Disclosure of European Embedded Value (summary) as of March 31, 2021

This is the summarized translation of disclosure of the European Embedded Value ("EEV") of Sumitomo Life Insurance Company (hereinafter "Sumitomo Life"), Medicare Life Insurance Co. (hereinafter "Medicare Life") and Symetra Financial Corporation (hereinafter "Symetra") (collectively, the "Group") as of March 31, 2021.

We calculate EV based on European Embedded Value Principles. In the calculation of EEV, the Group has mainly adopted a market-consistent approach. More specifically, the EEV for Sumitomo Life and Medicare Life are calculated based on a market-consistent approach, while the EEV for Symetra is calculated based on a top-down approach. Both approaches are permitted under the EEV Principles.

As a mutual life insurance company, Sumitomo Life regarded the surplus after policyholder dividends as the value attributable to the company in calculating its EEV.

Contents

- 1. Results
- a. EEV Results of the Group
 - (1) EEV Results
 - (2) Adjusted Net Worth
 - (3) Reconciliation of total net assets to adjusted net worth
 - (4) Value of In-force Business
 - (5) Value of New Business
- b. EEV Results by company
- 2. Statement of changes in EEV
 - a. Statement of changes in EEV of the Group
 - b. Statement of changes in EEV by company
- 3. Sensitivity Analysis
 - a. Sensitivity Analysis of EEV of the Group and the Group's value of new business
 - b. Sensitivity Analysis by company
- 4. Note

Appendix A: Principal EEV Assumptions (Sumitomo Life and Medicare Life)

Appendix B: Principal EEV Assumptions (Symetra)

1. Results

a. EEV Results of the Group

(1) EEV Results

		March 31, 2020	March 31, 2021	increase (decrease)
EEV		3,584.1	4,489.2	905.0
	Adjusted net worth	4,005.4	4,244.1	238.7
	Value of in-force business	(421.3)	245.0	666.3

	Year ended	Year ended	increase
	March 31,2020	March 31,2021	(decrease)
Value of new business	113.9	67.6	(46.3)

- (Note1) The Group EEV is calculated as follows: Sumitomo Life's EEV plus Medicare Life's EEV and Symetra's EEV less Sumitomo Life's carrying amount of equity of Medicare Life and Symetra.
- (Note2) Sumitomo Life's carrying amount of Medicare Life's equity was ¥80.0 billion as of March 31, 2020 and ¥100.0 billion as of March 31, 2021. Sumitomo Life's carrying amount of Symetra's equity was ¥466.5 billion as of March 31, 2020 and as of March 31, 2021.
- (Note3) The Group EEV as of March 31, 2020 and as of March 31, 2021 includes Symetra's EEV as of December 31, 2019 and as of December 31, 2020, respectively, in accordance with Symetra's closing date for the Group's consolidated financial statements.

 The Group's value of new business for the year ended March 31, 2020 and the year ended March 31, 2021 includes Symetra's value of new business for the year ended December 31, 2019 and the year ended December 31, 2020, respectively.

(Reference)

As life insurance products are long term liabilities, Sumitomo Life is investing primarily in yen-denominated interest-bearing assets such as long-term bonds and loans in our ALM strategy.

When interest rates reduce, value of in-force business is decreased reflecting lower expected future prospects of investment return. On the other hand, adjusted net worth is increased by unrealized gains on assets.

The sum of unrealized gains and value of in-force business represents expected future profits from in-force business.

Breakdown of Group EEV based on this idea is as follows.

	March 31, 2020	March 31, 2021	increase (decrease)
EEV	3,584.1	4,489.2	905.0
Total net asset on the balance sheet +Retained earnings liabilities (Note1)	1,316.6	1,413.0	96.4
Value of in-force business +Unrealized gains (losses) on Yen-denominated interest-bearing assets and others (Note2)	1,597.8	1,917.1	319.3
Unrealized gains (losses) of assets other than Yen-denominated interest-bearing assets and others (Note3)	669.7	1,159.0	489.3

- (Note1) The sum of the total net assets on balance sheet, the retained earnings in liabilities (after tax) of Group, consolidation adjustment regarding Medicare Life and Symetra and deferred tax assets of Symetra is reported.
- (Note2) The sum of value of in-force business of Group and unrealized gains (losses) on yen-denominated interest-bearing assets and others (after tax) of Sumitomo Life and Medicare Life is reported. Yen-denominated interest-bearing assets and others (after tax) include yen-denominated bonds, loans and hedged foreign bonds corresponding to yen-denominated insurance, and foreign currency-denominated bonds corresponding to foreign currency-denominated insurance.
- (Note3) The sum of unrealized gains (losses) on securities and loans (after tax) (excluding yen-denominated interest-bearing assets and others), unrealized gains (losses) on estate and liabilities (after tax), unfunded retirement benefit obligations (after tax) is reported.

(2) Adjusted Net Worth

	March 31, 2020	March 31, 2021	increase (decrease)
Adjusted net worth	4,005.4	4,244.1	238.7
Total net asset on the balance sheet (Note1)	955.1	934.9	(20.2)
Retained earnings in liabilities (after tax)	911.3	1,048.0	136.7
Unrealized gains (losses) on securities and miscellaneous items (after tax)	2,568.1	2,710.6	142.5
Unrealized gains (losses) on loans (after tax)	33.0	34.1	1.0
Unrealized gains (losses) on real estate (after tax)	82.1	88.6	6.4
Unrealized gains (losses) on liabilities (after tax)	10.2	(6.3)	(16.6)
Unfunded retirement benefit obligation (after tax)	(4.7)	4.0	8.8
Consolidation adjustment regarding Medicare Life (Note2)	(80.0)	(100.0)	(20.0)
Adjustment for deferred tax assets in Symetra and miscellaneous items	(3.3)	(3.4)	(0.1)
Consolidation adjustment regarding Symetra (Note2)	(466.5)	(466.5)	0.0

⁽Note1) Figures do not include net unrealized gains (losses) on available-for-sale securities and expected disbursements from capital outside the company. In addition, this item includes an adjustment for shareholder dividends Symetra paid to Sumitomo Life on March 2020.

