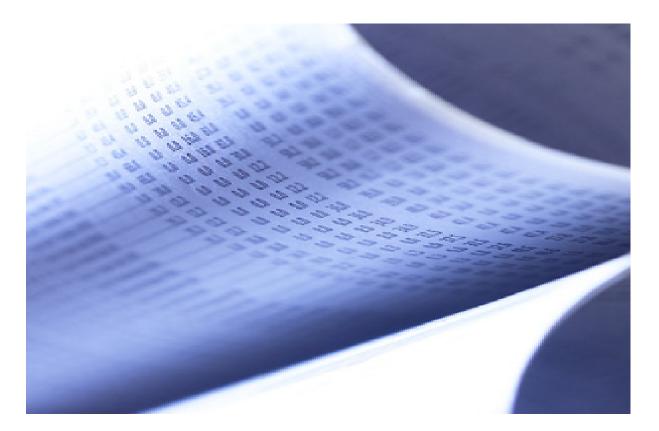
FOURTH QUARTER 2018 PERFORMANCE & RISK-MONITORING REPORT

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



DECEMBER 2018 Lipper

Contents

| 1 | I | NTR | RODU | JCTION | .3 |
|---|-----|-------|-------|---|----|
| 2 | ι | JPD | ATE | ON CPFIS-INCLUDED FUNDS | .4 |
| 3 | ſ | MAF | RKET | DEVELOPMENTS IN Q4 2018 | .6 |
| | 3.1 | | Equi | ity Markets | .6 |
| | 3.2 | | Bon | d Markets | .7 |
| | 3.3 | Th | e Ou | tlook | .7 |
| 4 | F | PERF | ORN | ANCE OF WORLDWIDE INDICES IN SGD | .9 |
| 5 | 5 | SUN | IMAF | RY OF PERFORMANCE OF CPFIS-INCLUDED FUNDS | 10 |
| 6 | 5 | SUN | IMAF | RY OF RISK-ADJUSTED PERFORMANCE | 16 |
| | 6.1 | | Lipp | er Leader Rating for CPFIS-Included Unit Trusts | 17 |
| | 6.2 | | Lipp | er Leader Rating for CPFIS-Included ILPs | 21 |
| 7 | A | Арре | endio | ces | 26 |
| | 7.1 | | Com | plete List of Funds | 26 |
| | 7 | 7.1.1 | 1 | Full List of CPFIS-Included Unit Trusts | 26 |
| | 7 | 7.1.2 | 2 | Full List of CPFIS–Included ILPs | 31 |
| | 7.2 | | Inve | estment Terminology Definitions | 40 |

1 INTRODUCTION

Lipper has been appointed by Investment Management Association of Singapore (IMAS) and Life Insurance Association of Singapore (LIAS) to monitor the performance of all unit trusts and investmentlinked insurance products included under the Central Provident Fund Investment Scheme (CPFIS). This report shows Lipper's findings for the three months ended December 31, 2018.

Important Disclaimers:

The data shown in this report is information for investors and is not a solicitation to buy, sell, or hold any fund. Past performance is not an indicator of future performance. Past performance is no guarantee of future return. This report should not be used as the sole basis for any investment decision. Before investing in any fund, investors should carefully read the prospectus or other necessary information about the fund. Lipper has used reasonable efforts in preparing this report based on data collected from the contributing asset management companies. However, Lipper doesn't guarantee the accuracy of the data contained herein and will not bear any responsibility for investment decisions of investors or for any loss arising from using the data presented in this report.

2 UPDATE ON CPFIS-INCLUDED FUNDS

As of December 31, 2018, there were 85 unit trusts and 156 investment-linked insurance products (ILPs) included under the CPFIS¹, for a total of 241 funds.

Table 1 Number of CPFIS-Included Funds

| | As of End Q4-2018 | As of End Q3-2018 |
|------------|-------------------|-------------------|
| Unit Trust | 85 | 86 |
| ILP | 156 | 168 |
| Total | 241 | 254 |

Source: Central Provident Fund Board

Table 2 Newly Listed Products

| | Risk Classification | CPFIS Focus | Detail | Lipper Classification |
|--|----------------------------|------------------------|--------|-----------------------|
| <u>UT</u> | | | | |
| United Global Quality Growth Fund – Class C SGD Acc (Hedged) | HIGHER RISK | BROADLY DIVERSIFIED | N/A | Equity Global |

Table 3 Delisted Products

| | Risk Classification | CPFIS Focus | Detail | Lipper Classification |
|---|----------------------------|------------------------|------------------|------------------------------|
| <u>UT</u> | | | | |
| Franklin Templeton Investment Funds – Templeton European Fund A(acc) SGD | HIGHER RISK | NARROWLY FOCUSED | Europe | Equity Europe |
| United International Growth Fund | HIGHER RISK | Broadly Diversified | N/A | Equity Global |
| ILP | | | | |
| John Hancock European Equity Fund | HIGHER RISK | NARROWLY FOCUSED | Europe | Equity Europe |
| John Hancock Adventurous Portfolio | Medium to High Risk | Broadly Diversified | N/A | Mixed Asset SGD Aggressive |
| John Hancock Balanced Portfolio | Medium to High Risk | Broadly Diversified | N/A | Mixed Asset SGD Balanced |
| John Hancock Cautious Portfolio | Medium to High Risk | Broadly Diversified | N/A | Mixed Asset SGD Conservative |
| John Hancock Greater China Fund | HIGHER RISK | NARROWLY FOCUSED | Greater China | Equity China |
| John Hancock Japan Growth Fund | HIGHER RISK | NARROWLY FOCUSED | Japan | Equity Japan |
| John Hancock Pacific Equity Fund | HIGHER RISK | NARROWLY FOCUSED | Asia | Equity Asia Pacific ex Japan |
| John Hancock Worldwide Equities Fund | HIGHER RISK | Broadly Diversified | N/A | Equity Global |
| John Hancock Global Balanced Fund | Medium to High Risk | Broadly Diversified | N/A | Mixed Asset SGD Balanced |

¹ Find more information about unit trusts and investment-linked insurance products (ILPs) included under the CPF Investment Scheme at <u>https://www.cpf.gov.sg/Members/Schemes/schemes/optimising-my-cpf/cpf-investment-schemes</u>

| John Hancock Pacific Harvest Fund | Medium to High Risk | NARROWLY FOCUSED | Asia | Mixed Asset SGD Aggressive |
|--------------------------------------|---------------------|------------------------|-----------|----------------------------|
| John Hancock Worldwide Bond Fund | Low to Medium Risk | Broadly Diversified | N/A | Bond Global |
| John Hancock Singapore Cash Fund | Low to Medium Risk | NARROWLY FOCUSED | Singapore | Money Market SGD |

Source: Central Provident Fund Board

3 MARKET DEVELOPMENTS IN Q4 2018²

3.1 Equity Markets

Most of global equity markets plunged for Q4 2018. The MSCI World Index slid by 13.31% (in U.S.-dollar terms) for Q4 2018, while it soared 5.01% for Q3 2018. Brazil BOVESPA (Ibovespa) TR, Indonesia Jakarta SE Composite Index and Philippine PSE Composite CR index soared for 10.77%, 3.65% and 2.60%, respectively and took the lead among most of the global major markets while Japan Nikkei 225 CR and NASDAQ Composite CR Index slid over 17% for Q4 2018.

| | Price | | Period en | ded 31-Dec- | -2018 | |
|---------------------------------|------------|----------|-----------|-------------|--------|---------|
| Name | 2018/12/31 | 3 Months | 6 Months | 9 Months | 1 Year | 3 Years |
| BOVESPA (Ibovespa) TR | 87,887.26 | 10.77 | 20.79 | 2.95 | 15.03 | 102.74 |
| Jakarta SE Composite Index | 6,194.50 | 3.65 | 6.82 | 0.09 | -2.54 | 34.87 |
| Philippine PSE Composite CR | 7,466.02 | 2.60 | 3.79 | -6.44 | -12.76 | 7.39 |
| S&P BSE SENSEX | 36,068.33 | -0.44 | 1.82 | 9.40 | 5.91 | 38.10 |
| FTSE Bursa Malaysia KLCI CR | 1,690.58 | -5.72 | -0.05 | -9.28 | -5.91 | -0.11 |
| Singapore Straits Times CR | 3,068.76 | -5.78 | -6.12 | -10.48 | -9.82 | 6.45 |
| Hang Seng CR | 25,845.70 | -6.99 | -10.74 | -14.11 | -13.61 | 17.94 |
| Swiss Market Index CR | 8,429.30 | -7.25 | -2.09 | -3.57 | -10.15 | -4.41 |
| S&P/ASX 200 CR AUD | 5,646.37 | -9.04 | -8.85 | -1.96 | -6.90 | 6.62 |
| FTSE 100 CR | 6,728.13 | -10.41 | -11.90 | -4.65 | -12.48 | 7.78 |
| RTS CR | 1,066.13 | -10.56 | -7.63 | -14.67 | -7.65 | 40.83 |
| Thailand SET CR | 1,563.88 | -10.96 | -1.99 | -11.96 | -10.82 | 21.42 |
| Shanghai Composite CR | 2,493.90 | -11.61 | -12.42 | -21.30 | -24.59 | -29.53 |
| TAIEX CR | 9,727.41 | -11.62 | -10.24 | -10.92 | -8.60 | 16.66 |
| Dow Jones Industrial Average CR | 23,327.46 | -11.83 | -3.89 | -3.22 | -5.63 | 33.87 |
| KOSPI Composite CR | 2,041.04 | -12.89 | -12.26 | -16.55 | -17.28 | 4.07 |
| Xetra DAX TR | 10,558.96 | -13.78 | -14.20 | -12.71 | -18.26 | -1.71 |
| CAC 40 CR | 4,730.69 | -13.89 | -11.14 | -8.45 | -10.95 | 2.02 |
| S&P 500 CR | 2,506.85 | -13.97 | -7.78 | -5.07 | -6.24 | 22.65 |
| Nikkei 225 CR | 20,014.77 | -17.02 | -10.27 | -6.71 | -12.08 | 5.15 |
| NASDAQ Composite CR | 6,635.28 | -17.54 | -11.65 | -6.06 | -3.88 | 32.51 |

| Table 4 Major Stock Market Indic | es (all return figures are in t | the respective local currencies) |
|----------------------------------|---------------------------------|----------------------------------|
| | | |

Source: Lipper

² Since the Singapore fund universe is not domestically focused and invests in a host of regions, currencies, and asset classes, discussion of global macroeconomic trends is imperative to understand fund performance. Furthermore, to avoid confusion from counter-directional currency movements (against the Singapore dollar) in the discussion of market trends, all index/average performance figures in this section are expressed in local-currency or U.S.-dollar terms.

3.2 Bond Markets

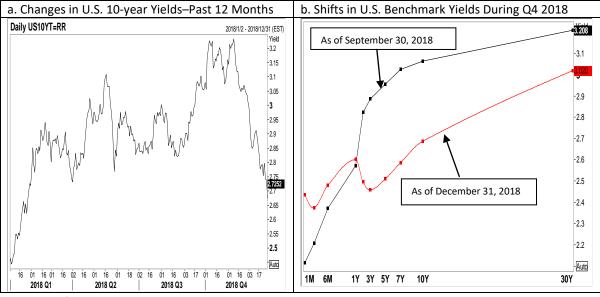
The FTSE WGBI slid 1.62% for the quarter (in USD). The ten-year Treasury yield ended at 2.691% for the fourth quarter of 2018 versus 3.056% at the end of Q3 2018.

3.3 The Outlook

The U.S Fed left the target Fed fund rate unchanged at 2.25%-2.50% and repeated that the labour market has continued to strengthen and that economic activity has been raising at a 'solid' (instead of strong) pace. However, the Fed indicated that it could alter the current run-off of its balance sheet. Fed chairman Powell claimed that the Fed can remain patient on any further changes to monetary policy. The U.S Fed signals that it would be prepared to adjust the details of completing balance sheet normalisation in the light of recent financial and economic developments.

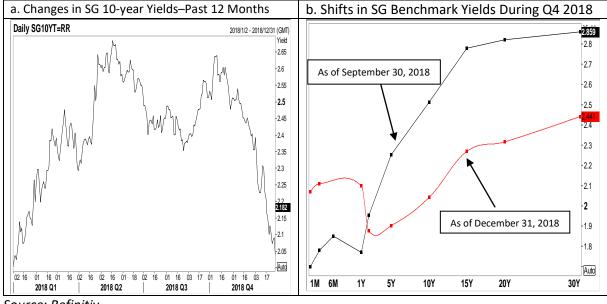
The U.S and China's 90-day trade war truce which made on last November is ending this March 2nd. The two sides are seeking ways to suspend the punitive tariffs and make promises on other issues before March 1st so that they can start to move to further negotiations on more technical issues. However, no deal was reached during recent Jan's new round of high-level trade negotiations. Investors should continue watching out for further progress and potential market volatility.

