

# Fourth-Quarter 2023 Performance and Risk Monitoring Report

For CPFIS-Included Unit Trusts and Investment-Linked Insurance Products



January 2024

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## 1. Introduction

Morningstar has been appointed by the Investment Management Association of Singapore and the Life Insurance Association of Singapore to monitor the performance of all unit trusts and investment-linked insurance products included under the Central Provident Fund Investment Scheme. This report shows Morningstar's findings for the three months ended Dec. 31, 2023.

For more detailed data, please visit <https://www.fundsingapore.com>

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## 2. Update on CPFIS-Included Funds

### Exhibit 1 Number of CPFIS-Included Funds

	As of End of 4Q 2023	As of End of 3Q 2023
<b>Unit Trust</b>	91	91
<b>ILP</b>	137	137
<b>Total</b>	228	228

Source: Morningstar.

## 3. Market Developments in Fourth-Quarter 2023

### Equity Markets

The U.S. stock market finished 2023 on a high note, as the rally in stocks broadened and long-term interest rates pulled back after signs that the Federal Reserve was finished raising interest rates. After a tough third quarter, most of the major markets climbed higher, except Hong Kong, China, and Thailand.

The poorest performer was China's SSE Composite PR CNY, which fell 4.36% over the quarter. Hong Kong's Hang Seng Index has a performance in line with the onshore market with a 4.28% decline over the same period. Chinese stock markets have yet to shrug off the prolonged weakness due to a staggering set of reasons. Disappointing economic rebound, sapped consumer and investor sentiment, and the returning troubles of the property market continue to contribute to an underperformance. As a result, these negative sentiment and events place the Hong Kong stock index at the bottom of the performance chart for six months, nine months, and a three-year period. The market slumped 14.45% each year in the past three years, while onshore stocks posted an annualized loss of 5.03%. Thailand's SET Index ended the month 3.86% lower, concluding the year with a 15.15% loss. Over the past three years, the return from the country was flat.

Turning to the winners, Brazil's Bovespa Index stood out in the fourth quarter as the market advanced 15.12%, driving its full-year return of 22.28%. Another winning market is the U.S. with growth stocks leading the board. In November, long-term interest rates subsided. The rally sustained and brought the indexes higher following the December Fed meeting. The bullish sentiment in the market reflects an interpretation that Federal Reserve Chair Jerome Powell's remarks indicated that not only is the Fed done hiking rates, but it is also now considering when to begin easing monetary policy. Nasdaq Composite returned 13.56% for the quarter and ended the year posting a robust 43.42% growth. Quarterly returns in the S&P 500 and Dow Jones Industrial Average closely followed, also with double digits. In the middle of persistent pressure in its CPI, Japan's Nikkei 225 Average's 28.24% surge was the market's best performance in a decade, and the index closed with its 33-year high.

### Exhibit 2 Major Stock Market Indexes

Name	Price (Dec. 29, 2023)	3m	6m	9m	1Y	3Y (Annualized)
BM&FBOVESPA Ibovespa IBOV TR BRL	134,185.24	15.12	13.63	31.71	22.28	4.08
DJ Industrial Average PR USD	37,689.54	12.48	9.54	13.27	13.70	7.19
Euronext Paris CAC 40 PR EUR	7,543.18	5.72	1.93	3.02	16.52	10.76
FSE DAX TR EUR	16,751.64	8.87	3.74	7.18	20.31	6.88
FTSE 100 PR GBP	7,733.24	1.65	2.68	1.33	3.78	6.18
FTSE Bursa Malaysia KLCI PR MYR	1,454.66	2.14	5.66	2.25	(2.73)	(3.67)
Hang Seng HSI PR HKD	17,047.39	(4.28)	(9.88)	(16.43)	(13.82)	(14.45)
JSX Composite PR IDR	7,272.80	4.80	9.17	6.87	6.16	6.75
KOSPI PR KRW	2,655.28	7.72	3.55	7.20	18.73	(2.60)
NASDAQ Composite PR USD	15,011.35	13.56	8.87	22.82	43.42	5.21

Nikkei 225 Average PR JPY	33,464.17	5.04	0.83	19.34	28.24	6.83
PSE All Share Index PR PHP	3,424.59	0.70	(0.82)	(1.97)	(1.08)	(7.11)
PSEI Index PR PHP	6,450.04	2.04	(0.28)	(0.76)	(1.77)	(3.33)
RTS RTSI PR USD	—	—	—	—	—	—
S&P 500 PR	4,769.83	11.24	7.18	16.07	24.23	8.29
S&P BSE SENSEX India INR	72,240.26	9.74	11.62	22.46	18.74	14.80
S&P/ASX 200 PR	7,590.82	7.69	5.38	5.75	7.84	4.84
SET PR THB	—	(3.86)	(5.88)	(12.01)	(15.15)	(0.78)
SGX Straits Times PR SGD	3,240.27	0.71	1.07	(0.57)	(0.34)	4.45
SIX SMI PR CHF	11,137.79	1.59	(1.26)	0.28	3.81	1.33
SSE Composite PR CNY	2,974.93	(4.36)	(7.09)	(9.10)	(3.70)	(5.03)
TSEC TAIEX PR TWD	17,930.81	9.64	6.00	13.00	26.83	6.77

Source: Morningstar Direct. All return figures are in their respective local currencies.

## Bond Markets

The difficulty in 2022's bond market set investor expectations low coming into 2023. However, despite the biggest story for the markets being the remaining Fed policy, it turns out that bonds performed well given the shift in Fed policy from interest rate-increases to cuts for 2024.

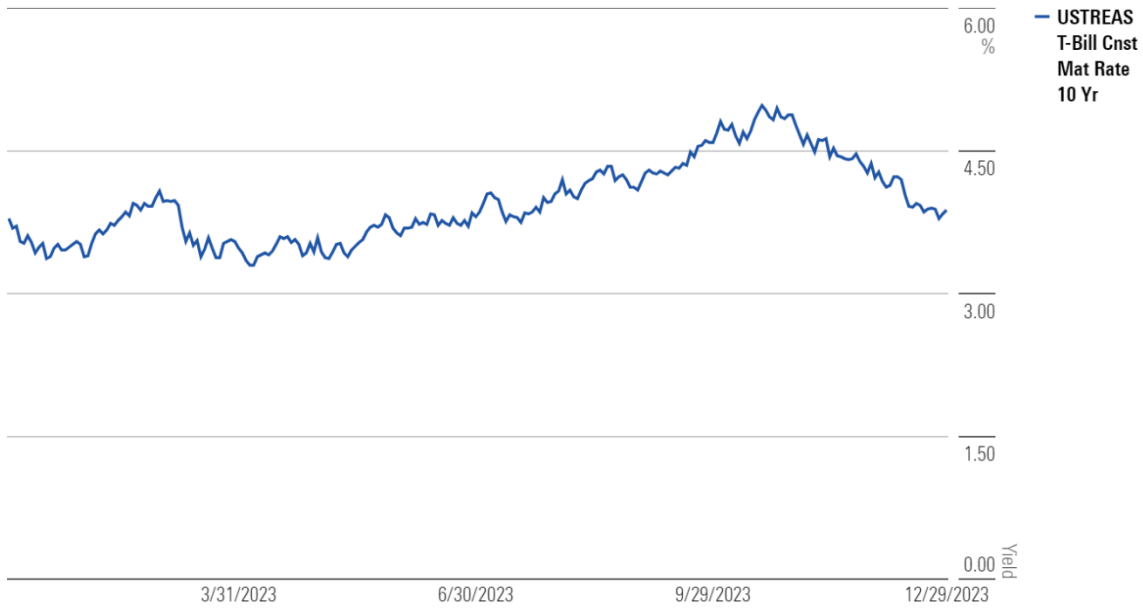
As the year got underway, volatility was very high in bonds, with some parts of the bond market oscillating over the year. The yield on the U.S. Treasury 10-year note started and finished 2023 near 3.8%, but during the year it rose to a 17-year high near 5%.

Yields on two- and 10-year Treasuries moved upward toward mid-October, before the rates steadily decreased. While the curve—the difference between shorter- and longer-term yields—has been inverted for months, the inversion was at its narrowest for the second part of October. At that time, the difference between shorter- and longer-term yields was negative 13 basis points, compared with 106 basis points at the end of June. The inversion was moderately widened to a 35-basis-point level at the end of the quarter.

The FTSE WGBI, which tracks investment-grade sovereign bonds issued by more than 20 countries, rose 4.46% for the quarter (in U.S. dollars) and closed the year with a 3.45% gain.

The Singapore buying rates for 10-year Treasuries started the quarter at 3.4% and hovered around that level through the end of October. Yields then fell to and ended the quarter at 2.71%. The overall trend is similar to that of the U.S. 10-Year Treasury bill.

**Exhibit 3** U.S. Government-Bond Market Movements (Proxied by U.S. 10-Year Treasury Bill Rate)



Source: Morningstar Direct.

**Exhibit 4** Singapore Government-Bond Market Movements (Proxied by Average Buying Rates of Government Securities Dealers 10-Year Bond Yield)



Source: Monetary Authority of Singapore; <https://eservices.mas.gov.sg/statistics/fdanet/BenchmarkPricesAndYields.aspx>.

## The Outlook

As we entered 2023, investors were concerned about inflation and anticipated a recession in the latter half of the year. However, contrary to expectations, inflation cooled down, and the economy remained robust despite the regional banking crisis in the first quarter, which initially raised concerns about a credit crunch.

Although the Federal Reserve increased interest rates four times throughout the year, officials indicated during their December meeting that further rate hikes were unlikely, and there might even be a reduction in rates in the upcoming year.

In 2024, the focus of debates revolves around whether the economy will continue to avoid a recession, if inflation will continue its moderating trajectory, and whether the Fed will cut interest rates to the extent anticipated by investors. Despite heightened risks, we maintain a cautious optimism for both stocks and bonds in the coming year. The key risks faced by investors can be summarized as moderate valuations, a softening economy, weakening fundamentals, and external shocks.

First, the surge in valuations has mainly been concentrated in artificial intelligence stocks, while second-derivative AI stocks have not enjoyed the same level of growth. After some superior gains compared with other major markets, the U.S. market carries certain sectors with high valuations and concentration risks, but there are opportunities to be found in global equities. Additionally, in relation to the economy, if high interest rates persist, they can erode consumer demand, which in turn can have repercussions on corporate earnings and the labor market.

In terms of fundamentals, the U.S. maintains manageable overall corporate leverage, but the costs of debt are increasing. While corporate profitability remains high, it is not immune to vulnerabilities on the margin. Sectors that rely heavily on capital investment are particularly susceptible to the potential risks associated with a sustained rise in debt costs.

Turning to external shocks, geopolitical tensions are running high in regions such as Ukraine, Israel, and China, posing significant risks. An oil market shock has the potential to inflict harm on the global economy. Lastly, a sudden surge in long-term yields could have unintended effects that reverberate throughout various sectors of the economy.

### Exhibit 5 Performance of Worldwide Indexes in Singapore Dollars

	<b>3 Months</b>	<b>6 Months</b>	<b>9 Months</b>	<b>1 Year</b>	<b>3 Year</b>
	<b>10/1/2023</b>	<b>7/1/2023</b>	<b>4/1/2023</b>	<b>1/1/2023</b>	<b>1/1/2021</b>
	<b>12/31/2023</b>	<b>12/31/2023</b>	<b>12/31/2023</b>	<b>12/31/2023</b>	<b>12/31/2023</b>
	<b>Return (Cumulative)</b>	<b>Return (Cumulative)</b>	<b>Return (Cumulative)</b>	<b>Return (Cumulative)</b>	<b>Return (Annualized)</b>
FTSE WGBI USD	4.46	0.85	0.82	3.45	(20.17)
MSCI AC Asia Ex Japan NR USD	2.86	0.27	0.77	4.24	(19.04)
MSCI EM NR USD	4.25	2.06	4.82	8.02	(14.63)
MSCI World NR USD	7.68	4.84	14.00	21.75	23.20
Refinitiv/iEdge SFI TR SGD	4.78	3.12	4.08	5.04	(4.53)
SGX Straits Times PR SGD	0.71	1.07	(0.57)	(0.34)	13.94
SORA Index SGD	0.93	1.86	2.79	3.70	1.80
STOXX Europe 50 PR EUR	5.30	0.89	4.77	14.11	18.66

Source: Morningstar Direct, MAS for SORA Index (<https://eservices.mas.gov.sg/statistics/dir/DomesticInterestRates.aspx>).

## Exhibit 6 Index and Market Representation

The above indexes represent the benchmarks for various major financial markets, as follows:

<b>Index</b>	<b>Market</b>
<b>FTSE WBGI USD</b>	Global bond markets
<b>MSCI AC Asia EX Japan NR USD</b>	Asia ex-Japan equities
<b>MSCI EM NR USD</b>	Emerging market equities
<b>MSCI World NR USD</b>	Global equities
<b>Refinitiv/iEdge SFI TR USD</b>	Singapore bond market
<b>SGX Straits Times PR SGD</b>	Singapore equities
<b>SORA Index SGD</b>	Singapore money markets
<b>STOXX Europe 50 PR EUR</b>	European equities

Source: Morningstar Direct.

The minimum annual interest rate paid by the Central Provident Fund Board for the various accounts is as follows:

- Ordinary: 2.5%
- Special: 4.0%
- Medisave: 4.0%
- Retirement: 4.0%

For more information about CPF interest rates, please visit:

<https://www.cpf.gov.sg/member/growing-your-savings/earning-higher-returns/earning-attractive-interest>



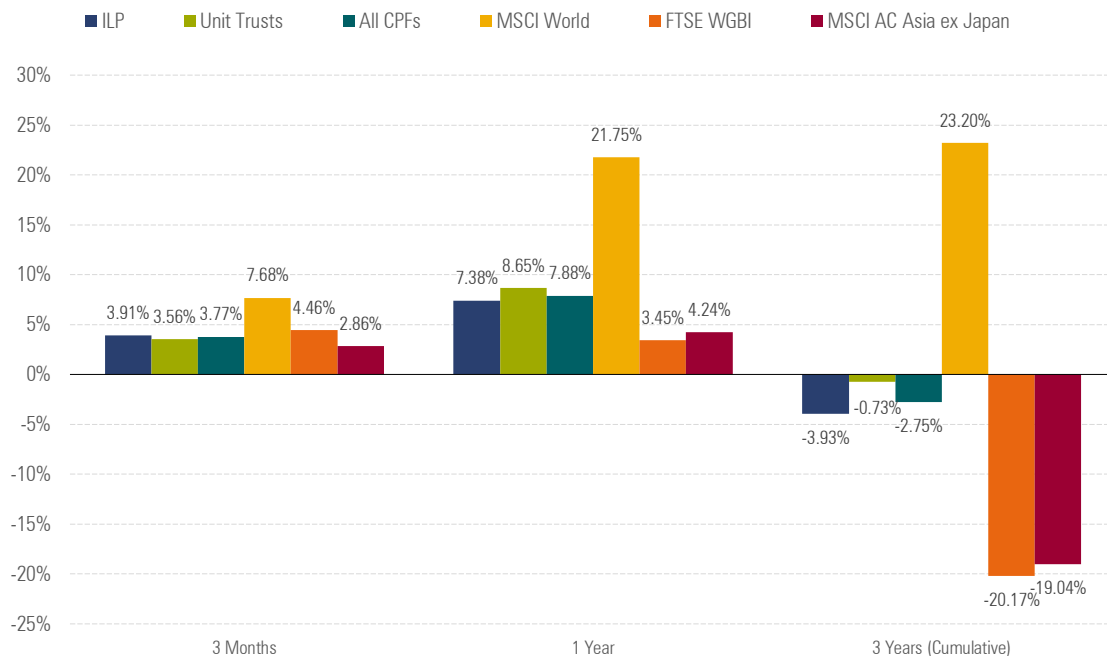
#### 4. Summary: Performance of CPFIS-Included Funds

**Exhibit 7** Average Return of CPFIS-Included Funds at End of 4Q 2023 (% in SGD)

Average Returns	For the period ended Dec. 31, 2023 (% in SGD)			
	3 months	1 Year	3 Years (Cumulative)	3 Years (Annualized)
All CPFIS-Included Funds	3.77	7.88	(2.75)	(1.39)
Unit Trusts Only	3.56	8.65	(0.73)	(0.95)
ILPs Only	3.91	7.38	(3.93)	(1.64)

Source: Morningstar Direct.

