zero trajectory by 2050 and the broader environmental goals other than climate.

The six environmental objectives of the Taxonomy are:

5

Climate change mitigation

Climate change adaptation

Sustainable use and protection of water and marine resources

Transition to a circular economy

Pollution prevention and control

Protection and restoration of biodiversity and ecosystems ¹



more **INVESTED**

Common Asset Manager Approaches



Sustainable Investment



From SDG's to Investment Pillars

Investment Pillars





Article 9 Products -Objectives and Holdings

more **INVESTED**

Investment Strategies

Objective	# Article 9
SRI/ESG	71
Impact	51
Climate	32
Biodiversity	26
Social	25
Thematic	24
Paris Aligned	18
Clean Energy	17
Transition	15
Food/Health	12

Companies we find in Art. 9 strategies

% of Article 9 funds

Vestas

Schneider Electric

AXA

36%

51%

15%







Myth 2

Article 9 funds are very risky

Myth 2 - Article 9 financial products are very risky

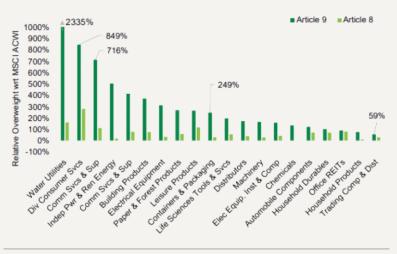


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	Average Size	Beta	Vol		
Article 9	1.6Bn	0.87	17%		
Article 8	7.0Bn	0.87	16%		
Article 6	9.4Bn	0.89	15%		

Exhibit 37: Article 9 funds are significantly overweight Water Utilities, Diversified Consumer Services and Consumer Services & Supplies

GICS 3 sub-industry overweights and underweights, percentage points relative to MSCI ACWI



Source: Refinitiv Eikon, Morningstar, Goldman Sachs Global Investment Research

MSCI World Climate Paris Aligned Index (USD)

The MSCI World Climate Paris Aligned Index is based on the MSCI World Index, its parent index, and includes large and mid-cap securities across 23 Developed Markets (DM)* countries. The index is designed to support investors seeking to reduce their exposure to transition and physical climate risks and who wish to pursue opportunities arising from the transition to a lower-carbon economy while aligning with the Paris Agreement requirements. The index incorporates the TCFD recommendations and are designed to exceed the minimum standards of the EU Paris-Aligned Benchmark.

For a complete description of the index methodology, please see Index methodology - MSCI.

CUMULATIVE INDEX PERFORMANCE — NET RETURNS $\,$ (USD) (NOV 2013 – AUG 2024)



ANNUAL PERFORMANCE (%)

Index Factsheet

	Year	MSCI World Climate Paris Aligned	MSCI World
	2023	25.32	23.79
_	2022	-21.57	-18.14
2	2021	21.86	21.82
	2020	18.18	15.90
	2019	29.37	27.67
	2018	-7.50	-8.71
	2017	23.78	22.40
	2016	8.14	7.51
	2015	1.47	-0.87
	2014	6.94	4.94

INDEX PERFORMANCE - NET RETURNS (%) (AUG 30, 2024)

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					ANNUALIZED						
	1 Mo	3 Мо	1 Yr	YTD	3 Yr	5 Yr	10 Yr Since Nov 26, 201	ıv Yld (%)	P/E	P/E Fwd	P/BV
MSCI World Climate Paris Aligned	3.31	7.98	25.23	16.63	5.79	13.01	10.34 .0.54	1.62	25.38	20.95	3.76
MSCI World	2.64	6.58	24.43	16.72	6.90	13.11	9.57 9.78	1.78	22.33	18.77	3.43

INDEX RISK AND RETURN CHARACTERISTICS (No.V 26, 2013 - AUG 30, 2024

				ANNUALI	Z 9 STE	D DEV (%) 2	SHARPE RATIO 2,3				MAXIMUM DRAWDOWN	
	Bet	Tracking Error (%)	Turnover (%) 1	3 Yr	5 (r	10 Yr	3 Yr	5 Yr	10 Yr	Since Nov 26, 2013	(%)	Period YYYY-MM-DD
MSCI World Climate Aligned	Paris 1.0	1.54	10.17	18.21	18 28	15.25	0.22	0.64	0.62	0.65	33.25	2020-02-12-2020-03-23
MSCI World	1.0	0.00	2.25	17.24	1 .76	15.01	0.28	0.66	0.58	0.61	34.03	2020-02-12-2020-03-23
	¹ La	st 12 cenths	² Based o	n montb	et retur	ns data 3	Based on	NY FED Ov	ernight SO	FR from Sep	1 2021 &	on ICE LIBOR 1M prior that date

^{*} DM countries include: Australia, Austral, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, the UK and the US.