Figure 1 U.S. Government Bond Market Movements



Source: Refinitiv

Figure 2 Singapore Government Bond Market Movements



Source: Refinitiv

4 PERFORMANCE OF WORLDWIDE INDICES IN SGD

Table 5 Worldwide Indices' Performance in SGD

| | Period ended 31-Dec-2018 | | | | |
|-----------------------------------|--------------------------|----------|----------|--------|---------|
| Name | 3 Months | 6 Months | 9 Months | 1 Year | 3 Years |
| Thomson Reuters/SGX SFI | 2.45 | 3.23 | 2.91 | 1.73 | 9.20 |
| FTSE WGBI TR USD | 1.50 | 0.07 | 0.56 | 1.13 | 4.05 |
| SIBOR SGD 3 Month | 0.44 | 0.85 | 1.23 | 1.55 | 3.66 |
| Singapore Straits Times CR | -5.78 | -6.12 | -10.48 | -9.82 | 6.45 |
| MSCI EM (Emerging Markets) TR USD | -7.62 | -8.30 | -12.14 | -12.53 | 26.68 |
| MSCI AC Asia ex Japan TR USD | -8.83 | -9.96 | -11.35 | -12.41 | 23.99 |
| STOXX Europe 50 CR EUR | -11.67 | -11.22 | -10.08 | -15.67 | -9.98 |
| MSCI World TR USD | -13.52 | -8.92 | -3.47 | -6.38 | 17.40 |

Source: Lipper

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

| Indices | Financial Markets |
|-------------------------------|---------------------------|
| FTSE WGBI TR | Global bond markets |
| MSCI AC Asia ex Japan TR | Asian ex-Japan equities |
| MSCI EM (Emerging Markets) TR | Emerging markets equities |
| MSCI World TR | Global equities |
| SIBOR SGD 3 Months | Singapore money markets |
| Singapore Straits Times CR | Singapore equities |
| Stoxx Europe 50 CR | European equities |
| Thomson Reuters/SGX SFI | Singapore bond markets |

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

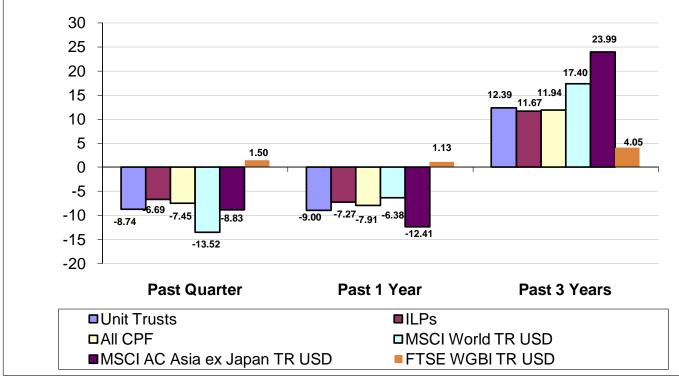
- Ordinary: 2.5%
- Special: 4.0%
- Medisave: 4.0%
- Retirement: 4.0%

For more information about CPF interest rates please visit: https://www.cpf.gov.sg/Members/AboutUs/about-us-info/cpf-interest-rates

5 SUMMARY OF PERFORMANCE OF CPFIS-INCLUDED FUNDS

The average returns³ of CPFIS-included unit trusts and ILPs are shown below:

Figure 3 Average Performance of CPFIS-Included Funds at End Q4 2018 (% in SGD)



Source: Lipper

REFINITIV

³ Average performance is calculated by a summation of all returns of funds in the group, divided by the number of funds.

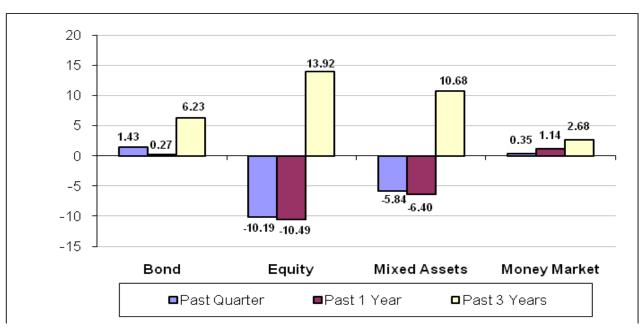


Figure 4 Average Performance of CPFIS-Included Funds at End Q4 2018 by Asset Class (% in SGD)

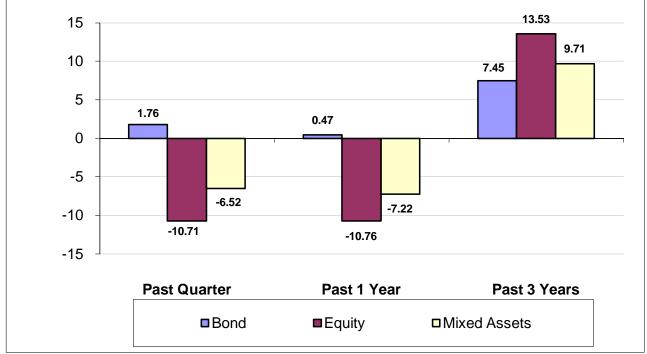
Source: Lipper

For the fourth quarter of 2018, the overall performance of CPFIS-included funds (unit trusts and ILPs combined) posted negative returns of 7.45% on average, given a negative return of 8.74% on average among CPFIS-included unit trusts and a negative return of 6.69% among CPFIS-included ILPs. For all the CPFIS-included funds, Equity and mixed-asset funds posted negative return of 10.19% and 5.84%, respectively, while bond and money market funds posted positive return of 1.43% and 0.35%, respectively for the quarter. MSCI World TR USD and MSCI AC Asia ex Japan plunged 13.52% and 8.83%, respectively, while FTSE WGBI Index rose 1.5% for Q4 2018.

For the one-year period, the overall performance of CPFIS-included funds posted a negative return of 7.91% on average. CPFIS-included unit trusts slid 9.0% on the year, and CPFIS-included ILPs plunged 7.27% on average. During the same period, the key benchmark MSCI World TR USD plunged 6.38% and MSCI AC Asia ex Japan Index slid 12.41% respectively, while the FTSE WGBI TR rose 1.13%. For the one-year period, money market (+1.14%) fund outperformed the bond (+0.27% on average), equity (-10.49% on average) and mixed-asset (-6.40% on average) fund offering.

For the three-year period, CPFIS-included funds achieved 11.94% growth on average, accounted for a gain of 12.39% on average from CPFIS-included unit trusts and 11.67% on average from CPFIS-included ILPs. During the same period, MSCI World TR USD and MSCI AC Asia ex Japan Index rallied 17.40% and 23.99% respectively, while the FTSE WGBI TR achieved 4.05%. Equity type was the leading gainers (+13.92%) and bond portfolio posted 6.23% return on average for the period.

The average returns of CPFIS-included unit trusts by asset class⁴ are shown below:





Source: Lipper

For the fourth quarter of 2018, equity and mixed-asset of UT portfolios posted negative returns of 10.71%, and 6.52% on average respectively, while bond fund posted positive return f 1.76%.

On average for the one-year period, equity and mixed-asset type posted negative return of 10.76% and 7.22% on average respectively, while bond type of UT portfolios posted positive return of 0.47%.

Equity fund (+13.53%) outperformed the other asset class offerings over the three-year period (through December 2018), with mixed-asset and bond fund posting gains of 9.71% and 7.45% on average respectively.

⁴ Definitions of asset types are as follows:

⁻ Equity: Funds with the primary investment objective of investing in stock markets

Bond: Funds with the primary investment objective of investing in fixed income markets with an average maturity
 1 year

⁻ Mixed-asset: Funds with the primary investment objective of investing in a strategic mix of equities and fixed income securities

⁻ Money market: Funds with the primary investment objective of investing in fixed income markets with an average residual life to maturity < 12 months

The average returns of CPFIS-included investment-linked insurance products by asset class are shown below:

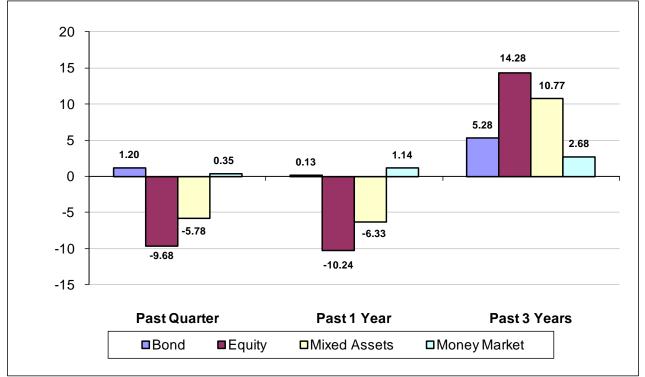


Figure 6 Average Performance of CPFIS-Included ILPs at End Q4-2018 by Asset Class (% in SGD)

Source: Lipper

For the fourth quarter of 2018, equity and mixed-asset types of ILP portfolios posted negative returns of 9.68% and 5.78%, respectively, while bond and money market funds posted positive return of 1.20% and 0.35% on average respectively.

For the one-year period, money market fund (+1.14% on average) and bond (+0.13% on average) outperformed the equity (-10.24%) and mixed-asset funds (-6.33% on average) respectively. For the three-year period, equity funds were the leading gainers (+14.28%). Bond, mixed-asset and money market funds delivered 5.28%, 10.77% and 2.68% growth on average respectively.

The average returns of CPFIS-included unit trusts by Lipper Global Classification⁵ are shown below:

| | % Growth |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | 3M 30/09/2018 | 6M 30/06/2018 | 9M 31/03/2018 | 1Y 31/12/2017 | 3Y 31/12/2015 |
| Name | To 31/12/2018 |
| Bond Global (3) | 0.82 | 0.88 | 0.82 | 0.53 | 4.43 |
| Bond SGD (9) | 2.29 | 2.55 | 2.12 | 0.85 | 9.15 |
| Equity ASEAN (1) | -6.18 | -5.37 | -10.14 | -11.69 | -4.21 |
| Equity Asia Pacific (2) | -14.29 | -15.93 | -18.18 | -20.42 | 0.30 |
| Equity Asia Pacific ex Japan (11) | -8.43 | -9.69 | -9.98 | -11.59 | 19.25 |
| Equity Asia Pacific Sm&Mid Cap (1) | -6.08 | -8.84 | -12.09 | -10.78 | 6.00 |
| Equity China (2) | -10.56 | -13.01 | -11.84 | -11.70 | 22.71 |
| Equity Emerging Mkts Asia (1) | -4.54 | -8.55 | -7.37 | -10.87 | 24.82 |
| Equity Emerging Mkts Global (4) | -8.14 | -9.76 | -14.65 | -15.57 | 18.28 |
| Equity Europe (5) | -15.73 | -14.93 | -9.78 | -13.24 | 2.60 |
| Equity Global (5) | -14.54 | -13.25 | -10.65 | -13.69 | 3.62 |
| Equity Global Income (5) | -10.69 | -7.45 | -4.95 | -7.91 | 2.50 |
| Equity Greater China (5) | -11.01 | -13.95 | -11.76 | -10.92 | 24.15 |
| Equity India (3) | 3.51 | -3.12 | -0.21 | -8.54 | 16.83 |
| Equity Indonesia (1) | 5.84 | 6.27 | -1.02 | -7.91 | 11.42 |
| Equity Japan (4) | -17.08 | -12.70 | -13.24 | -17.11 | 6.03 |
| Equity Malaysia (1) | -8.28 | -9.10 | -11.33 | -9.60 | -1.17 |
| Equity Malaysia/Singapore (1) | -8.12 | -7.44 | -12.77 | -10.97 | 3.66 |
| Equity Sector Biotechnology (1) | -22.40 | -18.53 | -12.83 | -14.69 | -22.74 |
| Equity Sector Information Tech (1) | -17.33 | -13.04 | -3.95 | -4.91 | 36.87 |
| Equity Sector Real Est Global (1) | -7.63 | -8.17 | -1.56 | -7.76 | -4.86 |
| Equity Singapore (6) | -6.86 | -5.76 | -11.15 | -9.23 | 17.50 |
| Equity Thailand (3) | -12.51 | -0.71 | -10.52 | -6.35 | 41.67 |
| Mixed Asset SGD Balanced (4) | -5.72 | -5.81 | -4.59 | -6.80 | 11.30 |
| Mixed Asset USD Bal - Global (1) | -9.73 | -7.94 | -6.50 | -8.92 | 3.34 |
| Equity US (7) | -14.46 | -8.89 | -3.29 | -5.99 | 13.57 |
| Equity Sector Healthcare (2) | -13.64 | -4.35 | 2.82 | 1.51 | 8.55 |
| Equity Sector Financials (1) | -13.12 | -10.76 | -10.67 | -13.28 | 13.02 |
| Bond Asia Pacific LC (2) | 1.03 | 1.14 | 0.31 | -1.12 | 4.32 |
| Equity Japan Income (2) | -15.16 | -11.55 | -11.16 | -13.89 | 8.25 |
| Grand Total (95) | -8.74 | -7.62 | -7.25 | -9.00 | 12.39 |

Table 6 Average Performance of CPFIS-Included Unit Trusts by Lipper Global Classification (% Growth in SGD)

Source: Lipper

Remark: The average calculation includes the different share classes of the funds.

⁵ For more information please go to Section 7.2—Investment Terminology Definitions.