⁽Note2) Deduction consists of the carrying amounts of the equity of Medicare Life and Symetra held by Sumitomo Life, which are recorded under "Total net assets on the balance sheets" in the table above.

(3) Reconciliation of total net assets to adjusted net worth

(billions of yen)

			(Dimerio di Joii)
	March 31, 2020	March 31, 2021	increase (decrease)
Total Net Assets of consolidated base (Note1)	673.9	713.7	39.8
PLUS Retained earnings in liabilities (after tax)	911.3	1,048.0	136.7
PLUS Unrealized gains/losses (after tax)	2,708.7	2,850.3	141.6
PLUS Adjustment for deferred tax assets in Symetra and miscellaneous items	(3.3)	(3.4)	(0.1)
PLUS Difference between Symetra's net assets based on its statutory accounting and US-GAAP (Note2)	(285.1)	(364.5)	(79.4)
LESS Book value of businesses not covered	-	•	-
Adjusted net worth	4,005.4	4,244.1	238.7

- (Note1) Figures do not include net unrealized gains (losses) on available-for-sale securities and expected disbursements from capital outside the company.
- (Note2) The difference between net assets based on statutory accounting and US-GAAP is shown because Symetra's EEV is calculated based on its statutory accounting while the Group's consolidated balance sheet is prepared based on Symetra's US-GAAP balance sheet.

(4) Value of In-force Business (VIF)

			Dillion or your
	March 31, 2020	March 31, 2021	increase (decrease)
Value of in-force business	(421.3)	245.0	666.3
Present value of future profits (Note1)	98.0	745.7	647.7
Time value of financial options and guarantees	(109.8)	(89.0)	20.8
Cost of holding required capital (Note2)	(90.8)	(116.1)	(25.2)
Cost of non-hedgeable risks	(318.6)	(295.6)	23.0

- (Note1) Includes the certainty equivalent present value of future profits for business valued using a marketconsistent approach and present value of future profits for business valued using a top-down approach.
- (Note2) Includes the cost of holding required capital for business valued using a market-consistent approach and the cost of capital for business valued using a top-down approach.

(5) Value of New Business (VNB)

(billions of yen)

	Year ended March 31,2020	Year ended March 31,2021	increase (decrease)
Value of new business (Note)	113.9	67.6	(46.3)
Present value of future profits	144.5	100.3	(44.2)
Time value of financial options and guarantees	(4.0)	(1.7)	2.3
Cost of holding required capital	(9.1)	(7.8)	1.2
Cost of non-hedgeable risks	(17.3)	(23.0)	(5.7)

(Note) The value of new business of March 31, 2021 is calculated excluding the following costs:

Part of sales representative salary, sales expenses, etc.: ¥9.6 billion Part of administrative staff salary, system expenses, etc.: ¥20.4 billion

In calculating the costs required to acquire new policies, the impact of refraining from sales visits due to the expansion of the new coronavirus outbreak (COVID-19) is taken into consideration, and the costs (after tax) are deducted directly from the adjusted net worth of EEV.

The new business margin (the ratio of the value of new business to the present value of premium income) is as follows:

(billions of yen)

	Year ended March 31,2020	Year ended March 31,2021	increase (decrease)
Value of new business (a)	113.9	67.6	(46.3)
Present value of premium income (b) (Note)	2,277.7	2,115.8	(161.8)
New business Margin (a) ÷ (b)	5.0 %	3.2 %	(1.8) points

(Note) Future premium income (as for Symetra, based on the statutory accounting) is discounted by the risk-free rate or the risk discount rate used for the calculation of the value of new business.

(Reference)

The value of new business (VNB) is calculated based on a market consistent method using risk neutral valuation techniques, where the expected excess return of investments over risk free rates is offset by allowing for the price that market participants require for taking on the investment risks. This is achieved by assuming the investment return for all assets will be equal to the risk free rates.

However, Japanese insurance companies actually invest in corporate bonds, foreign bonds, and equities, in addition to Japanese government bonds, and expects to achieve investment returns in excess of risk-free returns. If they achieve investment returns in excess of risk-free returns, their EEV will increase over the term of the policy.

When Sumitomo Life and Medicare Life assume excess returns on investments over risk-free rates, Group's VNB, on the reference basis, will be as set out in the following table. In order to reflect some uncertainty of realizing the expected excess return, discount rates are assumed to be the same as the return on investments.

Please note that this reference basis differs from the risk neutral valuation which is used for EEV and VNB of Sumitomo Life and Medicare Life, respectively. Further, the VNB in following table is not the VNB which forms part of each EEV.

(billions of yen)

	(Dillions of year)
	Year ended
	March 31,2021
Value of new business assuming excess return, on the reference basis (Note)	112.4

(Note) Sumitomo Life assumes the excess return on investments over risk-free rates is 1.0%, as Sumitomo Life's expected investment return in FY2020 is 1.4%. Medicare Life assumes the excess return on investments over risk-free rates is 0.3%, as Medicare Life's expected investment return in FY2020 is 0.9%.

b. EEV Results by company

(1) Sumitomo Life

(billions of yen)

			(billions of yell)
	March 31, 2020	March 31, 2021	increase (decrease)
EEV (Note)	3,742.4	4,662.5	920.1
Adjusted net worth	4,295.1	4,574.5	279.3
Total net asset on the balance sheet	750.1	750.5	0.3
Retained earnings in liabilities (after tax)	869.5	1,003.9	134.4
Unrealized gains (losses) on securities and miscellaneous items (after tax)	2,554.8	2,699.6	144.8
Unrealized gains (losses) on loans (after tax)	33.0	34.1	1.0
Unrealized gains (losses) on real estate (after tax)	82.1	88.6	6.4
Unrealized gains (losses) on liabilities (after tax)	10.2	(6.3)	(16.6)
Unfunded retirement benefit obligation (after tax)	(4.7)	4.0	8.8
Value of in-force business	(552.7)	88.0	640.7
Certainty equivalent present value of future profits	(135.9)	483.9	619.9
Time value of financial options and guarantees	(95.0)	(76.7)	18.3
Cost of holding required capital	(46.1)	(76.8)	(30.6)
Cost of non-hedgeable risks	(275.6)	(242.3)	33.2

(billions of yen)

	Year ended March 31,2020	Year ended March 31,2021	increase (decrease)
Value of new business	112.6	51.4	(61.2)
Certainty equivalent present value of future profits	130.2	62.2	(67.9)
Time value of financial options and guarantees	(1.8)	(1.0)	0.7
Cost of holding required capital	(2.1)	(2.2)	(0.0)
Cost of non-hedgeable risks	(13.5)	(7.5)	5.9

(Note) The shares of Medicare Life and Symetra held by Sumitomo Life are valued on a book value basis for purposes of calculating the embedded value of Sumitomo Life on a stand-alone basis. For purposes of calculating the embedded value of the Group, consolidation adjustments are required.

