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# **Embracing Illiquidity**

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### **Despite strong asset performance...**

#### Aggregate UK Pension Scheme Assets and Liabilities (£bn)



#### ...funding has worsened by 15% over the last 7 years



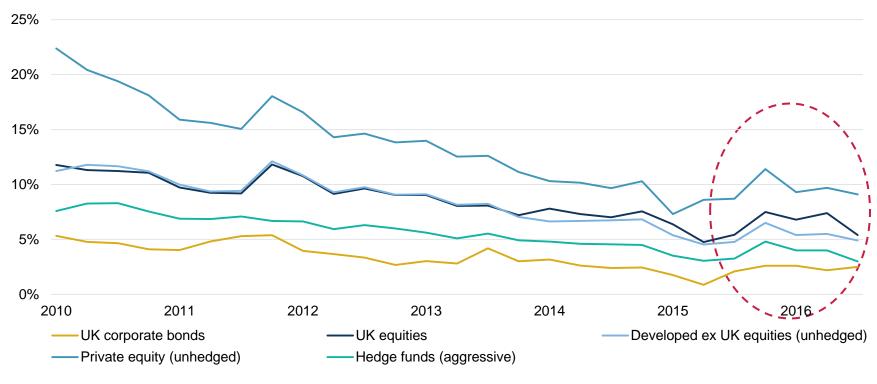


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Source: PPF 7800 Index, September 2016.

# **Return expectations have declined**

Expected 5-year returns from growth assets and corporate bonds at a given time



Note: BlackRock Solutions 5 year expected return assumptions. Hedge fund assumptions represent a generic aggressive strategy.

Source: BlackRock Solutions as at 30 June 2016.

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# **Higher volatility ahead**

#### Last few years' volatility was unusually low



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Source: BlackRock Client Solutions. Realised volatility is derived from the annualised one-year rolling standard deviation of daily returns in the MSCI world index (local currency terms). Long-term volatility assumption from the BlackRock Investment Institute. As of September 2016.

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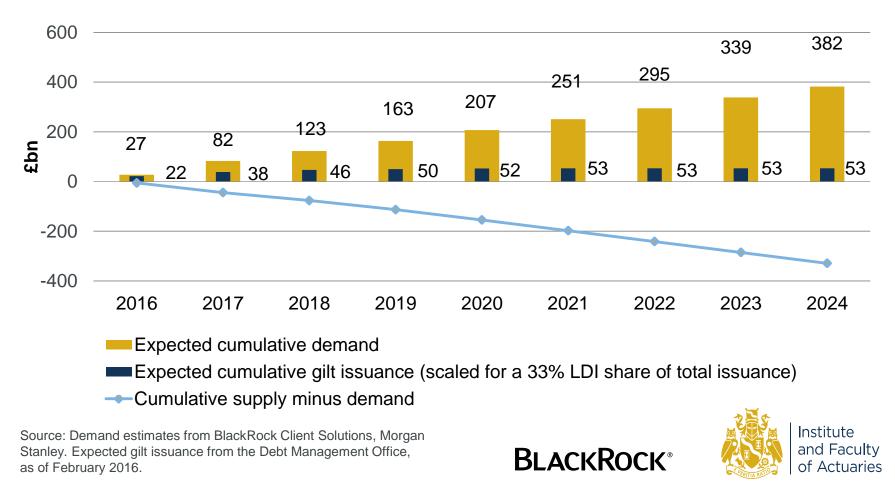
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# The need for different beta

#### Expect bond yield increases to be limited



### **Challenges for DB pension schemes**

- Strong returns have not improved funding levels
- Expected returns from public markets are not compelling
- Gilt yields are expected to stay low
- Recovery plans generally in excess of 10 years
- Schemes are becoming cash flow negative