The average returns of CPFIS-included ILPs by Lipper Global Classification are shown below:

| | % Growth % Growth % Growth % Growth % Growth | | | | | | |
|------------------------------------|--|---------------|---------------|---------------|---------------|--|--|
| | 3M 30/09/2018 | 6M 30/06/2018 | 9M 31/03/2018 | 1Y 31/12/2017 | 3Y 31/12/2015 | | |
| Name | To 31/12/2018 | To 31/12/2018 | To 31/12/2018 | To 31/12/2018 | To 31/12/2018 | | |
| Bond Global (10) | 0.79 | 0.32 | -0.04 | -0.22 | 2.46 | | |
| Bond SGD (8) | 1.69 | 2.14 | 2.00 | 0.64 | 9.29 | | |
| Equity ASEAN (2) | -5.36 | -4.56 | -9.38 | -10.98 | -3.65 | | |
| Equity Asia Pacific (1) | -13.67 | -17.43 | -18.92 | -22.99 | -5.64 | | |
| Equity Asia Pacific ex Japan (13) | -8.43 | -9.49 | -10.77 | -12.22 | 18.10 | | |
| Equity Asia Pacific Sm&Mid Cap (1) | -11.98 | -19.96 | -21.82 | -23.34 | -2.72 | | |
| Equity China (2) | -11.08 | -15.60 | -15.72 | -15.56 | 15.89 | | |
| Equity Emerging Mkts Asia (1) | -4.55 | -8.57 | -7.39 | -10.90 | 24.82 | | |
| Equity Emerging Mkts Global (6) | -8.08 | -10.84 | -15.24 | -15.74 | 17.27 | | |
| Equity Europe (3) | -14.91 | -14.52 | -11.88 | -15.18 | -0.65 | | |
| Equity Global (14) | -12.82 | -9.91 | -6.35 | -8.92 | 11.14 | | |
| Equity Global Income (2) | -9.36 | -6.02 | -3.35 | -6.68 | 8.71 | | |
| Equity Greater China (4) | -11.08 | -14.34 | -12.88 | -12.08 | 27.39 | | |
| Equity India (5) | 2.72 | -2.35 | 3.62 | -2.87 | 20.63 | | |
| Equity Japan (4) | -16.66 | -12.69 | -13.01 | -16.34 | 5.51 | | |
| Equity Sector Information Tech (4) | -16.67 | -12.04 | -4.51 | -2.37 | 37.82 | | |
| Equity Sector Real Est Global (2) | -6.10 | -6.38 | 1.58 | -4.96 | -3.01 | | |
| Equity Singapore (10) | -6.54 | -6.17 | -11.01 | -9.16 | 14.96 | | |
| Mixed Asset SGD Aggressive (11) | -7.79 | -6.45 | -5.99 | -7.45 | 13.20 | | |
| Mixed Asset SGD Balanced (30) | -5.64 | -5.25 | -4.92 | -6.61 | 11.32 | | |
| Mixed Asset SGD Conservative (9) | -2.59 | -2.21 | -1.78 | -3.21 | 7.36 | | |
| Mixed Asset USD Bal - Global (2) | -9.65 | -7.98 | -6.79 | -8.20 | 4.19 | | |
| Money Market SGD (4) | 0.35 | 0.66 | 0.92 | 1.14 | 2.68 | | |
| Target Maturity Other (5) | -6.39 | -6.08 | -5.36 | -7.01 | 11.29 | | |
| Equity US (1) | -12.23 | -6.27 | 0.19 | -4.88 | 7.65 | | |
| Equity Sector Healthcare (2) | -13.60 | -4.38 | 2.86 | 1.56 | 8.82 | | |
| Bond Asia Pacific LC (1) | 1.43 | 1.60 | 0.86 | -0.47 | 5.42 | | |
| Grand Total (157) | -6.69 | -6.39 | -5.88 | -7.27 | 11.67 | | |

Source: Lipper

6 SUMMARY OF RISK-ADJUSTED PERFORMANCE

The Lipper Leader rating methodology consists of four metrics that rate funds' success in meeting certain goals:

- Total Return: Ability of a fund to provide superior total return compared to its peers
- Consistent Return: Ability of a fund to provide relatively superior consistency and risk-adjusted return compared to its peers
- Preservation: Ability of a fund to demonstrate superior preservation of capital in a variety of markets compared with other funds in its asset class
- Expense: Ability of a fund to successfully manage to keep its expenses low relative to its peers and within its load structure

Funds are ranked against their Lipper peer group classifications for a three-year period. In other words, if a fund doesn't have at least three years of historical performance and it is not in a group with more than five funds, it is not rated by Lipper. The rating is based on an equal-weighted average of percentile ranks of the four Lipper Leader metrics.

For each metric:

The top 20% of funds receive a rating of "5" and are named Lipper Leaders.

The next 20% of funds receive a rating of "4."

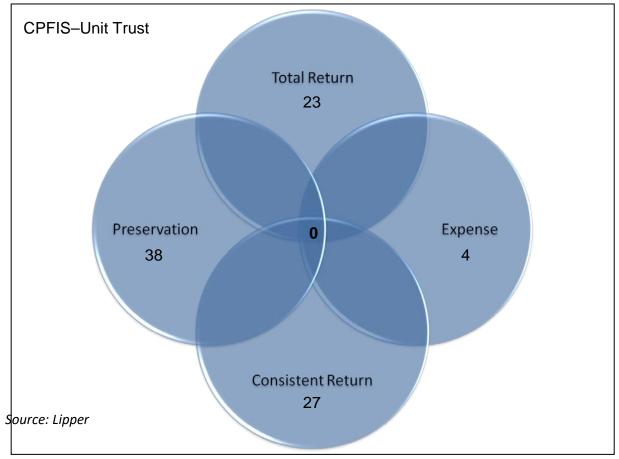
The middle 20% of funds receive a rating of "3."

The next 20% of funds receive a rating of "2."

The lowest 20% of funds receive a rating of "1."

6.1 Lipper Leader Rating for CPFIS-Included Unit Trusts





As at end December 2018, the number of CPFIS-included unit trusts in the top 20% of funds, receiving a rating of "5" and named Lipper Leaders in each metric, was as follows:

- Total Return: 23 funds
- Consistent Return: 27 funds
- Preservation: 38 funds
- Expense: 4 funds

There's no CPFIS-included UT which had received a rating of "5" (Lipper Leader) across all four metrics.

Table 8 Full List of CPFIS-Included Unit Trusts with a Lipper Leader Rating

| | | | | 3 Years Lip | per Rating | 5 |
|-----|---|--------------------------------|----------------------|-------------|-----------------|--------------|
| S/N | Name | Lipper Global Classification | Consistent Return | Expense | Total Return | Preservation |
| 1 | AB SICAV I-International Health Care Portfolio (Class A) - SGD | Equity Sector Healthcare | Leader | 2 | Leader | 3 |
| 2 | Aberdeen Standard Asian Smaller Standard Companies Fund | Equity Asia Pacific Sm&Mid Cap | 3 | 3 | 3 | Leader |
| 3 | Aberdeen Standard China Opportunities Fund | Equity Greater China | 1 | 4 | 1 | 3 |
| 4 | Aberdeen Standard European Opportunities Fund | Equity Europe | Leader | 3 | Leader | 3 |
| 5 | Aberdeen Standard Global Emerging Markets Fund | Equity Emerging Mkts Global | 2 | 3 | 2 | 3 |
| 6 | Aberdeen Standard Global Opportunities Fund | Equity Global | 3 | 2 | 3 | Leader |
| 7 | Aberdeen Standard India Opportunities Fund | Equity India | 4 | 3 | 4 | 1 |
| 8 | Aberdeen Standard Indonesia Equity Fund | Equity Indonesia | 3 | 4 | 3 | 4 |
| 9 | Aberdeen Standard Malaysian Equity Fund | Equity Malaysia | 2 | 3 | 2 | Leader |
| 10 | Aberdeen Standard Pacific Equity Fund | Equity Asia Pacific ex Japan | 4 | 3 | 4 | Leader |
| 11 | Aberdeen Standard Singapore Equity Fund | Equity Singapore | 4 | 2 | Leader | Leader |
| 12 | Aberdeen Standard Thailand Equity Fund | Equity Thailand | 1 | 4 | 1 | Leader |
| 13 | Allianz Europe Equity Growth - Class AT (H2-SGD) | Equity Europe | 4 | 2 | 3 | 2 |
| 14 | Allianz Global Investors Premier Funds – Allianz Global High Payout Fund - SGD | Equity Global Income | 2 | 3 | 2 | Leader |
| 15 | Allianz Global Investors Premier Funds – Allianz Global High Payout Fund (USD Share Class) | Equity Global Income | 2 | 3 | 2 | Leader |
| 16 | Allianz Oriental Income - Class AT (SGD) | Equity Asia Pacific | 3 | 3 | 2 | 3 |
| 17 | Amundi Opportunities-Amundi Singapore Dividend Growth (AS- D Class) | Equity Singapore | Leader | 3 | Leader | 4 |
| 18 | Eastspring Investments - Japan Dynamic Fund Class As (hedged) | Equity Japan | 2 | 3 | 3 | 1 |
| 19 | Eastspring Investments Unit Trusts – Asian Balanced Fund | Mixed Asset SGD Balanced | 2 | 4 | 2 | 4 |
| 20 | Eastspring Investments Unit Trusts-Dragon Peacock Fund Class A | Equity Emerging Mkts Asia | 4 | 4 | 4 | 2 |
| 21 | Eastspring Investments Unit Trusts – Global Technology Fund | Equity Sector Information Tech | 3 | 4 | 3 | 2 |
| 22 | Eastspring Investments Unit Trusts – Pan European Fund | Equity Europe | 4 | 3 | 4 | 2 |
| 23 | Eastspring Investments Unit Trusts – Singapore ASEAN Equity Fund | Equity Singapore | 2 | 2 | 4 | Leader |
| 24 | Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class A | Bond SGD | Leader | 4 | Leader | Leader |
| 25 | Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class AD | Bond SGD | Leader | 4 | 4 | Leader |
| 26 | Eastspring Investments-Asian Equity Income Fund Class as Hedged | Equity Asia Pacific ex Japan | 3 | 4 | 2 | 3 |
| 27 | Fidelity Funds – America Fund SR-ACC-SGD | Equity US | 1 | 3 | 2 | 4 |
| 28 | Fidelity Funds – America Fund SR-ACC-USD | Equity US | 1 | 3 | 2 | 4 |
| 29 | Fidelity Funds – Asia Focus Fund SR-ACC-SGD | Equity Asia Pacific ex Japan | Leader | 3 | Leader | 4 |
| 30 | Fidelity Funds - Asian Special Situations Fund SR-ACC-SGD | Equity Asia Pacific ex Japan | Leader | 3 | Leader | Leader |
| 31 | Fidelity Funds – European Growth Fund SR-ACC-Euro | Equity Europe | Leader | 3 | Leader | 3 |
| 32 | Fidelity Funds – European Growth Fund SR-ACC-SGD | Equity Europe | Leader | 3 | Leader | 3 |
| 33 | Fidelity Funds - Greater China Fund SR-ACC-SGD | Equity Greater China | Leader | 4 | Leader | 3 |
| 34 | Fidelity Funds-America Fund SR-ACC-SGD (Hedged) | Equity US | 2 | 3 | 2 | 4 |
| 35 | Fidelity Funds-China Focus Fund SR-ACC-SGD | Equity China | 4 | 3 | Leader | 2 |
| 36 | Fidelity Funds-Emerging Markets Fund SR-ACC-SGD | Equity Emerging Mkts Global | 2 | 3 | 1 | 3 |
| 37 | First State Asian Growth Fund | Equity Asia Pacific ex Japan | 1 | 3 | 2 | Leader |
| 38 | First State Bridge – Class A (Semi-Annually Distributing) | Mixed Asset SGD Balanced | Leader | 4 | Leader | Leader |
| 39 | First State Dividend Advantage | Equity Asia Pacific ex Japan | Leader | 3 | Leader | Leader |
| 40 | First State Regional China Fund | Equity Greater China | Leader | 4 | 4 | 3 |
| 41 | Franklin Templeton Investment Funds - Templeton Emerging Markets Fund A(acc)SGD | Equity Emerging Mkts Global | Leader | 1 | Leader | Leader |
| 42 | Franklin Templeton Investment Funds – Franklin Biotechnology Discovery Fund A(acc)SGD | Equity Sector Biotechnology | 2 | 3 | 2 | 1 |
| 43 | Franklin Templeton Investment Funds – Franklin India Fund AS (acc)SGD | Equity India | 2 | 3 | 2 | 1 |
| 44 | Franklin Templeton Investment Funds – Franklin U.S. Opportunities Fund AS (acc)SGD | Equity US | 3 | 3 | 3 | 3 |
| 45 | Franklin Templeton Investment Funds – Templeton Asian Growth Fund A(acc)SGD | Equity Asia Pacific ex Japan | 3 | 1 | 4 | 4 |