The new business margin (the ratio of the value of new business to the present value of premium income) is as follows:

	Year ended March 31,2020	Year ended March 31,2021	increase (decrease)
Value of new business (a)	112.6	51.4	(61.2)
Present value of premium income (b)	1,608.9	1,287.2	(321.6)
New business Margin (a) ÷ (b)	7.0 %	4.0 %	(3.0) points

(2) Medicare Life

(billions of yen)

	March 31, 2020	March 31, 2021	increase (decrease)
EEV	146.6	208.2	61.5
Adjusted net worth	35.2	38.2	2.9
Total net asset on the balance sheet	20.2	24.9	4.7
Retained earnings in liabilities (after tax)	1.6	2.1	0.5
Unrealized gains (losses) on securities and miscellaneous items (after tax)	13.3	11.0	(2.2)
Unrealized gains (losses) on loans (after tax)	-	-	-
Unrealized gains (losses) on real estate (after tax)	-	-	-
Unrealized gains (losses) on liabilities (after tax)	-		
Unfunded retirement benefit obligation (after tax)	-	-	•
Value of in-force business	111.3	169.9	58.6
Certainty equivalent present value of future profits	155.3	224.6	69.2
Time value of financial options and guarantees	(0.1)	(0.1)	(0.0)
Cost of holding required capital	(0.8)	(1.2)	(0.4)
Cost of non-hedgeable risks	(43.0)	(53.2)	(10.1)

(billions of yen)

	Year ended March 31,2020	Year ended March 31,2021	increase (decrease)
Value of new business	5.3	21.8	16.5
Certainty equivalent present value of future profits	9.1	37.5	28.4
Time value of financial options and guarantees	-	-	-
Cost of holding required capital	(0.0)	(0.2)	(0.2)
Cost of non-hedgeable risks	(3.7)	(15.4)	(11.6)

The new business margin (the ratio of the value of new business to the present value of premium income) is as follows:

	Year ended March 31,2020	Year ended March 31,2021	increase (decrease)
Value of new business (a)	5.3	21.8	16.5
Present value of premium income (b)	87.1	293.8	206.7
New business Margin (a) ÷ (b)	6.1 %	7.4 %	1.3 points

(3) Symetra

(billions of yen)

	December 31, 2019	December 31, 2020	increase (decrease)
EEV	246.4	184.9	(61.4)
Adjusted net worth	226.3	197.9	(28.4)
Total net asset on the balance sheet (Note)	189.5	159.4	(30.1)
Retained earnings in liabilities (after tax)	40.1	41.9	1.7
Adjustment for deferred tax assets and miscellaneous items	(3.3)	(3.4)	(0.1)
Value of in-force business	20.0	(12.9)	(33.0)
Present value of future profits	78.5	37.1	(41.4)
Time value of financial options and guarantees	(14.6)	(12.1)	2.5
Cost of capital	(43.8)	(38.0)	5.8

(billions of yen)

	Year ended December 31,2019	Year ended December 31,2020	increase (decrease)
Value of new business	(4.0)	(5.6)	(1.5)
Present value of future profits	5.1	0.4	(4.6)
Time value of financial options and guarantees	(2.2)	(0.6)	1.5
Cost of capital	(6.9)	(5.4)	1.5

⁽Note) The sum of net assets based on statutory capital and surplus, value of non-life entities and holding company's equity.

The new business margin (the ratio of the value of new business to the present value of premium income) is as follows:

	Year ended December 31,2019	Year ended December 31,2020	increase (decrease)
Value of new business (a)	(4.0)	(5.6)	(1.5)
Present value of premium income (b)	581.6	534.7	(46.9)
New business Margin (a) ÷ (b)	(0.7)%	(1.0)%	(0.4) points

(Reference) Symetra's EEV in US Dollar

(millions of USD)

		(millions of OSD)
	December 31,	December 31,	increase
	2019	2020	(decrease)
EEV	2,249	1,786	(462)
Adjusted net worth	2,066	1,912	(153)
Total net asset on the balance sheet	1,730	1,540	(189)
Retained earnings in liabilities (after tax)	366	405	38
Adjustment for deferred tax assets and miscellaneous items	(30)	(33)	(2)
Value of in-force business	182	(125)	(308)
Present value of future profits	717	358	(358)
Time value of financial options and guarantees	(133)	(116)	16
Cost of capital	(400)	(367)	32

(millions of USD)

	Year ended December 31,2019	Year ended December 31,2020	increase (decrease)
Value of new business	(36)	(54)	(17)
Present value of future profits	47	4	(42)
Time value of financial options and guarantees	(20)	(6)	13
Cost of capital	(63)	(52)	11

2. Statement of changes in EEV

a. Statement of changes in EEV of the Group

(billions of yen)

		`	Dilliono or you
	Adjusted net worth	Value of inforce business	EEV
Values as of March 31, 2020	4,005.4	(421.3)	3,584.1
Adjustments to the values as of March 31,2020 (Note)	(11.0)	(1.7)	(12.8)
Adjusted values as of March 31, 2020	3,994.3	(423.0)	3,571.3
Value of new business	-	67.6	67.6
Expected existing business contribution (market-consistent approach)	43.8	291.8	335.7
Risk-free rate	(4.7)	19.4	14.7
In excess of risk-free rate	48.5	272.4	321.0
Expected existing business contribution (top-down approach)	(0.7)	13.4	12.7
Expected transfer from VIF to adjusted net worth	55.3	(55.3)	-
on in-force at beginning of year	203.4	(203.4)	-
on new business	(148.0)	148.0	-
Non-economic experience variances	(86.6)	14.5	(72.1)
Non-economic assumptions changes	-	(87.4)	(87.4)
Economic variances	237.9	423.4	661.3
Values as of March 31, 2021	4,244.1	245.0	4,489.2