**Exhibit 8** Average Performance of CPFIS-Included Funds at End of 4Q 2023 (% in SGD)



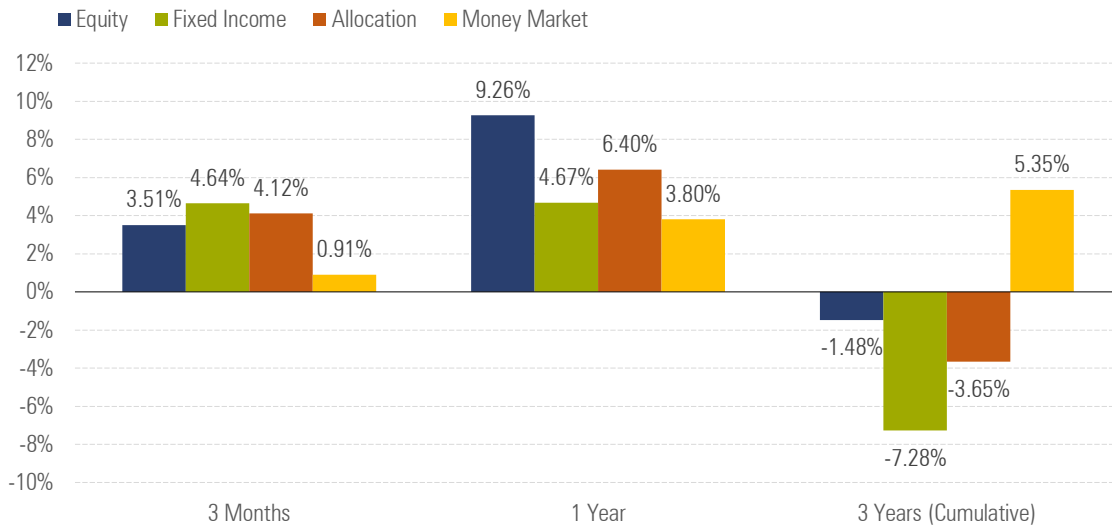
Source: Morningstar Direct.

The overall performance of CPFIS-included funds (unit trusts and ILPs combined) for the fourth quarter was 3.77%, compared with the third quarter's negative 2.28%. In the quarter, U.S. stock market, especially the growth-oriented companies, staged a year-end rally while government bond indexes also recorded positive returns. Proxied by MSCI World Index, global equities advanced by 7.68%. MSCI AC Asia ex Japan was up 2.86% during the quarter. Representing bond returns, FTSE WGBI finished with a gain of 4.46%.

Over the one-year period through December 2023, the CPF averaged a positive return of 7.88%. The scheme was operated in an environment where the MSCI World rose 21.75% while the global bond, proxied by FTSE WGBI Index, returned a smaller gain.

In the three-year reporting window, the scheme posted a negative return of 2.75%. Despite a strong cumulative gain in world equities, the investment environment was rather difficult in other segments. Both MSCI AC Asia ex Japan and FTSE WGBI notched a cumulative loss of approximately 20%.

**Exhibit 9** Average Performance of CPFIS-Included Funds at End of 4Q 2023 by Asset Class (% in SGD)



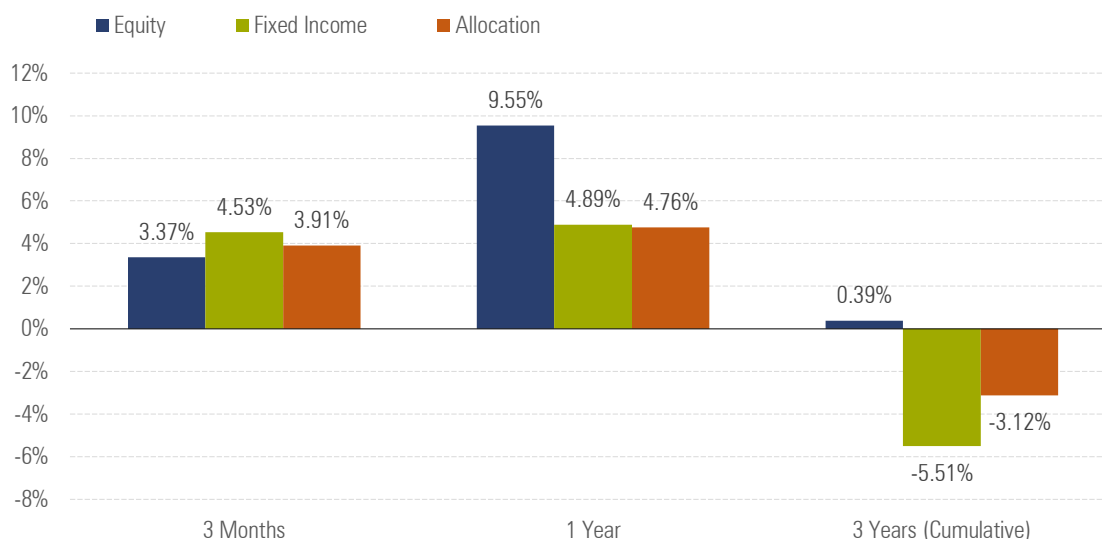
Source: Morningstar Direct.

During the fourth quarter of 2023, fixed-income funds led the gains as the group averaged a return of 4.64%. Allocation funds ranked second with a 4.12% increase, followed by equity funds' average return of 3.51%. Money market funds ended with a gain of 0.91%.

Looking back over the past year, all asset classes have notched positive returns. Equity funds led the way with a gain of 9.26%, while fixed-income and allocation funds reported average positive returns of 4.67% and 6.40%, respectively. Over the same period, money market funds have also performed well, with an average positive return of 3.80%.

Returns diverged over a three-year reporting interval, money market funds outperformed the other asset classes, especially when compared with fixed income funds. Bond funds struggled to perform as they posted an average negative return of 7.28%. Also returning negatively, equity and allocation funds had respective cumulative losses of 1.48% and 3.65%.

**Exhibit 10** Average Performance of CPFIS-Included Unit Trusts at End of 4Q 2023 by Asset Class (% in SGD)



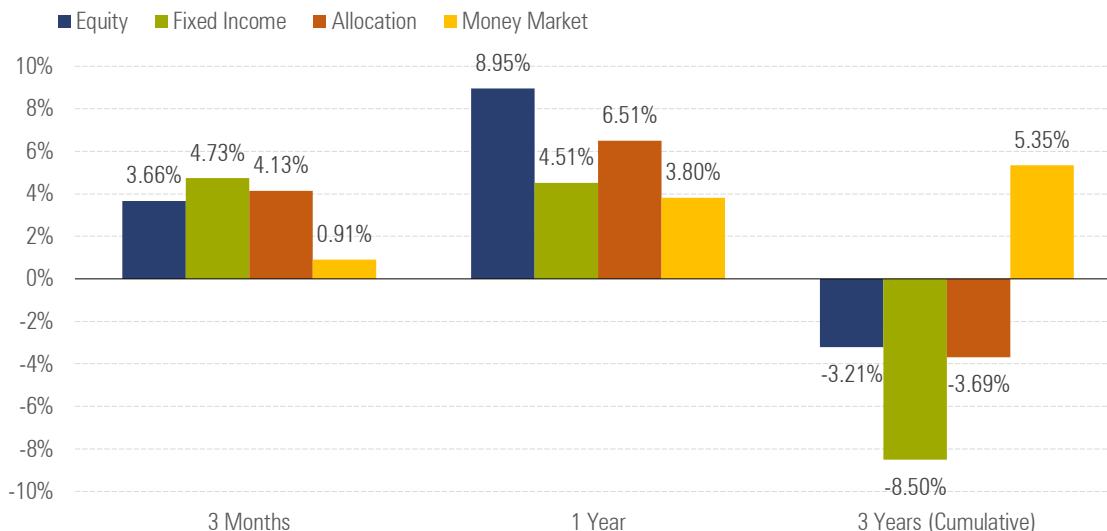
Source: Morningstar Direct.

By Morningstar Category, all, except four equity categories, in the unit trust group had positive returns. The quarterly performance was led by a biotechnology thematic fund, which generated a gain of 12.90%. The three other top categories were all large-cap growth equity funds for Europe, U.S., and global markets. The laggards for the fourth quarter were China equity – A shares, China equity, Greater China equity, and Thailand equity funds. China equity – A shares produced the poorest performance and was the only group that slumped more than 10%. China equity, a category with six funds, averaged a loss of 9.18%. On the bond side, SGD bond and Asia bond unit trusts gave out a return of around 4% for the quarter.

Over the past year, the landscape for the underperformers was similar to that of the most recent quarter. China equity-related unit trust groups took three spots in the bottom five categories. China equity A-shares category was the worst underperformer with a 24.00% decline while China equity category fell 19.56%. Greater China equity unit trusts delivered an average of 8.57%. Thailand equity category ranked third with a 16.48% loss. Turning to the best performers, U.S. and global equity funds dominated with a return of above 20%. U.S. large-cap growth equity, which consists of one-unit trusts, topped 26 other Morningstar equity categories with a return of 36.34%. In terms of fixed-income unit trusts, SGD bond and Asia bond CPFs returned around 5%.

In a three-year reporting window, a different set of equity categories made up the winner list. Two equity categories recorded a cumulative return of over 30%. The top-performing equity categories included U.S. large-cap value and other equity. U.S. large-cap blend equity came in third with a 29.74% return. Moreover, China-related equity unit trust CPFs remained a laggard as well for the three-year period. For example, the investment value in the China equity – A shares category halved in the past three years. Over the same period, all fixed-income groups struggled with a loss, with “other” bond category suffering the most, with a negative cumulative return of 17.34%. Asia and SGD bond funds reported losses of 1.49% and 4.06%, respectively.

**Exhibit 11** Average Performance of CPFIS-Included ILPs at end of 4Q 2023 by Asset Class (% in SGD)



Source: Morningstar Direct.

In the ILP universe, sector equity technology, Europe large-cap blend equity, and property – indirect global ILPs were the top-performing groups for the quarter, giving out a positive return of above 10%. Global large-cap value equity and India equity ILPs were also in the green but recorded a smaller gain of around 7%. China equity ILPs suffered the most for the quarter with a decline of 6.72%. For fixed-income ILPs, global bond funds, either in euros or U.S. dollar, were the best performers, as they gave out a gain of 6.88% and 6.22%, respectively. All allocation categories posted a positive return. Among the seven subcategories, USD aggressive allocation performed the best, ending the three-month period with a gain of 5.48%.

Over the past year, sector equity technology ILPs have delivered a solid gain of 46.07%. Global large-cap value equity and Europe flex-cap equity ranked second and third, respectively, each posting a gain over 20%. In line with the trend, the biggest category losses came from China-related ILPs. In terms of bond funds, other bond and global bond – USD biased bond led the board. All allocation subcategories posted a positive return, with gains ranging from 2.91% to 11.61%. USD aggressive-allocation funds were the best performer.

For the three-year period, U.S. large-cap growth equity, sector equity healthcare, and global large-cap growth equity were the top performers. The cumulative returns of U.S. large-cap growth equity were 31.40%. Sector equity healthcare and global large-cap growth equity categories posted three-year cumulative returns of approximately 20%. The bond category struggled in this period, with global bond funds, either in euro or U.S. dollar, becoming the worst performers. Euro-biased funds ended the period with a 18.58% loss while its U.S. dollar equivalent did only slightly better with a 14.77% loss.

**Exhibit 12** Average Performance of CPFIS-Included Unit Trusts by Morningstar Category (% Growth in SGD)

<b>Morningstar Category - UT (Number of Funds)</b>	<b>3 Months</b>	<b>1 Year</b>	<b>3 Years (Cumulative)</b>	<b>3 Years (Annualized)</b>
EAA Fund ASEAN Equity (2)	0.72	(0.34)	9.94	3.21
EAA Fund Asia Allocation (2)	2.99	2.03	(7.88)	(2.75)
EAA Fund Asia Bond (3)	3.97	5.22	(1.49)	(0.51)
EAA Fund Asia ex-Japan Equity (6)	0.75	(1.08)	(22.83)	(8.32)
EAA Fund Asia ex-Japan Small/Mid-Cap Equity (2)	4.26	10.31	(6.26)	(2.14)
EAA Fund Asia-Pacific Equity (1)	6.11			
EAA Fund Asia-Pacific ex-Japan Equity (4)	2.24	(1.77)	(19.89)	(7.14)
EAA Fund Asia-Pacific ex-Japan Equity Income (1)	7.37	12.26	2.07	0.69
EAA Fund China Equity (6)	(9.18)	(19.56)	(41.20)	(16.97)
EAA Fund China Equity - A Shares (1)	(10.32)	(24.00)	(49.84)	(20.55)
EAA Fund Europe Large-Cap Blend Equity (2)	5.50	19.30	13.19	4.19
EAA Fund Europe Large-Cap Growth Equity (1)	11.93	18.35	0.59	0.19
EAA Fund Global Emerging Markets Equity (4)	3.64	6.88	(22.76)	(8.29)
EAA Fund Global Equity Income (2)	6.33	17.00	23.42	7.18
EAA Fund Global Large-Cap Blend Equity (3)	6.86	20.06	21.06	6.58
EAA Fund Global Large-Cap Growth Equity (6)	9.43	20.69	5.82	1.83
EAA Fund Global Large-Cap Value Equity (1)	3.95	15.10	12.40	3.97
EAA Fund Greater China Equity (3)	(2.92)	(8.57)	(33.41)	(12.70)
EAA Fund India Equity (4)	6.53	19.97	26.31	7.99
EAA Fund Islamic Global Equity (1)	3.89	16.46	15.90	5.04
EAA Fund Japan Large-Cap Equity (2)	2.54	15.78	3.58	1.08
EAA Fund Other Bond (3)	6.45	3.82	(17.34)	(6.16)
EAA Fund Other Equity (10)	6.26	24.95	30.11	8.40
EAA Fund Sector Equity Biotechnology (1)	12.90	15.56	(15.28)	(5.38)
EAA Fund Sector Equity Healthcare (2)	3.09	4.53	6.81	2.03
EAA Fund SGD Bond (8)	4.01	5.16	(4.06)	(1.39)
EAA Fund Singapore Equity (3)	0.71	3.18	17.76	5.60
EAA Fund Thailand Equity (1)	(1.63)	(16.48)	(14.14)	(4.95)
EAA Fund US Large-Cap Blend Equity (3)	7.57	22.80	29.74	9.07
EAA Fund US Large-Cap Growth Equity (1)	11.08	36.34	1.46	0.48
EAA Fund US Large-Cap Value Equity (1)	4.01	9.99	31.48	9.55
EAA Fund USD Moderate Allocation (1)	5.75	10.23	6.46	2.11

Source: Morningstar Direct.

