

# FOURTH QUARTER 2017 PERFORMANCE & RISK- MONITORING REPORT

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



DECEMBER 2017

**Thomson Reuters Lipper**

© Thomson Reuters 2017. All rights reserved.



THOMSON REUTERS

**imas**

INVESTMENT MANAGEMENT  
ASSOCIATION OF SINGAPORE



Life Insurance Association  
Singapore

LIFE IS WORTH PROTECTING. INVEST IN IT.

## Contents

1	INTRODUCTION .....	3
2	UPDATE ON CPFIS-INCLUDED FUNDS .....	4
3	MARKET DEVELOPMENTS IN Q4 2017 .....	5
3.1	Equity Markets .....	5
3.2	Bond Markets.....	6
3.3	The Outlook.....	6
4	PERFORMANCE OF WORLDWIDE INDICES IN SGD.....	8
5	SUMMARY OF PERFORMANCE OF CPFIS-INCLUDED FUNDS .....	9
6	SUMMARY OF RISK-ADJUSTED PERFORMANCE.....	15
6.1	Lipper Leader Rating for CPFIS-Included Unit Trusts .....	16
6.2	Lipper Leader Rating for CPFIS-Included ILPs.....	20
7	Appendices.....	25
7.1	Complete List of Funds .....	25
7.1.1	Full List of CPFIS-Included Unit Trusts.....	25
7.1.2	Full List of CPFIS-Included ILPs .....	30
7.2	Investment Terminology Definitions.....	39

## 1 INTRODUCTION

Thomson Reuters 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 investment-linked insurance products included under the Central Provident Fund Investment Scheme (CPFIS). This report shows Lipper's findings for the three months ended December 31, 2017.

---

### **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. Thomson Reuters Lipper has used reasonable efforts in preparing this report based on data collected from the contributing asset management companies. However, Thomson Reuters 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, 2017, there were 89 unit trusts and 169 investment-linked insurance products (ILPs) included under the CPFIS<sup>1</sup>, for a total of 258 funds.

**Table 1 Number of CPFIS-Included Funds**

	As of End Q4-2017	As of End Q3-2017
Unit Trust	89	90
ILP	169	170
Total	258	260

Source: Central Provident Fund Board

**Table 2 Newly Listed Products**

There are no newly listed funds for Q4 2017.

**Table 3 Delisted Products**

	Risk Classification	CPFIS Focus	Detail	Lipper Classification
<b>UT</b>				
Deutsche China Equity Fund (Class A)	HIGHER RISK	NARROWLY FOCUSED	Greater China	Equity China
<b>ILP</b>				
Aviva Legg Mason Asian Enterprise Trust	HIGHER RISK	NARROWLY FOCUSED	Asia	Equity Asia Pacific Sm&Mid Cap

Source: Central Provident Fund Board

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

### 3 MARKET DEVELOPMENTS IN Q4 2017<sup>2</sup>

#### 3.1 Equity Markets

Most of global equity markets continued rallying for Q4 2017. The MSCI World Index continued rallying 5.62% (in U.S.-dollar terms) for Q4 2017, while it soared 4.96% for Q3 2017. Nikkei 225 and Dow Jones Industrial Index soared 11.83% and 10.33%, respectively and took the lead among most of the global major markets for Q4 2017. In Asia, India S&P BSE SENSEX, Hong Kong Hang Seng CR and Indonesia Jakarta SE Composite Index rallied 8.86%, 8.58% and 7.71%, respectively, while China Shanghai Composite CR slid 1.25% for Q4 2017.

**Table 4 Major Stock Market Indices (all return figures are in the respective local currencies)**

Name	Price	Period ended 31-December-2017				
	2017/12/31	3 Months	6 Months	9 Months	1 Year	3 Years
Nikkei 225 CR	22,764.94	11.83	13.63	20.39	19.10	30.45
Dow Jones Industrial Average CR	24,719.22	10.33	15.78	19.63	25.08	38.69
S&P BSE SENSEX	34,056.83	8.86	10.14	14.98	27.91	23.85
Hang Seng CR	29,919.15	8.58	16.13	24.09	35.99	26.75
Jakarta SE Composite Index	6,355.65	7.71	9.02	14.14	19.99	21.59
S&P/ASX 200 CR AUD	6,065.13	6.75	6.01	3.41	7.05	12.09
NASDAQ Composite CR	6,903.39	6.27	12.43	16.77	28.24	45.76
S&P 500 CR	2,673.61	6.12	10.32	13.16	19.42	29.86
Singapore Straits Times CR	3,402.92	5.68	5.47	7.17	18.13	1.12
Thailand SET CR	1,753.71	4.81	11.37	11.34	13.66	17.10
Philippine PSE Composite CR	8,558.42	4.74	9.12	17.05	25.11	18.36
FTSE 100 CR	7,687.77	4.27	5.13	4.98	7.63	17.08
KOSPI Composite CR	2,467.49	3.05	3.16	14.22	21.76	28.81
BOVESPA (Ibovespa) TR	76,402.08	2.84	21.47	17.57	26.86	52.78
TAIEX CR	10,642.86	2.49	2.38	8.47	15.01	14.35
Swiss Market Index CR	9,381.87	2.45	5.33	8.35	14.14	4.44
FTSE Bursa Malaysia KLCI CR	1,796.81	2.35	1.88	3.26	9.45	2.02
RTS CR	1,154.43	1.56	15.33	3.65	0.18	46.00
Xetra DAX TR	12,917.64	0.69	4.81	4.91	12.51	31.74
CAC 40 CR	5,312.56	-0.32	3.75	3.71	9.26	24.34
Shanghai Composite CR	3,307.17	-1.25	3.59	2.63	6.56	2.24

Source: Thomson Reuters Lipper

<sup>2</sup> 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.

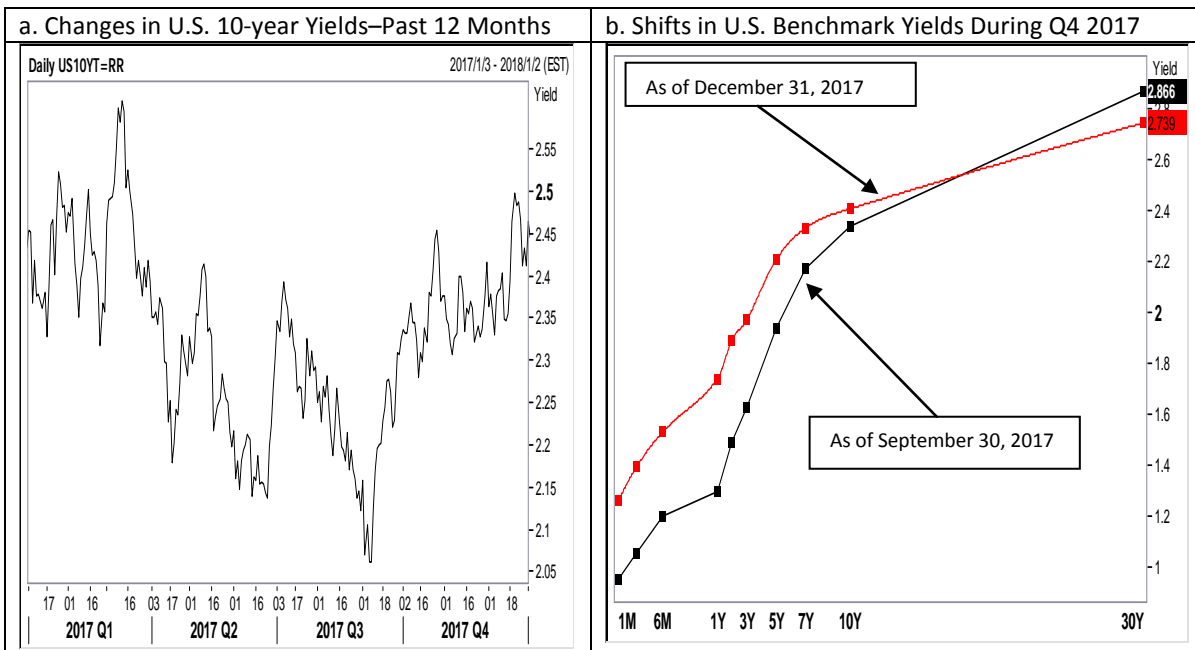
## 3.2 Bond Markets

The Citigroup WGBI rose 1.04% for the quarter (in USD). The ten-year Treasury yield ended at 2.411% for the fourth quarter of 2017 versus 2.326% at the end of Q3 2017.

## 3.3 The Outlook

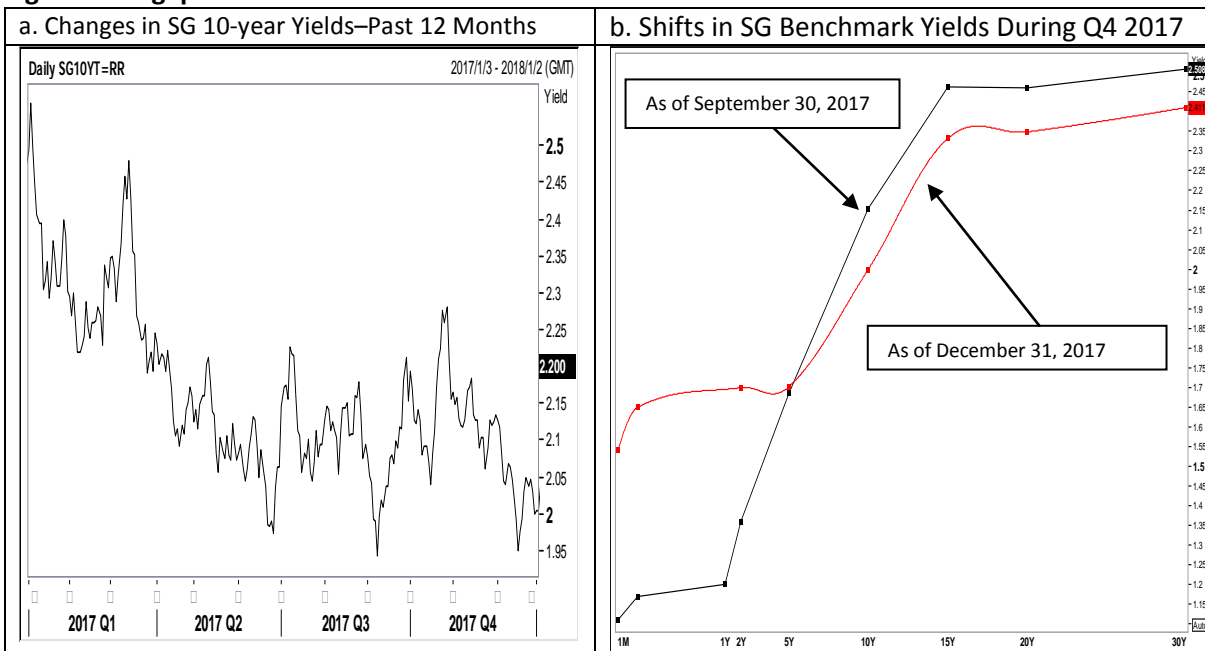
In December 2017, the U.S Fed raised its benchmark federal funds rate by 25 basis points to a range of 1.25% to 1.50%. However, President Trump's tax reform could boost US economy and move the Federal Reserve to raise interest rates faster than it anticipates. It expects to raise rates three times in 2018. Moreover, the dollar keeps weakening and it has triggered a lot of money flows into emerging markets. Global equity markets have enjoyed rallying for another quarter and hit record high. Investors should be aware of potential volatility risk.