#### How will they tackle these problems?





### What are the options?

- Do nothing
- Different beta
- Go active

Access illiquidity premia from private markets

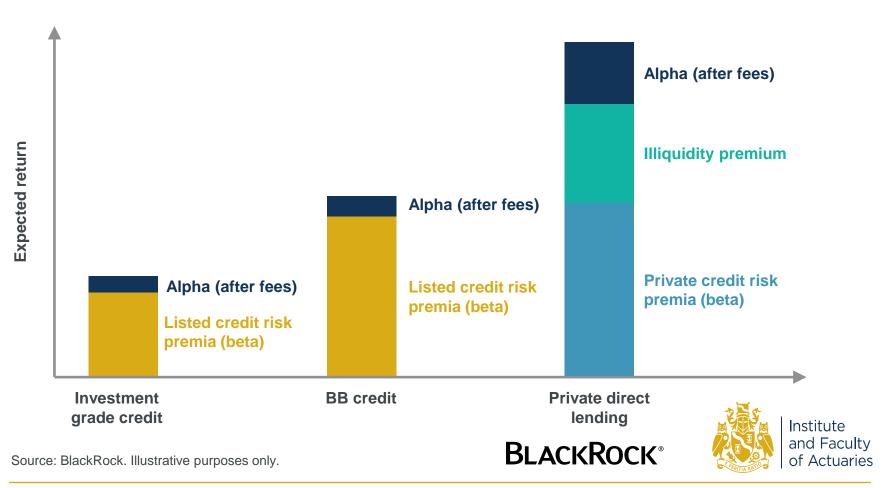
# Income from public markets alone will not meet pension objectives





#### **Private asset returns**

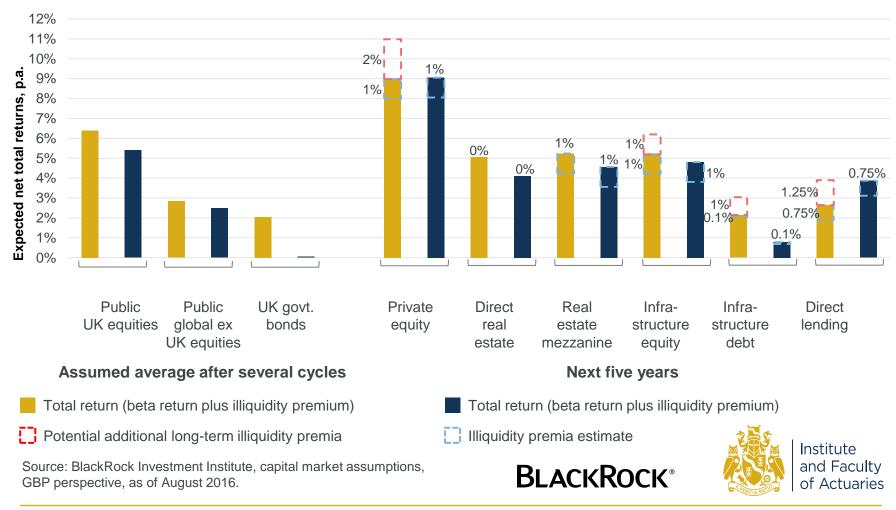
Example: risk premia across listed and public fixed income assets



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#### **Private assets return forecast**

#### Expected net total returns, p.a.



## What do UK DB schemes need?

#### Income with the following characteristics

- Higher yield
- Long-dated
- Contractual (low risk)
- Inflation protection

#### We call these "secure income" assets





### Where can secure income be found?

	Infrastructure Debt	Renewable Income	Real Estate Debt	Long Lease Property	Strategic Income
Description	Predictable cash flows from long- term contracts	Portfolio of operating power projects	Senior real estate debt across various sectors	Portfolio of commercial real estate	Other investments that meet fund criteria
Target Cash Yield	3 – 5%	6 – 8%	4 - 6%	4 - 6%	5 – 7%
Weighted Average Cash Flow Tenor	8 – 12 years	20 – 25 years	4 – 8 years	25+ years	4 – 8 years
Inflation Linkage	Implicit; floating rates	Explicit; PPA tariffs	Implicit; floating rates	Explicit; lease payment resets	Implicit; floating rates

