Monitoring of the 2020 Financial Management Plan June 2022

Background

In between actuarial valuations, the Trustee monitors how the Scheme is progressing against its Financial Management Plan. This document provides details of the monitoring for the month end of June 2022.

The purpose of the monitoring is to indicate whether or not the Scheme's financial position is progressing as expected and whether it is appropriate to continue to fund the Scheme on the basis of the 2020 valuation. It does not lead to any direct action from the Trustee other than potentially commissioning further analysis and advice.

Further, it should be noted that monitoring is not intended to answer the question: what are the contribution requirements if a valuation was undertaken at the monitoring date?

In the main body of the report, figures are calculated on the benefit changes that the Joint Negotiating Committee (JNC) decided to put forward and with the associated additional covenant support measures provided by our sponsoring employers which came in to effect from 1 April 2022.

This document is published by the Trustee for information only and is not intended to be used as the basis for any decisions.

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Monitoring of the 2020 Financial Management Plan June 2022

Differences between monitoring and actuarial valuation

The monitoring approach is not as thorough and hence does not give the same outcome as would be given by an actuarial valuation at the effective date. This is for a number of reasons, including:

- While monitoring updates the main financial assumptions, these and other assumptions do not go through the same level of assessment as would be the case for an actuarial valuation; in particular they do not necessarily reflect the risk capacity and appetite of employers at that date. In practice for an actuarial valuation the Trustee's Integrated Risk Management Framework would influence the choice of assumptions.
- An actuarial valuation would require consultation with UUK in relation to the assumptions used and the contributions payable; it is not possible to pre-judge the outcome of any such process.
- The deficit recovery contributions are based on the recovery plan parameters shown. At a valuation, additional factors (including the views of the Pensions Regulator) would be considered which could result in a different recovery plan.
- The calculations do not allow for new membership data, and contain some approximations relative to an actuarial valuation.

The monitoring position is relatively volatile from month to month, and in light of this the Trustee considers the overall history and trends since the valuation date rather than just the position at the monitoring date.

Figures allow for revised benefits from 1 April 2022 and implemented covenant support package

Monitoring results	Valuation	Monitoring	
	31-Mar-20	30-Jun-22	Change
Assets (£bn)	66.5	77.6	+11.1
Technical Provisions liabilities (£bn)	80.6	75.8	-4.8
Technical Provisions deficit (£bn)	14.1	-1.8	-15.9
Future service cost	25.2%	21.2%	-4.0%
Deficit recovery contribution	6.2%	0.0%	-6.2%

Monitoring metrics

Reliance Risk Metric	Green	Total contribution		Green	Covenant	Green
Measures potential contribution required to reach self-sufficien	rcy	Remaining recovery period 0.25% outperformance	21.2%		Measures strength of the sector	
7.5%		10 year recovery period No outperformance	21.2%		Unchanged	
Valuation date	13.2%	Valuation date		31.4%	Valuation date	Strong

Main drivers of change since 31 March 2020 valuation date

- Since the valuation date, the value of the Scheme's assets has recovered to pre-pandemic levels, due in large part to high returns on equities.
- The Technical Provisions liability has decreased on the monitoring basis since the valuation date to due to rising nominal gilt yields, partly offset by higher inflation expectations and lower future expected returns relative to gilts (due to the high returns experienced to some extent).
- Overall the Technical Provisions deficit on the valuation date has been eliminated on the monitoring basis due to an increase in asset prices and a decrease in Technical Provisions liability, and instead is showing a surplus of £1.8bn.
- The future service contribution requirement has decreased on the monitoring basis due to higher nominal gilt yields. The 2.5% cap on annual inflationary increases (on benefits earned since 1 April 2022) limits the impact of changes in expected inflation on the future service cost.
- Total contribution requirements (including deficit contributions) are lower than at the valuation date based on the monitoring approach.
- Both the Reliance Risk Metric and Total Contribution Metric have improved since the valuation date, from Amber to Green.
- Market conditions have remained highly volatile, since 31 March 2022 when the assumptions were last looked at in more detail as part of the Accelerated Year-end Review (AYR). In particular, the relative movement in the nominal and index-linked yield implies a potential change in the Inflation Risk Premium. For example, the outcome at 30 June 2022 from removing the Inflation Risk Premium and adjusting the pre and post-retirement discount rates would be a deficit of £2.5bn (slightly higher than that reported in the AYR) and a future service cost of 22.5% (significantly below that in the AYR).