Figure 1 U.S. Government Bond Market Movements



Source: Thomson Reuters

Figure 2 Singapore Government Bond Market Movements



Source: Thomson Reuters

## 4 PERFORMANCE OF WORLDWIDE INDICES IN SGD

Table 5 Worldwide Indices' Performance in SGD

Name	Period ended 31-December-2017				
	3 Months	6 Months	9 Months	1 Year	3 Years
MSCI AC Asia ex Japan TR USD	6.56	12.18	19.83	31.43	38.06
MSCI EM (Emerging Markets) TR USD	5.80	12.73	18.18	27.43	32.41
Singapore Straits Times CR	5.68	5.47	7.17	18.13	1.12
MSCI World TR USD	3.94	7.60	10.50	13.85	33.81
Thomson Reuters/SGX SFI	0.80	0.96	2.41	4.82	9.24
SIBOR SGD 3 Month	0.29	0.58	0.82	1.06	2.99
STOXX Europe 50 CR EUR	0.13	4.01	7.96	11.17	5.88
Citi WGBI TR USD	-0.56	-0.15	1.23	-0.57	6.20

Source: Thomson Reuters Lipper

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

### Indices

Citigroup WGBI TR  
 MSCI AC Asia ex Japan TR  
 MSCI EM (Emerging Markets) TR  
 MSCI World TR  
 SIBOR SGD 3 Months  
 Singapore Straits Times CR  
 Stoxx Europe 50 CR  
 Thomson Reuters/SGX SFI

### Financial Markets

Global bond markets  
 Asian ex-Japan equities  
 Emerging markets equities  
 Global equities  
 Singapore money markets  
 Singapore equities  
 European equities  
 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:

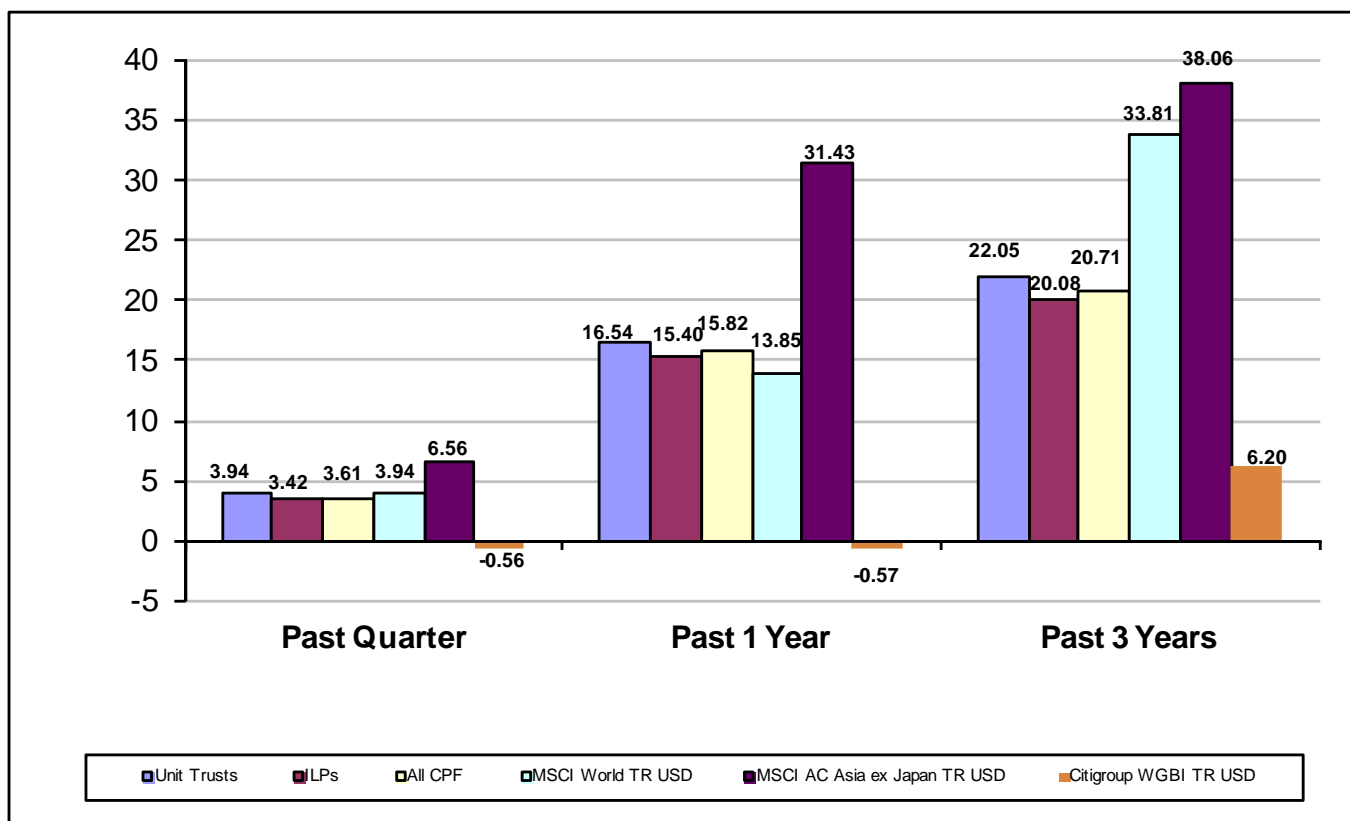
<https://www.cpf.gov.sg/Members/AboutUs/about-us-info/cpf-interest-rates>



## 5 SUMMARY OF PERFORMANCE OF CPFIS-INCLUDED FUNDS

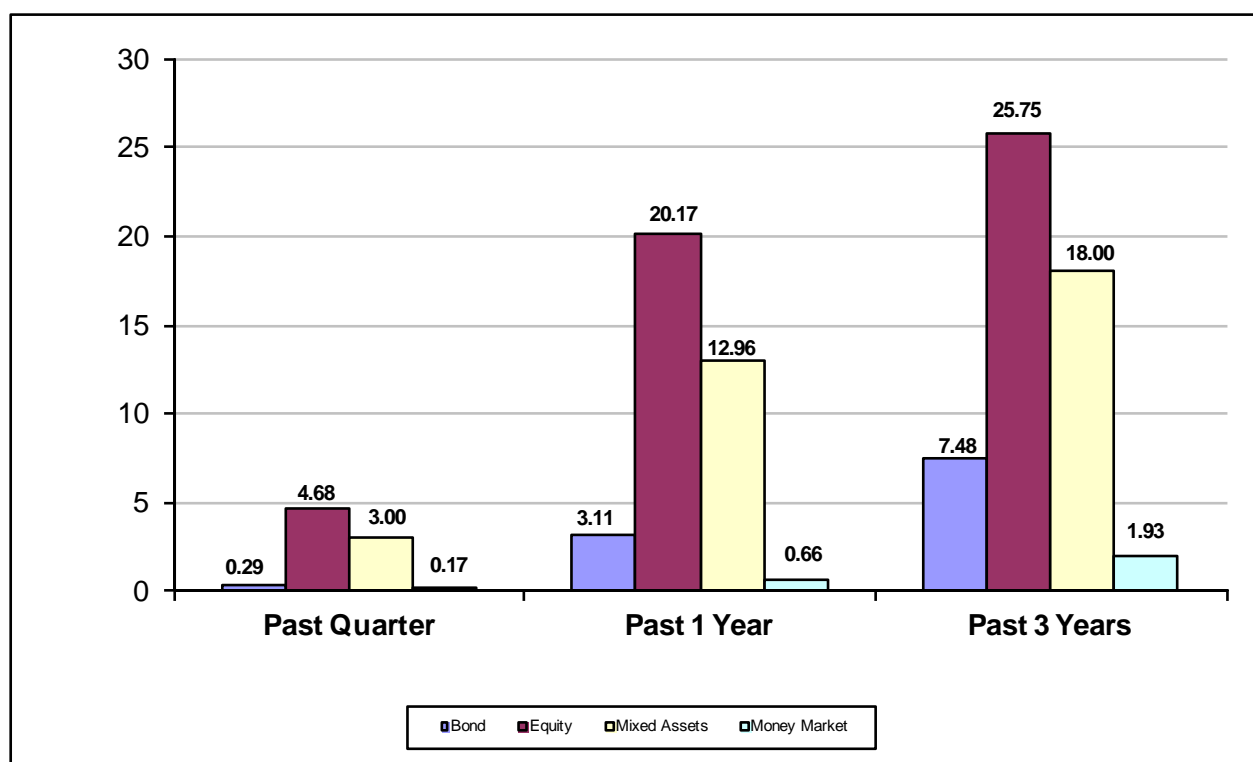
The average returns<sup>3</sup> of CPFIS-included unit trusts and ILPs are shown below:

Figure 3 Average Performance of CPFIS-Included Funds at End Q4 2017 (% in SGD)



Source: Thomson Reuters Lipper

<sup>3</sup> 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 2017 by Asset Class (% in SGD)**

Source: Thomson Reuters Lipper

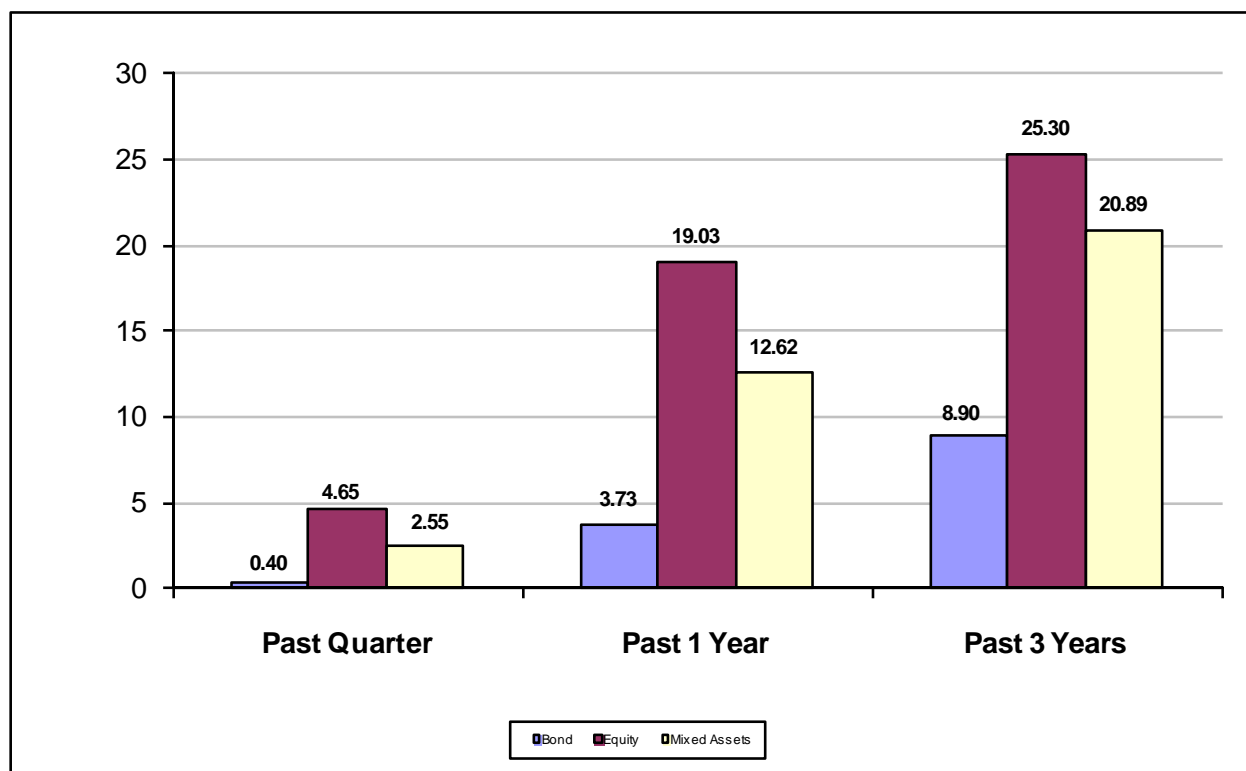
For the fourth quarter of 2017, the overall performance of CPFIS-included funds (unit trusts and ILPs combined) continued posting positive returns of 3.61% on average, given a positive return of 3.94% on average among CPFIS-included unit trusts and a positive return of 3.42% among CPFIS-included ILPs. For all the CPFIS-included funds, equity, mixed-asset, bond and money market types posted 4.68%, 3.00%, 0.29% and 0.17% respectively for the quarter. MSCI World TR USD and the MSCI AC Asia ex Japan Index rallied 3.94% and 6.56% respectively, while the Citigroup WGBI fell 0.56% for Q4 2017.