**Exhibit 13** Average Performance of CPFIS-Included ILPs by Morningstar Category (% Growth in SGD)

<b>Morningstar Category—ILP (Number of Funds)</b>	<b>3 Months</b>	<b>1 Year</b>	<b>3 Years (Cumulative)</b>	<b>3 Years (Annualized)</b>
EAA Insurance Asia Allocation (18)	(2.16)	2.91	(4.42)	(1.62)
EAA Insurance Asia Bond (3)	(0.43)	2.44	(2.32)	(0.78)
EAA Insurance Asia ex-Japan Equity (3)	(4.23)	2.97	(14.29)	(5.02)
EAA Insurance Asia-Pacific ex-Japan Equity (13)	(4.83)	2.09	(8.60)	(3.01)
EAA Insurance China Equity (2)	(4.22)	(3.30)	(26.41)	(9.74)
EAA Insurance Europe Flex-Cap Equity (1)	(2.12)	31.52	24.20	7.49
EAA Insurance Europe Large-Cap Blend Equity (1)	(9.03)	16.06	7.05	2.30
EAA Insurance Europe Large-Cap Growth Equity (1)	(2.75)	23.23	11.99	3.85
EAA Insurance Global Bond - EUR Biased (1)	(4.57)	(3.60)	(23.55)	(8.56)
EAA Insurance Global Bond - USD Biased (7)	(3.06)	(1.25)	(18.90)	(6.75)
EAA Insurance Global Emerging Markets Equity (6)	(5.22)	6.15	(13.34)	(4.71)
EAA Insurance Global Equity Income (1)	(2.15)	14.28	14.44	4.60
EAA Insurance Global Large-Cap Blend Equity (7)	(2.53)	12.20	12.23	3.81
EAA Insurance Global Large-Cap Growth Equity (2)	(1.35)	14.95	22.27	6.93
EAA Insurance Global Large-Cap Value Equity (1)	(3.92)	13.97	10.46	3.37
EAA Insurance Greater China Equity (4)	(2.33)	(0.92)	(25.15)	(9.21)
EAA Insurance India Equity (5)	0.87	0.39	25.91	7.98
EAA Insurance Islamic Equity - Other (2)	(1.78)	17.63	20.95	6.49
EAA Insurance Islamic Global Equity (1)	(1.55)	20.53	28.16	8.62
EAA Insurance Japan Large-Cap Equity (4)	1.40	21.82	23.79	7.06
EAA Insurance Money Market - Other (3)	0.97	3.65	4.49	1.48
EAA Insurance Other Allocation (3)	(2.66)	4.52	-	-
EAA Insurance Other Bond (1)	(2.06)	1.46	(12.17)	(4.23)
EAA Insurance Other Equity (1)	0.35	3.98	1.39	0.46
EAA Insurance Property - Indirect Global (2)	(5.01)	(2.17)	1.25	0.40
EAA Insurance Sector Equity Healthcare (1)	(0.56)	8.67	19.46	6.11
EAA Insurance Sector Equity Technology (3)	(4.21)	17.60	2.96	0.96
EAA Insurance SGD Bond (7)	(1.47)	2.79	(6.02)	(2.07)
EAA Insurance Singapore Equity (6)	1.16	4.45	33.24	10.03
EAA Insurance Target Date 2021 - 2025 (1)	(2.08)	2.15	(4.14)	(1.40)
EAA Insurance Target Date 2031 - 2035 (1)	(2.17)	4.11	2.97	0.98
EAA Insurance US Large-Cap Growth Equity (1)	2.04	5.76	43.17	12.71
EAA Insurance USD Aggressive Allocation (6)	(1.89)	7.30	7.59	2.41
EAA Insurance USD Cautious Allocation (6)	(2.06)	2.98	(4.75)	(1.62)
EAA Insurance USD Moderate Allocation (12)	(2.31)	5.65	3.86	1.24

Source: Morningstar Direct.

## 5. Summary of Performance

The Morningstar Rating is based on funds' risk-adjusted returns within its Morningstar Category peer group. Morningstar gives more weight to downside variation when calculating Morningstar Risk-Adjusted Return because investors are generally risk-averse and dislike downside variation. The Morningstar Rating is calculated within each Morningstar Category peer group because the relative star ratings of two funds should be affected more by manager skill than by market circumstances or events that lie beyond the fund managers' control. The Morningstar Rating is based on MRAR, using Morningstar Risk-Adjusted Return % Rank for funds in a category. Morningstar calculates ratings for the three-, five-, and 10-year periods, and then the overall Morningstar Rating is based on a weighted average of the available time-period ratings.

### Exhibit 14 The Weight of Overall Morningstar Rating

The overall Morningstar Rating weight is shown below:

Months of Total Returns	Overall (Weighted) Morningstar Rating
<b>36-59</b>	100% of three-year rating
<b>60-119</b>	60% of five-year rating 40% of three-year rating
<b>120 or more</b>	50% of 10-year rating 30% of five-year rating 20% of three-year rating

Source: Morningstar Direct.

There are certain cases where funds are *ineligible* for a Morningstar Rating. This includes funds that are:

- Categorized in any Other/Miscellaneous category;
- Restricted funds;
- Virtual share classes: Also known as a *convenience* or *currency* class, virtual classes are investments whose performance is quoted in another currency or allow investors to purchase shares in a currency other than its base currency;
- Inception date/performance start date is shorter than 36-month continuous monthly returns available;
- Dormancy history led to shorter than 36-month continuous monthly returns available;
- Obsolete funds;
- Funds whose peer group contains fewer than five distinct portfolios.

### Morningstar Rating ("Star Rating")

To determine a fund's star rating for a given time period (three, five, or 10 years), the fund's risk-adjusted return is plotted on a bell curve: If the fund scores in the top 10% of its category, it receives 5 stars (Highest); if it falls in the next 22.5%, it receives 4 stars (Above Average); a place in the middle 35% earns 3 stars (Average); those lower still, in the next 22.5%, receive 2 stars (Below Average); and the bottom 10% get only 1 star (Lowest). The Overall Morningstar Rating is a weighted average of the available three-, five-, and 10-year ratings.

### Morningstar Return Rating

An annualized measure of a fund's excess return relative to the return of the 90-day Treasury bill over a three-, five-, or 10-year period. This is a component of the MRAR. Morningstar Return is displayed in decimal format and is calculated only for those investments with at least three years of performance history.

### **Morningstar Risk Rating**

An annualized measure of a fund's downside volatility over a three-, five-, or 10-year period. This is a component of the MRAR. Morningstar Risk is displayed in decimal format and is calculated only for those investments with at least three years of performance history. A high number indicates higher risk and low numbers indicate lower risk.

### **Morningstar Fee Level**

The Morningstar Fee Level evaluates a mutual fund share class' expense ratio relative to other funds that invest in a similar asset class and have similar distribution characteristics. Within each Comparison Group, a fund share class' expense ratio is ranked against its peers using five quintiles. Each quintile corresponds to one of the following scores:

- Low: Least Expensive quintile
- Below Average: Second Least Expensive quintile
- Average: Middle quintile
- Above Average: Second Most Expensive quintile
- High: Most Expensive quintile

### **Morningstar Sustainability Rating**

Morningstar assigns Sustainability Ratings by ranking all scored funds within a Morningstar Global Category by their Historical Sustainability Scores. The ranked funds are then divided into five groups, based on a normal distribution, and each receives a rating from High to Low. Although a higher rating is better than a lower one, please note that owing to the risk component of the scores, lower scores are better (and lead to higher ratings) than higher scores and indicate that a fund is, on average, invested in fewer companies with a high environmental, social, or governance risk under Sustainalytics' ESG Risk methodology and therefore exposed to less risk driven these aforementioned factors.

Percent Rank Rating Depiction

- Top 10%: High/5 globes
- Next 22.5%: Above Average/4 globes
- Next 35%: Average/3 globes
- Next 22.5%: Below Average/2 globes
- Bottom 10%: Low/1 globe

To receive a Portfolio Sustainability Score, at least 67% of a portfolio's assets under management must have a company ESG Risk Rating. The percentage of assets under management of the covered securities is rescaled to 100% before calculating the Portfolio Sustainability Score.



## 5.1 Morningstar Ratings for CPFIS-Included Unit Trusts

Full List of CPFIS Included UTs With Morningstar Data

Note: Funds need 36 months of performance history to have a Morningstar Rating, and certain categories are not eligible for rating. For a Sustainability Rating, at least 67% of the portfolio's AUM must have a company ESG Risk Rating.

### List A Funds

List A—Funds that have met all new admission criteria: i) The revised benchmark set at the top 25 percentile of funds in their global peer group; ii) The expense ratio is not higher than that set by the CPF Board by the respective risk class. The expense ratio criteria also applies to existing funds from Jan. 1, 2008, onward; iii) A 0% sales charge; iv) New funds applying for inclusion under CPFIS should preferably have a track record of good performance for at least three years.

### Exhibit 15 List A UT Funds

Group/Investment	Morningstar Rating Overall	Morningstar Risk Rating Overall	Morningstar Ret Rating Overall	Morningstar Sustainability Rating™
<b>EAA ASEAN Equity</b>				
Eastspring Inv UT Singapore Asean Equity	★★★	Average	Average	Average
JPM ASEAN Equity CPF (acc) SGD	Fund not eligible—less than 36 months of performance history			Average
<b>EAA Asia-Pacific Equity</b>				
Allianz Oriental Income ET SGD	Fund not eligible—less than 36 months of performance history			Low
<b>EAA Asia-Pacific ex-Japan Equity</b>				
abrdn Pacific Eq SGD	★★	Below Avg	Below Avg	Above Avg
FSSA Dividend Advantage A Qdis	★★★	Below Avg	Average	Average
LionGlobal Asia Pacific SGD	★★	Average	Below Avg	Average
Schroder ISF Sust Asn Eq F Acc SGD	★★★	Below Avg	Average	Average
<b>EAA Asia-Pacific ex-Japan Equity Income</b>				
Schroder Asian Equity Yield A	★★★★	Average	Above Avg	Above Avg
<b>EAA Asia Allocation</b>				
First Sentier Bridge Fund A (H Dist)	★★★★	Average	Above Avg	Low
PineBridge Acorns of Asia Balanced	★★★★★	Average	High	Below Avg
<b>EAA Asia Bond</b>				
Manulife Asia Pacific Invmt Grd Bd A	★★★★	Above Avg	Above Avg	Average
Nikko AM Shenton Short Term Bd(\$\$)SGD	★★★★	Average	Above Avg	Below Avg
Schroder Asian Invmt Grd Crdt SGD A Dis	★★★	Above Avg	Above Avg	Average
<b>EAA Asia ex-Japan Equity</b>				
Fidelity Asian Special Sits SR-Acc-SGD	★★	Average	Below Avg	Above Avg
Fidelity Sustainable Asia Eq SR-Acc-SGD	★★★★	Below Avg	Average	High
FSSA Asian Growth A Acc	★★★★	Low	Above Avg	Below Avg
JPM Asia Growth CPF (acc) SGD	Fund not eligible—less than 36 months of performance history			High
Schroder Asian Growth SGD A Dis	★★★★	Above Avg	Above Avg	Average
<b>EAA Asia ex-Japan Small/Mid-Cap Equity</b>				
abrdn Asian Sm Co SGD	★★	Average	Below Avg	Average
PineBridge Asia exJapan SmCap Eq A5CP	★★★	Below Avg	Average	Below Avg
<b>EAA China Equity</b>				
abrdn SP All China Sust Eq SGD	★★★	Below Avg	Below Avg	Above Avg

Allianz All China Equity ET SGD	Fund not eligible—less than 36 months of performance history			Average
Fidelity China Focus SR-Acc-SGD	★★★★	Below Avg	Above Avg	Above Avg
JPM China CPF (acc) SGD	Fund not eligible—less than 36 months of performance history			Average
Schroder China Opportunities	★★★★	Average	Above Avg	Average
<b>EAA China Equity—A Shares</b>				
Allianz China A Shares PT USD	★★	Average	Below Avg	Average
<b>EAA Europe Large-Cap Blend Equity</b>				
Eastspring Inv UT Pan European	★★★★	Above Avg	High	High
Fidelity European Growth SR-Acc-SGD	★★	Average	Below Avg	Average
<b>EAA Europe Large-Cap Growth Equity</b>				
abrdn European Sustainable Equity SGD	★★★	Average	Average	High
<b>EAA Global Emerging Markets Equity</b>				
abrdn Gbl Emerg Mkt SGD	★★	Average	Below Avg	Above Avg
Fidelity Em Mkts SR-Acc-SGD	★★	Above Avg	Average	Above Avg
Schroder Global Emerging Market Opps	★★★★	Above Avg	Above Avg	Above Avg
<b>EAA Global Equity Income</b>				
Allianz Global High Payout SGD	★★★★	Average	Above Avg	Below Avg
Fidelity Global Dividend SR-Acc-SGD	★★★★	Low	Average	High
<b>EAA Global Large-Cap Blend Equity</b>				
Amundi Idx MSCI World A12S-C	Fund not eligible—less than 36 months of performance history			Average
Infinity Global Stock Index SGD	★★★★	Average	Above Avg	Average
<b>EAA Global Large-Cap Growth Equity</b>				
Allianz Global Equity Growth ET SGD	Fund not eligible—less than 36 months of performance history			High
Capital Group New Economy (LUX) Z	Fund not eligible—less than 36 months of performance history			Average
Nikko AM Shenton Global Opportunities	★★★★	Below Avg	Average	Above Avg
Schroder ISF Gbl Disruption F Acc SGD	Fund not eligible—less than 36 months of performance history			Above Avg
Schroder ISF Gbl Sust Gr F Acc SGD	★★★★★	Below Avg	High	High
United Global Quality Growth C SGDAcc H	★★	Above Avg	Average	Above Avg
<b>EAA Global Large-Cap Value Equity</b>				
Harris Associates Global Eq P/A SGD	★★	High	Below Avg	Average
<b>EAA Greater China Equity</b>				
Fidelity Greater China SR-Acc-SGD	★★★	Average	Average	High
FSSA Regional China A Acc	★★★★	Below Avg	Above Avg	Above Avg
Schroder ISF Greater China F Acc SGD	★★★	Average	Average	Above Avg
<b>EAA India Equity</b>				
abrdn India Opportunities SGD	★★	Low	Below Avg	
Franklin India AS(acc)SGD	★★★	Average	Above Avg	Average
PineBridge India Equity A5CP	★★★★	Low	Average	Average
Schroder ISF Indian Opports F Acc SGD	Fund not eligible—less than 36 months of performance history			Above Avg
<b>EAA Islamic Global Equity</b>				
Templeton Shariah Global Eq AS Acc SGD	★★★	Average	Average	Low
<b>EAA Japan Large-Cap Equity</b>				