If, at the next valuation, there is a significantly improved financial position relative to the 2020 valuation, it may be possible to increase benefits, decrease contributions or do a combination of both.

Information is based on the monitoring approach, which is not intended to reflect the results that would be given by an actuarial valuation.

Figures allow for revised benefits from 1 April 2022 and implemented covenant support package

Reliance Risk Metric

7.5%

Valuation date 13.2%

Affordable Risk Capacity (ARC) £26 - 29bn

Valuation date £30 - 33bn

Reliance Risk Metric: Green

Total contribution

Remaining recovery period 0.25% outperformance **21.2%**

10 year recovery period No outperformance 21.2%

Valuation date 31.4%

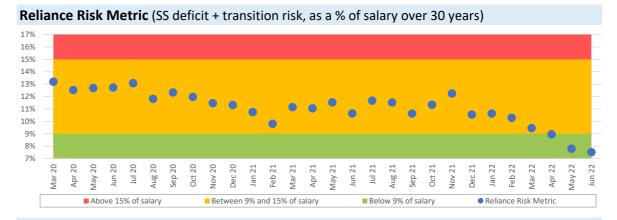
Total contribution: Green

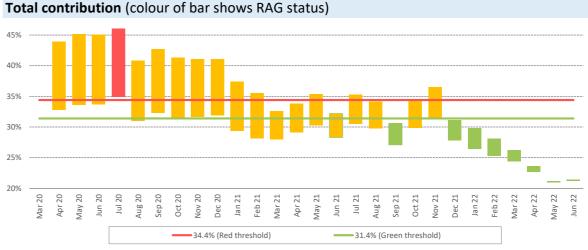
Covenant

Unchanged

Valuation date Strong

Covenant: Green





The height of the bar shows the range in contribution requirements, with the lower end of the bar showing the contributions using DRCs based on the remaining recovery period with outperformance and the upper end using DRCs based on a 10-year recovery period with no outperformance.

Note: Affordable Risk Capacity represents the present value of 10% of salary over 30 years.

Liabilities at the valuation date included an allowance in the liabilities of £0.5bn for certain late retirement entitlements and short service members with less than two years' service who retain rights to cash transfer sums. This adjustment is included in the monitoring figures.

The DRC calculation is approximate and assumes an immediate change in contributions. The FSC has been adjusted approximately to allow for the agreed delayed implementation of the 2.5% pa pension increase cap. The actual DRC will increase to 6.3% when this is implemented.

Quarterly covenant monitoring update

SUMMARY: The covenant remains Strong

HIGHLIGHTS/LOWLIGHTS

- Review of Scheme covenant for AYR presented to Board in June, confirming no change in covenant status.
- · Employer debt monitoring survey closed 30 June.
- 86% overall response rate (HEIs 96%, non-HEIs 75%).
- 32% y/y decline in average metric exceedances per response.

Sector insights and events:

- Research Excellence Framework results released May showing improvement in UK HE research quality; change in methodology resulted in improved rankings for many lower-ranked HEIs.
- OfS financial sustainability report published June showing improved financial position and cash generation of English HEIs in FY21 but with dip in performance expected in FY22. In line with findings of USS covenant update for AYR.

ACTIVITY LOG (Number of cases)		
	QTD	YTD
 Non-survey DM notifications 	3	5
Of which:		
 intention to secure debt 	1	1
 Quasi-security planned 	1	1
Open engagement cases	2	2
Requests for clarification	24	45
Complaints received	0	0
Other feedback	10	14
Debt monitoring survey:	2022	2021
 Completed DM survey responses 	285	250
 # in-scope HEIs exceeding follow-up thresholds 	9	N/A
 In-scope cases requiring further measures 	0	N/A

OPEN CASES	Issue raised	DATE FIRST REPORTED	CURRENT STATUS	PLANNED NEXT STEPS	RAG
Institution A	Intention to transfer existing accommodation block into off-balance sheet entity as part of development and financing of new accommodation facilities	28/04/2022	Considering if covenant enhancing	Seeking further details from HEI	G
Institution B	Institute of Technology contract seeks security over new-build facilities	25/5/2022	Discussions ongoing	Discussions to continue	G