(Note) This item represents the effects of the foreign exchange variance due to yen conversion of Symetra's EEV and the sale of Symetra's subsidiary.

b. Statement of changes in EEV by company

(1) Sumitomo Life

(billions of yen)

			Dillions of yen
	Adjusted net worth	Value of inforce	EEV
		business	
Values as of March 31, 2020	4,295.1	(552.7)	3,742.4
Value of new business	-	51.4	51.4
Expected existing business contribution (market-consistent approach)	43.7	288.5	332.2
Risk-free rate	(4.6)	17.7	13.0
In excess of risk-free rate	48.3	270.8	319.2
Expected transfer from VIF to adjusted net worth	75.6	(75.6)	-
on in-force at beginning of year	193.7	(193.7)	-
on new business	(118.1)	118.1	-
Non-economic experience variances	(77.3)	8.8	(68.5)
Non-economic assumptions changes	-	(68.8)	(68.8)
Economic variances	237.3	436.4	673.7
Values as of March 31, 2021	4,574.5	88.0	4,662.5

(2) Medicare Life

	Adjusted net worth	Value of inforce business	EEV
Values as of March 31, 2020	35.2	111.3	146.6
Value of new business	1	21.8	21.8
Expected existing business contribution (market-consistent approach)	0.1	3.3	3.4
Risk-free rate	(0.0)	1.7	1.7
In excess of risk-free rate	0.2	1.5	1.7
Expected transfer from VIF to adjusted net worth	(16.6)	16.6	-
on in-force at beginning of year	1.2	(1.2)	-
on new business	(17.8)	17.8	-
Non-economic experience variances	1.4	(0.0)	1.4
Non-economic assumptions changes	-	4.4	4.4
Economic variances	(2.0)	12.3	10.3
Capital injection by Sumitomo Life (Note)	20.0	-	20.0
Values as of March 31, 2021	38.2	169.9	208.2

⁽Note) During the year ended March 31, 2021, Medicare Life received ¥20.0 billion as additional capital from Sumitomo Life. The capital injection represents an intragroup transaction, thus has no impact on the Group EEV.

(3) Symetra

		(billions of yen)
	Adjusted net worth	Value of inforce business	EEV
Values as of December 31, 2019	226.3	20.0	246.4
Adjustments to the values as of December 31, 2019	(15.9)	(1.7)	(17.6)
for shareholder dividends (Note)	(4.8)	-	(4.8)
of the sale of of Symetra's subsidiary	1.2	(0.6)	0.6
of the foreign exchange variance	(12.3)	(1.1)	(13.4)
Adjusted values as of December 31, 2019	210.4	18.3	228.7
Value of new business	-	(5.6)	(5.6)
Expected existing business contribution (top-down approach)	(0.7)	13.4	12.7
Expected transfer from VIF to adjusted net worth	(3.5)	3.5	-
on in-force as of December 31, 2019	8.4	(8.4)	-
on new business	(12.0)	12.0	-
Non-economic experience variances	(10.8)	5.7	(5.0)
Non-economic assumptions changes	-	(23.0)	(23.0)
Economic variances	2.6	(25.4)	(22.8)
Values as of December 31, 2020	197.9	(12.9)	184.9

⁽Note) This item represents an adjustment for shareholder dividends Symetra paid to Sumitomo Life on March 2020.

3. Sensitivity Analysis

a. Sensitivity Analysis of EEV of the Group and the Group's value of new business

(1) Sensitivity analysis of EEV of the Group

(billions of yen)

		EEV	increase (decrease)
EEV as of Mai	rch 31, 2021	4,489.2	-
Sensitivity 1:	50bp upward parallel shift in risk-free yield curve	4,731.4	242.2
Sensitivity 2:	50bp downward parallel shift in risk-free yield curve	4,204.0	(285.1)
Sensitivity 3:	10% decline in equity and real estate values	4,248.8	(240.3)
Sensitivity 4:	10% decline in maintenance expenses	4,612.4	123.2
Sensitivity 5:	10% decline in surrender and lapse rate	4,609.4	120.2
Sensitivity 6:	5% decline in mortality and morbidity rates for life insurance products	4,738.1	248.9
Sensitivity 7:	5% decline in mortality and morbidity rates for annuities	4,481.2	(7.9)
Sensitivity 8:	Setting required capital at statutory minimum level	4,570.8	81.5
Sensitivity 9:	25% increase in implied volatilities of equity and real estate values	4,488.5	(0.6)
Sensitivity 10:	25% increase in implied volatilities of swaptions	4,456.6	(32.5)

The following table shows the effect of sensitivities 1 through 3 and 8 on adjusted net worth. Only the value of in-force business is affected in sensitivities 4 through 7, 9 and 10 in the above table.

		increase
		(decrease)
Sensitivity 1:	50bp upward parallel shift in risk-free yield	(1,071.1)
Conomiting 1:	curve	(1,07 111)
Sensitivity 2:	50bp downward parallel shift in risk-free	649.8
Sensitivity 2.	yield curve	049.0
Consitivity 2:	10% decline in equity and real estate	(226.6)
Sensitivity 3:	values	(236.6)
Sensitivity 8:	Setting required capital at statutory	4.2
Sensitivity 6.	minimum level	4.2