LionGlobal Japan Growth SGD	★★★	Average	Average	Average
Nikko AM Shenton Japan SGD	★★★★	Above Avg	Above Avg	Below Avg
<b>EAA Other Bond</b>				
Amundi IS-Amundi Glb Agg Bd A12HS-C		Category not eligible—"other" category		Average
Franklin Templeton WA Gbl Bd A SGD Acc		Category not eligible—"other" category		Above Avg
Schroder Global Quality Bond SGD H F Acc		Category not eligible—"other" category		Average
<b>EAA Other Equity</b>				
Allianz Best Styles Global Eq ET H2 SGD		Category not eligible—"other" category		Below Avg
Allianz Global Artfcl Intlgc ET H2 SGD		Category not eligible—"other" category		Average
Capital Group New Pers (LUX) Zh-SGD		Category not eligible—"other" category		Average
Eastspring Inv Japan Dynamic AS (hdg)		Category not eligible—"other" category		Below Avg
Harris Associates US Value Eq H P/A SGD		Category not eligible—"other" category		Low
Loomis Sayles US Growth Eq H-P/A SGD		Category not eligible—"other" category		Below Avg
Nikko AM Japan Dividend Equity SGD Hdg		Category not eligible—"other" category		Averagework re
<b>EAA SGD Bond</b>				
Eastspring Inv UT Singapore Select Bd AD	★★★★	Average	Above Avg	Above Avg
LionGlobal SGP Fix Inc Invmt A	★★★	Below Avg	Average	High
LionGlobal Short Duration Bd A SGD Dist	★★★★★	Below Avg	High	Above Avg
Manulife Singapore Bond A	★★★	Above Avg	Average	Above Avg
PineBridge Singapore Bond	★★★★	Average	Above Avg	
Schroder Singapore Fixed Income A Acc	★★★	Average	Below Avg	
United SGD A (Acc) SGD	★★★★	Below Avg	Above Avg	Below Avg
United Singapore Bond Fund A SGD Acc	★★★★	Average	Above Avg	
<b>EAA Singapore Equity</b>				
abrdrn Singapore Eq SGD	★★★	Average	Average	Average
Nikko AM Shenton Thrift	★★★★	Average	Above Avg	Below Avg
Schroder Singapore Trust SGD A Dis	★★★	Below Avg	Average	Above Avg
<b>EAA US Large-Cap Blend Equity</b>				
Amundi IS Prime USA AS		Fund not eligible—less than 36 months of performance history		Average
Infinity US 500 Stock Index SGD	★★★	Average	Average	Average
PineBridge US Large Cap RsrchEnh A5CP	★★★	Average	Average	Average
<b>EAA US Large-Cap Growth Equity</b>				
Franklin US Opportunities AS(acc)SGD	★★	Above Avg	Average	Average
<b>EAA US Large-Cap Value Equity</b>				
Fidelity America SR-Acc-USD	★★	Below Avg	Below Avg	Above Avg
<b>EAA USD Moderate Allocation</b>				
Schroder Multi-Asset Revolution A	★★★★	Above Avg	Above Avg	Average

Source: Morningstar Direct.

## Exhibit 16 List B UT Funds

No new CPF monies/Fund(s) closed to new subscriptions.

Group/Investment	Morningstar Rating Overall	Morningstar Risk Rating Overall	Morningstar Ret Rating Overall	Morningstar Sustainability Rating™
<b>EAA Asia ex-Japan Equity</b>				
Templeton Asian Growth A(acc)SGD	★★	Average	Below Avg	Average
<b>EAA China Equity</b>				
Templeton China A(acc)SGD	★	High	Low	Above Avg
<b>EAA Global Emerging Markets Equity</b>				
Templeton Emerging Markets A(acc)SGD	★★★	Above Avg	Average	Average
<b>EAA Global Large-Cap Blend Equity</b>				
Manulife GF Global Equity AA	★★★	Below Avg	Average	Average
<b>EAA Other Equity</b>				
Allianz Europe Equity Growth AT H2 SGD	Category not eligible—"other" category			Above Avg
Eastspring Inv UT Dragon Peacock A	Category not eligible—"other" category			Below Avg
LionGlobal Singapore/Malaysia SGD	Category not eligible—"other" category			Below Avg
<b>EAA Sector Equity Biotechnology</b>				
Franklin Biotechnology Discv A(acc)SGD	★★★	Average	Average	Below Avg
<b>EAA Sector Equity Healthcare</b>				
AB Intl Health Care A SGD	★★★★★	Below Avg	High	High
United Global Healthcare SGD Acc	★★★	Above Avg	Above Avg	Average
<b>EAA Thailand Equity</b>				
LionGlobal Thailand SGD	★★	High	Average	

Source: Morningstar Direct.

## 5.2 Morningstar Ratings for CPFIS-Included ILPs

Full List of CPFIS-Included ILPs With Morningstar Data

Note: Funds need 36 months of performance history to have a Morningstar Rating, and certain categories are not eligible for rating. For a Sustainability Rating, at least 67% of the portfolio's AUM must have a company ESG Risk Rating.

### List A Funds

List A—Funds that have met all new admission criteria: i) The revised benchmark set at the top 25 percentile of funds in their global peer group; ii) The expense ratio is not higher than that set by the CPF Board by the respective risk class. The expense ratio criteria also applies to existing funds from Jan. 1, 2008, onward; iii) A 0% sales charge; iv) New funds applying for inclusion under CPFIS should preferably have a track record of good performance for at least three years.

**Exhibit 17** List A ILP Funds

<b>Group/Investment</b>	<b>Morningstar Rating Overall</b>	<b>Morningstar Risk Rating Overall</b>	<b>Morningstar Ret Rating Overall</b>	<b>Morningstar Sustainability Rating™</b>
<b>EAA Insurance Asia-Pacific ex-Japan Equity</b>				
AIA Regional Equity	★★★★	Average	Above Avg	
GreatLink Asia Pacific Equity	★★★★	Average	Average	Average
HSBC Insurance Pacific Equity	★★★	Above Avg	Average	
HSBC Life Asian Growth	★★★	Below Avg	Average	
HSBC Life Pacific Equity Fund	★★★	Below Avg	Average	
Manulife Asian Small Cap Equity	★★★★	Below Avg	Above Avg	Below Avg
Manulife Dividend Advantage	Category not eligible—less than 5 distinct portfolios			Average
Manulife Pacific Equity	★★★★★	Below Avg	High	Above Avg
TMLS Asian Equity Plus	★★★★	Low	Above Avg	
<b>EAA Insurance Asia Allocation</b>				
AIA Acorns of Asia	★★★★	Above Avg	Above Avg	
AIA Greater China Bal	★★★	High	Average	
AIA Growth	★	High	Low	
AIA India Balanced	★★★★★	Average	High	
AIA Japan Balanced	★★★★★	Below Avg	High	
GreatLink Lion Asian Balanced	★★★	Below Avg	Average	Above Avg
HSBC Life Asian Balanced	★★★	Average	Average	
HSBC Life Singapore Balanced Fund	★★★★	Average	Above Avg	
Income Asia Managed	★★★★	High	Above Avg	
Manulife Income Series - Asian Bal CI A	★★★	Average	Average	Below Avg
PruLink Asian Income & Growth Acc	★★★★	Average	Above Avg	Below Avg
PruLink Singapore ASEAN Managed	★★★	Above Avg	Average	Below Avg
<b>EAA Insurance Asia Bond</b>				
Manulife Inc Ser - Asia Pac Invmt GrdBdA	★★★★	Average	Above Avg	Average
TMLS Global Bond	★★★★★	Below Avg	Above Avg	
<b>EAA Insurance Asia ex-Japan Equity</b>				
Income Asian Equity	Fund not eligible—less than 36 months of performance history			Average
Manulife Golden Asia Fund	Category not eligible—less than 5 distinct portfolios			Average
Manulife Golden Asia Growth	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance China Equity</b>				
Manulife Golden Reg. China	Category not eligible—less than 5 distinct portfolios			Above Avg
TMLS China Equity	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Europe Flex-Cap Equity</b>				
PruLink Pan European	Category not eligible—less than 5 distinct portfolios			Above Avg
<b>EAA Insurance Europe Large-Cap Blend Equity</b>				
GreatLink European Sus & Res Inv Eq	Category not eligible—less than 5 distinct portfolios			High
<b>EAA Insurance Europe Large-Cap Growth Equity</b>				
Manulife European Equity	Category not eligible—less than 5 distinct portfolios			Average
<b>EAA Insurance Global Bond—USD Biased</b>				

AIA Global Bond	★★★	Above Avg	Above Avg	
GreatLink Global Bond	★★★★	Below Avg	Above Avg	
HSBC Insurance Global Bond	★★★★	Average	Above Avg	Average
HSBC Life Global Defensive Fund	★★★	Average	Average	
Income Global Bond	★★★★	Above Avg	Above Avg	Below Avg
Manulife Golden Intl Bond	★★★★	Above Avg	Above Avg	Average
PruLink Global Bond	★★	Below Avg	Below Avg	
<b>EAA Insurance Global Emerging Markets Equity</b>				
AIA Emerg Mkts Equity	★★★★	Above Avg	High	
GreatLink Global Emerging Markets Equity	★★★	Average	Average	Above Avg
HSBC Life Global Emerging Markets Eq Fd	★★★★★	Average	Above Avg	
Manulife Global Emerg Mkts	★★	Average	Below Avg	Above Avg
PruLink Emerging Markets	★★★★	Average	Above Avg	High
TMLS Global Emerging Markets Equity	★★★	Average	Average	
<b>EAA Insurance Global Equity Income</b>				
PruLink Global Equity	Category not eligible—less than 5 distinct portfolios			Above Avg
<b>EAA Insurance Global Large-Cap Blend Equity</b>				
AIA Portfolio 100	★★★★	Below Avg	Above Avg	
GreatLink Global Equity Alpha	★★★★★	Average	High	Average
GreatLink LifeStyle Dyna	★★	Average	Below Avg	Below Avg
HSBC Life Global Equity Blend Fund	★★★★	High	High	
Income Global Equity	★★★	Average	Average	Above Avg
<b>EAA Insurance Global Large-Cap Growth Equity</b>				
HSBC Life Global High Growth Fd	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Global Large-Cap Value Equity</b>				
GreatLink Global Perspective	Category not eligible—less than 5 distinct portfolios			Average
<b>EAA Insurance Greater China Equity</b>				
AIA Greater China Equity	Category not eligible—less than 5 distinct portfolios			
Greatlink China Growth	Category not eligible—less than 5 distinct portfolios			Above Avg
HSBC Life Greater China Fund	Category not eligible—less than 5 distinct portfolios			
PruLink Greater China	Category not eligible—less than 5 distinct portfolios			Above Avg
<b>EAA Insurance India Equity</b>				
AIA India Opportunities	★★★	Average	Average	
HSBC Life India Opportunities Fund	★★★	Below Avg	Below Avg	
Manulife India Equity	★★★	Average	Average	
PruLink India Equity	★★★★	Average	Average	
TMLS India Equity Fund	★★★	Low	Below Avg	
<b>EAA Insurance Islamic Equity—Other</b>				
HSBC Insurance Ethical Global Equity	Category not eligible—"other" category			
<b>EAA Insurance Islamic Global Equity</b>				
HSBC Life Shariah Global Equity	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Japan Large-Cap Equity</b>				

AIA Japan Equity	Category not eligible—less than 5 distinct portfolios			
GreatLink Lion Japan Growth	Category not eligible—less than 5 distinct portfolios			
Manulife Japan Growth	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Other Allocation</b>				
Income Global Diverse Series—Advnturs	Category not eligible—"other" category			
Income Global Diverse Series—Balanced	Category not eligible—"other" category			
Income Global Diverse Series—Managed	Category not eligible—"other" category			
<b>EAA Insurance Other Bond</b>				
Income Asian Bond	Category not eligible—"other" category			
<b>EAA Insurance Property—Indirect Global</b>				
GreatLink Global Real Estate Secs Fd	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Sector Equity Technology</b>				
AIA Global Technology	Category not eligible—less than 5 distinct portfolios			
Greatlink Global Tech	Category not eligible—less than 5 distinct portfolios			
Income Global Technology	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance SGD Bond</b>				
AIA Regional Fixed Income	★★★★	Average	Above Avg	
GreatLink Short Duration Bond	★★★	Below Avg	Average	Above Avg
HSBC Life Short Duration Bond	★★★★	Low	Above Avg	
HSBC Life Singapore Bond Fund	★★★	Average	Average	
Manulife Singapore Bond	★	High	Low	Above Avg
PruLink Singapore Dynamic Bond	★★★★	High	Above Avg	Above Avg
TMLS Singapore Bond	★★	Average	Below Avg	
<b>EAA Insurance Singapore Equity</b>				
GreatLink Singapore Eq	★★★★	Average	Above Avg	Average
HSBC Life Fortress A Fund	★★	Below Avg	Below Avg	
HSBC Life Singapore Equity Fund	★★★	Above Avg	Average	
Manulife Golden SG Growth	★★★	Below Avg	Average	Above Avg
Prulink Singapore Growth Fund	★★★★★	Average	High	Average
TMLS Singapore Equity	★★★★	Below Avg	Above Avg	
<b>EAA Insurance Target Date 2021—2025</b>				
PruLink Adapt 2025	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Target Date 2031—2035</b>				
PruLink Adapt 2035	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance US Large-Cap Growth Equity</b>				
PruLink America	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance USD Aggressive Allocation</b>				
AIA Portfolio 70	★★★★	Below Avg	High	
GreatLink LifeStyle Bal	★★	Low	Low	Above Avg
GreatLink LifeStyle Prog	★★★	Average	Below Avg	Above Avg
HSBC Life Global Growth Fund	★★★★★	Below Avg	Above Avg	
TMLS Multi-Asset 70	★★★★	Below Avg	Average	

TMLS Multi-Asset 90	★★★★★	Average	High	
<b>EAA Insurance USD Cautious Allocation</b>				
AIA Portfolio 30	★★★★★	Average	High	
GreatLink LifeStyle Secure	★★★	Low	Average	Above Avg
GreatLink LifeStyle Steady	★★★	High	Average	Above Avg
HSBC Life Global Secure Fund	★★★★	Average	Above Avg	
TMLS Multi-Asset 30	★★★★	Average	Above Avg	
<b>EAA Insurance USD Moderate Allocation</b>				
AIA Emerg Mkts Balanced	★★	Above Avg	Average	
AIA Global Balanced	★★★★	Above Avg	Above Avg	
AIA Portfolio 50	★★★★	Below Avg	Above Avg	
GreatLink Global Supreme	★★★	Average	Average	Above Avg
HSBC Life Global Balanced Fund	★★★★	Below Avg	Above Avg	
Manulife Golden Bal Growth	★★	Above Avg	Average	Below Avg
PruLink Global Managed	★★★★★	Average	High	Average
Singlife Schroder Multi Asset Revolution	★★★★★	Average	High	Average
TMLS Multi-Asset 50	★★★★	Below Avg	Above Avg	

Source: Morningstar Direct.

