

USS briefing: Capital funding and exhaustion risk – distribution of outcomes

This briefing note provides details of analysis, requested by members of the Joint Negotiating Committee (JNC), of the risk of the scheme running out of funds before all benefits due to members have been paid.

This is a very technical document by design and developed for a specific purpose for the JNC and Valuation Technical Forum (VTF). It is released on request in the form we shared with the JNC. A small number of terms used in this note are explained in the appendix (and there is also a glossary of commonly used terms on the 2023 valuation page), but it remains a piece of work that will require detailed knowledge and understanding of the concepts it explores.

The analysis has been provided to the JNC and has also been discussed by the VTF. The VTF was assembled to provide the opportunity for early and informal discussion between the USS Trustee, UCU and UUK (and their respective advisors) in relation to some of the technical aspects of the 2023 valuation.

In managing the scheme's reliance on the sector and to meet current regulatory requirements, the trustee must consider the ongoing ability to demonstrate solvency at each valuation date.

As a result, the application of the analysis in this note in the context of scheme funding decisions would need to be considered alongside an acceptable measure of the scheme's solvency (which, by design, looks to avoid material reliance on mean-reversion or other assumptions which could vary significantly over time).

While the metrics in this analysis could factor into the Trustee's decision making, the scheme cannot fund solely on the basis of this modelling (i.e., simply that there are few modelled circumstances in which the scheme may be unable to pay benefits) given the need to also consider the associated volatility along the way.

The Trustee is currently considering how, alongside other risk metrics and the wider integrated risk management framework, these outputs might inform future decisions in relation to the valuation investment strategy.



Capital funding and exhaustion risk – distribution of outcomes

This note sets out analysis in respect of March 2021 and June 2022 capital exhaustion and liability shortfall probability analysis originally discussed with the JNC and VTF.

The analysis shows the modelled likelihood of the scheme exhausting all capital¹ before paying all accrued benefits, and the shortfall vs remaining liabilities or assets (for those scenarios in which capital exhaustion does and does not occur respectively).

We assume a fixed investment strategy throughout, and present the results based on three separate allowances for deficit reduction contributions into the scheme:

- 0 0%
- 5% Of Total Payroll Per Annum for 30 years
- o 10% Of Total Payroll Per Annum for 30 years

We present the analysis based on starting points of 31/03/2021 and 30/06/2022 and is provided in table and histogram forms (one for each level of employer reliance represented by the deficit recovery contributions (DRCs) as outlined above).

This is in line with the style of the Miles and Sefton plots, showing the distribution of USS assets and shortfall, with shortfall shown at boundaries of £10bn, £20bn and £30bn (the document can be found here and should be read in conjunction with this paper).

Note that we have generated the results based on the principle that once all capital is exhausted, the value of the liability is held fixed at the corresponding level (i.e. at the point of capital exhaustion) from that year onwards.

To facilitate comparison with the Miles and Sefton plots, we have quoted the results in both nominal and (CPI) real terms.

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¹ Where "Capital" refers to assets held and invested within the DB fund.



Appendix 1: 30/06/2022 Analysis

Assumptions:

- Investment Strategy:
 - VIS aggregate portfolio (60% Growth, 25% Other Fixed Income, 35% LDI, -20% Cash [Leverage])
 - Portfolio held fixed over full simulation, rebalanced monthly
- Accrued benefits as at 30/06/2022 assumed to roll off.
- Three Employer Reliance cases assumed with deficit reduction contributions at:
 - 0 0%
 - o 5% Of Total Payroll Per Annum for 30 years
 - o 10% Of Total Payroll Per Annum for 30 years
 - (Note these contributions are assumed to be received regardless of the prevailing funding position)
- USSIM 30/06/2022 capital market expectations (see table 13 in appendix 3)
- 5000 stochastic simulations via the Ortec Finance "GLASS" ALM solution.
- The initial market value of assets: £77.6bn
- The underlying cashflows are consistent with the Rule 76.1 report. These cashflows are rolled forward to 30/06/2022 allowing for realised inflation and assumed membership changes

Appendix 1.1: Breakdown of 30/06/2022 shortfall results by year and by remaining liability in <u>nominal</u> terms

As demonstrated in the following tables:

- The earlier capital exhaustion occurs, the greater the remaining shortfall (vs the remaining liabilities) see bottom row of tables below.
- At 30 years (2052), we observe capital exhaustion probabilities of 6.1% (assuming 0% DRCs), 0.8% (5% DRCs) and 0.0% (10% DRCs). Further, in the 0% Employer Reliance case, all 6.1% of scenarios in which capital exhaustion occurs at the 30-year point correspond to instances when outstanding liabilities exceed £30bn
- For the 10% Employer Reliance case, the scheme begins to experience capital exhaustion scenarios at the 40-year point (2062 0.4% of scenarios)
- Towards the end of the projection horizon, by year 60 (2082), the probability of capital exhaustion is 17.9% (0% Employer Reliance), 5.0% (5% Employer Reliance) and 0.9% (10% Employer Reliance).



Tables 1, 2 and 3: Probability of capital exhaustion by outstanding SS liability -0%, 5% and 10% Employer Reliance Cases respectively as at 30/06/2022, Nominal Terms:

Table 1 (0% DRC):

	Outstanding	2022	2032	2042	2052	2062	2072	2082
	Assets/Liability							
Capital Not	0-50 (£bn)	0.0%	6.0%	14.1%	15.6%	11.0%	7.3%	4.3%
Exhausted	50-100 (£bn)	100.0%	49.1%	29.3%	17.7%	11.3%	6.8%	4.3%
	100-200 (£bn)	0.0%	42.2%	37.6%	25.6%	17.9%	11.9%	8.4%
Remaining	200-400 (£bn)	0.0%	2.7%	16.5%	23.3%	20.3%	16.9%	12.6%
Assets	>400 (£bn)	0.0%	0.0%	2.0%	11.7%	26.5%	40.5%	52.5%
Conital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	1.2%
Capital	£10bn to							
Exhausted	£20bn	0.0%	0.0%	0.0%	0.0%	0.3%	2.0%	2.4%
Domaining	£20bn to							
Remaining Liabilities	£30bn	0.0%	0.0%	0.0%	0.0%	1.5%	2.4%	2.4%
LIADIIILIES	Above £30bn	0.0%	0.0%	0.5%	6.1%	11.2%	11.8%	11.9%

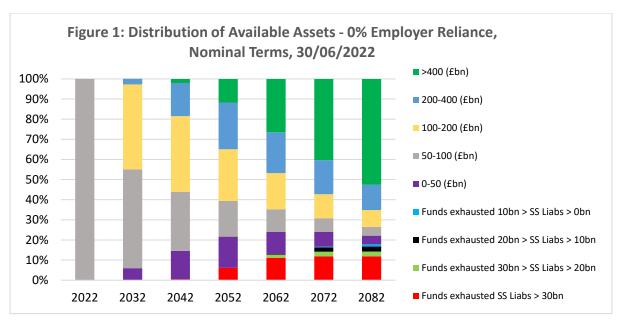
Table 2 (5% DRC for 30 Years)

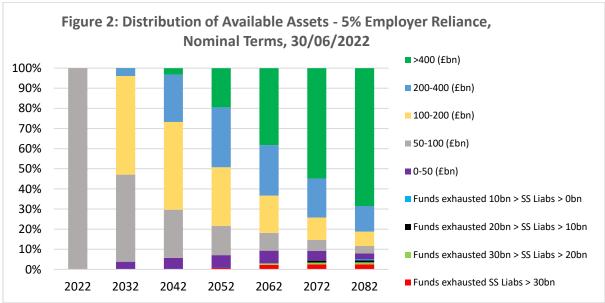
	Outstanding Assets/Liability	2022	2032	2042	2052	2062	2072	2082
Capital Not	0-50 (£bn)	0.0%	3.8%	5.7%	6.3%	6.3%	4.6%	3.0%
Exhausted	50-100 (£bn)	100.0%	43.3%	23.9%	14.6%	8.9%	5.5%	3.7%
	100-200 (£bn)	0.0%	49.0%	43.6%	29.1%	18.5%	11.1%	7.1%
Remaining	200-400 (£bn)	0.0%	3.8%	23.5%	29.7%	25.1%	19.4%	12.7%
Assets	>400 (£bn)	0.0%	0.1%	3.2%	19.5%	38.2%	54.9%	68.5%
Constant	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.5%
Capital Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	0.1%	0.9%	1.0%
Remaining	£20bn to £30bn	0.0%	0.0%	0.0%	0.0%	0.7%	1.0%	1.0%
Liabilities	Above £30bn	0.0%	0.0%	0.1%	0.8%	2.2%	2.5%	2.5%