(2) Sensitivity analysis of the Group's value of new business

		Value of	increase
		new business	(decrease)
Value of new b March 31,2021	usiness for the fiscal year ended	67.6	-
Sensitivity 1:	50bp upward parallel shift in risk-free yield curve	86.8	19.1
Sensitivity 2:	50bp downward parallel shift in risk-free yield curve	49.3	(18.3)
Sensitivity 3:	10% decline in equity and real estate values	67.6	(0.0)
Sensitivity 4:	10% decline in maintenance expenses	74.5	6.9
Sensitivity 5:	10% decline in surrender and lapse rate	76.5	8.9
Sensitivity 6:	5% decline in mortality and morbidity rates for life insurance products	81.3	13.6
Sensitivity 7:	5% decline in mortality and morbidity rates for annuities	67.6	(0.0)
Sensitivity 8:	Setting required capital at statutory minimum level	73.0	5.4
Sensitivity 9:	25% increase in implied volatilities of equity and real estate values	67.6	(0.0)
Sensitivity 10:	25% increase in implied volatilities of swaptions	67.1	(0.4)

b. Sensitivity Analysis by company

(1) Sumitomo Life

i . Sensitivity Analysis of EEV

(billions of yen)

		EEV	increase
			(decrease)
EEV as of Mai	rch 31, 2021	4,662.5	-
Sensitivity 1:	50bp upward parallel shift in risk-free yield curve	4,881.1	218.6
Sensitivity 2:	50bp downward parallel shift in risk-free yield curve	4,421.3	(241.2)
Sensitivity 3:	10% decline in equity and real estate values	4,424.0	(238.5)
Sensitivity 4:	10% decline in maintenance expenses	4,765.0	102.5
Sensitivity 5:	10% decline in surrender and lapse rate	4,781.6	119.1
Sensitivity 6:	5% decline in mortality and morbidity rates for life insurance products	4,884.0	221.5
Sensitivity 7:	5% decline in mortality and morbidity rates for annuities	4,655.1	(7.4)
Sensitivity 8:	Setting required capital at statutory minimum level	4,711.7	49.2
Sensitivity 9:	25% increase in implied volatilities of equity and real estate values	4,661.9	(0.6)
Sensitivity 10:	25% increase in implied volatilities of swaptions	4,630.1	(32.4)

The following table shows the effect of sensitivities 1 through 3 on adjusted net worth.

Only the value of in-force business is affected in sensitivities 4 through 10 in the above table.

		increase
		(decrease)
Sensitivity 1:	50bp upward parallel shift in risk-free yield	(1,064.3)
Ocholdvity 1.	curve	(1,004.0)
Sensitivity 2:	50bp downward parallel shift in risk-free	647.6
Ochsitivity 2.	yield curve	0-7.0
Sensitivity 3:	10% decline in equity and real estate	(236.6)
Sensitivity 5.	values	(230.0)

ii . Sensitivity analysis of the value of new business

		Value of	increase
		new business	(decrease)
Value of new b March 31,2021	usiness for the fiscal year ended	51.4	-
Sensitivity 1:	50bp upward parallel shift in risk-free yield curve	69.5	18.1
Sensitivity 2:	50bp downward parallel shift in risk-free yield curve	35.7	(15.7)
Sensitivity 3:	10% decline in equity and real estate values	51.4	1
Sensitivity 4:	10% decline in maintenance expenses	54.8	3.3
Sensitivity 5:	10% decline in surrender and lapse rate	59.2	7.8
Sensitivity 6:	5% decline in mortality and morbidity rates for life insurance products	57.8	6.4
Sensitivity 7:	5% decline in mortality and morbidity rates for annuities	51.4	0.0
Sensitivity 8:	Setting required capital at statutory minimum level	52.8	1.4
Sensitivity 9:	25% increase in implied volatilities of equity and real estate values	51.4	(0.0)
Sensitivity 10:	25% increase in implied volatilities of swaptions	50.9	(0.4)

(2) Medicare Life

i . Sensitivity Analysis of EEV

(billions of yen)

		EEV	increase (decrease)
EEV as of Mar	rch 31, 2021	208.2	-
Sensitivity 1:	50bp upward parallel shift in risk-free yield curve	212.5	4.3
Sensitivity 2:	50bp downward parallel shift in risk-free yield curve	197.1	(11.0)
Sensitivity 3:	10% decline in equity and real estate values	208.2	-
Sensitivity 4:	10% decline in maintenance expenses	214.4	6.2
Sensitivity 5:	10% decline in surrender and lapse rate	204.5	(3.7)
Sensitivity 6:	5% decline in mortality and morbidity rates for life insurance products	223.9	15.7
Sensitivity 7:	5% decline in mortality and morbidity rates for annuities	208.2	-
Sensitivity 8:	Setting required capital at statutory minimum level	208.9	0.7
Sensitivity 9:	25% increase in implied volatilities of equity and real estate values	208.2	-
Sensitivity 10:	25% increase in implied volatilities of swaptions	208.1	(0.0)

The following table shows the effect of sensitivities 1 through 3 on adjusted net worth.

Only the value of in-force business is affected in sensitivities 4 through 10 in the above table.

		(Dillions of year)
		increase
		(decrease)
Sensitivity 1:	50bp upward parallel shift in risk-free yield	(10.2)
Sensitivity 1.	curve	(10.2)
Concitivity 2:	50bp downward parallel shift in risk-free	5.6
Sensitivity 2:	yield curve	5.6
Concitivity 2:	10% decline in equity and real estate	
Sensitivity 3:	values	_

ii . Sensitivity analysis of the value of new business

		(Dillions of Yell)
	Value of	increase
	new business	(decrease)
usiness for the fiscal year ended	21.0	_
	21.0	_
50bp upward parallel shift in risk-free yield	23.0	1.2
curve	23.0	1.2
50bp downward parallel shift in risk-free	10.0	(2.0)
yield curve	10.9	(2.9)
10% decline in equity and real estate	24.0	
values	21.8	-
10% decline in maintenance expenses	23.6	1.7
10% decline in surrender and lapse rate	21.4	(0.4)
5% decline in mortality and morbidity	00.0	4.0
rates for life insurance products	20.8	4.9
5% decline in mortality and morbidity	24.0	
rates for annuities	21.0	-
Setting required capital at statutory	22.0	0.1
minimum level	22.0	0.1
25% increase in implied volatilities of	24.0	
equity and real estate values	21.8	-
25% increase in implied volatilities of	21.0	
swaptions	21.0	-
	50bp upward parallel shift in risk-free yield curve 50bp downward parallel shift in risk-free yield curve 10% decline in equity and real estate values 10% decline in maintenance expenses 10% decline in surrender and lapse rate 5% decline in mortality and morbidity rates for life insurance products 5% decline in mortality and morbidity rates for annuities Setting required capital at statutory minimum level 25% increase in implied volatilities of equity and real estate values 25% increase in implied volatilities of	usiness for the fiscal year ended 21.8 50bp upward parallel shift in risk-free yield curve 50bp downward parallel shift in risk-free yield curve 10% decline in equity and real estate values 10% decline in maintenance expenses 23.6 10% decline in surrender and lapse rate 21.4 5% decline in mortality and morbidity rates for life insurance products 5% decline in mortality and morbidity rates for annuities Setting required capital at statutory minimum level 25% increase in implied volatilities of equity and real estate values 21.8