Note: Target cash yield is based on target and historical performance for relevant products screened by BlackRock's Alternative Solutions group. This model is not intended to provide, and should not be relied upon for investment, accounting, legal or DIACLADOCLA®

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# But private assets are not easy to exploit

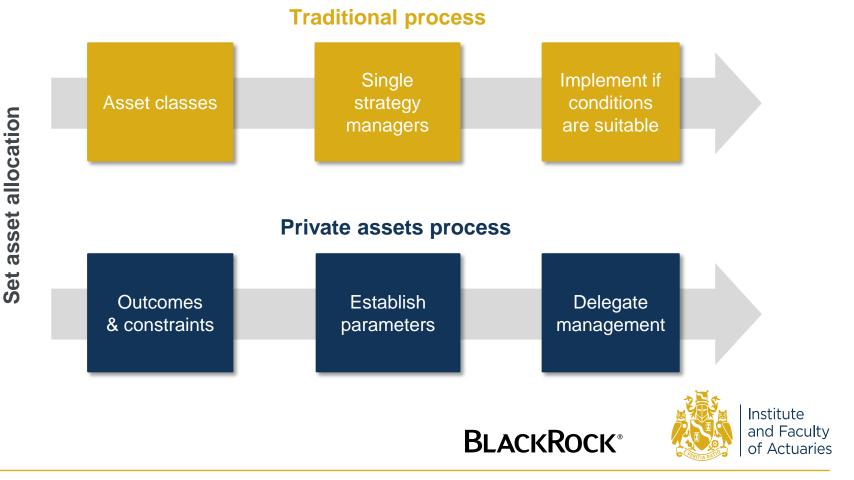
Governance	<ul> <li>They are more complex and require greater due diligence</li> </ul>
Diversification	<ul> <li>Illiquidity premia depend on the economic cycle</li> <li>Agnostic approach to portfolio construction required</li> </ul>
Access	<ul> <li>Requires large scale investments, and</li> <li>Ability to manage to drawdown cycle</li> </ul>
Cash flow and Liquidity Management	<ul> <li>Needs careful risk management to meet long term objectives</li> </ul>





### **Governance for managing private assets**

#### Implementing private assets is different



# Implementing a secure income portfolio

**Options for achieving a well-diversified secure income portfolio** 

	Direct investments	Fund investments	Hybrid	
Benefits	<ul> <li>Enables customised solutions</li> </ul>	<ul> <li>Established underlying funds give diversification</li> </ul>	<ul> <li>Access to diversified portfolios</li> <li>Access to individual opportunities</li> <li>Tailored deployment of capital</li> <li>Re-investment of cash flows</li> </ul>	
Drawbacks	<ul> <li>Need significant resources / size</li> <li>Most schemes lack required governance capability</li> </ul>	<ul> <li>Double layer of fees / costs</li> <li>Subject to capital raising / commitment process of underlying funds</li> </ul>	<ul> <li>Requires access and expertise</li> </ul>	

#### A hybrid approach optimises flexibility

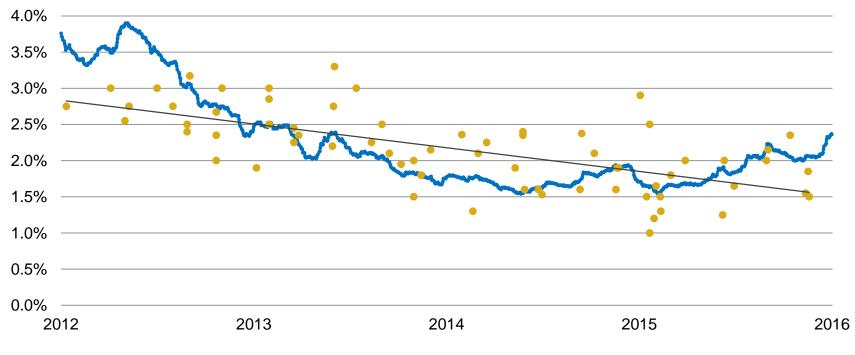




#### **Infrastructure debt**

Implementation: key to overcome spread compression, profit from dispersion

GBP – private infra debt deal spread (dots) vs. public market spread (blue line) – BBB



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Source: BlackRock proprietary pricing database of private infrastructure debt deals and Datastream, as of December 2015. Note that private debt spreads (dots) are relative to swap or government bond yield of comparable maturity. Black line represents the best of fit line on private debt spreads. Public market spread (blue line) is derived from the Datastream BBB corporate bond spread indices.