For the one-year period, the overall performance of CPFIS-included funds posted a positive return of 15.82% on average. CPFIS-included unit trusts rallied 16.54% on the year, and CPFIS-included ILPs soared 15.40% on average. During the same period, the key benchmark MSCI World TR USD rallied 13.85% and MSCI AC Asia ex Japan Index soared 31.43% respectively, while the Citigroup WGBI TR fell 0.57%. For the one-year period, equity products (+20.17% on average) outperformed the bond (+3.11% on average), mixed-asset (+12.96% on average) and money market (+0.66%) type offering.

For the three-year period, CPFIS-included funds achieved 20.71% growth on average, accounted for a gain of 22.05% on average from CPFIS-included unit trusts and 20.08% on average from CPFIS-included ILPs. During the same period, MSCI World TR USD and MSCI AC Asia ex Japan Index rallied 33.81% and 38.06% respectively, while the Citigroup WGBI TR achieved 6.20%. Equity type was the leading gainers (+25.75%) and bond portfolio posted 7.48% return on average for the period.

The average returns of CPFIS-included unit trusts by asset class<sup>4</sup> are shown below:

**Figure 5 Average Performance of CPFIS-Included Unit Trusts at End Q4-2017 by Asset Class (% in SGD)**



Source: Thomson Reuters Lipper

During fourth quarter 2017, equity and mixed-asset types of UT portfolios posted positive return of 4.65% and 2.55% on average, while bond type only posted positive return of 0.40%.

On average for the one-year period, all asset types of UT portfolios posted positive return. Equity, mixed-asset and bond type posted positive return of 19.03%, 12.62% and 3.73% on average respectively.

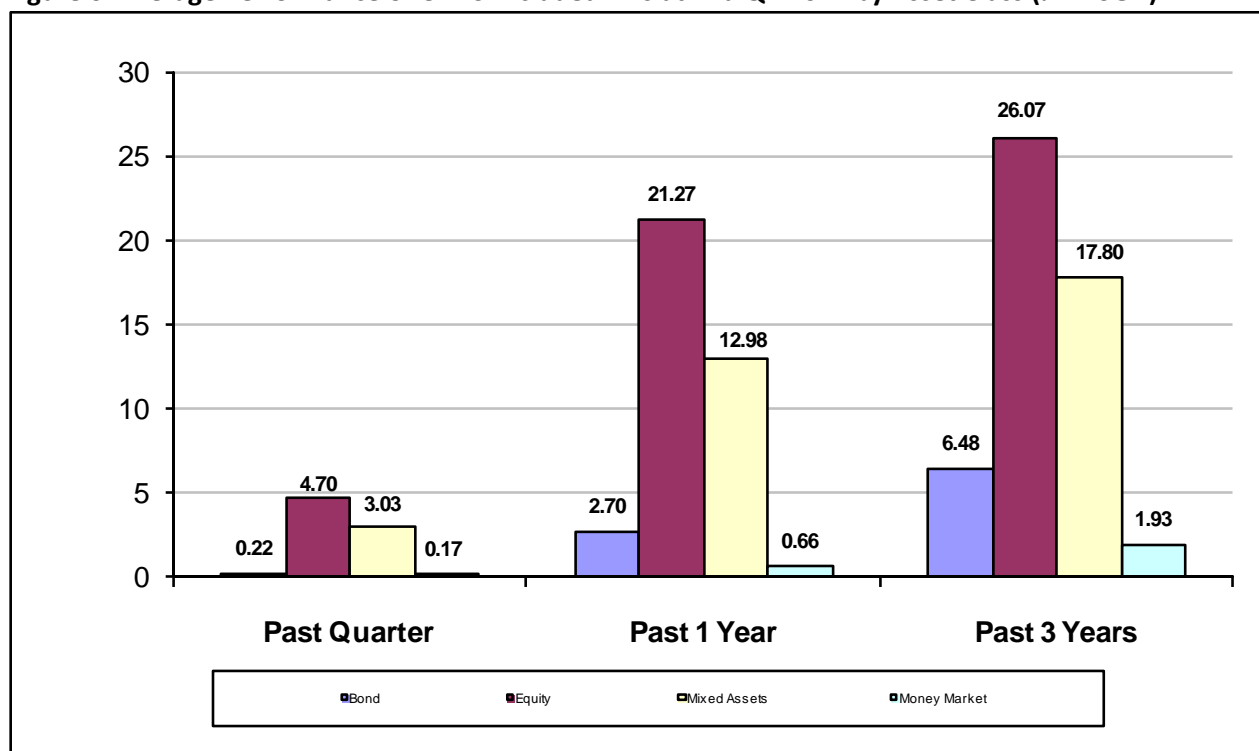
Equity products (+25.30%) outperformed the other asset class offerings over the three-year period (through December 2017), with mixed-asset and bond types posting gains of 20.89% and 8.90% on average respectively.

<sup>4</sup> Definition of asset types is 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 Q4-2017 by Asset Class (% in SGD)**



Source: Thomson Reuters Lipper

For fourth quarter 2017, ILP portfolios all posted positive returns. Equity, mixed-asset, bond and money market types of ILP portfolios posted positive returns of 4.70%, 3.03%, 0.22% and 0.17% on average respectively.

For the one-year period, equity products (+21.27% on average) outperformed the bond offerings (+2.70% on average), mixed-asset type (+12.98% on average) and money market (+0.66% on average). For the three-year period, equity funds were the leading gainers (+26.07%). Bond, mixed-asset and money market portfolios delivered 6.48%, 17.80% and 1.93% growth on average respectively.

The average returns of CPFIS-included unit trusts by Lipper Global Classification<sup>5</sup> are shown below:

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

Name	% Growth	% Growth	% Growth	% Growth	% Growth
	3M 30/09/2017	6M 30/06/2017	9M 31/03/2017	1Y 31/12/2016	3Y 31/12/2014
	To 31/12/2017	To 31/12/2017	To 31/12/2017	To 31/12/2017	To 31/12/2017
Bond Global (4)	0.23	0.52	1.45	2.21	6.16
Bond SGD (8)	0.56	1.04	2.36	4.71	10.52
Equity ASEAN (1)	6.24	3.80	6.42	8.28	-7.75
Equity Asia Pacific (2)	8.13	10.47	15.95	20.88	30.87
Equity Asia Pacific ex Japan (9)	5.48	9.64	15.17	25.78	26.48
Equity Asia Pacific Sm&Mid Cap (3)	4.18	9.06	11.74	21.69	33.03
Equity China (2)	4.80	13.36	21.46	32.00	46.36
Equity Emerging Mkts Asia (1)	7.76	12.95	19.97	33.01	42.09
Equity Emerging Mkts Global (4)	4.44	11.23	17.24	26.34	27.88
Equity Europe (6)	1.34	5.05	10.96	15.58	27.57
Equity Global (6)	3.20	7.84	8.65	11.44	15.21
Equity Global Income (5)	1.77	4.52	6.69	8.49	20.59
Equity Greater China (5)	6.02	12.80	21.07	31.79	33.59
Equity India (3)	8.59	8.08	9.75	24.33	34.25
Equity Indonesia (1)	-1.36	-1.51	1.05	4.68	-5.93
Equity Japan (4)	8.05	13.62	20.64	21.94	44.92
Equity Korea (1)	6.28	-7.26	-5.89	1.95	-3.85
Equity Malaysia (1)	4.47	4.27	8.21	11.62	-5.36
Equity Malaysia/Singapore (1)	5.95	5.99	8.01	15.94	1.41
Equity Sector Biotechnology (1)	-7.19	-0.55	-0.36	8.02	1.72
Equity Sector Information Tech (1)	6.89	14.59	21.19	33.20	60.59
Equity Sector Real Est Global (1)	2.40	2.90	4.91	2.83	9.35
Equity Singapore (6)	6.09	7.94	10.91	22.47	13.96
Equity Thailand (3)	7.60	14.11	17.10	23.63	29.43
Mixed Asset SGD Balanced (4)	3.13	6.72	9.28	14.06	20.89
Mixed Asset USD Bal - Global (1)	0.27	2.84	4.47	6.86	0.00
Equity US (7)	3.72	6.03	6.96	9.79	33.10
Absolute Return Other (1)	5.65	6.25	6.25	11.98	19.87
Equity Sector Healthcare (2)	-0.95	0.38	5.86	13.32	25.58
Equity Sector Financials (1)	3.82	8.41	14.07	17.46	25.49
Bond Asia Pacific LC (2)	0.06	0.76	1.61	2.85	7.92
Equity Japan Income (2)	8.99	14.18	18.24	20.04	51.28
Grand Total (99)	3.94	7.09	10.61	16.54	22.05

Source: Thomson Reuters Lipper

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

<sup>5</sup> 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:

**Table 7 Average Performance of CPFIS-Included ILPs by Lipper Global Classification (% Growth in SGD)**

Name	% Growth	% Growth	% Growth	% Growth	% Growth
	3M 30/09/2017	6M 30/06/2017	9M 31/03/2017	1Y 31/12/2016	3Y 31/12/2014
	To 31/12/2017	To 31/12/2017	To 31/12/2017	To 31/12/2017	To 31/12/2017
Bond Global (12)	0.00	0.02	1.25	1.49	4.37
Bond SGD (7)	0.65	1.25	2.48	4.87	10.83
Equity ASEAN (2)	6.23	3.78	6.37	8.22	-8.12
Equity Asia Pacific (1)	5.89	7.59	13.61	17.91	24.67
Equity Asia Pacific ex Japan (14)	5.15	8.67	14.94	26.47	24.76
Equity Asia Pacific Sm&Mid Cap (1)	12.80	19.78	20.46	32.05	27.49
Equity China (3)	4.92	15.06	21.95	32.82	36.72
Equity Emerging Mkts Asia (1)	7.77	12.96	19.99	33.05	42.14
Equity Emerging Mkts Global (6)	4.59	12.11	18.88	27.95	30.44
Equity Europe (4)	1.54	5.72	13.52	17.76	21.12
Equity Global (17)	3.11	6.69	9.33	13.16	21.57
Equity Global Income (1)	2.93	6.14	7.19	6.90	20.63
Equity Greater China (4)	6.02	14.61	24.19	35.53	44.54
Equity India (5)	5.92	4.62	9.93	24.07	28.74
Equity Japan (5)	7.98	12.10	18.61	20.75	40.89
Equity Sector Information Tech (4)	4.72	11.60	17.83	29.98	60.98
Equity Sector Real Est Global (2)	1.83	1.65	2.40	0.13	8.09
Equity Singapore (10)	5.78	6.69	9.73	21.33	11.80
Mixed Asset SGD Aggressive (13)	3.89	6.55	10.20	15.61	17.99
Mixed Asset SGD Balanced (32)	3.09	5.35	8.70	13.56	19.21
Mixed Asset SGD Conservative (10)	1.70	2.73	4.81	7.31	11.16
Mixed Asset USD Bal - Global (1)	0.29	2.83	4.45	6.79	13.69
Money Market SGD (5)	0.17	0.32	0.47	0.66	1.93
Target Maturity Other (5)	3.66	6.56	10.50	15.09	21.65
Equity US (1)	3.07	3.13	2.31	1.27	21.66
Bond Other Hedged (1)	-0.08	-0.16	1.68	1.93	3.41
Equity Sector Healthcare (2)	-1.01	0.34	5.89	13.35	25.70
Bond Asia Pacific LC (1)	0.19	0.71	1.50	2.68	8.71
Grand Total (170)	3.42	6.02	9.74	15.40	20.08

Source: Thomson Reuters 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."