Figures allow for revised benefits from 1 April 2022 and implemented covenant support package

Technical Provisions	s Deficit	Self-Suffic	ciency Deficit		Reliance Risk Met	ric
-£1.8br	1	£13	3.6bn		7.5%	
Valuation date (31/03/2020)	£14.1bn	Valuation date		£35.5bn	Valuation date	13.2%
Liability	£75.8bn	Liability		£91.2bn	Components:	
Pre-retirement discount rate Post-retirement discount rate	Gilts + 1.95% Gilts + 0.63%	Discount rate	Gi	lts + 0.63%	Self suff deficit + transition risk (£ ÷ Value of salary over 30 years	7bn) £20.6bn £274bn
		Self-sufficiency VaR		£17.0bn	Reliance Risk M	etric: Green
Future Service Contribution	n Requirement	Deficit Recov	ery Contributi	ion	Total Contributio	n
21.2%		Remaining recovery per 0.25% outperformance	riod	0.0%	Remaining recovery period 0.25% outperformance	21.2%
The Future Service Contribution Requiremallowance for outperformance, allowing for reduces the Future Service Contribution Re	or outperformance	10 year recovery period No outperformance	I	0.0%	10 year recovery period No outperformance	21.2%
approximately 0.3%.	equiliente by	Valuation date (amou	nt being paid)	6.2%	Valuation date (amount being pai	d) 31.4%
Valuation date (amount being	paid) 25.2%				Total contribu	ition: Green
Assets		IRM	F metrics		Covenant	
£77.6br	1		31-Mar-20	30-Jun-22	Unchange	d
Valuation date	£66.5bn	Metric A	10.0	12.0	Valuation date	Strong
'Breakeven' discount rate	Gilts + 0.96%	Metric B	-4.0	13.8		
breakeven discountrate	CPI + 0.76%	Metric C	40.6	62.4	Cove	nant: Green

Note: Affordable Risk Capacity represents the present value of 10% of salary over 30 years. The 'Breakeven' discount rate is that at which the liability value equals the asset value.

Liabilities at the valuation date included an allowance in the liabilities of £0.5bn for certain late retirement entitlements and short service members with less than two years' service who retain rights to cash transfer sums. This adjustment is included in the monitoring figures.

The DRC calculation is approximate and assumes an immediate change in contributions. The FSC has been adjusted approximately to allow for the agreed delayed implementation of the 2.5% pa pension increase cap. The actual DRC will increase to 6.3% when this is implemented.

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Technical Provisions - Assumptions		
	31-Mar-20	30-Jun-22
FBB Pre ret expected rtn vs Gilts *	Gilts + 5.28%	Gilts + 4.17%
FBB Pre ret expected rtn vs Index-linked gilts *	ILG + 5.74%	ILG + 4.25%
Pre-retirement discount rate	Gilts + 2.75%	Gilts + 1.95%
Post-retirement discount rate	Gilts + 1%	Gilts + 0.63%
Gilts (single equivalent) nominal	0.7%	2.5%
CPI (single equivalent)	2.1%	2.7%
CPI with 2.5% cap (single equivalent)	1.7%	1.9%
Cingle equivalent discount rate	Gilts + 1.6%	Gilts + 1.1%
Single equivalent discount rate	CPI + 0.3%	CPI + 0.9%

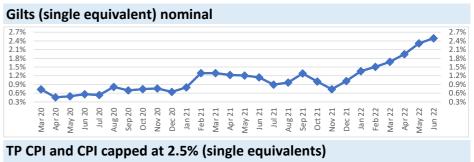
^{* 30} yr expected return. 55% growth portfolio until February 2022 then VIS portfolio.

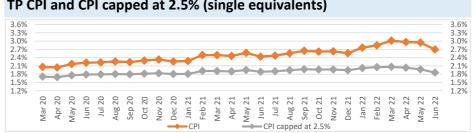
Calculated on a deterministic basis without a rebalancing premium for monitoring purposes. At the 2020 valuation, the expected return calculated on a stochastic basis which allows for rebalancing was Gilts+5.9%.