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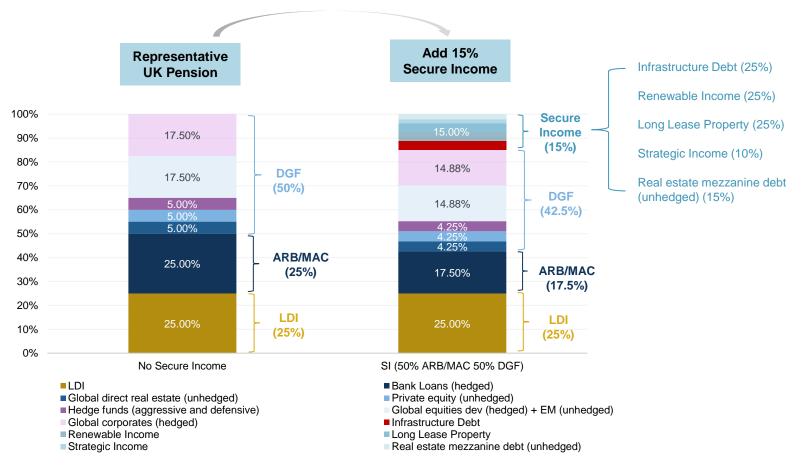
## How to fund a secure income allocation

Example - Trustee view	Add Secure Income by selling equities?	Add Secure Income by selling bonds?
"We want to increase the match to liabilities but rates are too low"	$\checkmark$	
"We want to increase the level of hedging when our funding level improves"	$\checkmark$	
"We have a relatively traditional asset portfolio"	$\checkmark$	
"We are happy with our level of liability matching, but want to reduce our deficit"		$\checkmark$
"We are worried about how far corporate bond spreads have contracted"		$\checkmark$
"We are concerned about the extremely low returns in our matching portfolio"		$\checkmark$





### Adding secure income to a portfolio

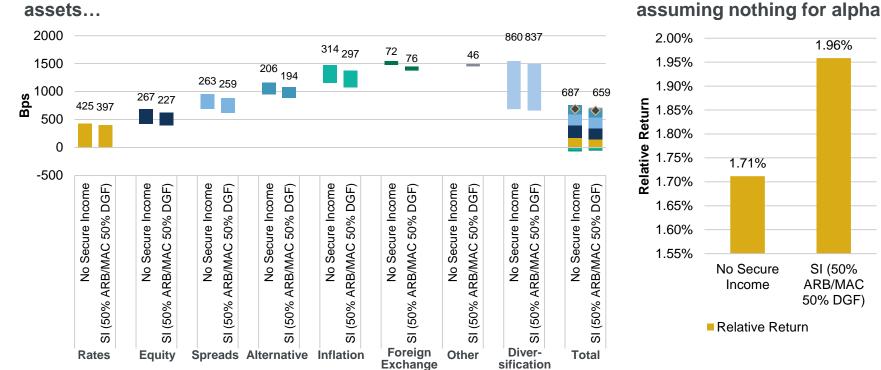


Source: BlackRock | Portfolio data and analysis as of 31/12/2015 | Subject to change. Pension fund liabilities are assumed to be 20 year duration, and 70% linked to inflation. Government bonds (conventional and index-linked) exposure assumed to be 2.5x leveraged.

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# **Risk and return decomposition**



Risk falls marginally when using global secure income assets...