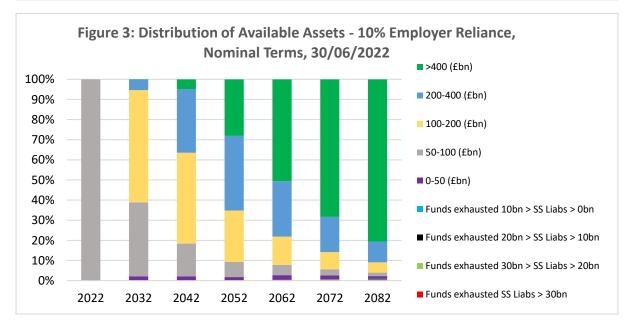
Table 3 (10% DRC for 30 Years)

	Outstanding	2022	2032	2042	2052	2062	2072	2082
	Assets/Liability							
Capital Not	0-50 (£bn)	0.0%	2.2%	2.2%	1.8%	2.3%	1.8%	1.3%
Exhausted	50-100 (£bn)	100.0%	36.7%	16.2%	7.5%	5.1%	3.1%	1.7%
	100-200 (£bn)	0.0%	55.7%	45.1%	25.6%	14.1%	8.5%	5.1%
Remaining	200-400 (£bn)	0.0%	5.3%	31.7%	37.0%	27.5%	17.5%	10.4%
Assets	>400 (£bn)	0.0%	0.1%	4.8%	28.1%	50.6%	68.3%	80.6%
Conital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%
Capital	£10bn to							
Exhausted	£20bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%
Remaining	£20bn to							
Liabilities	£30bn	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
Liabilities	Above £30bn	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.4%











Appendix 1.2: 30/06/2022 Results – Real Terms

Tables 4, 5 and 6: Probability of capital exhaustion by outstanding SS liability -0%, 5% and 10% Employer Reliance Cases respectively as at 30/06/2022, Real Terms:

Table 4 (0% DRC):

	Outstanding Assets/Liability	2022	2032	2042	2052	2062	2072	2082
Capital Not	0-50 (£bn)	0.0%	16.6%	32.1%	33.5%	27.6%	20.8%	16.0%
Exhausted	50-100 (£bn)	100.0%	64.5%	41.2%	27.8%	20.3%	16.6%	13.3%
	100-200 (£bn)	0.0%	18.8%	23.8%	24.4%	22.9%	20.3%	18.2%
Remaining	200-400 (£bn)	0.0%	0.1%	2.3%	7.6%	13.0%	16.8%	18.0%
Assets	>400 (£bn)	0.0%	0.0%	0.1%	0.6%	3.2%	8.8%	16.6%
Capital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.2%	3.4%	4.6%
Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	4.4%	4.9%	4.9%
	£20bn to £30bn	0.0%	0.0%	0.0%	2.2%	4.3%	4.3%	4.3%
Remaining Liabilities	Above £30bn	0.0%	0.0%	0.5%	3.9%	4.1%	4.1%	4.1%

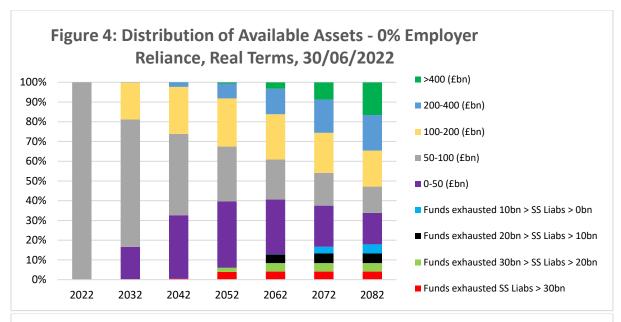
Table 5 (5% DRC for 30 Years)