### Exhibit 18 List B ILP Funds

No new CPF monies/Fund(s) closed to new subscriptions.

Group/Investment	Morningstar Rating Overall	Morningstar Risk Rating Overall	Morningstar Ret Rating Overall	Morningstar Sustainability Rating™
<b>EAA Insurance Asia-Pacific ex-Japan Equity</b>				
PruLink Asian Equity	★★	Average	Below Avg	
Singlife Aberdeen Pacific Equity (SP)	★★	Above Avg	Below Avg	
Singlife Capital Growth - SP	★★★★	Above Avg	Above Avg	
Singlife MM Capital Growth	★★★★	High	Above Avg	
<b>EAA Insurance Asia Allocation</b>				
PruLink Asian American Managed	★★★	Below Avg	Below Avg	Below Avg
PruLink Singapore Asian Managed Fund	★	Above Avg	Below Avg	
Singlife Balanced Growth - SP	★★★	Above Avg	Average	
Singlife Income Growth - SP	★★★	Low	Below Avg	
Singlife MM Balanced Growth	★★★	Above Avg	Above Avg	
Singlife MM Income Growth	★★★	Low	Average	
<b>EAA Insurance Asia Bond</b>				
Singlife Nikko AM Shenton Short Term Bd SP	★★★	Below Avg	Average	
<b>EAA Insurance Global Bond—EUR Biased</b>				
Singlife FTempleton WA Gbl Bond Tr (SP)	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Global Large-Cap Blend Equity</b>				
Manulife Lifestyle Aggressive	★★	Below Avg	Low	Below Avg
Manulife Lifestyle Growth	★★	Low	Below Avg	Below Avg



<b>EAA Insurance Global Large-Cap Growth Equity</b>				
Manulife Golden Worldwide Eq	Category not eligible—less than 5 distinct portfolios			Average
<b>EAA Insurance Islamic Equity—Other</b>				
Income Takaful	Category not eligible—"other" category			
<b>EAA Insurance Japan Large-Cap Equity</b>				
Singlife LionGlobal Japan Growth—SP	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Money Market—Other</b>				
AIA SGD Money Market	Category not eligible—"other" category			
Greatlink Cash	Category not eligible—"other" category			
PruLink Singapore Cash	Category not eligible—"other" category			
<b>EAA Insurance Other Equity</b>				
PruLink China-India	Category not eligible—"other" category			Below Avg
<b>EAA Insurance Property—Indirect Global</b>				
PruLink Global Property Securities	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance Sector Equity Healthcare</b>				
AIA International Health Care Fund	Category not eligible—less than 5 distinct portfolios			
<b>EAA Insurance USD Cautious Allocation</b>				
Manulife Lifestyle Conservative	★★★	Average	Average	Average
<b>EAA Insurance USD Moderate Allocation</b>				
Manulife Golden Gbl Balanced	★★★★★	Average	High	Average
Manulife Lifestyle Moderate	★★★	Average	Average	Average
Manulife Lifestyle Secure	★★★★	Low	Average	Average

Source: Morningstar Direct.

## 6. Appendixes

### 6.1 Complete List of CPFIS-Included UTs

#### List A Funds

List A—Funds that have met all new admission criteria: i) The revised benchmark set at the top 25 percentile of funds in their global peer group; ii) The expense ratio is not higher than that set by the CPF Board by the respective risk class. The expense ratio criteria also applies to existing funds from Jan. 1, 2008, onward; iii) A 0% sales charge; iv) New funds applying for inclusion under CPFIS should preferably have a track record of good performance for at least three years.

#### Exhibit 19 List A UT Funds

Group/Investment	CPF Classification	CPF Focus	Annual Report Date	Annual Report Net Expense Ratio
<b>EAA ASEAN Equity</b>				
Eastspring Inv UT Singapore Asean Equity	Higher Risk	Asia	31/12/2022	1.64
JPM ASEAN Equity CPF (acc) SGD	Higher Risk	Asia	30/6/2023	1.75
<b>EAA Asia-Pacific Equity</b>				
Allianz Oriental Income ET SGD	Higher Risk	Asia		
<b>EAA Asia-Pacific ex-Japan Equity</b>				
abrdn Pacific Eq SGD	Higher Risk	Asia	30/9/2023	1.66
FSSA Dividend Advantage A Qdis	Higher Risk	Asia	31/12/2022	1.64
LionGlobal Asia Pacific SGD	Higher Risk	Asia	31/12/2022	1.55
Schroder ISF Sust Asn Eq F Acc SGD	Higher Risk	Asia	31/12/2022	1.69
<b>EAA Asia-Pacific ex-Japan Equity Income</b>				
Schroder Asian Equity Yield A	Higher Risk	Asia	31/12/2022	1.74
<b>EAA Asia Allocation</b>				
First Sentier Bridge Fund A (H Dist)	Medium to High Risk	Asia	31/12/2022	1.39
PineBridge Acorns of Asia Balanced	Medium to High Risk	Asia	31/12/2022	1.51
<b>EAA Asia Bond</b>				
Manulife Asia Pacific Invmt Grd Bd A	Low to Medium Risk	Asia	31/12/2022	0.89
Nikko AM Shenton Short Term Bd(\$\$)SGD	Low to Medium Risk	Broadly Diversified	30/6/2023	0.41
Schroder Asian Invmt Grd Crdt SGD A Dis	Low to Medium Risk	Asia	31/12/2022	0.88
<b>EAA Asia ex-Japan Equity</b>				
Fidelity Asian Special Sits SR-Acc-SGD	Higher Risk	Asia	30/4/2023	1.73
Fidelity Sustainable Asia Eq SR-Acc-SGD	Higher Risk	Asia	30/4/2023	1.72
FSSA Asian Growth A Acc	Higher Risk	Asia	31/12/2022	1.74
JPM Asia Growth CPF (acc) SGD	Higher Risk	Asia	30/6/2023	1.75
Schroder Asian Growth SGD A Dis	Higher Risk	Asia	31/12/2022	1.33
<b>EAA Asia ex-Japan Small/Mid-Cap Equity</b>				
abrdn Asian Sm Co SGD	Higher Risk	Asia	30/9/2023	1.75
PineBridge Asia exJapan SmCap Eq A5CP	Higher Risk	Asia	31/12/2022	1.70
<b>EAA China Equity</b>				
abrdn SP All China Sust Eq SGD	Higher Risk	Greater China	30/9/2023	1.75

Allianz All China Equity ET SGD	Higher Risk	Greater China	30/9/2023	1.56
Fidelity China Focus SR-Acc-SGD	Higher Risk	Greater China	30/4/2023	1.71
JPM China CPF (acc) SGD	Higher Risk	Greater China	30/6/2023	1.75
Schroder China Opportunities	Higher Risk	Greater China	31/12/2022	1.66
<b>EAA China Equity—A Shares</b>				
Allianz China A Shares PT USD	Higher Risk	Greater China	30/9/2023	1.33
<b>EAA Europe Large-Cap Blend Equity</b>				
Eastspring Inv UT Pan European	Higher Risk	Europe	31/12/2022	1.75
Fidelity European Growth SR-Acc-SGD	Higher Risk	Europe	30/4/2023	1.69
<b>EAA Europe Large-Cap Growth Equity</b>				
abrdrn European Sustainable Equity SGD	Higher Risk	Europe	30/9/2023	1.75
<b>EAA Global Emerging Markets Equity</b>				
abrdrn Gbl Emerg Mkt SGD	Higher Risk	Emerging Markets	30/9/2023	1.75
Fidelity Em Mkts SR-Acc-SGD	Higher Risk	Emerging Markets	30/4/2023	1.72
Schroder Global Emerging Market Opps	Higher Risk	Emerging Markets	31/12/2022	1.58
<b>EAA Global Equity Income</b>				
Allianz Global High Payout SGD	Higher Risk	Broadly Diversified	31/12/2022	1.59
Fidelity Global Dividend SR-Acc-SGD	Higher Risk	Broadly Diversified	30/4/2023	1.69
<b>EAA Global Large-Cap Blend Equity</b>				
Amundi Idx MSCI World A12S-C	Higher Risk	Broadly Diversified	30/9/2022	0.17
Infinity Global Stock Index SGD	Higher Risk	Broadly Diversified	31/12/2022	0.71
<b>EAA Global Large-Cap Growth Equity</b>				
Allianz Global Equity Growth ET SGD	Higher Risk	Broadly Diversified	30/9/2023	1.72
Capital Group New Economy (LUX) Z	Higher Risk	Broadly Diversified	31/12/2022	0.90
Nikko AM Shenton Global Opportunities	Higher Risk	Broadly Diversified	31/12/2022	1.45
Schroder ISF Glb Disruption F Acc SGD	Higher Risk	Broadly Diversified	31/12/2022	1.55
Schroder ISF Gbl Sust Gr F Acc SGD	Higher Risk	Broadly Diversified	31/12/2022	1.49
United Global Quality Growth C SGDAcc H	Higher Risk	Broadly Diversified	31/12/2022	1.27
<b>EAA Global Large-Cap Value Equity</b>				
Harris Associates Global Eq P/A SGD	Higher Risk	Broadly Diversified	31/12/2022	1.75
<b>EAA Greater China Equity</b>				
Fidelity Greater China SR-Acc-SGD	Higher Risk	Greater China	30/4/2023	1.73
FSSA Regional China A Acc	Higher Risk	Greater China	31/12/2022	1.68
Schroder ISF Greater China F Acc SGD	Higher Risk	Greater China	31/12/2022	1.70
<b>EAA India Equity</b>				
abrdrn India Opportunities SGD	Higher Risk	India	30/9/2023	1.75
Franklin India AS(acc)SGD	Higher Risk	India	30/6/2023	1.74
PineBridge India Equity A5CP	Higher Risk	India	31/12/2022	1.77
Schroder ISF Indian Opports F Acc SGD	Higher Risk	Country - Others	31/12/2022	1.73
<b>EAA Islamic Global Equity</b>				
Templeton Shariah Global Eq AS Acc SGD	Higher Risk	Broadly Diversified	31/10/2022	1.75

<b>EAA Japan Large-Cap Equity</b>				
LionGlobal Japan Growth SGD	Higher Risk	Japan	31/12/2022	1.55
Nikko AM Shenton Japan SGD	Higher Risk	Japan	31/12/2022	1.13
<b>EAA Other Bond</b>				
Amundi IS-Amundi Glb Agg Bd A12HS-C	Low to Medium Risk	Broadly Diversified	30/9/2022	0.08
Franklin Templeton WA Glbl Bd A SGD Acc	Low to Medium Risk	Broadly Diversified	31/3/2023	0.90
Schroder Global Quality Bond SGD H F Acc	Low to Medium Risk	Broadly Diversified	31/12/2022	0.70
<b>EAA Other Equity</b>				
Allianz Best Styles Global Eq ET H2 SGD	Higher Risk	Broadly Diversified	30/9/2023	1.35
Allianz Global Artfcl Intlgc ET H2 SGD	Higher Risk	Sector - Others	30/9/2023	1.70
Capital Group New Pers (LUX) Zh-SGD	Higher Risk	Broadly Diversified	31/12/2022	0.84
Eastspring Inv Japan Dynamic AS (hdg)	Higher Risk	Japan	31/12/2022	1.75
Harris Associates US Value Eq H P/A SGD	Higher Risk	USA	31/12/2022	1.75
Loomis Sayles US Growth Eq H-P/A SGD	Higher Risk	USA	31/12/2022	1.75
Nikko AM Japan Dividend Equity SGD Hdg	Higher Risk	Japan	31/12/2022	1.71
<b>EAA SGD Bond</b>				
Eastspring Inv UT Singapore Select Bd AD	Low to Medium Risk	Singapore	31/12/2022	0.61
LionGlobal SGP Fix Inc Invmt A	Low to Medium Risk	Singapore	30/6/2023	0.60
LionGlobal Short Duration Bd A SGD Dist	Low to Medium Risk	Asia	30/6/2023	0.57
Manulife Singapore Bond A	Low to Medium Risk	Singapore	31/12/2022	0.92
PineBridge Singapore Bond	Low to Medium Risk	Singapore	31/12/2022	0.90
Schroder Singapore Fixed Income A Acc	Low to Medium Risk	Singapore	30/6/2023	0.67
United SGD A (Acc) SGD	Low to Medium Risk	Asia	31/12/2022	0.64
United Singapore Bond Fund A SGD Acc	Low to Medium Risk	Singapore	30/6/2023	0.77
<b>EAA Singapore Equity</b>				
abrdn Singapore Eq SGD	Higher Risk	Singapore	30/9/2023	1.59
Nikko AM Shenton Thrift	Higher Risk	Singapore	31/12/2022	0.84
Schroder Singapore Trust SGD A Dis	Higher Risk	Singapore	31/12/2022	1.33
<b>EAA US Large-Cap Blend Equity</b>				
Amundi IS Prime USA AS	Higher Risk	USA	30/9/2022	0.05
Infinity US 500 Stock Index SGD	Higher Risk	USA	31/12/2022	0.60
PineBridge US Large Cap RsrchEnh A5CP	Higher Risk	USA	31/12/2022	1.75
<b>EAA US Large-Cap Growth Equity</b>				
Franklin US Opportunities AS(acc)SGD	Higher Risk	USA	30/6/2023	1.71
<b>EAA US Large-Cap Value Equity</b>				
Fidelity America SR-Acc-USD	Higher Risk	USA	30/4/2023	1.69
<b>EAA USD Moderate Allocation</b>				
Schroder Multi-Asset Revolution A	Medium to High Risk	Broadly Diversified	31/12/2022	1.49

Source: Morningstar Direct.

**Exhibit 20** List B Funds

No new CPF monies/Fund(s) closed to new subscriptions.

Group/Investment	CPF Classification	CPF Focus	Annual Report Date	Annual Report Net Expense Ratio
<b>EAA Asia ex-Japan Equity</b>				
Templeton Asian Growth A(acc)SGD	Higher Risk	Asia	30/6/2023	2.19
<b>EAA China Equity</b>				
Templeton China A(acc)SGD	Higher Risk	Greater China	30/6/2023	2.46
<b>EAA Global Emerging Markets Equity</b>				
Templeton Emerging Markets A(acc)SGD	Higher Risk	Emerging Markets	30/6/2023	2.00
<b>EAA Global Large-Cap Blend Equity</b>				
Manulife GF Global Equity AA	Higher Risk	Broadly Diversified	30/6/2023	1.65
<b>EAA Other Equity</b>				
Allianz Europe Equity Growth AT H2 SGD	Higher Risk	Europe	30/9/2023	1.85
Eastspring Inv UT Dragon Peacock A	Higher Risk	Country—Others	31/12/2022	1.60
LionGlobal Singapore/Malaysia SGD	Higher Risk	Country—Others	31/12/2022	1.50
<b>EAA Sector Equity Biotechnology</b>				
Franklin Biotechnology Discv A(acc)SGD	Higher Risk	Biotechnology	30/6/2023	1.82
<b>EAA Sector Equity Healthcare</b>				
AB Intl Health Care A SGD	Higher Risk	Healthcare	31/5/2023	1.96
United Global Healthcare SGD Acc	Higher Risk	Healthcare	31/12/2022	1.99
<b>EAA Thailand Equity</b>				
LionGlobal Thailand SGD	Higher Risk	Country—Others	30/6/2023	1.86

Source: Morningstar Direct.