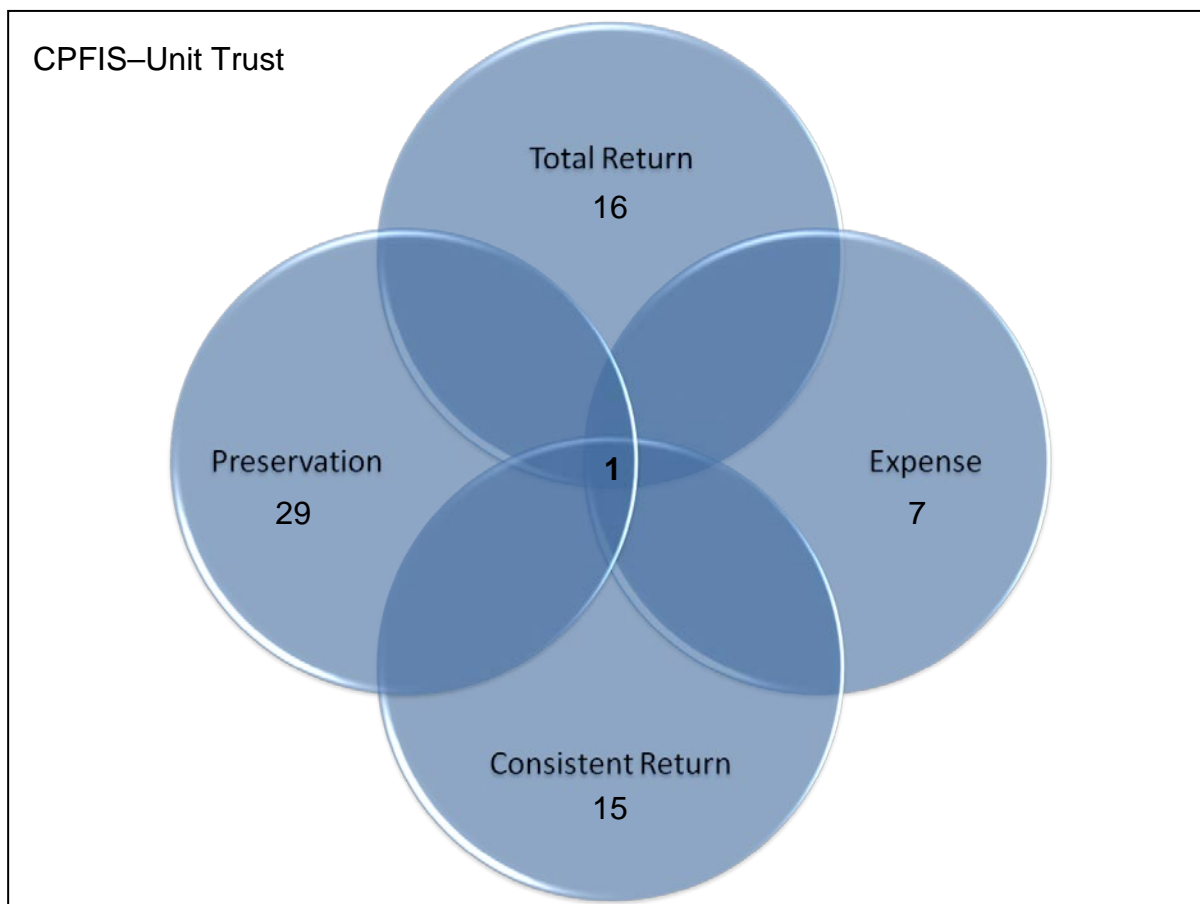
The middle 20% of funds receive a rating of "3."

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

Figure 6 Venn Diagram of CPFIS-Included Unit Trusts With a Lipper Leader Rating (Rating of “5”)



Source: Thomson Reuters Lipper

As of the end of December 2017, 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: 16 funds
- Consistent Return: 15 funds
- Preservation: 29 funds
- Expense: 7 funds

LionGlobal Short Duration Bond Fund Class A (SGD) (Dist) is one and the only CPFIS-included UT received a rating of “5” (Lipper Leader) in all four metrics combined.



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

Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
AB SICAV I-International Health Care Portfolio (Class A) - SGD	Equity Sector Healthcare	Leader	2	Leader	2
Aberdeen Asian Smaller Companies Fund	Equity Asia Pacific Sm&Mid Cap	1	3	1	4
Aberdeen China Opportunities Fund	Equity Greater China	1	4	1	2
Aberdeen European Opportunities Fund	Equity Europe	1	3	1	2
Aberdeen Global Emerging Markets Fund	Equity Emerging Mkts Global	2	3	2	3
Aberdeen Global Opportunities Fund	Equity Global	2	3	1	Leader
Aberdeen India Opportunities Fund	Equity India	1	3	2	1
Aberdeen Indonesia Equity Fund	Equity Indonesia	1	4	2	1
Aberdeen Malaysian Equity Fund	Equity Malaysia	2	3	2	2
Aberdeen Pacific Equity Fund	Equity Asia Pacific ex Japan	2	3	1	4
Aberdeen Singapore Equity Fund	Equity Singapore	4	3	3	3
Aberdeen Thailand Equity Fund	Equity Thailand	1	4	1	3
Allianz Europe Equity Growth - Class AT (H2-SGD)	Equity Europe	4	2	Leader	1
Allianz Global Investors Premier Funds – Allianz Global High Payout Fund - SGD	Equity Global Income	3	3	3	Leader
Allianz Global Investors Premier Funds – Allianz Global High Payout Fund (USD Share Class)	Equity Global Income	3	3	3	Leader
Allianz Oriental Income - Class AT (SGD)	Equity Asia Pacific	4	3	4	Leader
Amundi Opportunities-Amundi Singapore Dividend Growth (AS-D Class)	Equity Singapore	2	3	2	2
APS Alpha Fund (SGD)	Absolute Return Other	Leader	Leader	Leader	2
Deutsche Lion Bond Fund (Class A)	Bond Global	4	4	4	Leader
Eastspring Investments - Japan Dynamic Fund Class As (hedged)	Equity Japan	2	3	4	1
Eastspring Investments Unit Trusts – Asian Balanced Fund	Mixed Asset SGD Balanced	1	4	1	3
Eastspring Investments Unit Trusts - Dragon Peacock Fund	Equity Emerging Mkts Asia	3	4	3	3
Eastspring Investments Unit Trusts – Global Technology Fund	Equity Sector Information Tech	4	4	3	3
Eastspring Investments Unit Trusts – Pan European Fund	Equity Europe	Leader	3	Leader	3
Eastspring Investments Unit Trusts – Singapore ASEAN Equity Fund	Equity Singapore	1	3	1	3
Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class A	Bond SGD	Leader	4	Leader	Leader
Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class AD	Bond SGD	Leader	4	Leader	Leader
Eastspring Investments-Asian Equity Income Fund Class as Hedged	Equity Asia Pacific ex Japan	1	4	1	1
First State Asian Growth Fund	Equity Asia Pacific ex Japan	1	3	2	Leader
First State Bridge	Mixed Asset SGD Balanced	Leader	4	Leader	Leader
First State Dividend Advantage	Equity Asia Pacific ex Japan	3	3	4	Leader
First State Global Resources Fund	Equity Global	1	3	1	1
First State Regional China Fund	Equity Greater China	4	4	4	3
Franklin Templeton Investment Funds - Templeton Emerging Markets Fund A(acc)SGD	Equity Emerging Mkts Global	4	1	4	3
Franklin Templeton Investment Funds – Franklin Biotechnology Discovery Fund A(acc)SGD	Equity Sector Biotechnology	2	4	2	1

**FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT**

Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
Franklin Templeton Investment Funds – Templeton Asian Growth Fund A(acc)SGD	Equity Asia Pacific ex Japan	1	1	1	2
Franklin Templeton Investment Funds – Templeton China Fund A(acc)SGD	Equity Greater China	2	1	1	2
Franklin Templeton Investment Funds – Templeton European Fund A(acc)SGD	Equity Europe	4	2	3	3
Franklin Templeton Investment Funds – Templeton Korea Fund A(acc)SGD	Equity Korea	2	2	1	1
Franklin Templeton Investment Funds – Templeton Thailand Fund A(acc)SGD	Equity Thailand	Leader	2	Leader	Leader
Legg Mason Martin Currie Southeast Asia Trust (Class A (SGD) Accumulating)	Equity ASEAN	1	3	1	2
Legg Mason Western Asset Global Bond Trust (Class A (SGD) Accumulating)	Bond Global	2	4	3	Leader
Legg Mason Western Asset Singapore Bond Fund (Class A (SGD) Accumulating)	Bond SGD	3	2	3	Leader
LionGlobal Japan Growth Fund (SGD)	Equity Japan	Leader	3	Leader	4
LionGlobal Japan Growth Fund SGD-Hedged Class	Equity Japan	3	3	3	1
LionGlobal Short Duration Bond Fund Class A (SGD) (Dist)	Bond Global	Leader	Leader	Leader	Leader
LionGlobal Singapore / Malaysia Fund (SGD)	Equity Malaysia/Singapore	2	Leader	2	3
LionGlobal TEAM - Singapore Fixed Income Investment (Class A)	Bond SGD	3	3	3	Leader
LionGlobal Thailand Fund (SGD)	Equity Thailand	4	3	4	2
Manulife Asia Pacific Investment Grade Bond Fund Class A	Bond Asia Pacific LC	4	Leader	3	Leader
Nikko AM Asia Investment Funds - Nikko AM Shenton Global Property Securities Fund S\$ Class	Equity Sector Real Est Global	3	2	3	3
Nikko AM Shenton Japan Fund (S\$) Class	Equity Japan	Leader	4	4	4
Nikko AM Shenton Short Term Bond Funds - Nikko AM Shenton Short Term Bond Fund (S\$) Class	Bond Global	4	Leader	4	Leader
Nikko AM Shenton Thrift Fund	Equity Singapore	Leader	Leader	Leader	4
PineBridge Asia Ex Japan Small Cap Equity Fund - Class A5CP	Equity Asia Pacific Sm&Mid Cap	Leader	2	Leader	Leader
PineBridge Asia Ex Japan Small Cap Equity Fund - Class Y	Equity Asia Pacific Sm&Mid Cap	Leader	4	Leader	Leader
Pinebridge India Equity Fund - Class A5CP	Equity India	2	3	4	2
PineBridge International Funds - Acorns of Asia Balanced Fund	Mixed Asset SGD Balanced	Leader	4	Leader	4
PineBridge International Funds - Singapore Bond Fund	Bond SGD	4	2	4	Leader
Pinebridge US Large Cap Research Enhanced Fund - Class Y	Equity US	4	4	4	Leader
Schroder Asian Equity Yield Fund	Equity Asia Pacific ex Japan	2	3	2	Leader
Schroder Asian Growth Fund	Equity Asia Pacific ex Japan	Leader	4	Leader	Leader
Schroder Asian Investment Grade Credit	Bond Asia Pacific LC	3	Leader	3	Leader
Schroder China Opportunities Fund	Equity China	4	3	4	2
Schroder Global Emerging Market Opportunities Fund	Equity Emerging Mkts Global	4	3	4	4
Schroder Multi-Asset Revolution Class A	Mixed Asset SGD Balanced	4	3	4	Leader
Schroder Singapore Fixed Income Fund Class A	Bond SGD	1	3	1	Leader
Schroder Singapore Trust Class A	Equity Singapore	4	4	Leader	3
United Asia Top-50 Fund	Equity Asia Pacific	2	1	2	4
United Global Financials Fund	Equity Sector Financials	3	1	1	2
United Global Healthcare Fund	Equity Sector Healthcare	4	2	4	1
United International Growth Fund	Equity Global	3	4	2	Leader

## FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

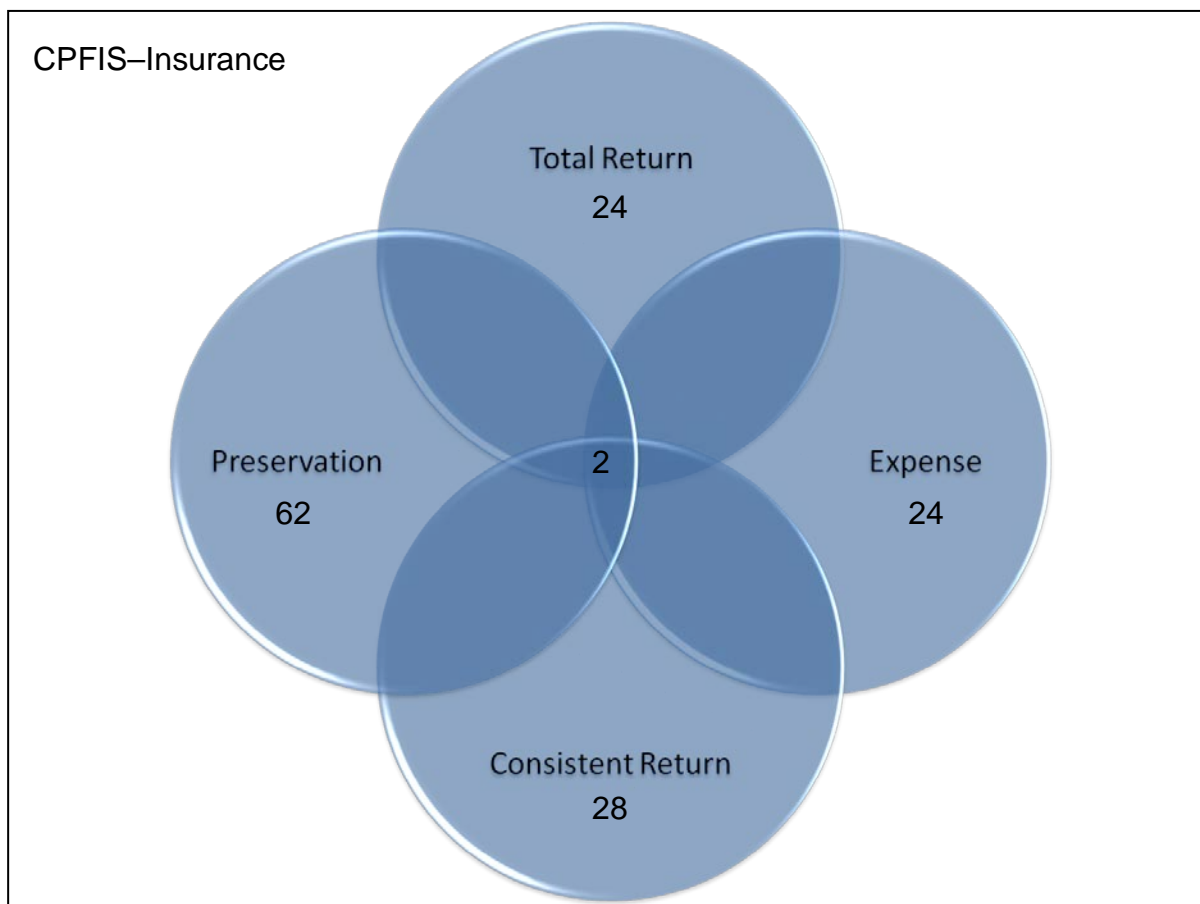
---

Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
United SGD Fund - Class A (ACC) SGD	Bond SGD	2	3	2	Leader
United Singapore Bond Fund	Bond SGD	4	3	4	Leader
United Singapore Growth Fund	Equity Singapore	4	4	4	2

Source: Thomson Reuters Lipper

## 6.2 Lipper Leader Rating for CPFIS-Included ILPs

Figure 7 Venn Diagram of CPFIS-Included ILPs With a Lipper Leader Rating (Rating of “5”)



Source: Thomson Reuters Lipper

As of the end of December 2017 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: 24 funds
- Consistent Return: 28 funds
- Preservation: 62 funds
- Expense: 24 funds

Two of the CPFIS-included ILPs received a rating of “5” (Lipper Leader) in all four metrics combined. They are: GreatLink Short Duration Bond Fund and NTUC Global Managed Fund (Growth).

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

Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
AIA Acorns of Asia Fund	Mixed Asset SGD Balanced	Leader	3	Leader	4
AIA Emerging Markets Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	4
AIA Emerging Markets Equity Fund	Equity Emerging Mkts Global	4	3	4	4
AIA Global Balanced Fund	Mixed Asset SGD Balanced	4	3	4	Leader
AIA Global Bond Fund	Bond Other Hedged	N/A	N/A	N/A	Leader
AIA Global Resources Fund	Equity Global	1	3	1	1
AIA Global Technology Fund	Equity Sector Information Tech	4	4	4	3
AIA Greater China Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	2
AIA Greater China Equity Fund	Equity Greater China	Leader	4	4	2
AIA Growth Fund	Mixed Asset SGD Aggressive	2	Leader	2	1
AIA India Balanced Fund	Mixed Asset SGD Balanced	4	3	4	1
AIA India Opportunities Fund	Equity India	1	3	2	1
AIA International Health Care Fund	Equity Sector Healthcare	Leader	2	Leader	2
AIA Japan Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	3
AIA Japan Equity Fund	Equity Japan	4	3	2	3
AIA Portfolio 100	Equity Global Income	3	2	3	Leader
AIA Portfolio 30	Mixed Asset SGD Conservative	4	Leader	4	Leader
AIA Portfolio 50	Mixed Asset SGD Balanced	3	3	3	Leader
AIA Portfolio 70	Mixed Asset SGD Aggressive	4	4	4	4
AIA Regional Equity Fund	Equity Asia Pacific ex Japan	Leader	3	Leader	Leader
AIA Regional Fixed Income Fund	Bond SGD	4	2	4	Leader
AIA S\$ Money Market Fund	Money Market SGD	N/A	N/A	N/A	N/A
Aviva Aberdeen Pacific Equity (SP)	Equity Asia Pacific ex Japan	2	1	1	3
Aviva Balanced Growth (SP)	Mixed Asset SGD Balanced	Leader	1	Leader	3
Aviva Capital Growth (SP)	Equity Asia Pacific ex Japan	Leader	1	4	4
Aviva Income Growth (SP)	Mixed Asset SGD Conservative	3	2	3	Leader
Aviva Legg Mason Western Asset Global Bond Trust (SP)	Bond Global	1	1	1	Leader
Aviva LionGlobal Japan Growth (SP)	Equity Japan	4	1	4	4
Aviva MM Balanced Growth	Mixed Asset SGD Balanced	Leader	3	Leader	3
Aviva MM Capital Growth	Equity Asia Pacific ex Japan	Leader	4	Leader	Leader
Aviva MM Income Growth	Mixed Asset SGD Conservative	Leader	2	Leader	Leader
Aviva Nikko AM Shenton Short Term Bond (SP)	Bond Global	3	1	2	Leader
Aviva Schroder Multi Asset Revolution	Mixed Asset SGD Balanced	4	Leader	4	Leader
AXA Asian Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	4
AXA Asian Growth Fund	Equity Asia Pacific ex Japan	3	4	3	3
AXA China Growth Fund	Equity Greater China	3	4	3	2
AXA Fortress Fund A	Equity Singapore	1	2	1	4
AXA Fortress Fund B	Equity Singapore	1	2	1	3
AXA Global Balanced Fund	Mixed Asset SGD Balanced	3	3	3	Leader
AXA Global Defensive Fund	Bond Global	2	4	2	Leader
AXA Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	3	3	4	4
AXA Global Equity Blend	Equity Global	4	3	4	4
AXA Global Growth Fund	Mixed Asset SGD Aggressive	4	4	4	4
AXA Global High Growth Fund	Equity Global	3	3	3	4
AXA Global Secure Fund	Mixed Asset SGD Conservative	3	Leader	4	Leader

FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
AXA India Fund	Equity India	1	3	2	1
AXA Pacific Equity Fund	Equity Asia Pacific ex Japan	2	3	1	4
AXA Singapore Balanced Fund	Mixed Asset SGD Balanced	2	3	1	3
AXA Singapore Bond Fund	Bond SGD	4	1	4	Leader
AXA Singapore Equity Fund	Equity Singapore	4	2	3	3
AXA South East Asia Special Situations Fund	Equity ASEAN	1	3	1	2
AXA Value Growth Fund	Equity Asia Pacific ex Japan	3	3	3	4
GreatLink Asia Pacific Equity Fund	Equity Asia Pacific ex Japan	2	3	1	4
GreatLink China Growth Fund	Equity Greater China	3	4	3	2
GreatLink European Equity Fund	Equity Europe	2	Leader	1	2
GreatLink Global Bond Fund	Bond Global	4	4	4	Leader
GreatLink Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	3	3	4	4
GreatLink Global Equity Alpha Fund	Equity Global	3	3	3	4
GreatLink Global Opportunities Fund	Equity Global	2	3	1	Leader
GreatLink Global Real Estate Securities Fund	Equity Sector Real Est Global	4	4	4	Leader
GreatLink Global Supreme Fund	Mixed Asset SGD Balanced	2	Leader	3	Leader
GreatLink Global Technology Fund	Equity Sector Information Tech	3	4	4	4
GreatLink Lifestyle Balanced Portfolio	Mixed Asset SGD Balanced	4	Leader	4	Leader
GreatLink LifeStyle Dynamic Portfolio	Equity Global	3	3	2	Leader
GreatLink LifeStyle Progressive Portfolio	Mixed Asset SGD Aggressive	Leader	4	Leader	3
GreatLink LifeStyle Secure Portfolio	Mixed Asset SGD Conservative	2	Leader	2	Leader
GreatLink LifeStyle Steady Portfolio	Mixed Asset SGD Balanced	3	Leader	3	Leader
GreatLink Lion Asian Balanced Fund	Mixed Asset SGD Balanced	4	Leader	3	4
GreatLink Lion Japan Growth Fund	Equity Japan	3	3	2	1
GreatLink Short Duration Bond Fund	Bond Global	Leader	Leader	Leader	Leader
GreatLink Singapore Equities Fund	Equity Singapore	4	3	3	3
HSBC Insurance Ethical Global Equity Fund	Equity Global	3	3	2	4
HSBC Insurance Global Bond Fund	Bond Global	2	4	3	Leader
HSBC Insurance Pacific Equity Fund	Equity Asia Pacific ex Japan	2	3	1	3
HSBC Insurance Singapore Bond Fund	Bond Global	4	4	3	Leader
John Hancock Adventurous Portfolio	Mixed Asset SGD Aggressive	3	4	3	4
John Hancock Balanced Portfolio	Mixed Asset SGD Balanced	3	4	2	Leader
John Hancock Cautious Portfolio	Mixed Asset SGD Conservative	1	3	1	Leader
John Hancock European Equity Fund	Equity Europe	1	3	2	2
John Hancock Global Balanced Fund	Mixed Asset SGD Balanced	2	1	2	4
John Hancock Greater China Fund	Equity China	2	3	2	1
John Hancock Japan Growth Fund	Equity Japan	4	3	3	3
John Hancock Pacific Equity Fund	Equity Asia Pacific ex Japan	2	3	1	2
John Hancock Pacific Harvest Fund	Mixed Asset SGD Aggressive	3	2	2	1
John Hancock Worldwide Bond Fund	Bond Global	2	2	2	Leader
John Hancock Worldwide Equities Fund	Equity Global	3	3	2	Leader
Manulife Asian Small-Cap Equity Fund	Equity Asia Pacific Sm&Mid Cap	3	4	3	2
Manulife European Equity Fund	Equity Europe	2	3	2	2

FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
Manulife Global Emerging Markets Fund	Equity Emerging Mkts Global	2	3	2	3
Manulife Golden Asia Growth Fund	Equity Asia Pacific ex Japan	2	3	1	2
Manulife Golden Balanced Growth Fund	Mixed Asset SGD Balanced	2	Leader	2	3
Manulife Golden Global Balanced Fund	Mixed Asset SGD Balanced	2	3	3	Leader
Manulife Golden International Bond Fund	Bond Global	2	4	3	Leader
Manulife Golden Regional China Fund	Equity China	2	3	2	1
Manulife Golden S.E.A. Special Situations Fund	Equity ASEAN	1	3	1	2
Manulife Golden Singapore Growth Fund	Equity Singapore	3	2	4	3
Manulife Golden Worldwide Equity Fund	Equity Global	3	3	2	Leader
Manulife Income Series – Asia Pacific Investment Grade Bond Fund	Bond Asia Pacific LC	3	Leader	3	Leader
Manulife Income Series – Asian Balanced Fund	Mixed Asset SGD Balanced	4	3	4	Leader
Manulife Income Series - Global Balanced Fund	Mixed Asset USD Bal - Global	3	4	3	2
Manulife India Equity Fund	Equity India	1	3	2	1
Manulife Japan Growth Fund	Equity Japan	4	3	3	3
Manulife Lifestyle Portfolios - Aggressive	Equity Global	2	3	1	Leader
Manulife Lifestyle Portfolios - Conservative	Mixed Asset SGD Conservative	1	4	1	Leader
Manulife Lifestyle Portfolios - Growth	Mixed Asset SGD Aggressive	3	2	3	3
Manulife Lifestyle Portfolios - Moderate	Mixed Asset SGD Balanced	4	4	3	Leader
Manulife Lifestyle Portfolios - Secure	Mixed Asset SGD Balanced	1	Leader	2	Leader
Manulife Pacific Equity Fund	Equity Asia Pacific ex Japan	2	3	1	4
Manulife Singapore Bond Fund	Bond SGD	3	2	3	Leader
NTUC AIM 2025	Target Maturity Other	4	2	4	Leader
NTUC AIM 2035	Target Maturity Other	Leader	2	Leader	Leader
NTUC AIM 2045	Target Maturity Other	Leader	2	Leader	4
NTUC AIM NOW	Mixed Asset SGD Conservative	2	Leader	2	Leader
NTUC Asia Managed Fund	Mixed Asset SGD Aggressive	Leader	4	Leader	3
NTUC Global Bond Fund	Bond Global	3	4	3	Leader
NTUC Global Equity Fund	Equity Global	4	3	4	Leader
NTUC Global Managed Fund (Balanced)	Mixed Asset SGD Balanced	4	Leader	4	Leader
NTUC Global Managed Fund (Conservative)	Mixed Asset SGD Conservative	4	Leader	3	Leader
NTUC Global Managed Fund (Growth)	Mixed Asset SGD Aggressive	Leader	Leader	Leader	Leader
NTUC Global Technology Fund	Equity Sector Information Tech	3	4	3	3
NTUC Prime Fund	Mixed Asset SGD Balanced	Leader	Leader	Leader	3
NTUC Singapore Bond Fund	Bond SGD	4	4	4	Leader
NTUC Singapore Equity Fund	Equity Singapore	2	Leader	2	2
NTUC Singapore Managed Fund	Mixed Asset SGD Balanced	2	Leader	2	2
NTUC Takaful Fund	Equity Global	Leader	4	Leader	Leader
PruLink Adapt 2025	Target Maturity Other	2	2	3	Leader
PruLink Adapt 2035	Target Maturity Other	Leader	1	Leader	Leader
PruLink America Fund	Equity US	1	3	2	3
PruLink Asian American Managed Fund	Mixed Asset SGD Balanced	1	4	1	3
PruLink Asian Equity Fund	Equity Asia Pacific ex Japan	1	4	1	2
PruLink Asian Income and Growth Fund	Mixed Asset SGD Balanced	Leader	4	Leader	Leader
PruLink China-India Fund	Equity Emerging Mkts Asia	3	4	3	3
PruLink Emerging Markets Fund	Equity Emerging Mkts Global	Leader	3	4	3
PruLink Global Bond Fund	Bond Global	4	4	4	Leader

**FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT**

Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
PruLink Global Equity Fund	Equity Global	1	3	1	4
PruLink Global Managed Fund	Mixed Asset SGD Balanced	4	3	4	Leader
PruLink Global Property Securities Fund	Equity Sector Real Est Global	2	2	1	2
PruLink Global Technology Fund	Equity Sector Information Tech	4	4	3	3
PruLink Greater China Fund	Equity Greater China	Leader	4	Leader	2
PruLink Pan European Fund	Equity Europe	Leader	3	Leader	4
PruLink Singapore ASEAN Managed Fund	Mixed Asset SGD Aggressive	1	Leader	2	2
PruLink Singapore Cash Fund	Money Market SGD	N/A	N/A	N/A	N/A
PruLink Singapore Dynamic Bond Fund	Bond SGD	Leader	4	Leader	Leader
PruLink Singapore Growth Fund	Equity Singapore	Leader	3	4	3
PruLink Singapore Managed Fund	Mixed Asset SGD Aggressive	2	Leader	1	1
TMLS Asian Equity Fund	Equity Asia Pacific ex Japan	2	4	2	4
TMLS China Equity Fund	Equity China	4	3	4	2
TMLS Global Bond Fund	Bond Global	4	Leader	4	Leader
TMLS Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	3	3	4	3
TMLS Global Equity Fund	Equity Global	2	3	2	4
TMLS India Equity Fund	Equity India	2	4	2	1
TMLS Singapore Bond Fund	Bond SGD	3	2	3	Leader
TMLS Singapore Equity Fund	Equity Singapore	4	2	3	3
UOB Life FOF Asia Top 50 Fund	Equity Asia Pacific	2	1	2	4
UOB Life FOF Global Healthcare Fund	Equity Sector Healthcare	4	2	4	1
UOB Life FOF Growth Fund	Equity Singapore	2	4	2	2
UOB Life FOF International Growth Fund	Equity Global	3	4	2	Leader
UOB LifeLink Global Fund	Equity Global	3	3	2	Leader
UOB LifeLink Growth Fund	Equity Singapore	3	4	3	2

Source: Thomson Reuters Lipper



## 7 Appendices

### 7.1 Complete List of Funds <sup>6</sup>

#### 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 Korea Fund A(acc)SGD	Equity Korea	Higher Risk	Narrowly Focused	30/06/2017	2.58
2	Franklin Templeton Investment Funds – Templeton Thailand Fund A(acc)SGD	Equity Thailand	Higher Risk	Narrowly Focused	30/06/2017	2.51
3	Franklin Templeton Investment Funds - Templeton Emerging Markets Fund A(acc)SGD	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	30/06/2017	2.47
4	Franklin Templeton Investment Funds – Templeton China Fund A(acc)SGD	Equity Greater China	Higher Risk	Narrowly Focused	30/06/2017	2.45
5	United Asia Top-50 Fund	Equity Asia Pacific	Higher Risk	Narrowly Focused	30/06/2017	2.31
6	Franklin Templeton Investment Funds – Templeton Asian Growth Fund A(acc)SGD	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	30/06/2017	2.22
7	PineBridge Asia Ex Japan Small Cap Equity Fund - Class A5CP	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	31/12/2016	2.15
8	LionGlobal Thailand Fund (SGD)	Equity Thailand	Higher Risk	Narrowly Focused	30/06/2017	2.10
9	AB SICAV I-International Health Care Portfolio (Class A) - SGD	Equity Sector Healthcare	Higher Risk	Narrowly Focused	31/05/2017	2.08
10	Nikko AM Asia Investment Funds - Nikko AM Shenton Global Property Securities Fund S\$ Class	Equity Sector Real Est Global	Higher Risk	Narrowly Focused	30/06/2017	2.08
11	United Global Healthcare Fund	Equity Sector Healthcare	Higher Risk	Narrowly Focused	30/06/2017	2.00
12	United Global Financials Fund	Equity Sector Financials	Higher Risk	Narrowly Focused	30/06/2017	1.99
13	Franklin Templeton Investment Funds – Templeton Global Equity Income Fund AS (Mdis)SGD	Equity Global Income	Higher Risk	Broadly Diversified	30/06/2017	1.86
14	Allianz Europe Equity Growth - Class AT (H2-SGD)	Equity Europe	Higher Risk	Narrowly Focused	31/03/2017	1.85
15	Allianz Oriental Income - Class AT (SGD)	Equity Asia Pacific	Higher Risk	Narrowly Focused	31/03/2017	1.85

<sup>6</sup> These expense ratios may not be up to end of December 2017 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.

FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

16	Franklin Templeton Investment Funds – Templeton European Fund A(acc)SGD	Equity Europe	Higher Risk	Narrowly Focused	30/06/2017	1.84
17	Franklin Templeton Investment Funds – Franklin Biotechnology Discovery Fund A(acc)SGD	Equity Sector Biotechnology	Higher Risk	Narrowly Focused	30/06/2017	1.81
18	Aberdeen Asian Smaller Companies Fund	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	30/09/2017	1.75
19	Aberdeen China Opportunities Fund	Equity Greater China	Higher Risk	Narrowly Focused	30/09/2017	1.75
20	Aberdeen European Opportunities Fund	Equity Europe	Higher Risk	Narrowly Focused	30/04/2017	1.75
21	Aberdeen Global Emerging Markets Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	30/09/2017	1.75
22	Aberdeen Global Opportunities Fund	Equity Global	Higher Risk	Broadly Diversified	30/09/2017	1.75
23	Aberdeen India Opportunities Fund	Equity India	HIGHER RISK	NARROWLY FOCUSED	30/09/2017	1.75
24	Aberdeen Malaysian Equity Fund	Equity Malaysia	HIGHER RISK	NARROWLY FOCUSED	30/09/2017	1.75
25	Franklin Templeton Investment Funds – Franklin India Fund AS (acc)SGD	Equity India	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.75
26	Franklin Templeton Shariah Funds – Templeton Shariah Global Equity Fund AS (acc)SGD	Equity Global	HIGHER RISK	BROADLY DIVERSIFIED	30/04/2017	1.75
27	Legg Mason Martin Currie Southeast Asia Trust (Class A (SGD) Accumulating)	Equity ASEAN	HIGHER RISK	NARROWLY FOCUSED	30/09/2017	1.75
28	Natixis International Funds (LUX) I - Harris Associates Global Equity Fund P/A (SGD)	Equity Global	HIGHER RISK	BROADLY DIVERSIFIED	31/12/2016	1.75
29	Natixis International Funds (LUX) I - Harris Associates U.S. Equity Fund H-P/A (SGD)	Equity US	HIGHER RISK	NARROWLY FOCUSED	31/12/2016	1.75
30	Nikko AM Japan Dividend Equity Fund-SGD Hedged Class Units	Equity Japan Income	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.75
31	Schroder Asian Equity Yield Fund	Equity Asia Pacific ex Japan	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.74
32	Aberdeen Indonesia Equity Fund	Equity Indonesia	HIGHER RISK	NARROWLY FOCUSED	30/09/2017	1.73
33	APS Alpha Fund (SGD)	Absolute Return Other	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.73
34	Eastspring Investments Unit Trusts – Pan European Fund	Equity Europe	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.73
35	Fidelity Funds – Asia Focus Fund SR-ACC-SGD	Equity Asia Pacific ex Japan	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.73
36	Fidelity Funds-Emerging Markets Fund SR-ACC-SGD	Equity Emerging Mkts Global	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.73
37	First State Asian Growth Fund	Equity Asia Pacific ex Japan	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.73
38	First State Dividend Advantage	Equity Asia Pacific ex Japan	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.73

**FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT**

39	Franklin Templeton Investment Funds – Templeton Global Fund AS (acc)SGD	Equity Global	HIGHER RISK	BROADLY DIVERSIFIED	30/06/2017	1.73
40	Pinebridge India Equity Fund - Class A5CP	Equity India	HIGHER RISK	NARROWLY FOCUSED	31/12/2016	1.73
41	Fidelity Funds - Asian Special Situations Fund SR-ACC-SGD	Equity Asia Pacific ex Japan	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.72
42	Fidelity Funds - Greater China Fund SR-ACC-SGD	Equity Greater China	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.72
43	First State Regional China Fund	Equity Greater China	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.72
44	Schroder International Selection Fund Greater China Class F	Equity Greater China	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.72
45	Aberdeen Thailand Equity Fund	Equity Thailand	HIGHER RISK	NARROWLY FOCUSED	30/09/2017	1.71
46	Franklin Templeton Investment Funds – Franklin U.S. Opportunities Fund AS (acc)SGD	Equity US	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.71
47	Nikko AM Japan Dividend Equity Fund-SGD Class Units	Equity Japan Income	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.71
48	Pinebridge US Large Cap Research Enhanced Fund - Class A5CP	Equity US	HIGHER RISK	NARROWLY FOCUSED	31/12/2016	1.71
49	Fidelity Funds-China Focus Fund SR-ACC-SGD	Equity China	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.70
50	First State Global Resources Fund	Equity Global	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.70
51	Schroder China Opportunities Fund	Equity China	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.70
52	Schroder Global Emerging Market Opportunities Fund	Equity Emerging Mkts Global	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.70
53	Fidelity Funds – European Growth Fund SR-ACC-Euro	Equity Europe	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.69
54	Fidelity Funds – European Growth Fund SR-ACC-SGD	Equity Europe	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.69
55	Fidelity Funds-Global Dividend Fund SR-ACC-SGD	Equity Global Income	HIGHER RISK	BROADLY DIVERSIFIED	31/10/2017	1.69
56	Fidelity Funds-Global Dividend Fund SR-MINCOME(G)-SGD	Equity Global Income	HIGHER RISK	BROADLY DIVERSIFIED	31/10/2017	1.69
57	Eastspring Investments Unit Trusts – Global Technology Fund	Equity Sector Information Tech	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.68
58	Fidelity Funds – America Fund SR-ACC-SGD	Equity US	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.68
59	Fidelity Funds – America Fund SR-ACC-USD	Equity US	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.68
60	Fidelity Funds-America Fund SR-ACC-SGD (Hedged)	Equity US	HIGHER RISK	NARROWLY FOCUSED	31/10/2017	1.68
61	Aberdeen Pacific Equity Fund	Equity Asia Pacific ex Japan	HIGHER RISK	NARROWLY FOCUSED	30/09/2017	1.67
62	Aberdeen Singapore Equity Fund	Equity Singapore	HIGHER RISK	NARROWLY FOCUSED	30/09/2017	1.65

FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

63	LionGlobal Japan Growth Fund (SGD)	Equity Japan	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.65
64	LionGlobal Japan Growth Fund SGD-Hedged Class	Equity Japan	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.65
65	Allianz Global Investors Premier Funds – Allianz Global High Payout Fund - SGD	Equity Global Income	HIGHER RISK	BROADLY DIVERSIFIED	30/04/2017	1.64
66	Allianz Global Investors Premier Funds – Allianz Global High Payout Fund (USD Share Class)	Equity Global Income	HIGHER RISK	BROADLY DIVERSIFIED	30/06/2017	1.64
67	Eastspring Investments Unit Trusts - Dragon Peacock Fund	Equity Emerging Mkts Asia	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.63
68	Eastspring Investments Unit Trusts – Singapore ASEAN Equity Fund	Equity Singapore	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.62
69	Eastspring Investments - Japan Dynamic Fund Class As (hedged)	Equity Japan	HIGHER RISK	NARROWLY FOCUSED	31/12/2016	1.55
70	Eastspring Investments-Asian Equity Income Fund Class as Hedged	Equity Asia Pacific ex Japan	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.55
71	Amundi Opportunities-Amundi Singapore Dividend Growth (AS-D Class)	Equity Singapore	HIGHER RISK	NARROWLY FOCUSED	30/11/2016	1.54
72	LionGlobal Singapore / Malaysia Fund (SGD)	Equity Malaysia/Singapore	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.45
73	Schroder Asian Growth Fund	Equity Asia Pacific ex Japan	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.36
74	PineBridge Asia Ex Japan Small Cap Equity Fund - Class Y	Equity Asia Pacific Sm&Mid Cap	HIGHER RISK	NARROWLY FOCUSED	31/12/2016	1.35
75	Schroder Singapore Trust Class A	Equity Singapore	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.33
76	Pinebridge US Large Cap Research Enhanced Fund - Class Y	Equity US	HIGHER RISK	NARROWLY FOCUSED	31/12/2016	1.20
77	United International Growth Fund	Equity Global	HIGHER RISK	BROADLY DIVERSIFIED	30/06/2017	1.20
78	United Singapore Growth Fund	Equity Singapore	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.14
79	Nikko AM Shenton Japan Fund (S\$) Class	Equity Japan	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	1.12
80	Nikko AM Shenton Thrift Fund	Equity Singapore	HIGHER RISK	NARROWLY FOCUSED	30/06/2017	0.95
81	Schroder Multi-Asset Revolution Class A	Mixed Asset SGD Balanced	MEDIUM TO HIGH RISK	BROADLY DIVERSIFIED	30/06/2017	1.51
82	Franklin Templeton Investment Funds – Templeton Global Balanced Fund AS (acc)SGD	Mixed Asset USD Bal - Global	MEDIUM TO HIGH RISK	BROADLY DIVERSIFIED	30/06/2017	1.50
83	Eastspring Investments Unit Trusts – Asian Balanced Fund	Mixed Asset SGD Balanced	MEDIUM TO HIGH RISK	NARROWLY FOCUSED	30/06/2017	1.45
84	First State Bridge	Mixed Asset SGD Balanced	MEDIUM TO HIGH RISK	NARROWLY FOCUSED	30/06/2017	1.44

**FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT**

85	PineBridge International Funds - Acorns of Asia Balanced Fund	Mixed Asset SGD Balanced	MEDIUM TO HIGH RISK	NARROWLY FOCUSED	30/06/2017	1.44
86	Legg Mason Western Asset Singapore Bond Fund (Class A (SGD) Accumulating)	Bond SGD	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/09/2017	0.94
87	Manulife Asia Pacific Investment Grade Bond Fund Class A	Bond Asia Pacific LC	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.94
88	Schroder Asian Investment Grade Credit	Bond Asia Pacific LC	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.91
89	Legg Mason Western Asset Global Bond Trust (Class A (SGD) Accumulating)	Bond Global	LOW TO MEDIUM RISK	BROADLY DIVERSIFIED	30/09/2017	0.89
90	PineBridge International Funds - Singapore Bond Fund	Bond SGD	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.83
91	United Singapore Bond Fund	Bond SGD	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.76
92	Schroder Singapore Fixed Income Fund Class A	Bond SGD	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.70
93	Deutsche Lion Bond Fund (Class A)	Bond Global	LOW TO MEDIUM RISK	BROADLY DIVERSIFIED	30/06/2017	0.69
94	LionGlobal TEAM - Singapore Fixed Income Investment (Class A)	Bond SGD	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.67
95	United SGD Fund - Class A (ACC) SGD	Bond SGD	LOW TO MEDIUM RISK	BROADLY DIVERSIFIED	30/06/2017	0.66
96	Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class A	Bond SGD	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.62
97	Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class AD	Bond SGD	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.62
98	LionGlobal Short Duration Bond Fund Class A (SGD) (Dist)	Bond Global	LOW TO MEDIUM RISK	NARROWLY FOCUSED	30/06/2017	0.60
99	Nikko AM Shenton Short Term Bond Funds - Nikko AM Shenton Short Term Bond Fund (S\$) Class	Bond Global	LOW TO MEDIUM RISK	BROADLY DIVERSIFIED	30/06/2017	0.42

Source: Central Provident Fund Board and Thomson Reuters 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	30/06/2017	3.01
2	Aviva LionGlobal Japan Growth (SP)	Equity Japan	Higher Risk	Narrowly Focused	Japan	30/06/2017	2.80
3	Aviva Capital Growth (SP)	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	2.32
4	AXA Global Equity Blend	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	2.22
5	UOB Life FOF Asia Top 50 Fund	Equity Asia Pacific	Higher Risk	Narrowly Focused	Asia	31/12/2016	2.20
6	AIA International Health Care Fund	Equity Sector Healthcare	Higher Risk	Narrowly Focused	Healthcare	30/06/2017	2.07
7	UOB Life FOF Global Healthcare Fund	Equity Sector Healthcare	Higher Risk	Narrowly Focused	Healthcare	30/06/2017	2.00
8	PruLink Global Property Securities Fund	Equity Sector Real Est Global	Higher Risk	Narrowly Focused	Sector - Others	30/06/2017	1.99
9	AIA Emerging Markets Equity Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	30/06/2017	1.75
10	AIA Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	Technology	30/06/2017	1.75
11	AIA Greater China Equity Fund	Equity Greater China	Higher Risk	Narrowly Focused	Greater China	30/06/2017	1.75
12	AIA India Opportunities Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	30/06/2017	1.75
13	AIA Portfolio 100	Equity Global Income	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.75
14	AXA China Growth Fund	Equity Greater China	Higher Risk	Narrowly Focused	Greater China	30/06/2017	1.75
15	AXA Fortress Fund A	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.75
16	AXA Fortress Fund B	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.75
17	AXA Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	30/06/2017	1.75
18	AXA Global High Growth Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.75
19	AXA India Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	30/06/2017	1.75
20	AXA Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.75
21	AXA Shariah Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.75
22	AXA Singapore Equity Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.75
23	AXA South East Asia Special Situations Fund	Equity ASEAN	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.75
24	AXA Value Growth Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.75

**FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT**

25	John Hancock Greater China Fund	Equity China	Higher Risk	Narrowly Focused	Greater China	30/04/2017	1.75
26	John Hancock Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.75
27	John Hancock Worldwide Equities Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.75
28	Manulife Global Emerging Markets Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	30/06/2017	1.75
29	Manulife Golden Asia Growth Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.75
30	Manulife Golden Regional China Fund	Equity China	Higher Risk	Narrowly Focused	Greater China	30/06/2017	1.75
31	Manulife Golden Singapore Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.75
32	Manulife India Equity Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	30/06/2017	1.75
33	PruLink Emerging Markets Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	30/06/2017	1.75
34	GreatLink Global Opportunities Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.74
35	HSBC Insurance Ethical Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.74
36	Manulife European Equity Fund	Equity Europe	Higher Risk	Narrowly Focused	Europe	30/06/2017	1.74
37	Manulife Golden S.E.A. Special Situations Fund	Equity ASEAN	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.74
38	TMLS Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	30/06/2017	1.74
39	HSBC Insurance Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.73
40	Manulife Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/03/2017	1.73
41	PruLink Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.73
42	PruLink Pan European Fund	Equity Europe	Higher Risk	Narrowly Focused	Europe	30/06/2017	1.73
43	TMLS Multi-Asset 90 Fund	Mixed Asset SGD Aggressive	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.73
44	John Hancock Japan Growth Fund	Equity Japan	Higher Risk	Narrowly Focused	Japan	30/06/2017	1.72
45	Manulife Asian Small-Cap Equity Fund	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.72
46	Manulife Lifestyle Portfolios - Aggressive	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.72
47	GreatLink Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	30/06/2017	1.71
48	PruLink America Fund	Equity US	Higher Risk	Narrowly Focused	North America	30/06/2017	1.71
49	PruLink Asian Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.71
50	TMLS India Equity Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	30/06/2017	1.71
51	AIA Global Resources Fund	Equity Global	Higher Risk	Narrowly Focused	Sector - Others	30/06/2017	1.70

FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

52	GreatLink Global Equity Alpha Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.70
53	PruLink Greater China Fund	Equity Greater China	Higher Risk	Narrowly Focused	Greater China	30/06/2017	1.70
54	TMLS Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.70
55	TMLS Singapore Equity Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.70
56	GreatLink Singapore Equities Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.69
57	Manulife Golden Worldwide Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/04/2017	1.69
58	Manulife Japan Growth Fund	Equity Japan	Higher Risk	Narrowly Focused	Japan	30/06/2017	1.69
59	PruLink Adapt 2035	Target Maturity Other	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.69
60	Manulife Lifestyle Portfolios - Growth	Mixed Asset SGD Aggressive	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.68
61	NTUC Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	Technology	30/04/2017	1.68
62	PruLink Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	Technology	30/06/2017	1.68
63	AIA Japan Equity Fund	Equity Japan	Higher Risk	Narrowly Focused	Japan	30/06/2017	1.67
64	AIA Regional Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.67
65	GreatLink Asia Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.67
66	TMLS China Equity Fund	Equity China	Higher Risk	Narrowly Focused	Greater China	30/06/2017	1.67
67	GreatLink Global Real Estate Securities Fund	Equity Sector Real Est Global	Higher Risk	Narrowly Focused	Sector - Others	30/06/2017	1.66
68	PRUlink India Equity Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	30/06/2017	1.64
69	Prulink China-India Fund	Equity Emerging Mkts Asia	Higher Risk	Narrowly Focused	Country - Others	30/06/2017	1.63
70	GreatLink Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	Technology	30/04/2017	1.62
71	GreatLink LifeStyle Dynamic Portfolio	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.61
72	GreatLink Lion Japan Growth Fund	Equity Japan	Higher Risk	Narrowly Focused	Japan	30/06/2017	1.58
73	John Hancock European Equity Fund	Equity Europe	Higher Risk	Narrowly Focused	Europe	30/06/2017	1.58
74	AXA Asian Growth Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.55
75	GreatLink LifeStyle Progressive Portfolio	Mixed Asset SGD Aggressive	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.55
76	TMLS Asian Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.52
77	GreatLink China Growth Fund	Equity Greater China	Higher Risk	Narrowly Focused	Greater China	30/06/2017	1.51
78	Aviva MM Capital Growth	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	30/06/2017	1.47



FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

79	PruLink Singapore Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.47
80	UOB LifeLink Global Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.32
81	NTUC Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.29
82	UOB LifeLink Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.23
83	UOB Life FOF International Growth Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.20
84	NTUC Takaful Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.19
85	UOB Life FOF Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	1.14
86	NTUC AIM 2035	Target Maturity Other	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.13
87	NTUC AIM 2045	Target Maturity Other	Higher Risk	Broadly Diversified	N/A	30/06/2017	1.13
88	GreatLink European Equity Fund	Equity Europe	Higher Risk	Narrowly Focused	Europe	30/06/2017	0.77
89	NTUC Singapore Equity Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/06/2017	0.70
90	Aviva Income Growth (SP)	Mixed Asset SGD Conservative	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	2.49
91	Aviva Balanced Growth (SP)	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	2.39
92	Aviva Templeton Global Balanced (SP) - CPF	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	2.18
93	John Hancock Pacific Harvest Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.92
94	John Hancock Global Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.87
95	NTUC Global Managed Fund (Growth)	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	30/04/2017	1.70
96	Aviva MM Income Growth	Mixed Asset SGD Conservative	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.64
97	AIA Emerging Markets Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Regional - Others	30/06/2017	1.55
98	AIA Global Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.55
99	AIA Greater China Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Greater China	30/06/2017	1.55
100	AIA India Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Country - Others	30/06/2017	1.55
101	AIA Japan Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Country - Others	30/06/2017	1.55
102	AIA Portfolio 50	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.55
103	AIA Portfolio 70	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.55
104	AXA Asian Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.55
105	AXA Global Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.55

FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

106	AXA Global Growth Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.55
107	AXA Singapore Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Singapore	30/06/2017	1.55
108	Manulife Income Series – Asian Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.55
109	Manulife Income Series - Global Balanced Fund	Mixed Asset USD Bal - Global	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.55
110	PruLink Global Managed Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.55
111	Aviva MM Balanced Growth	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.54
112	PruLink Adapt 2025	Target Maturity Other	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.54
113	TMLS Multi-Asset 70 Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.54
114	AIA Acorns of Asia Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.53
115	TMLS Multi-Asset 50 Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.53
116	Manulife Golden Global Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.52
117	NTUC Asia Managed Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.49
118	TMLS Multi-Asset 30 Fund	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.49
119	John Hancock Cautious Portfolio	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.48
120	Manulife Lifestyle Portfolios - Moderate	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.48
121	John Hancock Adventurous Portfolio	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.47
122	John Hancock Balanced Portfolio	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.46
123	PruLink Asian Income and Growth Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.46
124	PruLink Asian American Managed Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.45
125	GreatLink Lifestyle Balanced Portfolio	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.40
126	Manulife Lifestyle Portfolios - Secure	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.40
127	Aviva Schroder Multi Asset Revolution	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.39
128	PruLink Singapore ASEAN Managed Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.39
129	GreatLink Global Supreme Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.36
130	Manulife Golden Balanced Growth Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Singapore	30/06/2017	1.36
131	GreatLink Lion Asian Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.34
132	PruLink Singapore Managed Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Singapore	30/04/2017	1.33

FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

133	Manulife Lifestyle Portfolios - Conservative	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.30
134	AIA Growth Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Singapore	30/06/2017	1.28
135	NTUC Global Managed Fund (Balanced)	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.23
136	GreatLink Lifestyle Steady Portfolio	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.18
137	NTUC AIM 2025	Target Maturity Other	Medium To High Risk	Broadly Diversified	N/A	30/04/2017	1.13
138	NTUC Global Managed Fund (Conservative)	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	1.12
139	NTUC Singapore Managed Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Singapore	30/06/2017	1.06
140	NTUC Prime Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	30/06/2017	1.04
141	GreatLink Lifestyle Secure Portfolio	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	30/06/2017	0.90
142	Aviva Nikko AM Shenton Short Term Bond (SP)	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	2.05
143	AXA Short Duration Bond Fund	Bond SGD	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	1.95
144	Aviva Legg Mason Western Asset Global Bond Trust (SP)	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/04/2017	1.74
145	AIA Regional Fixed Income Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	30/04/2017	1.72
146	John Hancock Worldwide Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	1.42
147	AIA Global Bond Fund	Bond Other Hedged	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.95
148	AIA Portfolio 30	Mixed Asset SGD Conservative	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.95
149	AXA Global Defensive Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.95
150	AXA Global Secure Fund	Mixed Asset SGD Conservative	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.95
151	AXA Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	30/06/2017	0.95
152	Manulife Income Series – Asia Pacific Investment Grade Bond Fund	Bond Asia Pacific LC	Low To Medium Risk	Narrowly Focused	Asia	30/06/2017	0.95
153	Manulife Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	30/06/2017	0.93
154	Manulife Golden International Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.92
155	TMLS Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	30/06/2017	0.92
156	HSBC Insurance Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.91
157	NTUC AIM NOW	Mixed Asset SGD Conservative	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.91
158	GreatLink Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.89

FOURTH QUARTER 2017 PERFORMANCE & RISK-MONITORING REPORT

159	NTUC Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.89
160	PruLink Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.77
161	HSBC Insurance Singapore Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.74
162	PruLink Singapore Dynamic Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	30/06/2017	0.62
163	GreatLink Short Duration Bond Fund	Bond Global	Low To Medium Risk	Narrowly Focused	Asia	30/06/2017	0.55
164	NTUC Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	30/06/2017	0.52
165	TMLS Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	30/06/2017	0.33
166	John Hancock Singapore Cash Fund	Money Market SGD	Lower Risk	Narrowly Focused	Singapore	30/06/2017	0.75
167	Manulife Singapore Cash Fund	Money Market SGD	Lower Risk	Narrowly Focused	Singapore	30/06/2017	0.74
168	GreatLink Cash Fund	Money Market SGD	Lower Risk	Broadly Diversified	N/A	30/06/2017	0.32
169	AIA S\$ Money Market Fund	Money Market SGD	Lower Risk	Narrowly Focused	Singapore	30/06/2017	0.31
170	PruLink Singapore Cash Fund	Money Market SGD	Lower Risk	Broadly Diversified	N/A	30/06/2017	0.31

Source: Central Provident Fund Board and Thomson Reuters 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**






 **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 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."



## 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

$$\text{Percentage Growth} = \frac{\text{NAV}_t - \text{NAV}_{t-1}}{\text{NAV}_{t-1}}$$

For simple return:

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

For log returns:

#### Return Relative to Benchmark

$$\text{Performance Annualized} = \frac{\text{Number of Time Units Per Year}}{\text{Number of Time Units in Period}} \times \text{Percentage Growth}$$

Relative return is a measure of fund performance 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:

$$\text{Relative Return} = \text{Fund Return} - \text{Benchmark Return}$$

For simple return:

$$\text{Relative Return Annualized} = \left(1 + \text{Relative Return}\right)^{\frac{\text{Number of Time Units Per Year}}{\text{Number of Time Units in Period}}} - 1$$

For log returns:

$$\text{Relative Return Annualized} = \frac{\text{Number of Time Units Per Year}}{\text{Number of Time Units in Period}} \times \text{Relative Return}$$

### ▪ 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:

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

### ▪ 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:

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

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

### ▪ 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:

$$\text{Sharpe Ratio} = \frac{\text{Average Sub Period Excess Return}}{\text{Standard Deviation of Sub Period Excess Returns}}$$

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



- **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:

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

$$\text{Standard Deviation} = \sqrt{\text{Variance}}$$

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

- **Maximum Gain**

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

Formula:

$$\text{Maximum Gain} = \text{Max (Positive Sub-Period Returns)}$$

- **Maximum Loss**

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

Formula:

$$\text{Maximum Loss} = \text{Min (Negative Sub-Period Returns)}$$

- **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:

$$\text{Return to Risk} = \frac{\text{Average Return}}{\text{Standard Deviation}}$$

$$\text{Return to Risk Annualized} = \sqrt{\frac{\text{Number of Time Units Per Year}}{\text{Number of Time Units Per Sub Period}}} \times \text{Return to Risk}$$