(3) Symetra

i . Sensitivity Analysis of EEV

(billions of yen)

		EEV	increase (decrease)
EEV as of Dec	ember 31, 2020	184.9	-
Sensitivity 1:	50bp upward parallel shift in risk-free yield curve	204.1	19.2
Sensitivity 2:	50bp downward parallel shift in risk-free yield curve	152.0	(32.9)
Sensitivity 3:	10% decline in equity and real estate values	183.1	(1.8)
Sensitivity 4:	10% decline in maintenance expenses	199.4	14.4
Sensitivity 5:	10% decline in surrender and lapse rate	189.7	4.8
Sensitivity 6:	5% decline in mortality and morbidity rates for life insurance products	196.5	11.6
Sensitivity 7:	5% decline in mortality and morbidity rates for annuities	184.3	(0.5)
Sensitivity 8:	Setting required capital at statutory minimum level	216.5	31.6
Sensitivity 9:	1% increase in equity and real estate yield	188.5	3.6
Sensitivity 10:	50bp upward shift in risk discount rate	178.5	(6.4)
Sensitivity 11:	50bp downward shift in risk discount rate	191.6	6.6

The following table shows the effect on the adjusted net worth of sensitivities 1, 2 and 8. Only the value of in-force business is affected in sensitivities 3 through 7 and 9 through 11 in the above table.

		increase
		(decrease)
Conditivity 1:	50bp upward parallel shift in risk-free yield	3.4
Sensitivity 1:	curve	3.4
Sensitivity 2:	50bp downward parallel shift in risk-free	(3.5)
Sensitivity 2.	yield curve	(3.5)
Concitivity 0:	Setting required capital at statutory	4.2
Sensitivity 8:	minimum level	4.2

ii . Sensitivity analysis of the value of new business

(billions of yen)

			· · · · ·
		Value of	increase
		new business	(decrease)
Value of new b	usiness for the year ended	(5.0)	
December 31,2	2020	(5.6)	-
	50bp upward parallel shift in risk-free yield	<i>(</i>)	<i>(-</i> .)
Sensitivity 1:	curve	(5.7)	(0.1)
Compitinity O	50bp downward parallel shift in risk-free	(5.0)	0.0
Sensitivity 2:	yield curve	(5.3)	0.2
Sonoitivity 3:	10% decline in equity and real estate	(5.6)	(0.0)
Sensitivity 3:	values	(5.6)	(0.0)
Sensitivity 4:	10% decline in maintenance expenses	(3.8)	1.7
Sensitivity 5:	10% decline in surrender and lapse rate	(4.1)	1.4
Consitivity C	5% decline in mortality and morbidity rates	(2.2)	2.2
Sensitivity 6:	for life insurance products	(3.3)	2.2
Concitivity 7:	5% decline in mortality and morbidity rates	(F. 6)	(0.0)
Sensitivity 7:	for annuities	(5.6)	(0.0)
Concitivity 0:	Setting required capital at statutory	(1.7)	3.8
Sensitivity 8:	minimum level	(1.7)	3.0
Sensitivity 9:	1% increase in equity and real estate yield	(5.6)	(0.0)
Sensitivity 10:	50bp upward shift in risk discount rate	(7.6)	(2.0)
Sensitivity 11:	50bp downward shift in risk discount rate	(3.3)	2.2

For the business valued using a top-down approach, sensitivity 1 and 2 are calculated based on simultaneous upward/downward parallel shift of 50bp in both the investment yields of the future reinvestment and the risk discount rate.

Sensitivity 10 and 11 represent the effect on EEV of an upward/downward shift of 50bp of the risk discount rate for a top-down approach.

4. Note

The calculation of EEV requires numerous assumptions regarding future projections that are subject to risks and uncertainties. Future results may differ from those assumptions used in the calculation of EEV.

Appendix A: Principal EEV Assumptions (Sumitomo Life and Medicare Life)

1. Economic assumptions

a. Risk-free rate

In the certainty equivalent calculation and the interest rate model calibration, the Japanese, U.S. and Australian Government Bond are used as proxies for risk-free rates.

As the term of life insurance policies is generally longer than financial instruments in the market, the ultra-long term rate data which is not available in the market should be set. Because of low liquidity of long-term Japanese, U.S. and Australian Government Bond in the market, we extrapolated the risk-free rates.

In the extrapolation method using an ultimate forward rate, interest rate for ultra-long term, which is not available in the market, converges to an ultimate forward rate which is future forward rate based on macro-economic analysis. The extrapolation method using an ultimate forward rate is used in the Insurance Capital Standard (ICS) being developed by the International Association of Insurance Supervisors, and is also permitted in the MCEV Principles and used in EU Solvency II.

For risk-free rates (forward rates) of each currency, the ultimate forward rate, last point of liquidity and convergence point are set as below in consideration of the ICS Version 2.0, etc. We extrapolate the yield curve to the ultimate forward rate by using the Smith-Wilson method.

	JPY		US	SD	AUD	
	March 31, 2020	March 31, 2021	March 31, 2020	March 31, 2021	March 31, 2020	March 31, 2021
ultimate forward rate	3.5%	3.8%	3.5%	3.8%	4.0%	3.8%
last point of liquidity	30 years					
convergence point	60 years					

The table below shows, for selected terms, the risk-free rates (spot rates) which are used in the calculations.