FOURTH QUARTER 2018 PERFORMANCE & RISK-MONITORING REPORT

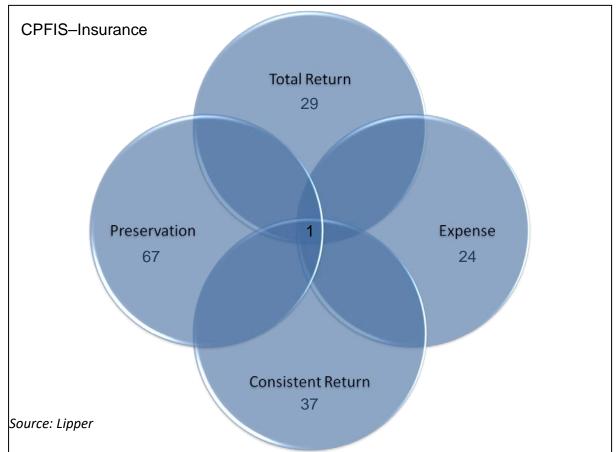
| | | | 3 Years Lipper Rating | | | |
|-----|--|-------------------------------|-----------------------|---------|-----------------|--------------|
| S/N | Name | Lipper Global Classification | Consistent Return | Expense | Total Return | Preservation |
| 46 | Franklin Templeton Investment Funds – Templeton China Fund A(acc)SGD | Equity Greater China | 4 | 1 | 4 | 3 |
| 47 | Franklin Templeton Investment Funds – Templeton Global Balanced Fund AS (acc)SGD | Mixed Asset USD Bal - Global | 3 | 4 | 3 | 2 |
| 48 | Franklin Templeton Investment Funds – Templeton Global Equity Income Fund AS (Mdis)SGD | Equity Global Income | 1 | 3 | 2 | 3 |
| 49 | Franklin Templeton Investment Funds – Templeton Global Fund AS (acc)SGD | Equity Global | 1 | 3 | 1 | 3 |
| 50 | Franklin Templeton Investment Funds – Templeton Thailand Fund A(acc)SGD | Equity Thailand | Leader | 2 | Leader | Leader |
| 51 | Franklin Templeton Shariah Funds – Templeton Shariah Global Equity Fund AS (acc)SGD | Equity Global | 2 | 2 | 2 | Leader |
| 52 | Legg Mason Martin Currie Southeast Asia Trust (Class A (SGD) Accumulating) | Equity ASEAN | 1 | 3 | 1 | 4 |
| 53 | Legg Mason Western Asset Global Bond Trust (Class A (SGD) Accumulating) | Bond Global | 3 | 4 | 3 | Leader |
| 54 | Legg Mason Western Asset Singapore Bond Fund (Class A (SGD) Accumulating) | Bond SGD | 3 | 2 | 3 | Leader |
| 55 | LionGlobal Japan Growth Fund (SGD) | Equity Japan | Leader | 3 | Leader | 4 |
| 56 | LionGlobal Japan Growth Fund SGD-Hedged Class | Equity Japan | Leader | 3 | 4 | 1 |
| 57 | LionGlobal Short Duration Bond Fund Class A (SGD) (Dist) | Bond Global | Leader | Leader | 4 | Leader |
| 58 | LionGlobal Singapore / Malaysia Fund (SGD) | Equity Malaysia/Singapore | N/A | N/A | N/A | Leader |
| 59 | LionGlobal TEAM - Singapore Fixed Income Investment (Class A) | Bond SGD | Leader | 3 | Leader | Leader |
| 60 | LionGlobal Thailand Fund (SGD) | Equity Thailand | Leader | Leader | Leader | 4 |
| 61 | Manulife Asia Pacific Investment Grade Bond Fund Class A | Bond Asia Pacific LC | 4 | 4 | 3 | Leader |
| 62 | Manulife Singapore Bond Fund (Class A) | Bond SGD | 4 | 1 | 4 | Leader |
| 63 | Natixis International Funds (LUX) I - Harris Associates Global Equity Fund P/A (SGD) | Equity Global | 1 | 2 | 1 | 2 |
| 64 | Natixis International Funds (LUX) I - Harris Associates U.S. Equity Fund H-P/A (SGD) | Equity US | 2 | 2 | 3 | 3 |
| 65 | Nikko AM Asia Investment Funds - Nikko AM Shenton Global Property Securities Fund S\$ Class | Equity Sector Real Est Global | 2 | 2 | 2 | 4 |
| 66 | Nikko AM Japan Dividend Equity Fund-SGD Hedged Class Units | Equity Japan Income | N/A | N/A | N/A | 2 |
| 67 | Nikko AM Shenton Japan Fund (S\$) Class | Equity Japan | Leader | 4 | 4 | 2 |
| 68 | Nikko AM Shenton Short Term Bond Funds - Nikko AM Shenton Short Term Bond Fund (S\$) Class | Bond Global | Leader | Leader | 4 | Leader |
| 69 | Nikko AM Shenton Thrift Fund | Equity Singapore | 2 | Leader | 2 | Leader |
| 70 | PineBridge Asia Ex Japan Small Cap Equity Fund - Class A5CP | Equity Asia Pacific ex Japan | 4 | 3 | 3 | Leader |
| 71 | PineBridge Asia Ex Japan Small Cap Equity Fund - Class Y | Equity Asia Pacific ex Japan | 4 | 4 | 3 | Leader |
| 72 | Pinebridge India Equity Fund - Class A5CP | Equity India | 2 | 3 | 2 | 2 |
| 73 | PineBridge International Funds - Acorns of Asia Balanced Fund | Mixed Asset SGD Balanced | Leader | 4 | Leader | 3 |
| 74 | PineBridge International Funds – Singapore Bond Fund | Bond SGD | 3 | 2 | 3 | Leader |
| 75 | Pinebridge US Large Cap Research Enhanced Fund - Class ASCP | Equity US | 4 | 3 | 4 | Leader |
| 76 | Pinebridge US Large Cap Research Enhanced Fund - Class Y | Equity US | 4 | 3 | 4 | Leader |
| 77 | Schroder Asian Equity Yield Fund | Equity Asia Pacific ex Japan | 3 | 3 | 2 | Leader |
| 78 | Schroder Asian Growth Fund | Equity Asia Pacific ex Japan | Leader | 4 | Leader | 3 |
| 79 | Schroder Asian Investment Grade Credit | Bond Asia Pacific LC | 3 | 4 | 2 | Leader |
| 80 | Schroder China Opportunities Fund | Equity China | 4 | 3 | Leader | 2 |
| 81 | Schroder Global Emerging Market Opportunities Fund | Equity Emerging Mkts Global | 4 | 3 | 4 | 4 |
| 82 | Schroder International Selection Fund Greater China Class F | Equity Greater China | Leader | 4 | Leader | 3 |

| | | | | 3 Years Lipper Rating | | | |
|-----|--|------------------------------|----------------------|-----------------------|--------|--------------|--|
| S/N | Name | Lipper Global Classification | Consistent Return | Expense | | Preservation | |
| 83 | Schroder Multi-Asset Revolution Class A | Mixed Asset SGD Balanced | 2 | 3 | 2 | 4 | |
| 84 | Schroder Singapore Fixed Income Fund Class A | Bond SGD | 3 | 3 | 2 | Leader | |
| 85 | Schroder Singapore Trust Class A | Equity Singapore | 3 | 4 | 3 | Leader | |
| 86 | United Asia Top-50 Fund | Equity Asia Pacific | 1 | 1 | 1 | 3 | |
| 87 | United Global Financials Fund | Equity Sector Financials | Leader | 1 | 4 | 3 | |
| 88 | United Global Healthcare Fund | Equity Sector Healthcare | 2 | 2 | 2 | 1 | |
| 89 | United SGD Fund - Class A (ACC) SGD | Bond SGD | 1 | 3 | 1 | Leader | |
| 83 | United Singapore Bond Fund | Bond SGD | Leader | 2 | Leader | Leader | |
| 84 | United Singapore Growth Fund | Equity Singapore | 4 | 4 | 4 | 4 | |

Source: Lipper

6.2 Lipper Leader Rating for CPFIS-Included ILPs





As at end December 2018, the number of CPFIS-included ILPs in the top 20% of funds, receiving a rating of "5" and named Lipper Leaders, in each metric was as follows:

- Total Return: 29 funds
- Consistent Return: 37 funds
- Preservation: 67 funds
- Expense: 24 funds

NTUC Prime Fund is one and the only ILP received a rating of "5" (Lipper Leader) across all four metrics.

| Table 9 | Full List of CPFIS-Included | ILPs with a | Lipper Leader Rating |
|---------|-----------------------------|-------------|----------------------|
|---------|-----------------------------|-------------|----------------------|

| | | | | 3 Years Lip | per Rating | |
|-----|--|--------------------------------|----------------------|-------------|-----------------|--------------|
| S/N | Name | Lipper Global Classification | Consistent Return | Expense | Total Return | Preservation |
| 1 | AIA Acorns of Asia Fund | Mixed Asset SGD Balanced | Leader | 3 | Leader | 3 |
| 2 | AIA Emerging Markets Balanced Fund | Mixed Asset SGD Balanced | Leader | 3 | Leader | 4 |
| 3 | AIA Emerging Markets Equity Fund | Equity Emerging Mkts Global | 4 | 3 | 4 | 4 |
| 4 | AIA Global Balanced Fund | Mixed Asset SGD Balanced | 3 | 3 | 3 | Leader |
| 5 | AIA Global Bond Fund | Bond Global | 2 | 3 | 3 | Leader |
| 6 | AIA Global Technology Fund | Equity Sector Information Tech | Leader | 3 | 4 | 3 |
| 7 | AIA Greater China Balanced Fund | Mixed Asset SGD Balanced | Leader | 3 | Leader | 2 |
| 8 | AIA Greater China Equity Fund | Equity Greater China | Leader | 4 | 4 | 3 |
| 9 | AIA Growth Fund | Mixed Asset SGD Aggressive | 4 | Leader | Leader | 2 |
| 10 | AIA India Balanced Fund | Mixed Asset SGD Balanced | Leader | 3 | Leader | 1 |
| 11 | AIA India Opportunities Fund | Equity India | 4 | 3 | 4 | 1 |
| 12 | AIA International Health Care Fund | Equity Sector Healthcare | Leader | 2 | Leader | 3 |
| 13 | AIA Japan Balanced Fund | Mixed Asset SGD Balanced | 2 | 3 | 2 | 2 |
| 14 | AIA Japan Equity Fund | Equity Japan | 4 | 3 | 3 | 2 |
| 15 | AIA Portfolio 100 | Equity Global Income | 2 | 2 | 2 | Leader |
| 16 | AIA Portfolio 30 | Mixed Asset SGD Conservative | 2 | Leader | 2 | Leader |
| 17 | AIA Portfolio 50 | Mixed Asset SGD Balanced | 2 | 3 | 1 | Leader |
| 18 | AIA Portfolio 70 | Mixed Asset SGD Aggressive | 2 | 3 | 2 | 3 |
| 19 | AIA Regional Equity Fund | Equity Asia Pacific ex Japan | Leader | 4 | Leader | Leader |
| 20 | AIA Regional Fixed Income Fund | Bond SGD | 4 | 2 | 4 | Leader |
| 21 | Aviva Aberdeen Pacific Equity (SP) | Equity Asia Pacific ex Japan | 3 | 1 | 2 | 3 |
| 22 | Aviva Balanced Growth (SP) | Mixed Asset SGD Balanced | Leader | 1 | Leader | 2 |
| 23 | Aviva Capital Growth (SP) | Equity Asia Pacific ex Japan | Leader | 1 | Leader | 4 |
| 24 | Aviva Income Growth (SP) | Mixed Asset SGD Conservative | 4 | 2 | 3 | Leader |
| 25 | Aviva Legg Mason Western Asset Global Bond Trust (SP) | Bond Global | 2 | 1 | 2 | Leader |
| 26 | Aviva LionGlobal Japan Growth (SP) | Equity Japan | Leader | 1 | 4 | 3 |
| 27 | Aviva MM Balanced Growth | Mixed Asset SGD Balanced | Leader | 3 | Leader | 3 |
| 28 | Aviva MM Capital Growth | Equity Asia Pacific ex Japan | Leader | 4 | Leader | 4 |
| 29 | Aviva MM Income Growth | Mixed Asset SGD Conservative | Leader | 2 | 4 | Leader |
| 30 | Aviva Nikko AM Shenton Short Term Bond (SP) | Bond Global | 3 | 1 | 2 | Leader |
| 31 | Aviva Schroder Multi Asset Revolution | Mixed Asset SGD Balanced | 2 | 3 | 1 | 3 |
| 32 | Aviva Templeton Global Balanced (SP) - CPF | Mixed Asset SGD Balanced | 1 | 1 | 1 | 1 |
| 33 | AXA Asian Balanced Fund | Mixed Asset SGD Balanced | Leader | 3 | Leader | 3 |
| 34 | AXA Asian Growth Fund | Equity Asia Pacific ex Japan | 4 | 3 | 4 | 4 |
| 35 | AXA China Growth Fund | Equity Greater China | Leader | 4 | 4 | 3 |
| 36 | AXA Fortress Fund A | Equity Singapore | 1 | 2 | 1 | Leader |
| 37 | AXA Fortress Fund B | Equity Singapore | 1 | 2 | 1 | Leader |
| 38 | AXA Global Balanced Fund | Mixed Asset SGD Balanced | 2 | 3 | 1 | Leader |
| 39 | AXA Global Defensive Fund | Bond Global | 2 | 3 | 3 | Leader |
| 40 | AXA Global Emerging Markets Equity Fund | Equity Emerging Mkts Global | 4 | 3 | 4 | 4 |
| 41 | AXA Global Equity Blend | Equity Global | Leader | 2 | Leader | 4 |
| 42 | AXA Global Growth Fund | Mixed Asset SGD Aggressive | 2 | 3 | 2 | 3 |
| 43 | AXA Global High Growth Fund | Equity Global | 3 | 2 | 3 | 4 |
| 44 | AXA Global Secure Fund | Mixed Asset SGD Conservative | 2 | Leader | 2 | Leader |
| 45 | AXA India Fund | Equity India | 3 | 3 | 4 | 1 |