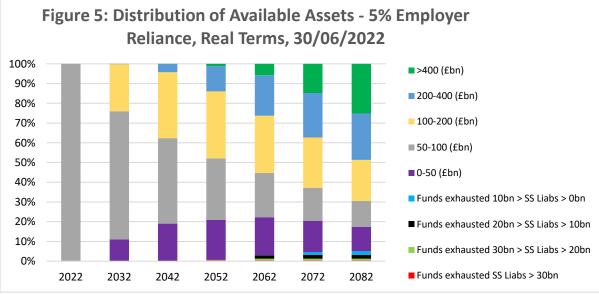
	Outstanding Assets/Liability	2022	2032	2042	2052	2062	2072	2082
Camital Nat	0-50 (£bn)	0.0%	11.0%	19.0%	20.3%	19.3%	16.0%	12.3%
Capital Not Exhausted	50-100 (£bn)	100.0 %	64.9%	43.3%	31.1%	22.4%	16.8%	13.2%
Remaining	100-200 (£bn)	0.0%	23.8%	33.4%	33.9%	29.0%	25.5%	20.8%
Assets	200-400 (£bn)	0.0%	0.2%	4.2%	12.8%	20.5%	22.5%	23.5%
Assets	>400 (£bn)	0.0%	0.0%	0.1%	1.2%	5.7%	14.8%	25.2%
Capital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.1%	1.3%	1.9%
Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	1.7%	1.9%	1.9%
	£20bn to £30bn	0.0%	0.0%	0.0%	0.3%	0.8%	0.8%	0.8%
Remaining Liabilities	Above £30bn	0.0%	0.0%	0.1%	0.5%	0.5%	0.5%	0.5%

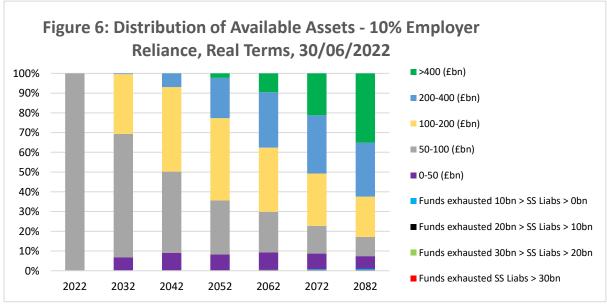
Table 6 (10% DRC for 30 Years)

	Outstanding Assets/Liability	2022	2032	2042	2052	2062	2072	2082
Capital Not	0-50 (£bn)	0.0%	6.8%	9.1%	8.2%	8.9%	8.0%	6.5%
Exhausted	50-100 (£bn)	100.0%	62.5%	41.1%	27.4%	20.6%	14.0%	9.7%
	100-200 (£bn)	0.0%	30.3%	42.8%	41.7%	32.5%	26.5%	20.4%
Remaining	200-400 (£bn)	0.0%	0.4%	6.9%	20.5%	28.0%	29.5%	27.3%
Assets	>400 (£bn)	0.0%	0.0%	0.1%	2.2%	9.6%	21.2%	35.2%
Capital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.5%
Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%	0.3%
	£20bn to £30bn	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%
Remaining Liabilities	Above £30bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%











Appendix 2: 31/03/2021 Analysis

Assumptions:

- Investment Strategy:
 - "Strong" case aggregate portfolio (55% Growth, 25% Other Fixed Income, 32% LDI, -12% Cash [Leverage])
 - Portfolio held fixed over full simulation, rebalanced monthly
- Accrued benefits as at 31/03/2021 assumed to roll off.
- Three Employer Reliance cases assumed with deficit reduction contributions at:
 - ∩ **∩**%
 - o 5% Of Total Payroll Per Annum for 30 years
 - o 10% Of Total Payroll Per Annum for 30 years
 - (Note these contributions are assumed to be received regardless of the prevailing funding position)
- USSIM 31/03/2021 capital market expectations (see table 13 in appendix 3)
- 2000 Simulations.
- The initial market value of assets: £80.6bn
- The underlying cashflows are consistent with the Rule 76.1 report. These cashflows are rolled forward to 31/03/2021 allowing for realised inflation and assumed membership changes

Appendix 2.1: Breakdown of 31/03/2021 shortfall results by year and by remaining liability in <u>nominal</u> terms

As demonstrated in the following tables:

- We again see from the following tables/histograms that the earlier capital exhaustion occurs, the greater the shortfall.
- At 30 years (2051), we observe capital exhaustion probabilities of 5.0% (assuming 0% DRCs),
 0.5% (5% DRCs) and 0.0% (10% DRCs). Further:
 - In the 0% DRCs case: Of those 5.0% scenarios where capital exhaustion occurs at the 30-year point, almost all of them (4.9%) correspond to instances when outstanding liabilities exceed £30bn
 - In the 5% DRCs case: All the scenarios that experience capital exhaustion at the 30year point correspond to instances when outstanding liabilities exceed £30bn
- For the 10% DRCs case, the scheme begins to experience capital exhaustion scenarios at the 40-year point (2061 0.4% of scenarios)
- Towards the end of the projection horizon, by year 60 (2081):
 - The probability of capital exhaustion is 18.2% (0% DRCs), 5.0% (5% DRCs) and 0.8% (10% DRCs).
 - 81.8% (0% DRCs), 95% (5% DRCs) and 99.2% (10% DRCs) of scenarios exhibit a surplus funding position.



Tables 7, 8 and 9: Probability of capital exhaustion by outstanding SS liability -0%, 5% and 10% Employer Reliance Cases respectively as at 31/03/2021, Nominal Terms:

Table 7 (0% DRC):

	Outstanding Assets/Liability	2021	2031	2041	2051	2061	2071	2081
Capital Not	0-50 (£bn)	0.0%	10.8%	20.0%	21.6%	16.0%	10.7%	7.5%
Exhausted	50-100 (£bn)	100.0%	67.5%	35.7%	21.6%	13.8%	9.7%	6.5%
	100-200 (£bn)	0.0%	21.7%	36.8%	28.2%	18.6%	13.1%	9.7%
Remaining	200-400 (£bn)	0.0%	0.0%	6.9%	18.7%	22.1%	18.1%	14.0%
Assets	>400 (£bn)	0.0%	0.0%	0.3%	4.9%	16.5%	31.2%	44.1%
Conital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	1.5%
Capital Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	0.5%	3.0%	3.1%
Remaining	£20bn to £30bn	0.0%	0.0%	0.0%	0.1%	2.9%	3.7%	3.7%
Liabilities -	Above £30bn	0.0%	0.0%	0.3%	4.9%	9.6%	9.9%	9.9%

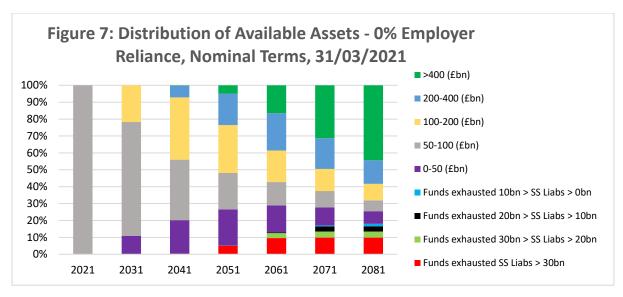
Table 8 (5% DRC for 30 years):

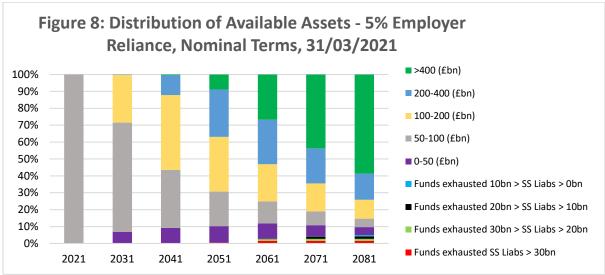
	Outstanding Assets/Liability	2021	2031	2041	2051	2061	2071	2081
Capital Not	0-50 (£bn)	0.0%	6.9%	9.2%	9.8%	9.1%	6.6%	4.8%
Exhausted	50-100 (£bn)	100.0%	64.6%	34.4%	20.5%	13.0%	8.2%	5.0%
	100-200 (£bn)	0.0%	28.3%	44.2%	32.3%	22.0%	16.5%	11.2%
Remaining	200-400 (£bn)	0.0%	0.2%	11.7%	28.0%	26.3%	20.7%	15.5%
Assets	>400 (£bn)	0.0%	0.0%	0.5%	8.9%	26.7%	43.6%	58.5%
Canital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.8%
Capital Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	0.2%	1.4%	1.4%
Remaining Liabilities	£20bn to £30bn	0.0%	0.0%	0.0%	0.0%	1.1%	1.2%	1.2%
Liabilities	Above £30bn	0.0%	0.0%	0.0%	0.5%	1.6%	1.6%	1.6%