The MSCI World Climate Paris Aligned Index was launched on Oct 26, 2020. Data prior to the launch date is back-tested test (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance —whether actual to back-tested—is no indication or guarantee of future performance.



MSCI World Climate Paris Aligned Index (USD) | msci.com







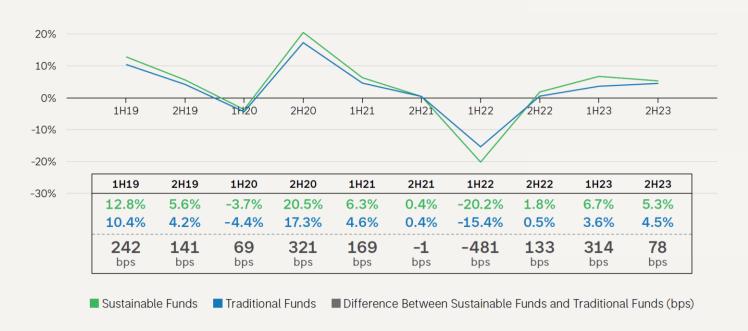
Myth 3

Poor Returns

more **INVESTED**

Myth 3 - Poor Returns





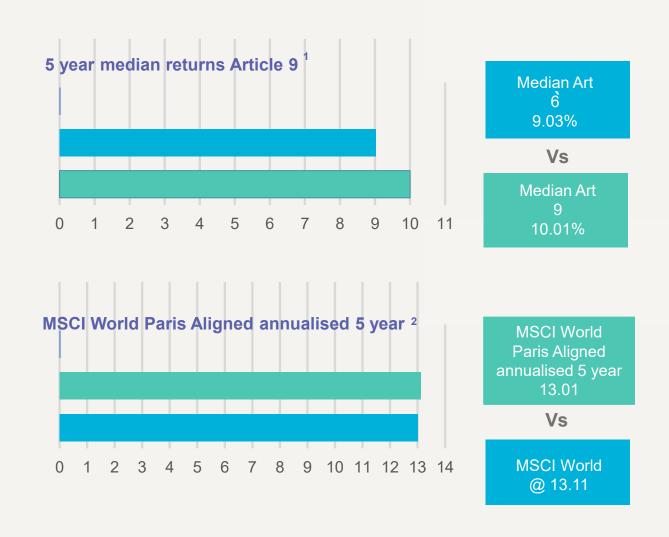
Source: Morgan Stanley Institute for Sustainable Investing analysis of Morningstar data as of February 9, 2024. Table shows data in basis points (bps), 10bps = 0.1%.

The half-year figures for 2023 do not sum to the 12.6% FY2023 median return as 1H and 2H figures represent the medians of each half-year datasets, whereas the 12.6% FY23 figure is the median of the full-year dataset.



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Myth 3 - Poor Returns







Fixed Income

A word on Green Bonds

A word on Green Bonds

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Green bonds are fixed income securities for which the proceeds should be applied entirely towards eligible green projects.

Key Observations

- Bonds generally certified as Green by a third party
- Investors typically need to monitor how proceeds are deployed in practice
- Generally on-going reporting requirements for issuers

Index providers

- Some index providers will review & actively monitor green bond issuers to ensure alignment with Green Bond Principles which include monitoring:
 - Use of proceeds
 Project selection process
 Management of proceeds
 Reporting
- For these index providers, if the issuers do not meet the criteria the bonds will fall out of the relevant green indices
- Oversight is a likely requirement to ensure risks of greenwashing are minimized







DC

Article 9 financial products and DC

Suitability for DC

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Real demand at sponsor level. Front and center call out at several master trust pitches we've done

Global Tech companies focused on this. Asks wrt Sharia/Art 9

At member level younger cohort focused on sustainability Art. 9 ETF
present in our
higher risk
rated multi
asset funds







Thank you

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Society of Actuaries in Ireland

Panel Discussion

Tim Horne, Alan Duffy, JP Crowley and Orla Aherne