**6.1.2 Complete List of CPFIS-Included ILPs****List A Funds**

List A—Funds that have met all new admission criteria: i) The revised benchmark set at the top 25 percentile of funds in their global peer group; ii) The expense ratio is not higher than that set by the CPF Board by the respective risk class. The expense ratio criteria also applies to existing funds from Jan. 1, 2008, onward; iii) A 0% sales charge; iv) New funds applying for inclusion under CPFIS should preferably have a track record of good performance for at least three years.

**Exhibit 21** List A ILP Funds

Group/Investment	CPF Classification	CPF Focus	Annual Report Date	Annual Report Net Expense Ratio
<b>EAA Insurance Asia-Pacific ex-Japan Equity</b>				
AIA Regional Equity	Higher Risk	Asia	31/12/2022	1.64
GreatLink Asia Pacific Equity	Higher Risk	Asia	31/12/2022	1.64
HSBC Insurance Pacific Equity	Higher Risk	Asia	30/6/2022	1.71
HSBC Life Asian Growth	Higher Risk	Asia	31/12/2022	1.65

HSBC Life Pacific Equity Fund	Higher Risk	Asia	31/12/2022	1.75
Manulife Asian Small Cap Equity	Higher Risk	Asia	31/12/2022	1.73
Manulife Dividend Advantage	Higher Risk	Asia	31/12/2022	1.68
Manulife Pacific Equity	Higher Risk	Asia	31/12/2022	1.74
TMLS Asian Equity Plus	Higher Risk	Asia	31/12/2022	1.67
<b>EAA Insurance Asia Allocation</b>				
AIA Acorns of Asia	Medium to High Risk	Asia	31/12/2022	1.53
AIA Greater China Bal	Medium to High Risk	Greater China	31/12/2022	1.55
AIA Growth	Medium to High Risk	Singapore	31/12/2022	1.28
AIA India Balanced	Medium to High Risk	Country - Others	31/12/2022	1.55
AIA Japan Balanced	Medium to High Risk	Country - Others	31/12/2022	1.55
GreatLink Lion Asian Balanced	Medium to High Risk	Asia	31/12/2022	1.45
HSBC Life Asian Balanced	Medium to High Risk	Asia	31/12/2022	1.55
HSBC Life Singapore Balanced Fund	Medium to High Risk	Singapore	31/12/2022	1.55
Income Asia Managed	Medium to High Risk	Asia	31/12/2022	1.26
Manulife Income Series - Asian Bal Cl A	Medium to High Risk	Asia	31/12/2022	1.52
PruLink Asian Income & Growth Acc	Medium to High Risk	Asia	31/12/2022	1.45
PruLink Singapore ASEAN Managed	Medium to High Risk	Asia	31/12/2022	1.49
<b>EAA Insurance Asia Bond</b>				
Manulife Inc Ser - Asia Pac Invmt GrdBdA	Low to Medium Risk	Asia	31/12/2022	0.92
TMLS Global Bond	Low to Medium Risk	Broadly Diversified	31/12/2022	0.86
<b>EAA Insurance Asia ex-Japan Equity</b>				
Income Asian Equity	Higher Risk	Asia	31/12/2022	1.62
Manulife Golden Asia Fund	Higher Risk	Asia	31/12/2022	1.49
Manulife Golden Asia Growth	Higher Risk	Asia	31/12/2022	1.68
<b>EAA Insurance China Equity</b>				
Manulife Golden Reg. China	Higher Risk	Greater China	31/12/2022	1.72
TMLS China Equity	Higher Risk	Greater China	31/12/2022	1.73
<b>EAA Insurance Europe Flex-Cap Equity</b>				
PruLink Pan European	Higher Risk	Europe	31/12/2022	1.75
<b>EAA Insurance Europe Large-Cap Blend Equity</b>				
GreatLink European Sus & Res Inv Eq	Higher Risk	Europe	31/12/2022	1.62
<b>EAA Insurance Europe Large-Cap Growth Equity</b>				
Manulife European Equity	Higher Risk	Europe	31/12/2022	1.69
<b>EAA Insurance Global Bond—USD Biased</b>				
AIA Global Bond	Low to Medium Risk	Broadly Diversified	31/12/2022	0.95
GreatLink Global Bond	Low to Medium Risk	Broadly Diversified	31/12/2022	0.89
HSBC Insurance Global Bond	Low to Medium Risk	Broadly Diversified	30/6/2022	0.94
HSBC Life Global Defensive Fund	Low to Medium Risk	Broadly Diversified	31/12/2022	0.95
Income Global Bond	Low to Medium Risk	Broadly Diversified	31/12/2022	0.91
Manulife Golden Intl Bond	Low to Medium Risk	Broadly Diversified	31/12/2022	0.91

PruLink Global Bond	Low to Medium Risk	Broadly Diversified	31/12/2022	0.77
<b>EAA Insurance Global Emerging Markets Equity</b>				
AIA Emerg Mkts Equity	Higher Risk	Emerging Markets	31/12/2022	1.75
GreatLink Global Emerging Markets Equity	Higher Risk	Emerging Markets	31/12/2022	1.67
HSBC Life Global Emerging Markets Eq Fd	Higher Risk	Emerging Markets	31/12/2022	1.75
Manulife Global Emerg Mkts	Higher Risk	Emerging Markets	31/12/2022	1.74
PruLink Emerging Markets	Higher Risk	Emerging Markets	31/12/2022	1.75
TMLS Global Emerging Markets Equity	Higher Risk	Emerging Markets	31/12/2022	1.73
<b>EAA Insurance Global Equity Income</b>				
PruLink Global Equity	Higher Risk	Broadly Diversified	31/12/2022	1.68
<b>EAA Insurance Global Large-Cap Blend Equity</b>				
AIA Portfolio 100	Higher Risk	Broadly Diversified	31/12/2022	1.73
GreatLink Global Equity Alpha	Higher Risk	Broadly Diversified	31/12/2022	1.67
GreatLink LifeStyle Dyna	Higher Risk	Broadly Diversified	31/12/2022	1.62
HSBC Life Global Equity Blend Fund	Higher Risk	Broadly Diversified	31/12/2022	1.75
Income Global Equity	Higher Risk	Broadly Diversified	31/12/2022	1.28
<b>EAA Insurance Global Large-Cap Growth Equity</b>				
HSBC Life Global High Growth Fd	Higher Risk	Broadly Diversified	31/12/2022	1.75
<b>EAA Insurance Global Large-Cap Value Equity</b>				
GreatLink Global Perspective	Higher Risk	Broadly Diversified	31/12/2022	1.66
<b>EAA Insurance Greater China Equity</b>				
AIA Greater China Equity	Higher Risk	Greater China	31/12/2022	1.74
GreatLink China Growth	Higher Risk	Greater China	31/12/2022	1.67
HSBC Life China Growth Fund	Higher Risk	Greater China	31/12/2022	1.75
PruLink Greater China	Higher Risk	Greater China	31/12/2022	1.69
<b>EAA Insurance India Equity</b>				
AIA India Opportunities	Higher Risk	India	31/12/2022	1.75
HSBC Life India Fund	Higher Risk	India	31/12/2022	1.75
Manulife India Equity	Higher Risk	India	31/12/2022	1.74
PruLink India Equity	Higher Risk	India	31/12/2022	1.73
TMLS India Equity Fund	Higher Risk	India	31/12/2022	1.73
<b>EAA Insurance Islamic Equity—Other</b>				
HSBC Insurance Ethical Global Equity	Higher Risk	Broadly Diversified	30/6/2022	1.74
<b>EAA Insurance Islamic Global Equity</b>				
HSBC Life Shariah Global Equity	Higher Risk	Broadly Diversified	31/12/2022	1.75
<b>EAA Insurance Japan Large-Cap Equity</b>				
AIA Japan Equity	Higher Risk	Japan	31/12/2022	1.66
GreatLink Lion Japan Growth	Higher Risk	Japan	31/12/2022	1.67
Manulife Japan Growth	Higher Risk	Japan	31/12/2022	1.67
<b>EAA Insurance Other Allocation</b>				
Income Global Diverse Series - Advnturs	Higher Risk	Broadly Diversified	31/12/2022	1.57

Income Global Diverse Series - Balanced	Medium to High Risk	Broadly Diversified	31/12/2022	1.37
Income Global Diverse Series - Managed	Medium to High Risk	Broadly Diversified	31/12/2022	1.22
<b>EAA Insurance Other Bond</b>				
Income Asian Bond	Low to Medium Risk	Asia	31/12/2022	0.93
<b>EAA Insurance Property—Indirect Global</b>				
GreatLink Global Real Estate Secs Fd	Higher Risk	Sector - Others	31/12/2022	1.66
<b>EAA Insurance Sector Equity Technology</b>				
AIA Global Technology	Higher Risk	Technology	31/12/2022	1.75
GreatLink Global Tech	Higher Risk	Technology	31/12/2022	1.67
Income Global Technology	Higher Risk	Technology	31/12/2022	1.33
<b>EAA Insurance SGD Bond</b>				
AIA Regional Fixed Income	Low to Medium Risk	Singapore	31/12/2022	0.87
GreatLink Short Duration Bond	Low to Medium Risk	Asia	31/12/2022	0.58
HSBC Life Short Duration Bond	Low to Medium Risk	Broadly Diversified	31/12/2022	0.95
HSBC Life Singapore Bond Fund	Low to Medium Risk	Singapore	31/12/2022	0.95
Manulife Singapore Bond	Low to Medium Risk	Singapore	31/12/2022	0.95
PruLink Singapore Dynamic Bond	Low to Medium Risk	Singapore	31/12/2022	0.61
TMLS Singapore Bond	Low to Medium Risk	Singapore	31/12/2022	0.83
<b>EAA Insurance Singapore Equity</b>				
GreatLink Singapore Eq	Higher Risk	Singapore	31/12/2022	1.61
HSBC Life Fortress Fund	Higher Risk	Singapore	31/12/2022	1.60
HSBC Life Singapore Equity Fund	Higher Risk	Singapore	31/12/2022	1.75
Manulife Golden SG Growth	Higher Risk	Singapore	31/12/2022	1.73
PruLink Singapore Growth Fund	Higher Risk	Singapore	31/12/2022	1.39
TMLS Singapore Equity	Higher Risk	Singapore	31/12/2022	1.66
<b>EAA Insurance Target Date 2021—2025</b>				
PruLink Adapt 2025	Medium to High Risk	Broadly Diversified	31/12/2022	1.54
<b>EAA Insurance Target Date 2031—2035</b>				
PruLink Adapt 2035	Medium to High Risk	Broadly Diversified	31/12/2022	1.53
<b>EAA Insurance US Large-Cap Growth Equity</b>				
PruLink America	Higher Risk	USA	31/12/2022	1.72
<b>EAA Insurance USD Aggressive Allocation</b>				
AIA Portfolio 70	Medium to High Risk	Broadly Diversified	31/12/2022	1.55
GreatLink LifeStyle Bal	Medium to High Risk	Broadly Diversified	31/12/2022	1.34
GreatLink LifeStyle Prog	Higher Risk	Broadly Diversified	31/12/2022	1.50
HSBC Life Global Growth Fund	Medium to High Risk	Broadly Diversified	31/12/2022	1.55
TMLS Multi-Asset 70	Medium to High Risk	Broadly Diversified	31/12/2022	1.53
TMLS Multi-Asset 90	Higher Risk	Broadly Diversified	31/12/2022	1.73
<b>EAA Insurance USD Cautious Allocation</b>				
AIA Portfolio 30	Low to Medium Risk	Broadly Diversified	31/12/2022	0.95
GreatLink LifeStyle Secure	Low to Medium Risk	Broadly Diversified	31/12/2022	0.87



GreatLink LifeStyle Steady	Medium to High Risk	Broadly Diversified	31/12/2022	1.17
HSBC Life Global Secure Fund	Low to Medium Risk	Broadly Diversified	31/12/2022	0.95
TMLS Multi-Asset 30	Medium to High Risk	Broadly Diversified	31/12/2022	1.53
<b>EAA Insurance USD Moderate Allocation</b>				
AIA Emerg Mkts Balanced	Medium to High Risk	Others	31/12/2022	1.55
AIA Global Balanced	Medium to High Risk	Broadly Diversified	31/12/2022	1.55
AIA Portfolio 50	Medium to High Risk	Broadly Diversified	31/12/2022	1.55
GreatLink Global Supreme	Medium to High Risk	Broadly Diversified	31/12/2022	1.40
HSBC Life Global Balanced Fund	Medium to High Risk	Broadly Diversified	31/12/2022	1.55
Manulife Golden Bal Growth	Medium to High Risk	Singapore	31/12/2022	1.33
PruLink Global Managed	Medium to High Risk	Broadly Diversified	31/12/2022	1.54
Singlife Schroder Multi Asset Revolution	Medium to High Risk	Broadly Diversified	30/6/2022	1.39
TMLS Multi-Asset 50	Medium to High Risk	Broadly Diversified	31/12/2022	1.53

Source: Morningstar Direct.

## Exhibit 22 List B Funds

No new CPF monies/Fund(s) closed to new subscriptions.