| | | | | 3 Years Lip | per Rating | |
|-----|---|--------------------------------|------------|-------------|------------|--------------|
| S/N | | | Consistent | | Total | |
| | Name | Lipper Global Classification | Return | Expense | Return | Preservation |
| 46 | AXA Pacific Equity Fund | Equity Asia Pacific ex Japan | 4 | 3 | 3 | Leader |
| 47 | AXA Shariah Global Equity Fund | Equity Global | 2 | 2 | 2 | Leader |
| 48 | AXA Singapore Balanced Fund | Mixed Asset SGD Balanced | 4 | 3 | 4 | 4 |
| 49 | AXA Singapore Bond Fund | Bond SGD | 4 | 1 | 4 | Leader |
| 50 | AXA Singapore Equity Fund | Equity Singapore | Leader | 2 | Leader | Leader |
| 51 | AXA South East Asia Special Situations Fund | Equity ASEAN | 1 | 3 | 1 | 3 |
| 52 | AXA Value Growth Fund | Equity Asia Pacific ex Japan | 4 | 3 | 4 | Leader |
| 53 | GreatLink Asia Pacific Equity Fund | Equity Asia Pacific ex Japan | 4 | 4 | 4 | Leader |
| 54 | GreatLink China Growth Fund | Equity Greater China | Leader | 4 | Leader | 3 |
| 55 | GreatLink European Equity Fund | Equity Europe | 3 | 3 | 2 | 2 |
| 56 | GreatLink Global Bond Fund | Bond Global | Leader | 4 | 4 | Leader |
| 57 | GreatLink Global Emerging Markets Equity Fund | Equity Emerging Mkts Global | 2 | 3 | 1 | 3 |
| 58 | GreatLink Global Equity Alpha Fund | Equity Global | 3 | 3 | 3 | 4 |
| 59 | GreatLink Global Opportunities Fund | Equity Global | 3 | 3 | 3 | Leader |
| 60 | GreatLink Global Real Estate Securities Fund | Equity Sector Real Est Global | 3 | 4 | 4 | Leader |
| 61 | GreatLink Global Supreme Fund | Mixed Asset SGD Balanced | 3 | Leader | 3 | Leader |
| 62 | GreatLink Global Technology Fund | Equity Sector Information Tech | 3 | 4 | 2 | 3 |
| 63 | GreatLink Lifestyle Balanced Portfolio | Mixed Asset SGD Balanced | 4 | Leader | 3 | Leader |
| 64 | GreatLink LifeStyle Dynamic Portfolio | Equity Global | 4 | 3 | 3 | Leader |
| 65 | GreatLink LifeStyle Progressive Portfolio | Mixed Asset SGD Aggressive | 3 | 4 | 3 | 3 |
| 66 | GreatLink Lifestyle Secure Portfolio | Mixed Asset SGD Conservative | 3 | 4 | 3 | Leader |
| 67 | GreatLink Lifestyle Steady Portfolio | Mixed Asset SGD Balanced | 3 | Leader | 3 | Leader |
| 68 | GreatLink Lion Asian Balanced Fund | Mixed Asset SGD Balanced | 4 | Leader | 4 | Leader |
| 69 | GreatLink Lion Japan Growth Fund | Equity Japan | 4 | 3 | 4 | 1 |
| 70 | GreatLink Short Duration Bond Fund | Bond Global | Leader | Leader | 4 | Leader |
| 71 | GreatLink Singapore Equities Fund | Equity Singapore | 4 | 2 | 4 | Leader |
| 72 | HSBC Insurance Ethical Global Equity Fund | Equity Global | 2 | 3 | 2 | 4 |
| 73 | HSBC Insurance Global Bond Fund | Bond Global | 3 | 3 | 3 | Leader |
| 74 | HSBC Insurance Pacific Equity Fund | Equity Asia Pacific ex Japan | 4 | 3 | 4 | 4 |
| 75 | Manulife Asian Small-Cap Equity Fund | Equity Asia Pacific Sm&Mid Cap | 3 | 3 | 3 | 1 |
| 76 | Manulife European Equity Fund | Equity Europe | Leader | 3 | Leader | 3 |
| 77 | Manulife Global Emerging Markets Fund | Equity Emerging Mkts Global | 2 | 3 | 2 | 3 |
| 78 | Manulife Golden Asia Growth Fund | Equity Asia Pacific ex Japan | 4 | 3 | 3 | 4 |
| 79 | Manulife Golden Balanced Growth Fund | Mixed Asset SGD Balanced | 4 | Leader | 4 | 4 |
| 80 | Manulife Golden Global Balanced Fund | Mixed Asset SGD Balanced | 2 | Leader | 2 | Leader |
| 81 | Manulife Golden International Bond Fund | Bond Global | 3 | 4 | 3 | Leader |
| 82 | Manulife Golden Regional China Fund | Equity China | 3 | 3 | 2 | 1 |
| 83 | Manulife Golden S.E.A Special Situations Fund | Equity ASEAN | 1 | 3 | 1 | 4 |
| 84 | Manulife Golden Singapore Growth Fund | Equity Singapore | 2 | 2 | 2 | 4 |
| 85 | Manulife Golden Worldwide Equity Fund | Equity Global | 3 | 3 | 2 | Leader |
| 86 | Manulife Income Series - Asia Pacific Investment Grade Bond Fund | Bond Asia Pacific LC | 4 | 4 | 3 | Leader |
| 87 | Manulife Income Series – Asian Balanced Fund | Mixed Asset SGD Balanced | 3 | 3 | 3 | Leader |
| 88 | Manulife Income Series - Global Balanced Fund | Mixed Asset USD Bal - Global | 3 | 4 | 3 | 2 |
| 89 | Manulife India Equity Fund | Equity India | 4 | 3 | 4 | 2 |
| 90 | Manulife Japan Growth Fund | Equity Japan | 4 | 3 | 4 | 2 |

| | | | | 3 Years Lip | per Rating | |
|-----|--|--------------------------------|------------|-------------|------------|--------------|
| S/N | | | Consistent | | Total | |
| | Name | Lipper Global Classification | Return | Expense | Return | Preservation |
| 91 | Manulife Lifestyle Portfolios - Aggressive | Equity Global | 3 | 3 | 2 | Leader |
| 92 | Manulife Lifestyle Portfolios - Conservative | Mixed Asset SGD Conservative | 2 | 4 | 2 | Leader |
| 93 | Manulife Lifestyle Portfolios - Growth | Mixed Asset SGD Aggressive | 3 | 3 | 3 | 3 |
| 94 | Manulife Lifestyle Portfolios - Moderate | Mixed Asset SGD Balanced | 3 | Leader | 3 | Leader |
| 95 | Manulife Lifestyle Portfolios - Secure | Mixed Asset SGD Balanced | 2 | Leader | 2 | Leader |
| 96 | Manulife Pacific Equity Fund | Equity Asia Pacific ex Japan | 3 | 3 | 3 | Leader |
| 97 | Manulife Singapore Bond Fund | Bond SGD | 4 | 1 | 3 | Leader |
| 98 | NTUC AIM 2025 | Target Maturity Other | 3 | Leader | 3 | Leader |
| 99 | NTUC AIM 2035 | Target Maturity Other | Leader | Leader | Leader | 4 |
| 100 | NTUC AIM 2045 | Target Maturity Other | 4 | Leader | 4 | 3 |
| 101 | NTUC AIM NOW | Mixed Asset SGD Conservative | 3 | Leader | 3 | Leader |
| 102 | NTUC Asia Managed Fund | Mixed Asset SGD Aggressive | Leader | 4 | Leader | 2 |
| 103 | NTUC Global Bond Fund | Bond Global | 3 | 4 | 4 | Leader |
| 104 | NTUC Global Equity Fund | Equity Global | Leader | 3 | 4 | Leader |
| 105 | NTUC Global Managed Fund (Balanced) | Mixed Asset SGD Balanced | 4 | Leader | 4 | Leader |
| 106 | NTUC Global Managed Fund (Conservative) | Mixed Asset SGD Conservative | 4 | 4 | 4 | Leader |
| 107 | NTUC Global Managed Fund (Growth) | Mixed Asset SGD Aggressive | 4 | Leader | 4 | Leader |
| 108 | NTUC Global Technology Fund | Equity Sector Information Tech | 3 | 4 | 2 | 2 |
| 109 | NTUC Prime Fund | Mixed Asset SGD Balanced | Leader | Leader | Leader | Leader |
| 110 | NTUC Singapore Bond Fund | Bond SGD | Leader | 4 | Leader | Leader |
| 111 | NTUC Singapore Equity Fund | Equity Singapore | 3 | Leader | 3 | 4 |
| 112 | NTUC Singapore Managed Fund | Mixed Asset SGD Balanced | Leader | Leader | Leader | 4 |
| 113 | NTUC Takaful Fund | Equity Global | Leader | 3 | Leader | Leader |
| 114 | PruLink Adapt 2025 | Target Maturity Other | 2 | 4 | 1 | Leader |
| 115 | PruLink Adapt 2035 | Target Maturity Other | 2 | 3 | 2 | 4 |
| 116 | PruLink America Fund | Equity US | 1 | 3 | 2 | 4 |
| 117 | PruLink Asian American Managed Fund | Mixed Asset SGD Balanced | 3 | 4 | 2 | 4 |
| 118 | PruLink Asian Equity Fund | Equity Asia Pacific ex Japan | 2 | 4 | 2 | 4 |
| 119 | PruLink Asian Income and Growth Fund | Mixed Asset SGD Balanced | Leader | 4 | Leader | 4 |
| 120 | Prulink China-India Fund | Equity Emerging Mkts Asia | 4 | 4 | 4 | 2 |
| 121 | PruLink Emerging Markets Fund | Equity Emerging Mkts Global | Leader | 3 | Leader | 4 |
| 122 | PruLink Global Bond Fund | Bond Global | 4 | 4 | 4 | Leader |
| 123 | PruLink Global Equity Fund | Equity Global Income | Leader | 3 | Leader | Leader |
| 124 | PruLink Global Managed Fund | Mixed Asset SGD Balanced | 2 | 3 | 2 | 4 |
| 125 | PruLink Global Property Securities Fund | Equity Sector Real Est Global | 2 | 2 | 2 | 4 |
| 126 | PruLink Global Technology Fund | Equity Sector Information Tech | 3 | 4 | 3 | 2 |
| 127 | PruLink Greater China Fund | Equity Greater China | Leader | 4 | Leader | 3 |
| 128 | PruLink Pan European Fund | Equity Europe | 4 | 3 | 4 | 3 |
| 129 | PruLink Singapore ASEAN Managed Fund | Mixed Asset SGD Aggressive | Leader | Leader | Leader | 4 |
| 130 | PruLink Singapore Dynamic Bond Fund | Bond SGD | Leader | 4 | Leader | Leader |
| 131 | PruLink Singapore Growth Fund | Equity Singapore | Leader | 3 | Leader | Leader |
| 132 | PruLink Singapore Managed Fund | Mixed Asset SGD Aggressive | Leader | Leader | 4 | 3 |
| 133 | | | | | | |
| | TMLS Asian Equity Fund | Equity Asia Pacific ex Japan | 4 | 4 | 4 | Leader |
| 134 | TMLS China Equity Fund | Equity China | 4 | 3 | 4 | 2 |

| | | | 2 Leader 2 Leader 2 3 1 3 3 3 3 Leader 3 3 3 Leader 3 3 3 Leader 3 3 2 Leader 3 3 Leader Leader 3 3 Leader Leader 3 2 3 Leader | | | |
|-----|--|------------------------------|--|---------|---|--------------|
| S/N | Name | Lipper Global Classification | | Expense | | Preservation |
| 135 | TMLS Global Balanced Fund | Mixed Asset USD Bal - Global | 2 | Leader | 2 | Leader |
| 136 | TMLS Global Emerging Markets Equity Fund | Equity Emerging Mkts Global | 2 | 3 | 1 | 3 |
| 137 | TMLS Global Equity Fund | Equity Global | 3 | 3 | 3 | Leader |
| 138 | TMLS India Equity Fund | Equity India | 3 | 3 | 4 | 2 |
| 139 | TMLS Singapore Bond Fund | Bond SGD | 3 | 2 | 3 | Leader |
| 140 | TMLS Singapore Equity Fund | Equity Singapore | 3 | 2 | 4 | Leader |
| 141 | UOB Life FOF Asia Top 50 Fund | Equity Asia Pacific | 1 | 1 | 1 | 3 |
| 142 | UOB Life FOF Global Healthcare Fund | Equity Sector Healthcare | 2 | 2 | 2 | 1 |
| 143 | UOB Life FOF Growth Fund | Equity Singapore | 1 | 4 | 1 | 4 |
| 144 | UOB Life FOF International Growth Fund | Equity Global | 4 | 3 | 4 | Leader |
| 145 | UOB LifeLink Global Fund | Equity Global | 4 | 3 | 4 | Leader |