#### Adding secure income may increase return and lower risk

Risk decomposition based on MTC 184. Portfolio data as at 31/12/2015. Return data has been approximated using proxies from the BlackRock Investment Institute Capital Market Assumptions. Return proxies selected by similarity of risk between an alternative asset class forecast in the CMAs with the risk of the Secure Income asset in question. Bps: Basis points (0.01%)



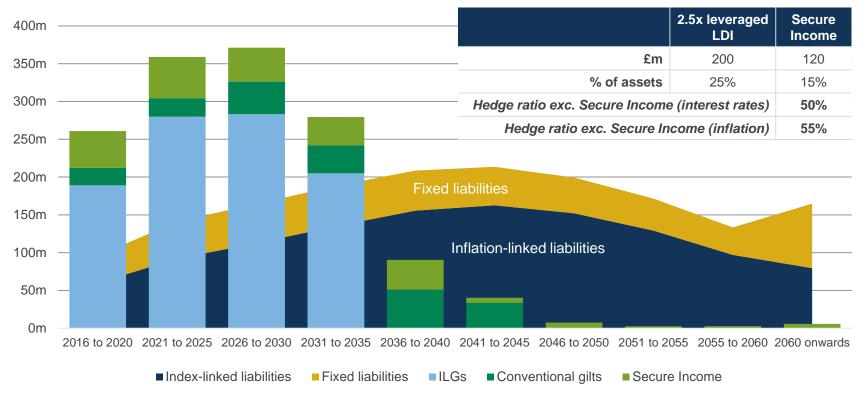


...and return rises, even

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# **Secure income effect on income?**

#### Naïve allocation to Secure Income & LDI

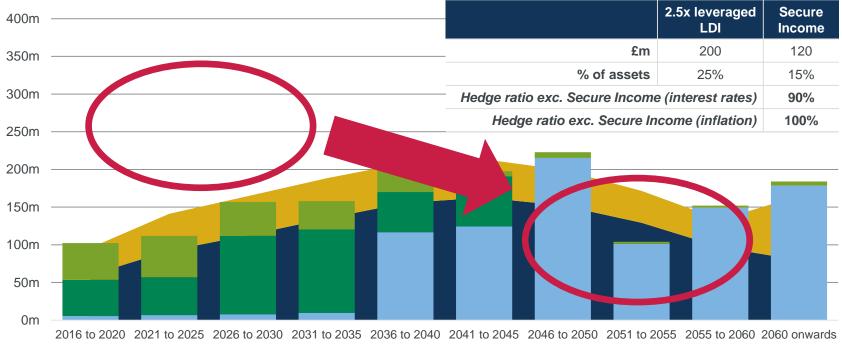


Source: BlackRock as of 31 December 2015. Assumes an 80% funded pension scheme with an LDI portfolio targeting liability duration (20 years). 70% of the liability is inflation-linked. The Secure Income portfolio shown is based on representative cashflows and assumes the same asset class split as shown in the risk modelling analysis previously.



# **Efficient use of matching assets**

#### **Reshaped allocation to Secure Income & LDI**



Index-linked liabilities

Fixed liabilities

ILGs Conventional gilts

Secure Income

Source: BlackRock as of 31 December 2015. Assumes an 80% funded pension scheme. 70% of the liability is inflation-linked. The Secure Income portfolio shown is based on representative cashflows and assumes the same asset class split as shown in the risk modelling analysis previously.





### **Benefits of private secure income assets**

When added to a portfolio of traditional public assets, may...

- Increase return & reduce risk given forward expectations
- Enhance income generation
- Facilitate better matching cash flows to liability payments

#### Secure income is a new strategic asset





#### **Key considerations**

Investment	<ul> <li>A credible manager must have a track record of managing</li></ul>	
expertise	private markets investments	
Scale and access	<ul> <li>Extensive relationships with third parties gives access to deal flow</li> </ul>	
Risk	<ul> <li>Fully integrated risk management system enables complete</li></ul>	
management	transparency	
Hybrid	<ul> <li>A portfolio comprising funds, segregated portfolios and direct</li></ul>	
approach	investments facilitates diversification and deployment	





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