

SECOND QUARTER 2017 PERFORMANCE & RISK- MONITORING REPORT

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



JUNE 2017

Thomson Reuters Lipper

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INVESTMENT MANAGEMENT
ASSOCIATION OF SINGAPORE



Life Insurance Association
Singapore

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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 June 30, 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 June 30, 2017, there were 91 unit trusts and 170 investment-linked insurance products (ILPs) included under the CPFIS¹, for a total of 261 funds.

Table 1 Number of CPFIS-Included Funds

	As of End Q2-2017	As of End Q1-2017
Unit Trust	91	93
ILP	170	171
Total	261	264

Source: Central Provident Fund Board

Table 2 Newly Listed Products

There's no newly listed fund for Q2 2017.

Table 3 Delisted Products

	Risk Classification	CPFIS Focus	Detail	Lipper Classification
UT				
Deutsche Global Themes Equity Fund - Class A - SGD	HIGHER RISK	Broadly Diversified		Equity Global
ILP				
PruLink Global Developing Trends Fund	HIGHER RISK	Broadly Diversified		Equity Global

Source: Central Provident Fund Board

Table 4 Re-Categorised Product

	Risk Classification	CPFIS Focus	Detail	Lipper Classification	Remark
UT					
Capital Group European Growth and Income Fund	Higher Risk	Narrowly Focused	Europe	Equity Europe	Fund Management Company's business decision to offer the fund strictly for ILPs to feed in only.

¹ 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 Q2 2017²

3.1 Equity Markets

Global equity markets performed variedly for Q2 2017. The MSCI World Index continued rallying 4.21% (in U.S.-dollar terms) for Q2 2017, while it soared 6.53% for Q1 2017. Korea KOSPI Composite CR and Philippine PSE Composite CR soared 10.72% and 7.27% and took the lead among most of the global major markets for Q2 2017. For the U.S. market the NASDAQ index rallied 3.87%, and the Dow Jones Industrial Average and the S&P 500 soared 3.32% and 2.57%, respectively, for the period. For the European equity markets, the Xetra DAX only delivered 0.1% positive return, while FTSE 100 and CAC 40 index posted negative return of 0.14% and 0.04%. In Asia, Korea, Philippine, Hong Kong, Taiwan and Japan all soared over 5%, while the Russia RTS CR index continued sliding 10.13% for Q2 2017.

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

Name	Price	Period ended 30-June-2017				
	2017/6/30	3 Months	6 Months	9 Months	1 Year	3 Years
KOSPI Composite CR	2,391.79	10.72	18.03	17.04	21.39	19.46
Philippine PSE Composite CR	7,843.16	7.27	14.66	2.80	0.60	14.59
Hang Seng CR	25,764.58	6.86	17.11	10.59	23.90	11.10
TAIEX CR	10,395.07	5.95	12.34	13.40	19.94	10.67
Nikkei 225 CR	20,033.43	5.95	4.81	21.78	28.62	32.13
Jakarta SE Composite Index	5,829.71	4.70	10.06	8.67	16.21	19.50
S&P BSE SENSEX	30,921.61	4.39	16.13	10.97	14.53	21.67
NASDAQ Composite CR	6,140.42	3.87	14.07	15.60	26.80	39.30
Dow Jones Industrial Average CR	21,349.63	3.32	8.03	16.61	19.07	26.88
Swiss Market Index CR	8,906.89	2.86	8.36	9.43	11.06	4.12
S&P 500 CR	2,423.41	2.57	8.24	11.77	15.46	23.63
Singapore Straits Times CR	3,226.48	1.62	12.00	12.44	13.57	-0.90
FTSE Bursa Malaysia KLCI CR	1,763.67	1.36	7.43	6.72	6.63	-6.32
Xetra DAX TR	12,325.12	0.10	7.35	17.26	27.32	25.34
Thailand SET CR	1,574.74	-0.02	2.06	6.17	8.98	5.99
CAC 40 CR	5,120.68	-0.04	5.31	15.12	20.84	15.78
FTSE 100 CR	7,312.72	-0.14	2.38	5.99	12.43	8.43
Shanghai Composite CR	3,192.43	-0.93	2.86	6.25	8.97	55.86
S&P/ASX 200 CR AUD	5,721.49	-2.45	0.98	5.25	9.33	6.04
BOVESPA (Ibovespa) TR	62,899.97	-3.21	4.44	7.77	22.07	18.30
RTS CR	1,000.96	-10.13	-13.14	1.02	7.54	-26.73

Source: Thomson Reuters 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.

