

Risk management framework

Monthly monitoring report: 31 March 2022

Clwyd Pension Fund April 2022

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Overriding objectives



Versus

Achieve returns in excess of CPI required under funding arrangements



Objectives are two-fold but conflicting

• Risk needs to be taken in order to achieve returns, but risk does not guarantee returns

Need to ensure a reasonable balance between the two objectives

• Do you need to take the same level of risk when 70% funded (say) as when 110% funded?

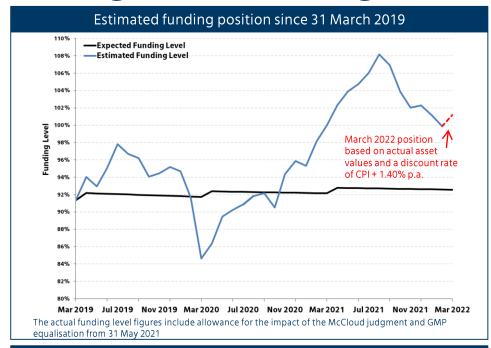


Executive summary





Funding level monitoring to 31 March 2022



Funding Level Triggers

Following a breach of the 100% soft trigger, it was concluded at the FRMG on 9 July 2021 that the funding level was not currently sufficiently high to warrant de-risking in a traditional sense via a change in long term strategy.

It was agreed that a new trigger will be put in place to prompt FRMG discussions regarding potential actions as the funding level approaches 110% on a consistent approach to the 2019 valuation funding basis. This funding level will be monitored approximately by Mercer on a daily basis.

Comments

The **black line** shows a projection of the *expected* funding level from the 31 March 2019 valuation based on the assumptions (and contributions) outlined as part of the 2019 actuarial valuation. The expected funding level at 31 March 2022 was around 93%.

The **blue line** shows an estimate of the progression of the funding level from 31 March 2019 to 28 February 2022. The **red dashed line** shows the progression of the estimated funding level over March 2022. At 31 March 2022, we estimate the funding level and surplus to be:

101% £29m

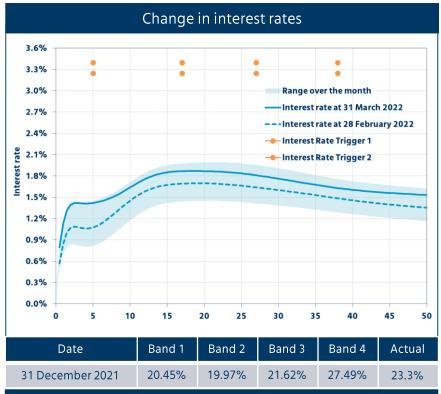
From October 2021 we have incorporated the membership experience impact of the 2021 interim funding review which has reduced the funding level by c2% in isolation. The Fund's position was ahead of the expected funding level at 31 March 2022 by around 8% on the current funding basis.

Uncertainty continues to be prevalent in the investment and fiscal environments due to the geo-political uncertainty and economic outlook – in particular inflation which has a direct impact on the Fund's liabilities. This could means that the likelihood of achieving the assumed returns above CPI inflation could have fallen further. To illustrate the potential impact, a further reduction of 0.25% p.a. in the assumed future investment return/discount rate would reduce the funding level by c.4% to c.97% with a reduction in the surplus of £100m to a deficit £71m.

This will be considered in more detail as part of 2022 actuarial valuation.



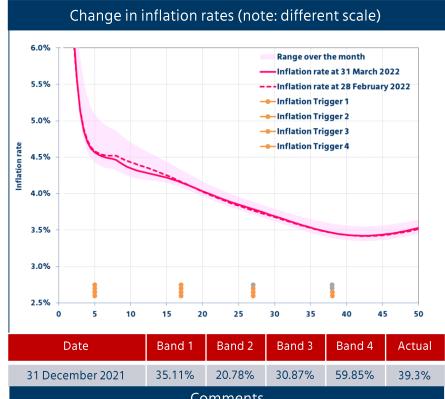
Update on market conditions and triggers





Over the month of March, interest rates rose across the curve.

Based on market conditions as at 31 March 2022, yields would need to rise by c. 1.4% p.a. before the Fund would hit any of the revised interest rate triggers implemented by Insight in Q3 2017.



Comments

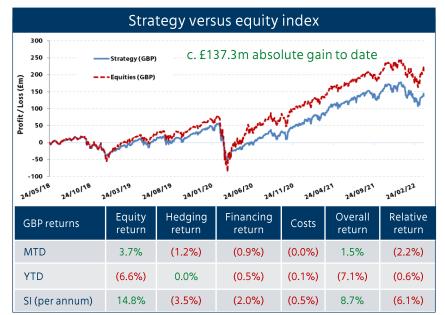
Inflation expectations were broadly unchanged over the month of March.