Source: Lipper

7 Appendices

7.1 Complete List of Funds ⁶

7.1.1 Full List of CPFIS-Included Unit Trusts

| S/N | Name | Lipper Global | CPFIS Risk | CPF Focus | TER Date | Expense Ratio |
|-----|---|-----------------------------------|-------------|---------------------|------------|------------------|
| 1 | Franklin Templeton Investment Funds – Templeton Thailand Fund A(acc)SGD | Equity Thailand | Higher Risk | Narrowly Focused | 30/06/2018 | 2.50 |
| 2 | United Asia Top-50 Fund | Equity Asia Pacific | Higher Risk | Narrowly Focused | 30/06/2018 | 2.48 |
| 3 | Franklin Templeton Investment Funds - Templeton Emerging Markets Fund A(acc)SGD | Equity Emerging Mkts Global | Higher Risk | Narrowly Focused | 30/06/2018 | 2.46 |
| 4 | Franklin Templeton Investment Funds – Templeton China Fund A(acc)SGD | Equity Greater China | Higher Risk | Narrowly Focused | 30/06/2018 | 2.45 |
| 5 | United Global Healthcare Fund | Equity Sector Healthcare | Higher Risk | Narrowly Focused | 30/06/2018 | 2.24 |
| 6 | Franklin Templeton Investment Funds – Templeton Asian Growth Fund A(acc)SGD | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | 30/06/2018 | 2.22 |
| 7 | United Global Financials Fund | Equity Sector Financials | Higher Risk | Narrowly Focused | 30/06/2018 | 2.22 |
| 8 | Nikko AM Asia Investment Funds - Nikko AM Shenton Global Property Securities Fund S\$ Class | Equity Sector Real Est Global | Higher Risk | Narrowly Focused | 30/06/2018 | 2.14 |
| 9 | AB SICAV I-International Health Care Portfolio (Class A) - SGD | Equity Sector Healthcare | Higher Risk | Narrowly Focused | 31/05/2018 | 2.06 |
| 10 | Allianz Europe Equity Growth - Class AT (H2-SGD) | Equity Europe | Higher Risk | Narrowly Focused | 31/03/2018 | 1.84 |
| 11 | Allianz Oriental Income - Class AT (SGD) | Equity Asia Pacific | Higher Risk | Narrowly Focused | 31/03/2018 | 1.84 |
| 12 | Franklin Templeton Investment Funds – Franklin Biotechnology Discovery Fund A(acc)SGD | Equity Sector Biotechnology | Higher Risk | Narrowly Focused | 30/06/2018 | 1.82 |
| 13 | Aberdeen Standard Asian Smaller Companies Fund | Equity Asia Pacific Sm&Mid Cap | Higher Risk | Narrowly Focused | 30/09/2018 | 1.75 |
| 14 | Aberdeen Standard China Opportunities Fund | Equity Greater China | Higher Risk | Narrowly Focused | 30/09/2018 | 1.75 |
| 15 | Aberdeen Standard European Opportunities Fund | Equity Europe | Higher Risk | Narrowly Focused | 30/09/2018 | 1.75 |
| 16 | Aberdeen Standard Global Emerging Markets Fund | Equity Emerging Mkts Global | Higher Risk | Narrowly Focused | 30/09/2018 | 1.75 |
| 17 | Aberdeen Standard Global Opportunities Fund | Equity Global | Higher Risk | Broadly Diversified | 30/09/2018 | 1.75 |
| 18 | Aberdeen Standard India Opportunities Fund | Equity India | Higher Risk | Narrowly Focused | 30/09/2018 | 1.75 |
| 19 | Aberdeen Standard Malaysian Equity Fund | Equity Malaysia | Higher Risk | Narrowly Focused | 30/09/2018 | 1.75 |

⁶ These expense ratios may not be up to end of December 2018 but already represent the most up-to-date information (which may include unaudited expense ratio) submitted by the FMCs/Insurers. Some funds which are newly launched or have newly launched share classes have no available data.



| S/N | Name | Lipper Global | CPFIS Risk | CPF Focus | TER Date | Expense Ratio |
|-----|--|---------------------------------|-------------|------------------------|------------|------------------|
| 20 | First State Asian Growth Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | 30/06/2018 | 1.75 |
| 21 | Franklin Templeton Shariah Funds – Templeton Shariah Global Equity Fund AS (acc)SGD | Equity Global | Higher Risk | Broadly Diversified | 30/06/2018 | 1.75 |
| 22 | Natixis International Funds (LUX) I - Harris Associates Global Equity Fund P/A (SGD) | Equity Global | Higher Risk | Broadly Diversified | 30/06/2018 | 1.75 |
| 23 | Natixis International Funds (LUX) I - Harris Associates U.S. Equity Fund H-P/A (SGD) | Equity US | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.75 |
| 24 | Nikko AM Japan Dividend Equity Fund-SGD Class Units | Equity Japan Income | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.75 |
| 25 | Nikko AM Japan Dividend Equity Fund-SGD Hedged Class Units | Equity Japan Income | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.75 |
| 26 | Franklin Templeton Investment Funds – Franklin India Fund AS (acc)SGD | Equity India | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.74 |
| 27 | Eastspring Investments Unit Trusts – Pan European Fund | Equity Europe | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.73 |
| 28 | Fidelity Funds – Asia Focus Fund SR-ACC-SGD | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.73 |
| 29 | Fidelity Funds - Greater China Fund SR-ACC-SGD | Equity Greater China | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.73 |
| 30 | Franklin Templeton Investment Funds – Templeton Global Equity Income Fund AS (Mdis)SGD | Equity Global Income | HIGHER RISK | BROADLY DIVERSIFIED | 30/06/2018 | 1.73 |
| 31 | Franklin Templeton Investment Funds – Templeton Global Fund AS (acc)SGD | Equity Global | HIGHER RISK | BROADLY DIVERSIFIED | 30/06/2018 | 1.73 |
| 32 | PineBridge Asia Ex Japan Small Cap Equity Fund - Class A5CP | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 31/12/2017 | 1.73 |
| 33 | Pinebridge India Equity Fund - Class A5CP | Equity India | HIGHER RISK | NARROWLY FOCUSED | 31/12/2017 | 1.73 |
| 34 | Aberdeen Standard Indonesia Equity Fund | Equity Indonesia | HIGHER RISK | NARROWLY FOCUSED | 30/09/2018 | 1.72 |
| 35 | Fidelity Funds - Asian Special Situations Fund SR-ACC-SGD | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.72 |
| 36 | Fidelity Funds-Emerging Markets Fund SR-ACC-SGD | Equity Emerging Mkts Global | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.72 |
| 37 | Franklin Templeton Investment Funds – Franklin U.S. Opportunities Fund AS (acc)SGD | Equity US | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.72 |
| 38 | Aberdeen Standard Thailand Equity Fund | Equity Thailand | HIGHER RISK | NARROWLY FOCUSED | 30/09/2018 | 1.71 |
| 39 | Fidelity Funds-China Focus Fund SR-ACC-SGD | Equity China | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.71 |
| 40 | First State Regional China Fund | Equity Greater China | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.71 |
| 41 | Schroder Asian Equity Yield Fund | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.71 |

| S/N | Name | Lipper Global | CPFIS Risk | CPF Focus | TER Date | Expense Ratio |
|-----|--|-----------------------------------|-------------|------------------------|------------|------------------|
| 42 | Schroder International Selection Fund Greater China Class F | Equity Greater China | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.71 |
| 43 | Aberdeen Standard Pacific Equity Fund | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 30/09/2018 | 1.70 |
| 44 | Fidelity Funds-Global Dividend Fund SR-MINCOME(G)-SGD | Equity Global Income | HIGHER RISK | BROADLY DIVERSIFIED | 31/10/2018 | 1.70 |
| 45 | First State Dividend Advantage | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.70 |
| 46 | Pinebridge US Large Cap Research Enhanced Fund - Class A5CP | Equity US | HIGHER RISK | NARROWLY FOCUSED | 31/12/2017 | 1.70 |
| 47 | Eastspring Investments Unit Trusts – Global Technology Fund | Equity Sector Information Tech | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.69 |
| 48 | Fidelity Funds – America Fund SR- ACC-SGD | Equity US | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.69 |
| 49 | Fidelity Funds – America Fund SR- ACC-USD | Equity US | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.69 |
| 50 | Fidelity Funds – European Growth Fund SR-ACC-Euro | Equity Europe | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.69 |
| 51 | Fidelity Funds – European Growth Fund SR-ACC-SGD | Equity Europe | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.69 |
| 52 | Fidelity Funds-America Fund SR- ACC-SGD (Hedged) | Equity US | HIGHER RISK | NARROWLY FOCUSED | 31/10/2018 | 1.69 |
| 53 | Fidelity Funds-Global Dividend Fund SR-ACC-SGD | Equity Global Income | HIGHER RISK | BROADLY DIVERSIFIED | 31/10/2018 | 1.69 |
| 54 | Legg Mason Martin Currie Southeast Asia Trust (Class A (SGD) Accumulating) | Equity ASEAN | HIGHER RISK | NARROWLY FOCUSED | 30/09/2018 | 1.69 |
| 55 | Schroder China Opportunities Fund | Equity China | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.68 |
| 56 | Schroder Global Emerging Market Opportunities Fund | Equity Emerging Mkts Global | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.66 |
| 57 | Eastspring Investments Unit Trusts - Dragon Peacock Fund | Equity Emerging Mkts Asia | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.65 |
| 58 | Allianz Global Investors Premier Funds – Allianz Global High Payout Fund - SGD | Equity Global Income | HIGHER RISK | BROADLY DIVERSIFIED | 30/06/2018 | 1.64 |
| 59 | Allianz Global Investors Premier Funds – Allianz Global High Payout Fund (USD Share Class) | Equity Global Income | HIGHER RISK | BROADLY DIVERSIFIED | 30/06/2018 | 1.64 |
| 60 | Eastspring Investments Unit Trusts – Singapore ASEAN Equity Fund | Equity Singapore | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.64 |
| 61 | Aberdeen Standard Singapore Equity Fund | Equity Singapore | HIGHER RISK | NARROWLY FOCUSED | 30/09/2018 | 1.63 |
| 62 | Eastspring Investments-Asian Equity Income Fund Class as Hedged | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.63 |
| 63 | Eastspring Investments - Japan Dynamic Fund Class As (hedged) | Equity Japan | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.59 |
| 64 | LionGlobal Japan Growth Fund (SGD) | Equity Japan | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.59 |
| 65 | LionGlobal Japan Growth Fund SGD-Hedged Class | Equity Japan | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.59 |

FOURTH QUARTER 2018 PERFORMANCE & RISK-MONITORING REPORT

| S/N | Name | Lipper Global | CPFIS Risk | CPF Focus | TER Date | Expense Ratio |
|-----|--|---------------------------------|------------------------|------------------------|------------|------------------|
| 66 | Amundi Opportunities-Amundi Singapore Dividend Growth (AS-D Class) | Equity Singapore | HIGHER RISK | NARROWLY FOCUSED | 31/05/2018 | 1.53 |
| 67 | LionGlobal Singapore / Malaysia Fund (SGD) | Equity Malaysia/Singapore | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.49 |
| 68 | LionGlobal Thailand Fund (SGD) | Equity Thailand | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.45 |
| 69 | United Singapore Growth Fund | Equity Singapore | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.37 |
| 70 | Schroder Asian Growth Fund | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.35 |
| 71 | Schroder Singapore Trust Class A | Equity Singapore | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.33 |
| 72 | PineBridge Asia Ex Japan Small Cap Equity Fund - Class Y | Equity Asia Pacific ex Japan | HIGHER RISK | NARROWLY FOCUSED | 31/12/2017 | 1.29 |
| 73 | Pinebridge US Large Cap Research Enhanced Fund - Class Y | Equity US | HIGHER RISK | NARROWLY FOCUSED | 31/12/2017 | 1.20 |
| 74 | Nikko AM Shenton Japan Fund (S\$) Class | Equity Japan | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 1.14 |
| 75 | Nikko AM Shenton Thrift Fund | Equity Singapore | HIGHER RISK | NARROWLY FOCUSED | 30/06/2018 | 0.91 |
| 76 | United Global Quality Growth Fund – Class C SGD Acc (Hedged) | Equity Global | HIGHER RISK | BROADLY DIVERSIFIED | N/A | N/A |
| 77 | Franklin Templeton Investment Funds – Templeton Global Balanced Fund AS (acc)SGD | Mixed Asset USD Bal - Global | MEDIUM TO HIGH RISK | BROADLY DIVERSIFIED | 30/06/2018 | 1.53 |
| 78 | Schroder Multi-Asset Revolution Class A | Mixed Asset SGD Balanced | MEDIUM TO HIGH RISK | BROADLY DIVERSIFIED | 30/06/2018 | 1.52 |
| 79 | Eastspring Investments Unit Trusts – Asian Balanced Fund | Mixed Asset SGD Balanced | MEDIUM TO HIGH RISK | NARROWLY FOCUSED | 30/06/2018 | 1.48 |
| 80 | PineBridge International Funds - Acorns of Asia Balanced Fund | Mixed Asset SGD Balanced | MEDIUM TO HIGH RISK | NARROWLY FOCUSED | 30/06/2018 | 1.47 |
| 81 | First State Bridge – Class A (Semi- Annually Distributing) | Mixed Asset SGD Balanced | MEDIUM TO HIGH RISK | NARROWLY FOCUSED | 30/06/2018 | 1.44 |
| 82 | Manulife Singapore Bond Fund (Class A) | Bond SGD | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 1.13 |
| 83 | Manulife Asia Pacific Investment Grade Bond Fund Class A | Bond Asia Pacific LC | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.93 |
| 84 | Legg Mason Western Asset Singapore Bond Fund (Class A (SGD) Accumulating) | Bond SGD | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/09/2018 | 0.90 |
| 85 | Schroder Asian Investment Grade Credit | Bond Asia Pacific LC | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.90 |
| 86 | PineBridge International Funds – Singapore Bond Fund | Bond SGD | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.86 |
| 87 | Legg Mason Western Asset Global Bond Trust (Class A (SGD) Accumulating) | Bond Global | LOW TO MEDIUM RISK | BROADLY DIVERSIFIED | 30/09/2018 | 0.85 |
| 88 | United Singapore Bond Fund | Bond SGD | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.82 |

| | Name | Lipper Global | CPFIS Risk | CPF Focus | TER Date | Expense Ratio |
|----|--|---------------|-----------------------|------------------------|------------|------------------|
| 89 | Schroder Singapore Fixed Income Fund Class A | Bond SGD | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.70 |
| 90 | United SGD Fund - Class A (ACC) SGD | Bond SGD | LOW TO MEDIUM RISK | BROADLY DIVERSIFIED | 30/06/2018 | 0.69 |
| 91 | LionGlobal TEAM - Singapore Fixed Income Investment (Class A) | Bond SGD | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.67 |
| 92 | Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class A | Bond SGD | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.62 |
| 93 | Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class AD | Bond SGD | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.62 |
| 94 | LionGlobal Short Duration Bond Fund Class A (SGD) (Dist) | Bond Global | LOW TO MEDIUM RISK | NARROWLY FOCUSED | 30/06/2018 | 0.61 |
| 95 | Nikko AM Shenton Short Term Bond Funds - Nikko AM Shenton Short Term Bond Fund (S\$) Class | Bond Global | LOW TO MEDIUM RISK | BROADLY DIVERSIFIED | 30/06/2018 | 0.51 |