	JPY		US	SD	AUD		
Term	March 31, 2020	March 31, 2021	March 31, 2020	March 31, 2021	March 31, 2020	March 31, 2021	
1 year	(0.150)%	(0.129)%	0.162%	0.062%	0.197%	0.056%	
2 year	(0.130)%	(0.130)%	0.237%	0.157%	0.247%	0.078%	
3 year	(0.148)%	(0.136)%	0.286%	0.361%	0.265%	0.107%	
4 year	(0.119)%	(0.118)%	0.333%	0.658%	0.337%	0.491%	
5 year	(0.115)%	(0.083)%	0.391%	0.940%	0.424%	0.787%	
10 year	0.032%	0.105%	0.699%	1.776%	0.778%	1.832%	
15 year	0.286%	0.314%	0.907%	2.120%	1.191%	2.367%	
20 year	0.319%	0.496%	1.197%	2.404%	1.613%	2.707%	
25 year	0.405%	0.610%	1.349%	2.491%	1.773%	2.835%	
30 year	0.427%	0.697%	1.420%	2.489%	1.807%	2.871%	
35 year	0.603%	0.898%	1.557%	2.548%	1.932%	2.926%	
40 year	0.878%	1.179%	1.741%	2.656%	2.125%	3.003%	
45 year	1.138%	1.440%	1.914%	2.764%	2.309%	3.078%	
50 year	1.362%	1.664%	2.064%	2.860%	2.468%	3.144%	

(Source: Ministry of Finance(JPY) and bloomberg(the others) (after interpolation/extrapolation))

b. Principal dynamic assumption

(1) Interest rate model

As an interest rate model, Sumitomo Life has adopted a SABR LIBOR Market model (Note), in which interest rates associated with Japanese yen, U.S. dollars, Euros, British pounds and Australian dollars are calculated. The model has been adjusted to be in line with a risk-neutral approach in which Japanese yen is set as a base currency, and correlations between the interest rates have also been taken into account. The interest rate model has been calibrated to be consistent with the market environment as of each reporting date, and parameters used are estimated from the yield curve and implied volatilities of interest rate swaptions with various maturities. 5,000 scenarios are used in calculating the time value of financial options and guarantees through the stochastic method.

A summary of implied volatilities of interest rate swaptions used to calibrate the scenarios is as follows:

Interest rate swaptions

(bp)

		March 31,2020					March 31,2020 March 31,2021				
Option Term	Swap Term	JPY	USD	EUR	GBP	AUD	JPY	USD	EUR	GBP	AUD
5 year	10 year	23.5	64.7	59.3	61.5	48.3	22.3	75.5	56.6	61.4	67.0
7 year	10 year	24.6	63.1	58.9	61.2	46.2	24.1	71.3	56.7	60.0	61.3
10 year	10 year	26.6	59.7	58.8	60.5	42.4	26.9	64.7	56.5	57.5	52.2
15 year	10 year	28.1	56.1	56.7	59.0	-	28.0	58.5	54.6	56.1	-
20 year	10 year	29.5	52.2	54.7	56.5	-	29.3	54.9	52.7	54.4	-

(Source: Bloomberg (adjusted))

(Note) The interest rate model used to calculate EEV and VNB has been changed from a single-factor Hull-White model to a SABR LIBOR Market model from March 31, 2021.

(2) Implied volatilities of equities and currencies

Volatilities of major equity indices and currencies are calibrated based on implied volatilities of options traded in the market. Implied volatilities used to calibrate the scenarios are as follows:

Stock options

	Underlying	Option	Volatility		
Currency	Assset	Term	March 31,	March 31,	
			2020	2021	
JPY	Nikkei225	3 year	21.5%	19.8%	
		4 year	20.9%	19.8%	
		5 year	20.6%	19.8%	
USD	S&P 500	3 year	23.2%	19.8%	
		4 year	22.9%	20.4%	
		5 year	23.1%	20.8%	
EUR	Euro	3 year	21.9%	17.6%	
	Stoxx50	4 year	21.2%	17.7%	
		5 year	21.0%	17.8%	
GBP	FTSE 100	3 year	20.6%	16.8%	
		4 year	19.8%	16.8%	
		5 year	19.1%	16.9%	

(Source: Markit (after interpolation/extrapolation))

Currency options

Currency	Option	Volatility				
	Term	March 31,	March 31,			
		2020	2021			
USD	5 year	7.9%	7.3%			
EUR	5 year	8.2%	8.0%			
GBP	5 year	12.0%	9.8%			
AUD	5 year	13.9%	11.4%			

 $({\tt Source:Bloomberg})$

(3) Correlations

In addition to the implied volatilities described above, each company has calculated implied volatilities reflecting its asset portfolio and correlation factors. The share of each asset is assumed to be unchanged over the projection periods.

With regard to correlation factors, market-consistent data from exotic options with sufficient liquidity have not been observed in the market. Therefore, Sumitomo Life estimated correlation factors based on historical market data. Specifically, the monthly data from March 31, 2011 to March 31, 2021 have been used. The following table shows correlation factors between major variables.