The target hedge ratios for the portfolio are 20% for interest rates and 40% for inflation expectations. No triggers were breached in March.

^{*}Hedge ratios calculated with reference to 2019 valuation cash flow analysis and relying on a discount rate of gilts + 3.5% p.a..

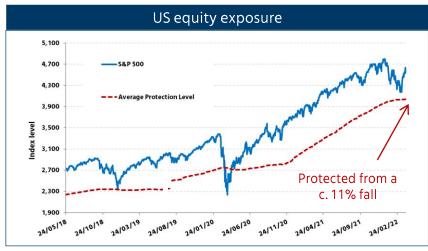


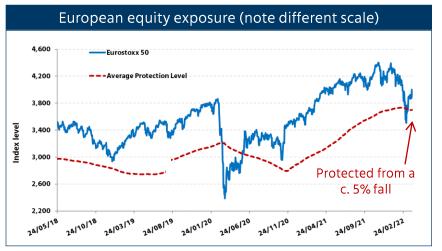
Update on equity protection mandate





- The Fund implemented a dynamic equity protection strategy on 24
 May 2018 with exposure of £362m. The equity protection strategy was
 revised in Q4 2020, increasing the call frequency to two weekly. This
 ensures that the Fund can participate in more upside as equity markets
 rise. The TRS structure was extended for a further 3 years on 23 May
 2021 with no further changes to the strategy.
- Equity markets rose over March, following a fall at the beginning of the month which took the European equity exposure below the average protection level. Performance for the strategy was positive over the month.
- As at 31 March 2022, there was a gain of c. £137.3m on the equity strategy since inception, relative to a c. £211.9m gain had the Fund invested in passive equities (with no frictional costs).
- From inception on 8 March 2019 to 31 March 2022, the currency hedge
 of the market value of the synthetic equity mandate has resulted in a c.
 £7.2m loss relative to an unhedged position, as sterling has weakened
 at an overall level since inception.







Developed market physical equity currency hedge



Comments

- A currency hedge was placed on the physical, developed equity portfolio to lock-in gains from sterling weakness and reduce currency risk.
- The hedge has been implemented via a currency overlay, using 3
 month forward contracts, within the Insight QIAIF. The hedge is
 updated quarterly to allow for changes in the underlying equity
 exposure.
- As at 31 March 2022, the market value of the currency hedge since inception on 22 August 2019 was £7.0m.
- The market value of the currency hedge has decreased over March, driven primarily due to a weakening of sterling against the dollar. Sterling also weakened versus the Euro, but strengthened versus the yen.

	Currency basket weight	FX performance (since inception*)	FX change in performance since 28 February 2022
EUR	15%	£2.2m	(£0.3m)
JPY	8%	£3.6m	£0.6m
USD	77%	£1.3m	(£3.3m)
	100%	£7.0m	(£3.0m)

^{*}Insight transacted on the currency hedge on 22 August 2019.

Figures may not sum due to rounding.



Glossary

- **Actuarial Valuation** The formal valuation assessment of the Fund detailing the solvency position and determining the contribution rates payable by the employers to fund the cost of benefits and make good any existing shortfalls as set out in the separate Funding Strategy Statement.
- Collateral Liquid assets held by the Fund as security which may be used to offset the potential loss to a counterparty.
- Counterparty Commonly an investment bank on the opposite side of a financial transaction (e.g. swaps).
- **Deficit** The extent to which the value of the Fund's liabilities exceeds the value of the Fund's assets.
- **Dynamic protection strategy** Strategy to provide downside protection from falls in equity markets where the protection levels vary depending on evolution of the market.
- **Equity option** A financial contract in which the Fund can define the return it receives for movements in equity values.
- **Flightpath** A framework that defines a de-risking process whereby exposure to growth assets is reduced as and when it is affordable to do so i.e. when "triggers" are hit, whilst still expecting to achieve the overall funding target.
- Funding level The difference between the value of the Fund's assets and the value of the Fund's liabilities expressed as a percentage.
- **Funding & Risk Management Group (FRMG)** A subgroup of Pension Fund officers and advisers set up to discuss and implement any changes to the Risk Management framework as delegated by the Committee. It is made up of the Clwyd Pension Fund Manager, Pension Finance Manager, Fund Actuary, Strategic Risk Adviser and Investment Advisor.
- **Hedging** A strategy aiming to invest in low risk assets when asset yields are deemed attractive. Achieved by investing in government backed assets (or equivalent) with similar characteristics to the Fund future CPI linked benefit payments.
- **Hedge ratio** The level of hedging in place in the range from 0% to 100%.
- Insight QIAIF (Insight Qualifying Investor Alternative Investment Fund) An investment fund specifically designed for the Fund to allow Insight to manage the liability hedging and synthetic equity assets.



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