Source: Central Provident Fund Board and Lipper

7.1.2 Full List of CPFIS–Included ILPs

| | Name (CPF) | Lipper Global | CPFIS Risk | CPF Focus | Detail | TER Date | Expense Ratio |
|----|--|----------------------------------|-------------|------------------------|---------------------|------------|------------------|
| 1 | Aviva Aberdeen Pacific Equity (SP) | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 2.94 |
| 2 | Aviva LionGlobal Japan Growth (SP) | Equity Japan | Higher Risk | Narrowly Focused | Japan | 30/06/2018 | 2.92 |
| 3 | UOB Life FOF Asia Top 50 Fund | Equity Asia Pacific | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 2.48 |
| 4 | Aviva Capital Growth (SP) | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 2.29 |
| 5 | UOB Life FOF Global Healthcare Fund | Equity Sector Healthcare | Higher Risk | Narrowly Focused | Healthcare | 30/06/2018 | 2.24 |
| 6 | PruLink Global Property Securities Fund | Equity Sector Real Est Global | Higher Risk | Narrowly Focused | Sector - Others | 30/06/2018 | 2.11 |
| 7 | AIA International Health Care Fund | Equity Sector Healthcare | Higher Risk | Narrowly Focused | Healthcare | 30/06/2018 | 2.06 |
| 8 | AIA Emerging Markets Equity Fund | Equity Emerging Mkts Global | Higher Risk | Narrowly Focused | Emerging Markets | 30/06/2018 | 1.75 |
| 9 | AIA India Opportunities Fund | Equity India | Higher Risk | Narrowly Focused | Country - Others | 30/06/2018 | 1.75 |
| 10 | AIA Portfolio 100 | Equity Global Income | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.75 |
| 11 | AXA Asian Growth Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.75 |
| 12 | AXA China Growth Fund | Equity Greater China | Higher Risk | Narrowly Focused | Greater China | 30/06/2018 | 1.75 |
| 13 | AXA Fortress Fund A | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.75 |
| 14 | AXA Fortress Fund B | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.75 |
| 15 | AXA Global Emerging Markets Equity Fund | Equity Emerging Mkts Global | Higher Risk | Narrowly Focused | Emerging Markets | 30/06/2018 | 1.75 |
| 16 | AXA Global Equity Blend | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.75 |
| 17 | AXA Global High Growth Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.75 |
| 18 | AXA India Fund | Equity India | Higher Risk | Narrowly Focused | Country - Others | 30/06/2018 | 1.75 |
| 19 | AXA Pacific Equity Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.75 |
| 20 | AXA Shariah Global Equity Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.75 |
| 21 | AXA Singapore Equity Fund | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.75 |
| 22 | AXA South East Asia Special Situations Fund | Equity ASEAN | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.75 |

| | Name (CPF) | Lipper Global | CPFIS Risk | CPF Focus | Detail | TER Date | Expense Ratio |
|----|--|-----------------------------------|-------------|------------------------|---------------------|------------|------------------|
| 23 | AXA Value Growth Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.75 |
| 24 | Manulife Global Emerging Markets Fund | Equity Emerging Mkts Global | Higher Risk | Narrowly Focused | Emerging Markets | 30/06/2018 | 1.75 |
| 25 | Manulife Golden Asia Growth Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.75 |
| 26 | Manulife Golden S.E.A Special Situations Fund | Equity ASEAN | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.75 |
| 27 | Manulife Golden Singapore Growth Fund | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.75 |
| 28 | Manulife India Equity Fund | Equity India | Higher Risk | Narrowly Focused | Country - Others | 30/06/2018 | 1.75 |
| 29 | Manulife Pacific Equity Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.75 |
| 30 | PruLink Emerging Markets Fund | Equity Emerging Mkts Global | Higher Risk | Narrowly Focused | Emerging Markets | 30/06/2018 | 1.75 |
| 31 | AIA Global Technology Fund | Equity Sector Information Tech | Higher Risk | Narrowly Focused | Technology | 30/06/2018 | 1.74 |
| 32 | GreatLink Global Emerging Markets Equity Fund | Equity Emerging Mkts Global | Higher Risk | Narrowly Focused | Emerging Markets | 30/06/2018 | 1.74 |
| 33 | Manulife European Equity Fund | Equity Europe | Higher Risk | Narrowly Focused | Europe | 30/06/2018 | 1.74 |
| 34 | TMLS Global Emerging Markets Equity Fund | Equity Emerging Mkts Global | Higher Risk | Narrowly Focused | Emerging Markets | 30/06/2018 | 1.74 |
| 35 | AIA Greater China Equity Fund | Equity Greater China | Higher Risk | Narrowly Focused | Greater China | 30/06/2018 | 1.73 |
| 36 | GreatLink Global Opportunities Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.73 |
| 37 | Manulife Golden Regional China Fund | Equity China | Higher Risk | Narrowly Focused | Greater China | 30/06/2018 | 1.73 |
| 38 | PruLink Pan European Fund | Equity Europe | Higher Risk | Narrowly Focused | Europe | 30/06/2018 | 1.73 |
| 39 | TMLS India Equity Fund | Equity India | Higher Risk | Narrowly Focused | Country - Others | 30/06/2018 | 1.73 |
| 40 | HSBC Insurance Ethical Global Equity Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.72 |
| 41 | PruLink America Fund | Equity US | Higher Risk | Narrowly Focused | North America | 30/06/2018 | 1.72 |
| 42 | PRUlink India Equity Fund | Equity India | Higher Risk | Narrowly Focused | Country - Others | 30/06/2018 | 1.72 |
| 43 | TMLS China Equity Fund | Equity China | Higher Risk | Narrowly Focused | Greater China | 30/06/2018 | 1.72 |
| 44 | HSBC Insurance Pacific Equity Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.71 |
| 45 | PruLink Greater China Fund | Equity Greater China | Higher Risk | Narrowly Focused | Greater China | 30/06/2018 | 1.71 |
| 46 | AIA Japan Equity Fund | Equity Japan | Higher Risk | Narrowly Focused | Japan | 30/06/2018 | 1.70 |
| 47 | TMLS Singapore Equity Fund | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.70 |

| | Name (CPF) | Lipper Global | CPFIS Risk | CPF Focus | Detail | TER Date | Expense Ratio |
|----|---|-----------------------------------|-------------|------------------------|---------------------|------------|------------------|
| 48 | PruLink Global Equity Fund | Equity Global Income | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.68 |
| 49 | PruLink Global Technology Fund | Equity Sector Information Tech | Higher Risk | Narrowly Focused | Technology | 30/06/2018 | 1.68 |
| 50 | Manulife Golden Worldwide Equity Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.67 |
| 51 | AIA Regional Equity Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.66 |
| 52 | GreatLink China Growth Fund | Equity Greater China | Higher Risk | Narrowly Focused | Greater China | 30/06/2018 | 1.66 |
| 53 | GreatLink Global Real Estate Securities Fund | Equity Sector Real Est Global | Higher Risk | Narrowly Focused | Sector - Others | 30/06/2018 | 1.65 |
| 54 | GreatLink Singapore Equities Fund | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.65 |
| 55 | Prulink China-India Fund | Equity Emerging Mkts Asia | Higher Risk | Narrowly Focused | Country - Others | 30/06/2018 | 1.64 |
| 56 | GreatLink Global Technology Fund | Equity Sector Information Tech | Higher Risk | Narrowly Focused | Technology | 30/06/2018 | 1.63 |
| 57 | Manulife Lifestyle Portfolios - Aggressive | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.63 |
| 58 | Manulife Lifestyle Portfolios - Growth | Mixed Asset SGD Aggressive | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.63 |
| 59 | GreatLink Asia Pacific Equity Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.61 |
| 60 | GreatLink Lion Japan Growth Fund | Equity Japan | Higher Risk | Narrowly Focused | Japan | 30/06/2018 | 1.60 |
| 61 | TMLS Global Equity Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.59 |
| 62 | GreatLink LifeStyle Dynamic Portfolio | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.58 |
| 63 | GreatLink Global Equity Alpha Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.56 |
| 64 | Manulife Asian Small-Cap Equity Fund | Equity Asia Pacific Sm&Mid Cap | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.55 |
| 65 | PruLink Asian Equity Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.53 |
| 66 | TMLS Multi-Asset 90 Fund | Mixed Asset SGD Aggressive | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.53 |
| 67 | GreatLink LifeStyle Progressive Portfolio | Mixed Asset SGD Aggressive | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.51 |
| 68 | GreatLink European Equity Fund | Equity Europe | Higher Risk | Narrowly Focused | Europe | 30/06/2018 | 1.47 |
| 69 | TMLS Asian Equity Fund | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.44 |
| 70 | Manulife Japan Growth Fund | Equity Japan | Higher Risk | Narrowly Focused | Japan | 30/06/2018 | 1.43 |
| 71 | Aviva MM Capital Growth | Equity Asia Pacific ex Japan | Higher Risk | Narrowly Focused | Asia | 30/06/2018 | 1.42 |

| | Name (CPF) | Lipper Global | CPFIS Risk | CPF Focus | Detail | TER Date | Expense Ratio |
|----|--|-----------------------------------|------------------------|------------------------|----------------------|------------|------------------|
| 72 | PruLink Singapore Growth Fund | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.42 |
| 73 | UOB LifeLink Global Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.40 |
| 74 | UOB LifeLink Growth Fund | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.40 |
| 75 | UOB Life FOF International Growth Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.39 |
| 76 | UOB Life FOF Growth Fund | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.37 |
| 77 | NTUC Global Technology Fund | Equity Sector Information Tech | Higher Risk | Narrowly Focused | Technology | 30/06/2018 | 1.31 |
| 78 | NTUC Global Equity Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.28 |
| 79 | NTUC AIM 2035 | Target Maturity Other | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.24 |
| 80 | NTUC AIM 2045 | Target Maturity Other | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.24 |
| 81 | NTUC Takaful Fund | Equity Global | Higher Risk | Broadly Diversified | N/A | 30/06/2018 | 1.24 |
| 82 | NTUC Singapore Equity Fund | Equity Singapore | Higher Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.73 |
| 83 | Aviva Income Growth (SP) | Mixed Asset SGD Conservative | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 2.47 |
| 84 | Aviva Balanced Growth (SP) | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 2.37 |
| 85 | Aviva Templeton Global Balanced (SP) - CPF | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 2.20 |
| 86 | PruLink Adapt 2035 | Target Maturity Other | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.67 |
| 87 | Aviva MM Income Growth | Mixed Asset SGD Conservative | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.60 |
| 88 | AIA Emerging Markets Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Regional - Others | 30/06/2018 | 1.55 |
| 89 | AIA Japan Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Country - Others | 30/06/2018 | 1.55 |
| 90 | AIA Portfolio 50 | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.55 |
| 91 | AIA Portfolio 70 | Mixed Asset SGD Aggressive | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.55 |
| 92 | AXA Asian Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.55 |
| 93 | AXA Global Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.55 |
| 94 | AXA Global Growth Fund | Mixed Asset SGD Aggressive | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.55 |
| 95 | AXA Singapore Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.55 |
| 96 | Manulife Income Series – Asian Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.55 |
| 97 | Manulife Income Series - Global Balanced Fund | Mixed Asset USD Bal - Global | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.55 |