Self-sufficiency - Assumptions

	31-Mar-20	30-Jun-22
Discount rate	Gilts + 1%	Gilts + 0.63%
Gilts (single equivalent) nominal	0.7%	2.5%
CPI (single equivalent)	2.6%	3.2%
Single equivalent discount rate	CPI - 0.9%	CPI - 0.1%

Affordable Risk Capacity 31-Mar-20 30-Jun-22 Discount rate used to calculate the ARC Gilts + 1.2% Gilts + 1.07%









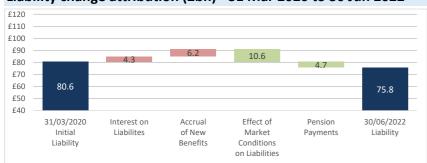
At 31 March 2020, an allowance for investment outperformance of 0.5% pa was made in calculating the future service contribution requirement and deficit recovery contributions. For monitoring subsequent dates, the allowance for investment outperformance is made in calculating the deficit recovery contribution and total contributions where indicated. Within the monitoring, the future service contribution requirement shown does not include outperformance. The outperformance allowance was reduced to 0.25% pa from 31 March 2021.

Figures allow for revised benefits from 1 April 2022 and implemented covenant support package

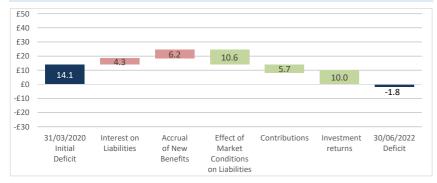
Technical Provisions

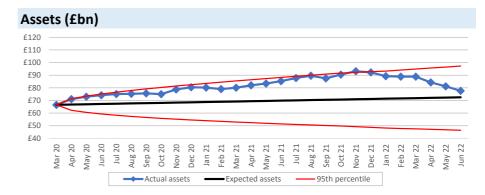
	31-Mar-20	30-Jun-22	Change
Assets £bn	66.5	77.6	+11.1
Liabilities £bn	80.6	75.8	-4.8
Deficit £bn	14.1	-1.8	-15.9
Funded Status %	83%	102%	+19%

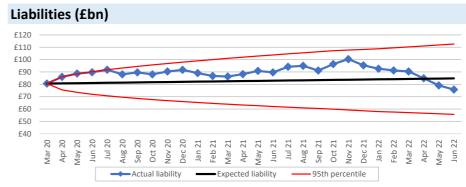
Liability change attribution (£bn) - 31 Mar 2020 to 30 Jun 2022

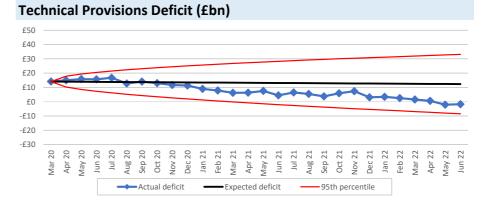


Deficit change attribution (£bn) - 31 Mar 2020 to 30 Jun 2022









Figures allow for revised benefits from 1 April 2022 and implemented covenant support package

Future service contributions required

	31-Mar-20	30-Jun-22
DB Future Service Cost over next 12 months	19.5%	15.5%
Expenses	0.4%	0.4%
Expected DC conts over next 12 months ¹	5.3%	5.3%
Total ²	25.2%	21.2%

Note

- 1. Includes 0.1% subsidy.
- 2. Excludes deficit contributions.

Future service contributions required (including DC)



Sensitivity and Duration

	31-Mar-20	30-Jun-22
TP Sensitivity (£bn) ¹	-1.6	-1.4
TP Duration of scheme (years)	20	18

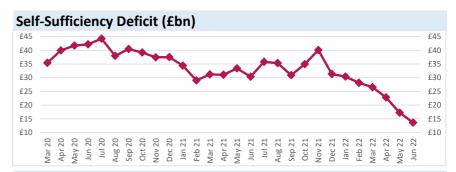
Note

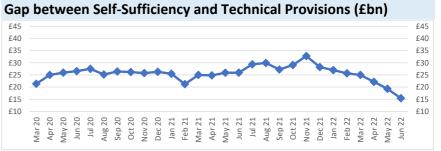
1. Sensitivity is the impact of a +0.1% change in the discount rates on the TP basis