Group/Investment	CPF Classification	CPF Focus	Annual Report Date	Annual Report Net Expense Ratio
<b>EAA Insurance Asia-Pacific ex-Japan Equity</b>				
PruLink Asian Equity	Higher Risk	Asia	31/12/2022	1.53
Singlife Aberdeen Pacific Equity (SP)	Higher Risk	Asia	30/6/2022	2.94
Singlife Capital Growth—SP	Higher Risk	Asia	30/6/2022	2.24
Singlife MM Capital Growth	Higher Risk	Asia	30/6/2022	1.34
<b>EAA Insurance Asia Allocation</b>				
PruLink Asian American Managed	Medium to High Risk	Asia	31/12/2022	1.49
PruLink Singapore Asian Managed Fund	Medium to High Risk	Asia	31/12/2022	1.37
Singlife Balanced Growth—SP	Medium to High Risk	Asia	30/6/2022	2.21
Singlife Income Growth—SP	Medium to High Risk	Asia	30/6/2022	2.18
Singlife MM Balanced Growth	Medium to High Risk	Asia	30/6/2022	1.31
Singlife MM Income Growth	Medium to High Risk	Asia	30/6/2022	1.28
<b>EAA Insurance Asia Bond</b>				
Singlife Nikko AM Shenton Short Term Bd SP	Low to Medium Risk	Broadly Diversified	30/6/2022	2.08
<b>EAA Insurance Global Bond—EUR Biased</b>				
Singlife FTempleton WA Gbl Bond Tr (SP)	Low to Medium Risk	Broadly Diversified	30/6/2022	2.38
<b>EAA Insurance Global Large-Cap Blend Equity</b>				
Manulife Lifestyle Aggressive	Higher Risk	Broadly Diversified	31/12/2022	1.60
Manulife Lifestyle Growth	Higher Risk	Broadly Diversified	31/12/2022	1.57
<b>EAA Insurance Global Large-Cap Growth Equity</b>				
Manulife Golden Worldwide Eq	Higher Risk	Broadly Diversified	31/12/2022	1.71
<b>EAA Insurance Islamic Equity—Other</b>				
Income Takaful	Higher Risk	Broadly Diversified	31/12/2022	1.26

<b>EAA Insurance Japan Large-Cap Equity</b>				
Singlife LionGlobal Japan Growth—SP	Higher Risk	Japan	30/6/2022	2.76
<b>EAA Insurance Money Market—Other</b>				
AIA SGD Money Market	Lower Risk	Singapore	31/12/2022	0.31
Greatlink Cash	Lower Risk	Broadly Diversified	31/12/2022	0.32
PruLink Singapore Cash	Lower Risk	Singapore	31/12/2022	0.32
<b>EAA Insurance Other Equity</b>				
PruLink China-India	Higher Risk	Country—Others	31/12/2022	1.64
<b>EAA Insurance Property—Indirect Global</b>				
PruLink Global Property Securities	Higher Risk	Sector—Others	31/12/2022	2.15
<b>EAA Insurance Sector Equity Healthcare</b>				
AIA International Health Care Fund	Higher Risk	Healthcare	31/12/2022	1.93
<b>EAA Insurance USD Cautious Allocation</b>				
Manulife Lifestyle Conservative	Low to Medium Risk	Asia	31/12/2022	0.77
<b>EAA Insurance USD Moderate Allocation</b>				
Manulife Golden Gbl Balanced	Medium to High Risk	Broadly Diversified	31/12/2022	1.52
Manulife Lifestyle Moderate	Medium to High Risk	Broadly Diversified	31/12/2022	1.39
Manulife Lifestyle Secure	Medium to High Risk	Broadly Diversified	31/12/2022	1.32

Source: Morningstar Direct.

## 7. Mapping of Morningstar Fund Name to CPF Name

### Complete List of CPFIS UTs

#### Exhibit 23 List of UT Funds

List of UTs as at 31 Dec 2023 (List A & List B) according to Risk Classification Table:	Morningstar Name	List A or B
abrdrn All China Sustainable Equity Fund	abrdrn SP All China Sust Eq SGD	List A
abrdrn Asian Smaller Companies Fund	abrdrn Asian Sm Co SGD	List A
abrdrn European Sustainable Equity Fund	abrdrn European Sustainable Equity SGD	List A
abrdrn Global Emerging Markets Fund	abrdrn Gbl Emerg Mkt SGD	List A
abrdrn India Opportunities Fund	abrdrn India Opportunities SGD	List A
abrdrn Pacific Equity Fund	abrdrn Pacific Eq SGD	List A
abrdrn Singapore Equity Fund	abrdrn Singapore Eq SGD	List A
Allianz All China Equity ET (SGD)	Allianz All China Equity ET SGD	List A
Allianz Best Styles Global Equity Class ET (H2-SGD)	Allianz Best Styles Global Eq ET H2 SGD	List A
Allianz China A-Shares - Class PT (USD)	Allianz China A Shares PT USD	List A
Allianz Global Artificial Intelligence	Allianz Global Artfcl Intlgc ET H2 SGD	List A
Allianz Global Equity Growth ET (SGD)	Allianz Global Equity Growth ET SGD	List A
Allianz Global Investors Premier Funds - Allianz Global High Payout Fund - SGD	Allianz Global High Payout SGD	List A
Allianz Oriental Income ET (SGD)	Allianz Oriental Income ET SGD	List A
Amundi Index Global Agg 500M - A12HS ©	Amundi IS Gbl AGG 500M A12HS-C	List A
Amundi Index MSCI World - A12S (C)	Amundi Idx MSCI World A12S-C	List A
Amundi Prime USA - AS (C)	Amundi IS Prime USA AS	List A
Capital Group New Economy Fund (LUX)	Capital Group New Economy (LUX) Z	List A
Capital Group New Perspective Fund (LUX)	Capital Group New Pers (LUX) Zh-SGD	List A
Eastspring Investments - Japan Dynamic Fund Class As (hedged)	Eastspring Inv Japan Dynamic AS (hdg)	List A
Eastspring Investments Unit Trusts - Pan European Fund	Eastspring Inv UT Pan European	List A
Eastspring Investments Unit Trusts - Singapore ASEAN Equity Fund	Eastspring Inv UT Singapore Asean Equity	List A
Eastspring Investments Unit Trusts - Singapore Select Bond Fund Class AD	Eastspring Inv UT Singapore Select Bd AD	List A
Fidelity Funds - America Fund SR-ACC-USD	Fidelity America SR-Acc-USD	List A
Fidelity Funds - Asian Special Situations Fund SR-ACC-SGD	Fidelity Asian Special Sits SR-Acc-SGD	List A
Fidelity Funds - China Focus Fund SR-ACC-SGD	Fidelity China Focus SR-Acc-SGD	List A
Fidelity Funds - Emerging Markets Fund SR-ACC-SGD	Fidelity Em Mkts SR-Acc-SGD	List A
Fidelity Funds - European Growth Fund SR-ACC-SGD	Fidelity European Growth SR-Acc-SGD	List A
Fidelity Funds - Global Dividend Fund SR-ACC-SGD	Fidelity Global Dividend SR-Acc-SGD	List A
Fidelity Funds - Greater China Fund SR-ACC-SGD	Fidelity Greater China SR-Acc-SGD	List A
Fidelity Funds - Sustainable Asia Equity Fund SR-ACC-SGD	Fidelity Sustainable Asia Eq SR-Acc-SGD	List A
First Sentier Bridge Fund - Class A (Semi-Annually Distributing)	First Sentier Bridge Fund A (H Dist)	List A
Franklin Templeton Investment Funds - Franklin India Fund AS (Acc) SGD	Franklin India AS(acc)SGD	List A
Franklin Templeton Investment Funds - Franklin U.S. Opportunities Fund AS (Acc) SGD	Franklin US Opportunities AS(acc)SGD	List A

Franklin Templeton Shariah Funds - Templeton Shariah Global Equity Fund AS (Acc) SGD	Templeton Shariah Global Eq AS Acc SGD	List A
Franklin Templeton Western Asset Global Bond Trust (Class A (SGD) Accumulating)	Franklin Templeton WA Gbl Bd A SGD Acc	List A
FSSA Asian Growth Fund	FSSA Asian Growth A Acc	List A
FSSA Dividend Advantage Fund - Class A (Quarterly Distributing)	FSSA Dividend Advantage A Qdis	List A
FSSA Regional China Fund	FSSA Regional China A Acc	List A
Infinity Investment Series - Infinity Global Stock Index Fund (SGD Class)	Infinity Global Stock Index SGD	List A
Infinity Investment Series - Infinity U.S. 500 Stock Index Fund (SGD Class)	Infinity US 500 Stock Index SGD	List A
JPMorgan Funds – ASEAN Equity Fund CPF (acc) SGD	JPM ASEAN Equity CPF (acc) SGD	List A
JPMorgan Funds – Asia Growth Fund CPF (acc) SGD	JPM Asia Growth CPF (acc) SGD	List A
JPMorgan Funds – China Fund CPF (acc) SGD	JPM China CPF (acc) SGD	List A
LionGlobal Asia Pacific Fund – SGD Class Units	LionGlobal Asia Pacific SGD	List A
LionGlobal Japan Growth Fund (SGD)	LionGlobal Japan Growth SGD Class A	List A
LionGlobal Short Duration Bond Fund Class A (SGD) (Dist)	LionGlobal Short Duration Bd A SGD Dist	List A
LionGlobal TEAM - Singapore Fixed Income Investment (Class A)	LionGlobal SGP Fix Inc Invmt A	List A
Manulife Asia Pacific Investment Grade Bond Fund (Class A)	Manulife Asia Pacific Invmt Grd Bd A	List A
Manulife Singapore Bond Fund (Class A)	Manulife Singapore Bond A	List A
Natixis International Funds (LUX) I - Harris Associates Global Equity Fund P/A (SGD)	Harris Associates Global Eq P/A SGD	List A
Natixis International Funds (LUX) I - Harris Associates U.S. Value Equity Fund H P/A (SGD)	Harris Associates US Value Eq H P/A SGD	List A
Natixis International Funds (LUX) I - Loomis Sayles U.S. Growth Equity Fund H-P/A (SGD)	Loomis Sayles US Growth Eq H-P/A SGD	List A
Nikko AM Japan Dividend Equity Fund - SGD Hedged Class Units	Nikko AM Japan Dividend Equity SGD Hdg	List A
Nikko AM Shenton Global Opportunities Fund SGD Class	Nikko AM Shenton Global Opportunities	List A
Nikko AM Shenton Japan Fund (S\$) Class	Nikko AM Shenton Japan SGD	List A
Nikko AM Shenton Short Term Bond Funds - Nikko AM Shenton Short Term Bond Fund (S\$) Class	Nikko AM Shenton Short Term Bd(S\$)SGD	List A
Nikko AM Shenton Thrift Fund	Nikko AM Shenton Thrift	List A
PineBridge Asia Ex Japan Small Cap Equity Fund - Class A5CP	PineBridge Asia exJapan SmCap Eq A5CP	List A
PineBridge India Equity Fund - Class A5CP	PineBridge India Equity A5CP	List A
Pinebridge International Funds - Acorns of Asia Balanced Fund	PineBridge Acorns of Asia Balanced	List A
PineBridge International Funds - Singapore Bond Fund	PineBridge Singapore Bond	List A
PineBridge US Large Cap Research Enhanced Fund - Class A5CP	PineBridge US Large Cap RsrchEnh A5CP	List A
Schroder Asian Equity Yield Fund SGD Class A	Schroder Asian Equity Yield A	List A
Schroder Asian Growth Fund Class SGD A Dis	Schroder Asian Growth SGD A Dis	List A
Schroder Asian Investment Grade Credit Class A SGD	Schroder Asian Invmt Grd Crdt SGD A Dis	List A
Schroder China Opportunities Fund	Schroder China Opportunities	List A
Schroder Global Emerging Market Opportunities Fund	Schroder Global Emerging Market Opps	List A
Schroder Global Quality Bond Class SGD Hedged F Acc	Schroder Global Quality Bond SGD H F Acc	List A
Schroder International Selection Fund - Global Disruption SGD F Acc	Schroder ISF Gbl Disruption F Acc SGD	List A
Schroder International Selection Fund - Global Sustainable Growth SGD F Acc	Schroder ISF Gbl Sust Gr F Acc SGD	List A
Schroder International Selection Fund - Greater China SGD F Acc	Schroder ISF Greater China F Acc SGD	List A

Schroder International Selection Fund - Indian Opportunities SGD F Acc	Schroder ISF Indian Opports F Acc SGD	List A
Schroder International Selection Fund - Sustainable Asian Equity SGD F Acc	Schroder ISF Sust Asn Eq F Acc SGD	List A
Schroder Multi-Asset Revolution Class A	Schroder Multi-Asset Revolution A	List A
Schroder Singapore Fixed Income Fund Class A	Schroder Singapore Fixed Income A Acc	List A
Schroder Singapore Trust SGD A Dis	Schroder Singapore Trust SGD A Dis	List A
United Global Quality Growth Fund - Class C SGD Acc (Hedged)	United Global Quality Growth C SGDAcc H	List A
United SGD Fund - Class A (ACC) SGD	United SGD A (Acc) SGD	List A
United Singapore Bond Fund Class A SGD Acc	United Singapore Bond Fund A SGD Acc	List A
AB SICAV I-International Health Care Portfolio (Class A)-SGD	AB Intl Health Care A SGD	List B
Allianz Europe Equity Growth - Class AT (H2-SGD)	Allianz Europe Equity Growth AT H2 SGD	List B
Eastspring Investments Unit Trusts - Dragon Peacock Fund Class A	Eastspring Inv UT Dragon Peacock A	List B
Franklin Templeton Investment Funds - Franklin Biotechnology Discovery Fund A(acc)SGD	Franklin Biotechnology Discv A(acc)SGD	List B
Franklin Templeton Investment Funds - Templeton Asian Growth Fund A(acc)SGD	Templeton Asian Growth A(acc)SGD	List B
Franklin Templeton Investment Funds - Templeton China Fund A(acc)SGD	Templeton China A(acc)SGD	List B
Franklin Templeton Investment Funds - Templeton Emerging Markets Fund A(acc)SGD	Templeton Emerging Markets A(acc)SGD	List B
LionGlobal Singapore / Malaysia Fund (SGD)	LionGlobal Singapore/Malaysia SGD	List B
LionGlobal Thailand Fund (SGD)	LionGlobal Thailand SGD	List B
Manulife Global Fund - Global Equity Fund	Manulife GF Global Equity AA	List B
United Global Healthcare Fund	United Global Healthcare SGD Acc	List B

Source: Morningstar Direct.

## Complete List of CPFIS ILPs

### Exhibit 24 List of ILPs

List of ILPs as of 31 Dec 2023 (List A & List B) according to Risk Classification Table:	Morningstar Name	List A or B
AIA Acorns of Asia Fund	AIA Acorns of Asia	List A
AIA Emerging Markets Balanced Fund	AIA Emerg Mkts Balanced	List A
AIA Emerging Markets Equity Fund	AIA Emerg Mkts Equity	List A
AIA Global Balanced Fund	AIA Global Balanced	List A
AIA Global Bond Fund	AIA Global Bond	List A
AIA Global Technology Fund	AIA Global Technology	List A
AIA Greater China Balanced Fund	AIA Greater China Bal	List A
AIA Greater China Equity Fund	AIA Greater China Equity	List A
AIA Growth Fund	AIA Growth	List A
AIA India Balanced Fund	AIA India Balanced	List A
AIA India Opportunities Fund	AIA India Opportunities	List A
AIA Japan Balanced Fund	AIA Japan Balanced	List A
AIA Japan Equity Fund	AIA Japan Equity	List A
AIA Portfolio 100	AIA Portfolio 100	List A