FOURTH QUARTER 2018 PERFORMANCE & RISK-MONITORING REPORT

| S/N | Name (CPF) | Lipper Global | CPFIS Risk | CPF Focus | Detail | TER Date | Expense Ratio |
|-----|---|---------------------------------|------------------------|------------------------|---------------------|------------|------------------|
| 98 | AIA Global Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.54 |
| 99 | AIA Greater China Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Greater China | 30/06/2018 | 1.54 |
| 100 | AIA India Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Country - Others | 30/06/2018 | 1.54 |
| 101 | Aviva Schroder Multi Asset Revolution | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.54 |
| 102 | AIA Acorns of Asia Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.53 |
| 103 | PruLink Adapt 2025 | Target Maturity Other | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.53 |
| 104 | TMLS Multi-Asset 50 Fund | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.53 |
| 105 | TMLS Multi-Asset 70 Fund | Mixed Asset SGD Aggressive | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.53 |
| 106 | TMLS Multi-Asset 30 Fund | Mixed Asset SGD Conservative | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.52 |
| 107 | Aviva MM Balanced Growth | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.50 |
| 108 | PruLink Global Managed Fund | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.50 |
| 109 | PruLink Asian American Managed Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.48 |
| 110 | PruLink Asian Income and Growth Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.45 |
| 111 | Manulife Golden Global Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.43 |
| 112 | Manulife Lifestyle Portfolios - Moderate | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.43 |
| 113 | NTUC Asia Managed Fund | Mixed Asset SGD Aggressive | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.38 |
| 114 | GreatLink Global Supreme Fund | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.37 |
| 115 | Manulife Lifestyle Portfolios - Secure | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.36 |
| 116 | GreatLink Lifestyle Balanced Portfolio | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.35 |
| 117 | GreatLink Lion Asian Balanced Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.35 |
| 118 | PruLink Singapore ASEAN Managed Fund | Mixed Asset SGD Aggressive | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.35 |
| 119 | Manulife Golden Balanced Growth Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.33 |
| 120 | PruLink Singapore Managed Fund | Mixed Asset SGD Aggressive | Medium To High Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.33 |
| 121 | AIA Growth Fund | Mixed Asset SGD Aggressive | Medium To High Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.28 |

| S/N | Name (CPF) | Lipper Global | CPFIS Risk | CPF Focus | Detail | TER Date | Expense Ratio |
|-----|--|---------------------------------|------------------------|------------------------|-----------|------------|------------------|
| 122 | Manulife Lifestyle Portfolios - Conservative | Mixed Asset SGD Conservative | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.22 |
| 123 | NTUC AIM 2025 | Target Maturity Other | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.20 |
| 124 | NTUC Global Managed Fund (Growth) | Mixed Asset SGD Aggressive | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.17 |
| 125 | GreatLink Lifestyle Steady Portfolio | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.16 |
| 126 | NTUC Global Managed Fund (Balanced) | Mixed Asset SGD Balanced | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.14 |
| 127 | NTUC Singapore Managed Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Singapore | 30/06/2018 | 1.07 |
| 128 | NTUC Prime Fund | Mixed Asset SGD Balanced | Medium To High Risk | Narrowly Focused | Asia | 30/06/2018 | 1.06 |
| 129 | NTUC Global Managed Fund (Conservative) | Mixed Asset SGD Conservative | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.05 |
| 130 | GreatLink Lifestyle Secure Portfolio | Mixed Asset SGD Conservative | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 1.00 |
| 131 | TMLS Global Balanced Fund | Mixed Asset USD Bal - Global | Medium To High Risk | Broadly Diversified | N/A | 30/06/2018 | 0.84 |
| 132 | Aviva Legg Mason Western Asset Global Bond Trust (SP) | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 2.37 |
| 133 | Aviva Nikko AM Shenton Short Term Bond (SP) | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 2.04 |
| 134 | AIA Portfolio 30 | Mixed Asset SGD Conservative | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.95 |
| 135 | AXA Global Defensive Fund | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.95 |
| 136 | AXA Global Secure Fund | Mixed Asset SGD Conservative | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.95 |
| 137 | AXA Short Duration Bond Fund | Bond SGD | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.95 |
| 138 | AXA Singapore Bond Fund | Bond SGD | Low To Medium Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.95 |
| 139 | Manulife Singapore Bond Fund | Bond SGD | Low To Medium Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.95 |
| 140 | HSBC Insurance Global Bond Fund | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.94 |
| 141 | NTUC AIM NOW | Mixed Asset SGD Conservative | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.94 |
| 142 | TMLS Global Bond Fund | Bond SGD | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.93 |
| 143 | Manulife Income Series - Asia Pacific Investment Grade Bond Fund | Bond Asia Pacific LC | Low To Medium Risk | Narrowly Focused | Asia | 30/06/2018 | 0.92 |

| S/N | Name (CPF) | Lipper Global | CPFIS Risk | CPF Focus | Detail | TER Date | Expense Ratio |
|-----|--|------------------|-----------------------|------------------------|-----------|------------|------------------|
| 144 | TMLS Singapore Bond Fund | Bond SGD | Low To Medium Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.92 |
| 145 | AIA Global Bond Fund | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.91 |
| 146 | Manulife Golden International Bond Fund | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.90 |
| 147 | GreatLink Global Bond Fund | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.88 |
| 148 | NTUC Global Bond Fund | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.88 |
| 149 | AIA Regional Fixed Income Fund | Bond SGD | Low To Medium Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.87 |
| 150 | PruLink Global Bond Fund | Bond Global | Low To Medium Risk | Broadly Diversified | N/A | 30/06/2018 | 0.77 |
| 151 | GreatLink Short Duration Bond Fund | Bond Global | Low To Medium Risk | Narrowly Focused | Asia | 30/06/2018 | 0.63 |
| 152 | PruLink Singapore Dynamic Bond Fund | Bond SGD | Low To Medium Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.62 |
| 153 | NTUC Singapore Bond Fund | Bond SGD | Low To Medium Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.52 |
| 154 | Manulife Singapore Cash Fund | Money Market SGD | Lower Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.75 |
| 155 | GreatLink Cash Fund | Money Market SGD | Lower Risk | Broadly Diversified | N/A | 30/06/2018 | 0.32 |
| 156 | PruLink Singapore Cash Fund | Money Market SGD | Lower Risk | Broadly Diversified | N/A | 30/06/2018 | 0.32 |
| 157 | AIA S\$ Money Market Fund | Money Market SGD | Lower Risk | Narrowly Focused | Singapore | 30/06/2018 | 0.31 |

Source: Central Provident Fund Board and Lipper

Lipper Leader Rating Methodology

Unlike many competing quantitative measures, the strength of the Lipper Leader rating system is that it uses investor-centered criteria and not asset- or style/strategy-based criteria. These investor-centered criteria deliver clear, straightforward descriptions of a fund's success in meeting certain goals, such as preserving capital or building wealth through consistent, strong returns.

Investor-centered measures of fund performance and suitability

The Lipper Leader rating system consists of four metrics that provide clear, straightforward descriptions of a fund's success in meeting certain goals for constructing individualized portfolios.

- 🖊 Total Return
- 🖊 Consistent Return
- **4** Preservation
- 🖊 Expense

Determine whether you are investing in funds that fit your investment goals

Lipper Leaders provide context and perspective for making informed investment decisions but do not predict future performance. Funds are ranked against their Lipper peer group classifications each month for three-, five-, and ten-year periods and for the overall period. These ratings are based on an equalweighted average of percentile ranks of the four Lipper Leader metrics.

For each metric:

- **4** The top 20% of funds receive a rating of **"5"** and are named **Lipper Leaders**.
- The next 20% of funds receive a rating of "4."
- The middle 20% of funds receive a rating of "3."
- The next 20% of funds receive a rating of "2."
- The lowest 20% of funds receive a rating of "1."



Lipper Leader Metrics

Total Return

The Lipper Leader rating for Total Return denotes a fund that has provided superior total return (income from dividends and interest as well as capital appreciation) compared to a group of similar funds. A Lipper Leader for Total Return may be the best fit for investors who want the best historical return, without looking at risk. This measure alone may not be suitable for investors who want to avoid downside risk. For more risk-averse investors the Total Return rating can be used with the Preservation and/or Consistent Return ratings to make an appropriate selection that balances risk and return.

Expense

The Lipper Leader rating for Expense identifies a fund that has successfully managed to keep its expenses low relative to its peers and within its load structure. A Lipper Leader for Expense may be the best fit for investors who want to minimize their total costs. This measure can be used in conjunction with Total Return or Consistent Return to identify funds with above-average performance and lower-than-average cost.

Consistent Return

The Lipper Leader rating for Consistent Return identifies a fund that has provided relatively superior consistency and risk-adjusted returns compared to a group of similar funds. Funds that achieve high ratings for Consistent Return may be the best fit for investors who value a fund's year-to-year consistency relative to other funds in a particular peer group.

Investors are cautioned that some peer groups are inherently more volatile than others, and even Lipper Leaders for Consistent Return in the most volatile groups may not be well suited to shorter-term goals or less risk-tolerant investors.

Preservation

The Lipper Leader rating for Preservation is for a fund that has demonstrated a superior ability to preserve capital in a variety of markets compared with other funds in its asset class.

Choosing a Lipper Leader for Preservation may help to minimize downside risk relative to other fund choices in the same asset class. Investors are cautioned that equity funds have historically been more volatile than mixed-equity or fixed income funds, and that even a Lipper Leader for Preservation in more volatile asset classes may not be well suited to shorter-term goals or less risk-tolerant investors.

7.2 Investment Terminology Definitions

Lipper Global Classification

The Lipper Global Classification (LGC) is the unique fund classification system developed by Lipper to assist fund information users in comparing fund performance within a reasonable peer group. Its purpose is to create homogeneous groups of funds with comparable investment objectives. We refine our existing classifications to ensure meaningful peer groups and add new classifications in response to client requests and market trends.

For more information please visit http://www.lipperweb.com/Research/ClassMethodology.aspx

Quantitative Analysis

Return

All returns are calculated on a NAV-to-NAV basis in Singapore dollars with dividends reinvested. The gain or loss of a particular fund in a particular period is calculated with the following formula:

Performance

 $Percentage Growth = \frac{NAV_t - NAV_{t-1}}{NAV_t}$ NAV.-1

For simple return:

Number of Time Units Per Year Performance Annualized = $(1 + Percantage Growth)^{\frac{1}{Number of Time Units in Period}} - 1$

For log returns: **Return Relative to Benchmark** Time Units Per Year × Percentage Growth

Relative return is a measure of fulled beformation relative to its benchmark's performance. It is calculated as the difference between the fund's return and the benchmark's return over a given period. Higher relative return means better fund performance relative to the benchmark's performance.

Formula: Relative Return = Fund Return - Benchmark Return For simple return: Number of Time Units Per Year Relative Return Annualized = (1 + Relative Return) Number of Time Units in Period - 1 For log returns: Relative Return Annualized = $\frac{Number of Time Units Per Year}{V} \times Relative Return$ Number of Time Units in Period

Expense Ratio

Expense ratio expresses the management, trustee, and certain other expenses of a managed fund as a proportion of the net asset value of the fund. The expense ratio expresses the sum of all operating expenses charged on an ongoing basis to the fund's assets as a percentage of the fund's average net asset value and is calculated using the following formula:

Total Expense Ratio (%) = $\frac{\text{Total Operating Expenses}}{\text{Average Net Asset Value}} \times 100$

Information Ratio

Information ratio is a risk-adjusted measure of a fund's performance relative to its benchmark's performance. (The fund's benchmark can be found in the supplementary document Return Performance Review.) The information ratio is given by the ratio of average relative return (excess return) and tracking error. Tracking error or tracking risk refers to the volatility or standard deviation of the investment manager's excess return over the benchmark's return. A higher information ratio means better fund performance relative to the benchmark's performance on a risk-adjusted basis.

Formula:

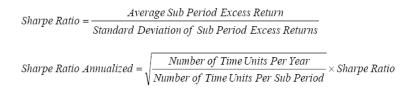
 $Information \ Ratio = \frac{Average \ Relative \ Return}{Tracking \ Error}$

 $Information Ratio Annualized = \sqrt{\frac{Number of Time Units Per Year}{Number of Time Units Per Sub Period}} \times Information Ratio$

Sharpe Ratio

The Sharpe ratio is a risk-adjusted measure of performance developed by William F. Sharpe; it is also known as the reward-to-volatility ratio. It is calculated as the average subperiod excess return divided by the standard deviation of subperiod excess return over a given period. Subperiod excess return is the difference between the investment return and the CPFIS-OA guaranteed interest rate for a subperiod. A higher Sharpe ratio means better fund performance relative to the risk-free rate on a risk-adjusted basis. The Sharpe ratio is a special form of information ratio where the risk-free rate is the benchmark.

Formula:



Standard Deviation

Standard deviation is a measure of investment risk or volatility in subperiod returns. It is calculated as the square root of variance, which is the average of the subperiod squared deviations over a given period. Higher standard deviation means higher risk.

Formula:

 $Variance = \frac{\sum (Sub \ Period \ Returns - Average \ Return)^2}{Number \ of \ Sub \ Periods - 1}$

Standard Deviation = $\sqrt{Variance}$

Standard Deviation Annualized = $\sqrt{\frac{Number of Time Units Per Year}{Number of Time Units Per Sub Period}} \times Standard Deviation}$

Maximum Gain

Maximum gain is the most positive monthly return over a given period.

Formula:

Maximum Gain = Max (Positive Sub-Period Returns)

Maximum Loss

Maximum loss is the most negative monthly return over a given period.

Formula:

Maximum Loss = Min (Negative Sub-Period Returns)

Return/Risk

The return/risk ratio is a measure of risk-adjusted performance. It is calculated as the average return divided by the standard deviation of subperiod returns over a given period. A higher return/risk ratio means better fund performance relative to fund volatility on a risk-adjusted basis.

Formula:

 $\begin{aligned} Return \ to \ Risk &= \frac{Average \ Return}{Standard \ Deviation} \\ Return \ to \ Risk \ Annualized &= \sqrt{\frac{Number \ of \ Time \ Units \ Per \ Year}{Number \ of \ Time \ Units \ Per \ Sub \ Period}} \times Return \ to \ Risk \end{aligned}$