Self-Sufficiency

	31-Mar-20	30-Jun-22	Change
Assets £bn	66.5	77.6	+11.1
Liabilities £bn	102.0	91.2	-10.8
Deficit £bn	35.5	13.6	-21.9
Funded Status %	65%	85%	+20%

	31-Mar-20	30-Jun-22	Change
10% of pay for 30yrs £bn	31.4	27.4	-4.0





At 31 March 2020, an allowance for investment outperformance of 0.5% pa was made in calculating the future service contribution requirement and deficit recovery contributions. For monitoring subsequent dates, the allowance for investment outperformance is made in calculating the deficit recovery contribution and total contributions where indicated. Within the monitoring, the future service contribution requirement shown does not include outperformance. The outperformance was reduced to 0.25% pa from 31 March 2021.

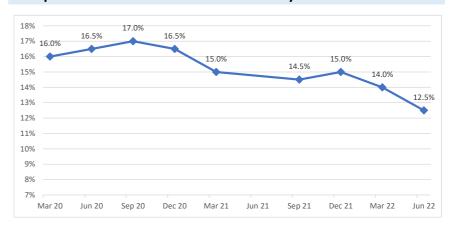
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Probability of TP full-funding by end of recovery plan (April 2038)



All figures quoted to the nearest 0.5%. There was no FBB calibration for June 2021

95th percentile of Reliance Risk Metric in 3 years' time



All figures quoted to the nearest 0.5%. There was no FBB calibration for June 2021

Position of TP Pre Discount Rate on VIS Pre Portfolio Distribution

Percentile of pre-retirement discount rate on VIS Pre-retirement portfolio distribution vs Nominal gilts

	30/06/2022
Pre-retirement discount rate	Gilts + 1.95%
Percentile	77%

APPENDIX A - RAG rating definitions

Covenant

Green No apparent deterioration since previous review

Amber Potential deterioration due to emerging news and/or financial information

Red Significant deterioration due to emerging news and/or financial information

Reliance Risk Metric

Self-sufficiency liability + asset transition risk - assets, expressed as a percentage of salary over 30 years

Green Below 9% of salary (Approx £28bn at the valuation date - consistent with the position if we had been fully funded on a TP basis)

Amber Between 9% and 15% of salary (Between £28bn and £47bn at the valuation date)

Red Above 15% of salary (Above £47bn at the valuation date)

Total contribution

Sum of Future Service Contribution plus Deficit Recovery Contributions With DRC calculated on:

- Calculation 1: Remaining term of the recovery period with outperformance (from March 2021 outperformance is set at 0.25% a year); and
- Calculation 2: A fixed recovery period of 10 years with no outperformance (which will lead to a higher figure than Calculation 1)

Green If the total contribution requirement using DRC 2 is less than or equal to the total contribution payable (31.4%)

Amber If the total contribution requirement using DRC 2 is greater than the total contribution payable (31.4%) and

the total contribution requirement using DRC 1 is less than or equal to 34.4%

Red If the total contribution requirement using DRC 1 is greater than or equal to 34.4%

APPENDIX B - IRMF Metric definitions

Metric A

Affordable risk capacity less (self-sufficiency liability less Technical Provisions)

Green Headroom > Asset transition and demographic risks

Amber Asset transition risk < Headroom < Asset transition risk and demographic risks

Red Headroom < Asset transition risk

Metric B

Affordable risk capacity less self-sufficiency deficit

Green Headroom > Asset transition risk

Amber 0 < Headroom < Asset transition risk

Red Headroom < 0

Metric C

Available risk capacity less self-sufficiency deficit

Green Headroom > 'Value at risk'

Amber Asset transition risk and demographic risks < Headroom < 'Value at risk'

Red Headroom < Asset transition risk and demographic risks

Note

Affordable Risk Capacity represents the present value of 10% of salary over 30 years

Asset and demographic transition risk, and available risk capacity, have not been updated since the valuation date

The figures in this report have been derived for the purpose of monitoring the movement in funding over time. The approach adopted is not as accurate as when determining the liabilities in a one-off calculation and therefore these figures are not intended to be used as a basis for advice without further consideration. Advice from the Scheme Actuary should be sought prior to any decision being taken on the funding of the scheme.