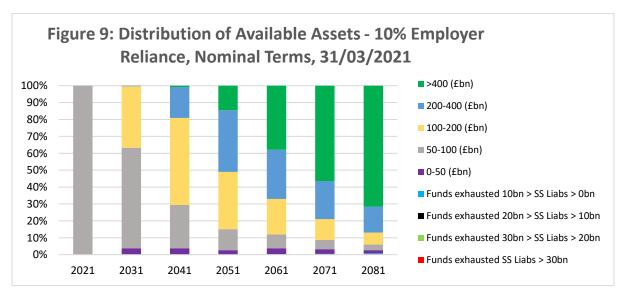
Table 9 (10% DRC for 30 years):

	Outstanding Assets/Liability	2021	2031	2041	2051	2061	2071	2081
Capital Not	0-50 (£bn)	0.0%	3.9%	3.8%	2.7%	3.5%	2.8%	2.0%
Exhausted	50-100 (£bn)	100.0%	59.4%	25.6%	12.5%	8.2%	5.5%	3.3%
	100-200 (£bn)	0.0%	36.4%	51.5%	33.8%	21.0%	12.3%	7.2%
Remaining	200-400 (£bn)	0.0%	0.3%	18.3%	36.5%	29.1%	22.6%	15.3%
Assets	>400 (£bn)	0.0%	0.0%	0.8%	14.5%	37.8%	56.2%	71.4%
Capital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.3%
Capital Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	0.2%
Remaining Liabilities	£20bn to £30bn	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%	0.3%
Liabilities	Above £30bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%











Appendix 2.2: 31/03/2021 Results – Real Terms

Tables 10, 11 and 12: Probability of capital exhaustion by outstanding SS liability -0%, 5% and 10% Employer Reliance Cases respectively as at 31/03/2021, in Real Terms:

Table 10 (0% DRC):

	Outstanding Assets/Liability	2021	2031	2041	2051	2061	2071	2081
Capital Not	0-50 (£bn)	0.0%	24.1%	39.9%	41.7%	34.1%	27.1%	20.9%
Exhausted	50-100 (£bn)	100.0%	69.7%	43.8%	30.2%	22.5%	17.4%	15.7%
	100-200 (£bn)	0.0%	6.2%	15.3%	19.4%	20.6%	20.0%	18.0%
Remaining	200-400 (£bn)	0.0%	0.0%	0.7%	3.5%	8.7%	13.2%	16.7%
Assets	>400 (£bn)	0.0%	0.0%	0.0%	0.1%	1.2%	5.2%	10.7%
Canital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.6%	4.5%	5.4%
Capital Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.3%	5.9%	6.2%	6.2%
Remaining Liabilities	£20bn to £30bn	0.0%	0.0%	0.0%	2.7%	4.3%	4.3%	4.3%
Liabilities	Above £30bn	0.0%	0.0%	0.3%	2.1%	2.1%	2.1%	2.1%

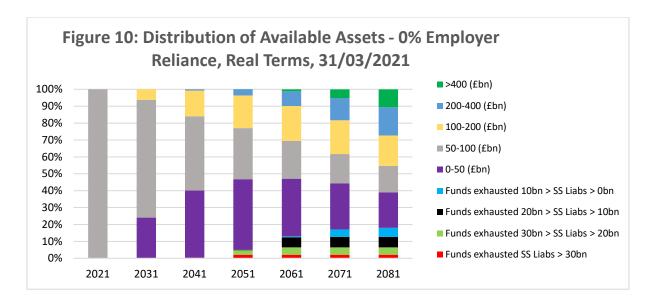
Table 11 (5% DRC for 30 years):