	1year Rate /JPY	1year Rate /USD	1year Rate /EUR	1year Rate /GBP	1year Rate /AUD	USD/JPY	EUR/JPY	GBP/JPY	AUD/JPY	NIKKEI 225	S&P500	EuroStoxx 50	FTSE100
1year Rate /JPY	1.00	0.48	0.57	0.45	0.29	0.41	0.38	0.42	0.25	0.37	0.15	0.18	0.03
1year Rate /USD	0.48	1.00	0.61	0.73	0.53	0.47	0.42	0.51	0.34	0.46	0.35	0.34	0.23
1year Rate /EUR	0.57	0.61	1.00	0.75	0.46	0.26	0.55	0.41	0.33	0.32	0.23	0.26	0.16
1year Rate /GBP	0.45	0.73	0.75	1.00	0.57	0.30	0.48	0.51	0.32	0.39	0.25	0.26	0.07
1year Rate /AUD	0.29	0.53	0.46	0.57	1.00	0.33	0.49	0.44	0.60	0.42	0.34	0.36	0.28
USD/JPY	0.41	0.47	0.26	0.30	0.33	1.00	0.67	0.71	0.48	0.60	0.23	0.34	0.18
EUR/JPY	0.38	0.42	0.55	0.48	0.49	0.67	1.00	0.81	0.71	0.61	0.44	0.40	0.31
GBP/JPY	0.42	0.51	0.41	0.51	0.44	0.71	0.81	1.00	0.67	0.70	0.50	0.49	0.23
AUD/JPY	0.25	0.34	0.33	0.32	0.60	0.48	0.71	0.67	1.00	0.68	0.69	0.58	0.55
NIKKEI 225	0.37	0.46	0.32	0.39	0.42	0.60	0.61	0.70	0.68	1.00	0.70	0.72	0.58
S&P500	0.15	0.35	0.23	0.25	0.34	0.23	0.44	0.50	0.69	0.70	1.00	0.77	0.75
EuroStoxx 50	0.18	0.34	0.26	0.26	0.36	0.34	0.40	0.49	0.58	0.72	0.77	1.00	0.81
FTSE100	0.03	0.23	0.16	0.07	0.28	0.18	0.31	0.23	0.55	0.58	0.75	0.81	1.00

(Source: Ministry of Finance (1year Rate/JPY) and bloomberg(the others))

c. Assumed investment yield used for the calculation of expected returns

Assumed investment yields on major asset categories used for the calculation of "Expected existing business contribution (the sum of risk-free rate and excess of risk-free rate)" in "2. Statement of changes in EEV" are as follows. The Weighted-average assumed investment yield (annual rate) is based on the asset portfolio at the beginning of the year. The yield for Sumitomo Life is 1.4% and, for Medicare Life, is 0.9%.

	Assumed investment yield (annual rate)
Fixed income assets (excl. Super long-term bonds)	0.5%
Super long-term bonds(Note)	1.3%
Foreign bonds (excl. Currency-hedged foreign bonds)	2.7%
Currency-hedged foreign bonds	1.1%
Domestic stocks	5.8%
Foreign stocks	6.6%

(Note) Bonds with a maturity of more than 10 years

2. Non-economic assumptions

All cash flows (premiums, operating expenses, benefits and claims, cash surrender value, tax, etc.) are projected applying the best estimate assumptions, by product, referring to past, current and expected future experience.

a. Operating expenses

Operating expenses are set based on the experience of each company. The look-through basis is applied in terms of operating expenses of insurance business.

Future inflation rates are assumed to be zero.

b. Policyholder dividends

(1) Sumitomo Life

Policyholder dividend rates are based on the current dividend policy, and set according to market-consistent, risk-neutral scenarios.

(2) Medicare Life

No assumption of policyholder dividend rate is set, as it sells only non-participating policies.

c. Effective tax rate

In the projection of future profits, effective tax rate is set at the following rates, based on the recent corporate tax rates.

Sumitomo Life: 27.96% Medicare Life: 28.00%

Appendix B: Principal EEV Assumptions (Symetra)

1. Economic Assumptions and Risk Discount Rate

a. Economic assumptions

Investment cash flows for the top-down approach are based on current and expected asset allocations and the economic environment on the reporting date. Key economic assumptions include the level of government bond rates, credit spreads, default rates and investment expenses. Government bond rates and credit spreads were set equal to the levels of the reporting date.

Existing yields are as follows:

	Current yield (%)				
	December 31,2019	December 31,2020			
Corporate Bonds	3.66%	3.50%			
Grand Total	3.83%	3.45%			

(Note) Statutory basis, before default, excluding investment costs

Reinvestment yields vary by liability group, in accordance with the characteristics of the liabilities and actual practice, and are determined based on the current and expected future reinvestment strategy.

Reinvestment rates by main liability group are as follows:

	Reinvestment rates (Note3,4)					
Main Products	1/GIIIVG3IIIIGIII	. Tales (Notes,4)				
	December 31,2019	December 31,2020				
Life	3.44-3.93%	2.31-3.07%				
Annuities (Note1)	3.00-3.57%	1.59-2.64%				
Benefits	3.13%	1.86%				
VA (Note2)	7.50%	7.50%				

(Note1) VA is not included

(Note2) Separate account

(Note3) Before default, excluding investment costs

(Note4) Rates vary by product type

Default rates, which apply to existing assets and reinvestments, are determined by asset type and rating, where applicable, based on historical studies.

Expected default cost net of recovery are as follows:

	Default cost (bp)				
	December 31,2019	December 31,2020			
Existing Assets					
AAA-A	7	7			
BBB	16	15			
Reinvestment Assets					
AAA-A	10	11			
BBB	17	17			

b. Risk discount rates

Risk discount rates are set using a weighted average cost of capital approach (WACC) taking into account the cost of equity and cost of debt.

Risk discount rates are as follows:

	In-force business					
	December 31,2019	December 31,2020				
Risk discount rate	6.00%	4.75%				
Risk-free rate (Note)	1.92%	0.93%				
Risk margin	4.08%	3.82%				

	New business						
	Six months ended June 30, 2019	Six months ended December 31, 2019	Six months ended June 30, 2020	Six months ended December 31, 2020			
Risk discount rate	6.25%	6.00%	4.75%	4.75%			
Risk-free rate (Note)	2.00%	1.92%	0.66%	0.93%			
Risk margin	4.25%	4.08%	4.09%	3.82%			

(Note)10 year U.S. government bond yield

2. Non-economic assumptions

All cash flows (premium, operating expense, benefits and claims, cash surrender value, tax, etc.) are projected each insurance, applying the best estimate assumptions into the future, by product, referring to past, current and expected future experience.

For interest sensitive business, future credited rates are based on current credited rate setting methods and are consistent with the projected economic assumptions. Dynamic policyholder behavior is applied where appropriate.

The future inflation rate is assumed to be 2.15% p.a.

The tax rate applied to the projected taxable income is 21.00%.

3. Exchange rate

The EEV of Symetra is calculated in local currency and converted into JPY using the following rate:

	December 31,2019	December 31,2020
USD1.00	JPY109.56	JPY103.50