AIA Portfolio 30	AIA Portfolio 30	List A
AIA Portfolio 50	AIA Portfolio 50	List A
AIA Portfolio 70	AIA Portfolio 70	List A
AIA Regional Equity Fund	AIA Regional Equity	List A
AIA Regional Fixed Income Fund	AIA Regional Fixed Income	List A
GreatLink Asia Pacific Equity Fund	Greatlink Asia Pacific Equity	List A
GreatLink China Growth Fund	Greatlink China Growth	List A
GreatLink European Sustainable and Responsible Investment Equity Fund	GreatLink European Sus & Res Inv Eq	List A
GreatLink Global Bond Fund	Greatlink Global Bond	List A
GreatLink Global Emerging Markets Equity Fund	GreatLink Global Emerging Markets Equity	List A
GreatLink Global Equity Alpha Fund	Greatlink Global Equity Alpha	List A
GreatLink Global Perspective Fund	GreatLink Global Perspective	List A
GreatLink Global Real Estate Securities Fund	GreatLink Global Real Estate Secs Fd	List A
GreatLink Global Supreme Fund	Greatlink Global Supreme	List A
GreatLink Global Technology Fund	Greatlink Global Tech	List A
GreatLink Lifestyle Balanced Portfolio	Greatlink LifeStyle Bal	List A
GreatLink LifeStyle Dynamic Portfolio	Greatlink LifeStyle Dyna	List A
GreatLink LifeStyle Progressive Portfolio	Greatlink LifeStyle Prog	List A
GreatLink Lifestyle Secure Portfolio	GreatLink LifeStyle Secure	List A
GreatLink Lifestyle Steady Portfolio	GreatLink LifeStyle Steady	List A
GreatLink Lion Asian Balanced Fund	GreatLink Lion Asian Balanced	List A
GreatLink Lion Japan Growth Fund	Greatlink Lion Japan Growth	List A
GreatLink Short Duration Bond Fund	Greatlink Short Duration Bond	List A
GreatLink Singapore Equities Fund	Greatlink Singapore Eq	List A
HSBC Insurance Ethical Global Equity Fund	HSBC Insurance Ethical Global Equity	List A
HSBC Insurance Global Bond Fund	HSBC Insurance Global Bond	List A
HSBC Insurance Pacific Equity Fund	HSBC Insurance Pacific Equity	List A
HSBC Life Asian Balanced Fund	HSBC Life Asian Balanced	List A
HSBC Life Asian Growth Fund	HSBC Life Asian Growth	List A
HSBC Life China Growth Fund	HSBC Life Greater China Fund	List A
HSBC Life Fortress Fund	HSBC Life Fortress A Fund	List A
HSBC Life Global Balanced Fund	HSBC Life Global Balanced Fund	List A
HSBC Life Global Defensive Fund	HSBC Life Global Defensive Fund	List A
HSBC Life Global Emerging Markets Equity Fund	HSBC Life Emerging Markets Opps Fd	List A
HSBC Life Global Equity Blend	HSBC Life Global Perspective Fund	List A
HSBC Life Global Growth Fund	HSBC Life Global Growth Fund	List A
HSBC Life Global High Growth Fund	HSBC Life Global High Growth Fd	List A
HSBC Life Global Secure Fund	HSBC Life Global Secure Fund	List A
HSBC Life India Fund	HSBC Life India Opportunities Fund	List A
HSBC Life Pacific Equity Fund	HSBC Life Pacific Equity Fund	List A
HSBC Life Shariah Global Equity Fund	HSBC Life Shariah Global Equity	List A

HSBC Life Short Duration Bond Fund	HSBC Life Short Duration Bond	List A
HSBC Life Singapore Balanced Fund	HSBC Life Singapore Balanced Fund	List A
HSBC Life Singapore Bond Fund	HSBC Life Singapore Bond Fund	List A
HSBC Life Singapore Equity Fund	HSBC Life Singapore Equity Fund	List A
Income Asia Managed Fund	Income Asia Managed	List A
Income Asian Bond Fund	Income Asian Bond	List A
Income Asian Equity Fund	Income Asian Equity	List A
Income Global Bond Fund	Income Global Bond	List A
Income Global Diverse Series - Adventurous Fund	Income Global Diverse Series - Advnturs	List A
Income Global Diverse Series - Balanced Fund	Income Global Diverse Series - Balanced	List A
Income Global Diverse Series - Managed Fund	Income Global Diverse Series - Managed	List A
Income Global Equity Fund	Income Global Equity	List A
Income Global Technology Fund	Income Global Technology	List A
Manulife Asian Small-Cap Equity Fund	Manulife Asian Small Cap Equity	List A
Manulife Dividend Advantage Fund	Manulife Dividend Advantage	List A
Manulife European Equity Fund	Manulife European Equity	List A
Manulife Global Emerging Markets Fund	Manulife Global Emerg Mkts	List A
Manulife Golden Asia Fund	Manulife Golden Asia Fund	List A
Manulife Golden Asia Growth Fund	Manulife Golden Asia Growth	List A
Manulife Golden Balanced Growth Fund	Manulife Golden Bal Growth	List A
Manulife Golden International Bond Fund	Manulife Golden Intl Bond	List A
Manulife Golden Regional China Fund	Manulife Golden Reg. China	List A
Manulife Golden Singapore Growth Fund	Manulife Golden SG Growth	List A
Manulife Income Series - Asia Pacific Investment Grade Bond Fund	Manulife Inc Ser - Asia Pac Invmt GrdBdA	List A
Manulife Income Series - Asian Balanced Fund	Manulife Income Series - Asian Bal CI A	List A
Manulife India Equity Fund	Manulife India Equity	List A
Manulife Japan Growth Fund	Manulife Japan Growth	List A
Manulife Pacific Equity Fund	Manulife Pacific Equity	List A
Manulife Singapore Bond Fund	Manulife Singapore Bond	List A
PruLink Adapt 2025	Prulink Adapt 2025	List A
PruLink Adapt 2035	Prulink Adapt 2035	List A
PruLink America Fund	Prulink America	List A
PruLink Asian Income and Growth Fund	Prulink Asian Income & Growth Acc	List A
PruLink Emerging Markets Fund	Prulink Emerging Markets	List A
PruLink Global Bond Fund	Prulink Global Bond	List A
PruLink Global Equity Fund	Prulink Global Equity	List A
PruLink Global Managed Fund	Prulink Global Managed	List A
PruLink Greater China Fund	Prulink Greater China	List A
Prulink India Equity Fund	Prulink India Equity	List A
PruLink Pan European Fund	Prulink Pan European	List A
PruLink Singapore ASEAN Managed Fund	Prulink Singapore ASEAN Managed	List A

PruLink Singapore Dynamic Bond Fund	PruLink Singapore Dynamic Bond	List A
PruLink Singapore Growth Fund	Prulink Singapore Growth Fund	List A
Singlife Schroder Multi Asset Revolution	Singlife Schroder Multi Asset Revolution	List A
TMLS Asia Bond Fund	TMLS Asia Bond	List A
TMLS Asian Equity Plus Fund	TMLS Asian Equity Plus	List A
TMLS China Equity Fund	TMLS China Equity	List A
TMLS Global Emerging Markets Equity Fund	TMLS Global Emerging Markets Equity	List A
TMLS India Equity Fund	TMLS India Equity Fund	List A
TMLS Multi-Asset 30 Fund	TMLS Multi-Asset 30	List A
TMLS Multi-Asset 50 Fund	TMLS Multi-Asset 50	List A
TMLS Multi-Asset 70 Fund	TMLS Multi-Asset 70	List A
TMLS Multi-Asset 90 Fund	TMLS Multi-Asset 90	List A
TMLS Singapore Bond Fund	TMLS Singapore Bond	List A
TMLS Singapore Equity Fund	TMLS Singapore Equity	List A
AIA International Health Care Fund	AIA International Health Care Fund	List B
AIA S\$ Money Market Fund	AIA SGD Money Market	List B
GreatLink Cash Fund	Greatlink Cash	List B
Income Takaful Fund	Income Takaful	List B
Manulife Golden Global Balanced Fund	Manulife Golden Gbl Balanced	List B
Manulife Golden Worldwide Equity Fund	Manulife Golden Worldwide Eq	List B
Manulife Lifestyle Portfolios - Aggressive	Manulife Lifestyle Aggressive	List B
Manulife Lifestyle Portfolios - Conservative	Manulife Lifestyle Conservative	List B
Manulife Lifestyle Portfolios - Growth	Manulife Lifestyle Growth	List B
Manulife Lifestyle Portfolios - Moderate	Manulife Lifestyle Moderate	List B
Manulife Lifestyle Portfolios - Secure	Manulife Lifestyle Secure	List B
PruLink Asian American Managed Fund	Prulink Asian American Managed	List B
PruLink Asian Equity Fund	Prulink Asian Equity	List B
Prulink China-India Fund	Prulink China-India	List B
PruLink Global Property Securities Fund	PruLink Global Property Securities	List B
PruLink Singapore Asian Managed Fund	PRULink Singapore Asian Managed Fund	List B
PruLink Singapore Cash Fund	Prulink Singapore Cash	List B
Singlife Aberdeen Pacific Equity (SP)	Singlife Aberdeen Pacific Equity (SP)	List B
Singlife Balanced Growth (SP)	Singlife Balanced Growth - SP	List B
Singlife Capital Growth (SP)	Singlife Capital Growth - SP	List B
Singlife Income Growth (SP)	Singlife Income Growth - SP	List B
Singlife Legg Mason Western Asset Global Bond Trust (SP)	FTempleton WA Gbl Bond Tr (SP)	List B
Singlife LionGlobal Japan Growth (SP)	Singlife LionGlobal Japan Growth - SP	List B
Singlife MM Balanced Growth	Singlife MM Balanced Growth	List B
Singlife MM Capital Growth	Singlife MM Capital Growth	List B
Singlife MM Income Growth	Singlife MM Income Growth	List B
Singlife Nikko AM Shenton Short Term Bond (SP)	Singlife Nikko AM Shenton S/T Bd SP	List B

Source: Morningstar Direct.



## 8. Morningstar Methodology Documents

Morningstar Rating for Funds:

[https://www.morningstar.com/content/dam/marketing/shared/research/methodology/771945\\_Morningstar\\_Rating\\_for\\_Funds\\_Methodology.pdf](https://www.morningstar.com/content/dam/marketing/shared/research/methodology/771945_Morningstar_Rating_for_Funds_Methodology.pdf)

Morningstar Sustainability Rating:

<https://www.morningstar.com/content/dam/marketing/shared/pdfs/Research/934750.pdf>

Morningstar Category Definitions:

<https://www.morningstar.com/api-corporate/midway/v1/research/download/1142166?timestamp=1678071300000600&token=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJkYXRhIjp7ImRvY3VtZW50SWQiOiJExNDIxNjZ9LCJpYXQiOiJlE20TEzMzE1MzB9.JJoXEfhkKZXnskBxmVbr50a--vEh9P-AHNtCrWiyhFY>

### 8.1 Data Definitions

#### Return

Expressed in percentage terms, Morningstar's calculation of total return is determined each month by taking the change in monthly net asset value, reinvesting all income and capital gains distributions during that month, and dividing by the starting NAV. Reinvestments are made using the actual reinvestment NAV, and daily payoffs are reinvested monthly. Unless otherwise noted, Morningstar does not adjust total returns for sales charges (such as front-end loads, deferred loads, and redemption fees), preferring to give a clearer picture of a fund's performance. The total returns do account for management, administrative, and 12b-1 fees, and other costs taken out of fund assets. Total returns for periods longer than one year are expressed in terms of compounded average annual returns (also known as *geometric total returns*), affording a more meaningful picture of fund performance than nonannualized figures.

#### Annualized Returns

For standard time periods (one, three, five, and 10 years), returns are annualized as follows:

$$\text{Ann Ret} = ((1 + \text{Cum Ret}/100)^{(1/y)} - 1) * 100$$

where,

Cum Ret = the cumulative return

y = the number of years (one, three, five, or 10)

For customized time periods returns are annualized as follows:

$$\text{Ann Ret} = ((1 + \text{Cum Ret}/100)^{(365.25/d)} - 1) * 100$$

where,

Cum Ret = the cumulative return

d = the number of days between the start and end date

### **Annual Report Net Expense Ratio**

The percentage of fund assets used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred by the fund, except brokerage costs. Fund expenses are reflected in the fund's NAV. Sales charges are not included in the expense ratio. The expense ratio for fund of funds only includes the wrap or sponsor fees and does not include the underlying fund fees.

### **Standard Deviation**

A statistical measurement of dispersion about an average, which, for a mutual fund, depicts how widely the returns varied over a certain period. Investors use the standard deviation of historical performance to try to predict the range of returns that are most likely for a given fund. When a fund has a high standard deviation, the predicted range of performance is wide, implying greater volatility. Standard deviation is most appropriate for measuring risk if it is for a fund that is an investor's only holding. The figure cannot be combined for more than one fund because the standard deviation for a portfolio of multiple funds is a function of not only the individual standard deviations, but also of the degree of correlation among the funds' returns. If a fund's returns follow a normal distribution, then approximately 68% of the time they will fall within one standard deviation of the mean return for the fund and 95% of the time within two standard deviations. Morningstar computes standard deviation using the trailing monthly total returns for the appropriate period. All of the monthly standard deviations are then annualized.

### **Sharpe Ratio**

A risk-adjusted measure developed by Nobel laureate William Sharpe. It is calculated by using standard deviation and excess return to determine reward per unit of risk. The higher the Sharpe ratio, the better the fund's historical risk-adjusted performance. The Sharpe ratio is calculated for the past 36-month period by dividing a fund's annualized excess returns by the standard deviation of a fund's annualized excess returns. Since this ratio uses standard deviation as its risk measure, it is most appropriately applied when analyzing a fund that is an investor's sole holding. The Sharpe ratio can be used to compare two funds directly on how much risk a fund had to bear to earn excess return over the risk-free rate.

The Sharpe ratio can be calculated one of three ways:

1. Standard Sharpe ratio ( $\text{SharpeRatio}_M$ )
2. Arithmetic Sharpe ratio ( $\text{SharpeRatio}_A$ )
3. Geometric Sharpe ratio ( $\text{SharpeRatio}_G$ )

$$\text{Sharpe Ratio}_M = \frac{\left( \frac{\sum_{i=1}^n R_i}{n} \right) - \left( \frac{\sum_{i=1}^n RF_i}{n} \right)}{\text{St Dev}_M}$$

$$\text{Sharpe Ratio}_A = \frac{\left[ \prod_{i=1}^n (1+R_i) \right]^{\frac{m}{n}} - \left[ \prod_{i=1}^n (1+RF_i) \right]^{\frac{m}{n}}}{\text{St Dev}_A}$$

$$\text{Sharpe Ratio}_G = \frac{\left[ \prod_{i=1}^n (1+R_i) \right]^{\frac{m}{n}} / \left[ \prod_{i=1}^n (1+RF_i) \right]^{\frac{m}{n}} - 1}{\text{St Dev}_A}$$

where,

$$\text{St Dev}_M = \sqrt{\frac{1}{n-1} \cdot \sum_{i=1}^n (R_i - \bar{R})^2}$$

$$\text{St Dev}_A = \text{St Dev}_M \cdot \sqrt{m}$$

and

St Dev<sub>A</sub> = Annualized Standard Deviation

St Dev<sub>M</sub> = Standard deviation

R<sub>i</sub> = Return of the investment in time period i

RF<sub>i</sub> = Return of the risk-free investment in time period i

m = Number of time periods in a year

n = Total number of time periods

$\bar{R}$  = Average return of the investment over the time period

## Information Ratio

Information ratio is a risk-adjusted performance measure. The information ratio is a special version of the Sharpe ratio in that the benchmark doesn't have to be the risk-free rate. The Israelson method is an adjustment of the information ratio to take into account the inconsistency of the IR when excess returns are negative.

$$Ratio_{\text{Israelsen}} = \frac{ER}{Risk \cdot \frac{ER}{abs(ER)}} = \begin{cases} \frac{ER}{Risk} & \text{if } ER \geq 0 \\ ER \cdot Risk & \text{if } ER < 0 \end{cases}$$

## Max Gain

The peak-to-trough incline during a specific record period of an investment or fund. It is usually quoted as the percentage between the peak and the trough.

## Max Drawdown

The peak-to-trough decline during a specific record period of an investment or fund. It is usually quoted as the percentage between the peak and the trough.