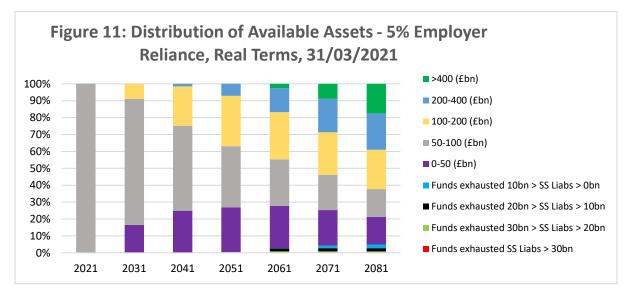
	Outstanding Assets/Liability	2021	2031	2041	2051	2061	2071	2081
Capital Not	0-50 (£bn)	0.0%	16.5%	24.9%	26.5%	24.9%	20.9%	16.4%
Exhausted	50-100 (£bn)	100.0%	74.5%	50.2%	36.1%	27.6%	20.8%	16.3%
	100-200 (£bn)	0.0%	9.0%	23.4%	29.8%	27.7%	25.2%	23.2%
Remaining	200-400 (£bn)	0.0%	0.0%	1.5%	6.8%	14.2%	19.8%	21.5%
Assets	>400 (£bn)	0.0%	0.0%	0.0%	0.3%	2.6%	8.9%	17.5%
Canital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.2%	1.5%	2.2%
Capital Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	1.9%	2.0%	2.0%
Remaining Liabilities	£20bn to £30bn	0.0%	0.0%	0.0%	0.3%	0.6%	0.6%	0.6%
Liabilities	Above £30bn	0.0%	0.0%	0.0%	0.2%	0.3%	0.3%	0.3%

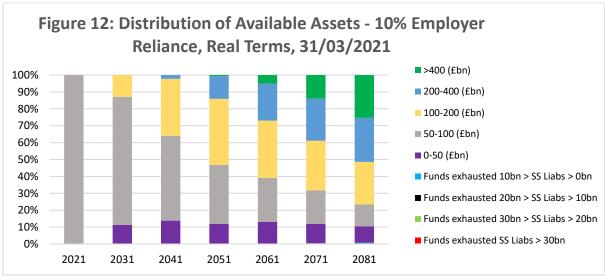
Table 12 (10% DRC for 30 years):

	Outstanding Assets/Liability	2021	2031	2041	2051	2061	2071	2081
Capital Not	0-50 (£bn)	0.0%	11.4%	13.9%	11.9%	12.9%	11.3%	9.8%
Exhausted	50-100 (£bn)	100.0%	75.7%	50.1%	34.8%	25.9%	19.9%	12.9%
	100-200 (£bn)	0.0%	12.9%	33.8%	39.1%	33.9%	29.3%	25.2%
Remaining	200-400 (£bn)	0.0%	0.0%	2.2%	13.5%	22.0%	24.9%	26.0%
Assets	>400 (£bn)	0.0%	0.0%	0.0%	0.7%	5.0%	14.0%	25.3%
Canital	0 to £10bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.4%
Capital Exhausted	£10bn to £20bn	0.0%	0.0%	0.0%	0.0%	0.3%	0.4%	0.4%
Remaining	£20bn to £30bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Liabilities	Above £30bn	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%











Appendix 3: Supplementary Assumptions and technical terms

Table 13: USSIM Capital Market Expectations

	Expected return over 30-years			
	Relative to Gilts		Relative to CPI	
Asset class	31/03/21	30/06/22	31/03/21	30/06/22
Equities	4.2%	3.8%	3.5%	3.7%
Property	2.2%	1.3%	1.6%	1.2%
Listed Credit	1.9%	1.9%	1.2%	1.8%
US Tips	0.6%	0.3%	-0.1%	0.2%
LDI	-1.0%	-0.3%	-1.7%	-0.4%
Cash	0.4%	0.0%	-0.2%	-0.1%

30 Year UK CPI Assumptions:

31/03/2021: 2.2%

30/06/2022: 2.5%

- Valuation Investment Strategy ("VIS"): A theoretical, but investible, asset allocation developed for the 2020 valuation. While the VIS is expected to deliver the required level of long-term returns at a level of investment risk consistent with the Trustee's investment risk appetite, it does not define the actual assets in which USSIM may invest
- Stochastic Asset Liability Modelling ("ALM"): A modelling tool which projects the potential evolution of scheme assets and liabilities through time across multiple independent economic scenarios. The tool provides insight into the range of potential outcomes at the Total DB plan level over a long-term horizon, and facilitates impact analysis for different investment strategies, benefit structures, contribution arrangements etc.
- **Employer Reliance:** The degree to which the DB scheme is "reliant" on the sector to support the full payment of accrued liabilities over the full modelled horizon



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