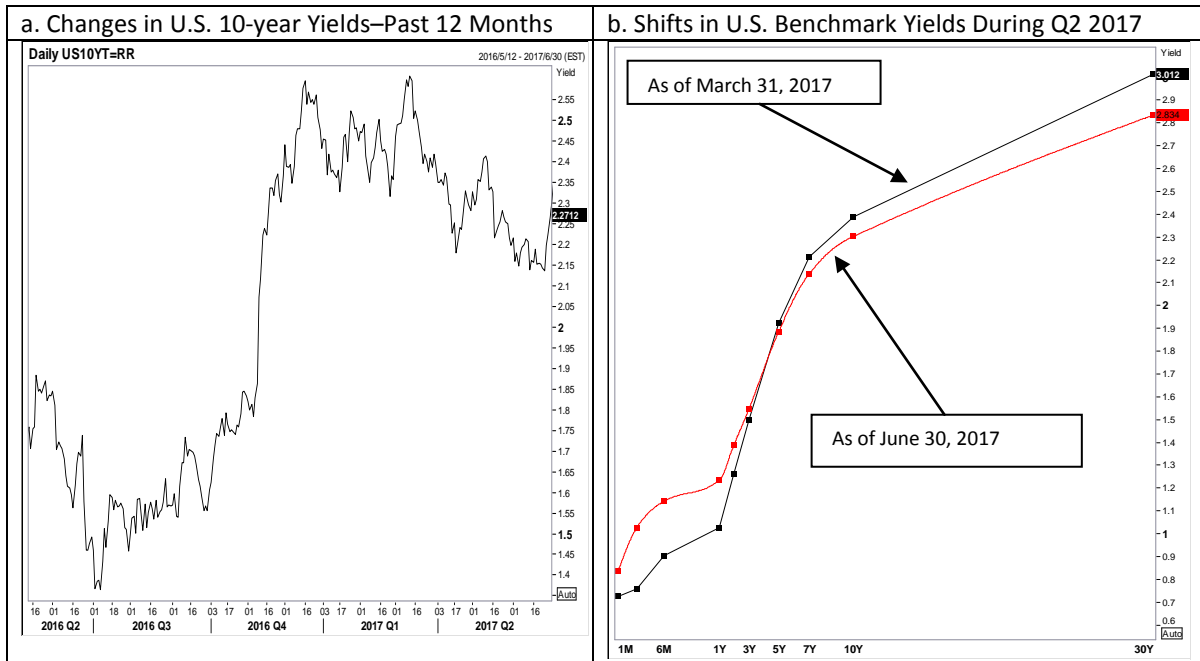
3.2 Bond Markets

The Citigroup WGBI rose 2.89% for the quarter (in USD). The ten-year Treasury yield ended at 2.302% for the second quarter of 2017 versus 2.395% at the end of Q1 2017.

3.3 The Outlook

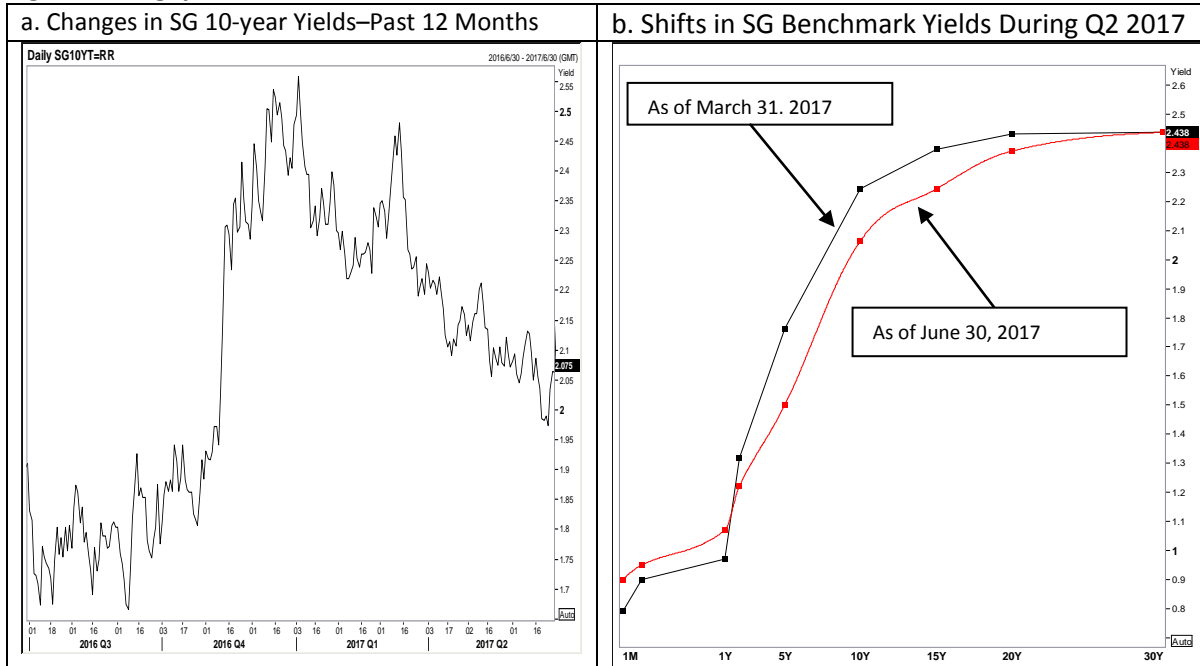
In June, the U.S. Federal Reserve raised rates for a second time this year and revealed details on the plan to unwind its \$4.5 trillion balance sheet, which expect to begin in September. The markets have doubted the Fed will hike rates for a third time this year, while the economic and inflation statistics are not strong enough to support. Interest rates policy has become the Fed's Catch-22 to deeply consider. The US dollar fell to a 13-month low against a basket of major currencies. With an ongoing economic expansion in the euro area, it has given the investors more confidence. The European Central Bank left interest rates and its quantitative easing programme unchanged. The global recovery is firming and broadening, while investors still need to watch out U.S. Fed's further monetary policy and if President Donald Trump could push through his expansionary fiscal agenda.

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 30-June-2017				
	3 Months	6 Months	9 Months	1 Year	3 Years
MSCI AC Asia ex Japan TR USD	6.81	17.16	16.38	29.98	29.02
MSCI EM (Emerging Markets) TR USD	4.83	13.04	14.88	27.03	15.30
STOXX Europe 50 CR EUR	3.80	6.88	12.55	16.56	-4.70
MSCI World TR USD	2.69	5.80	14.32	21.59	30.92
Singapore Straits Times CR	1.62	12.00	12.44	13.57	-0.90
Thomson Reuters/SGX SFI	1.44	3.82	0.71	1.74	9.63
Citi WGBI TR USD	1.39	-0.42	-3.48	-1.93	7.17
SIBOR SGD 3 Month	0.25	0.48	0.71	0.94	2.61

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%

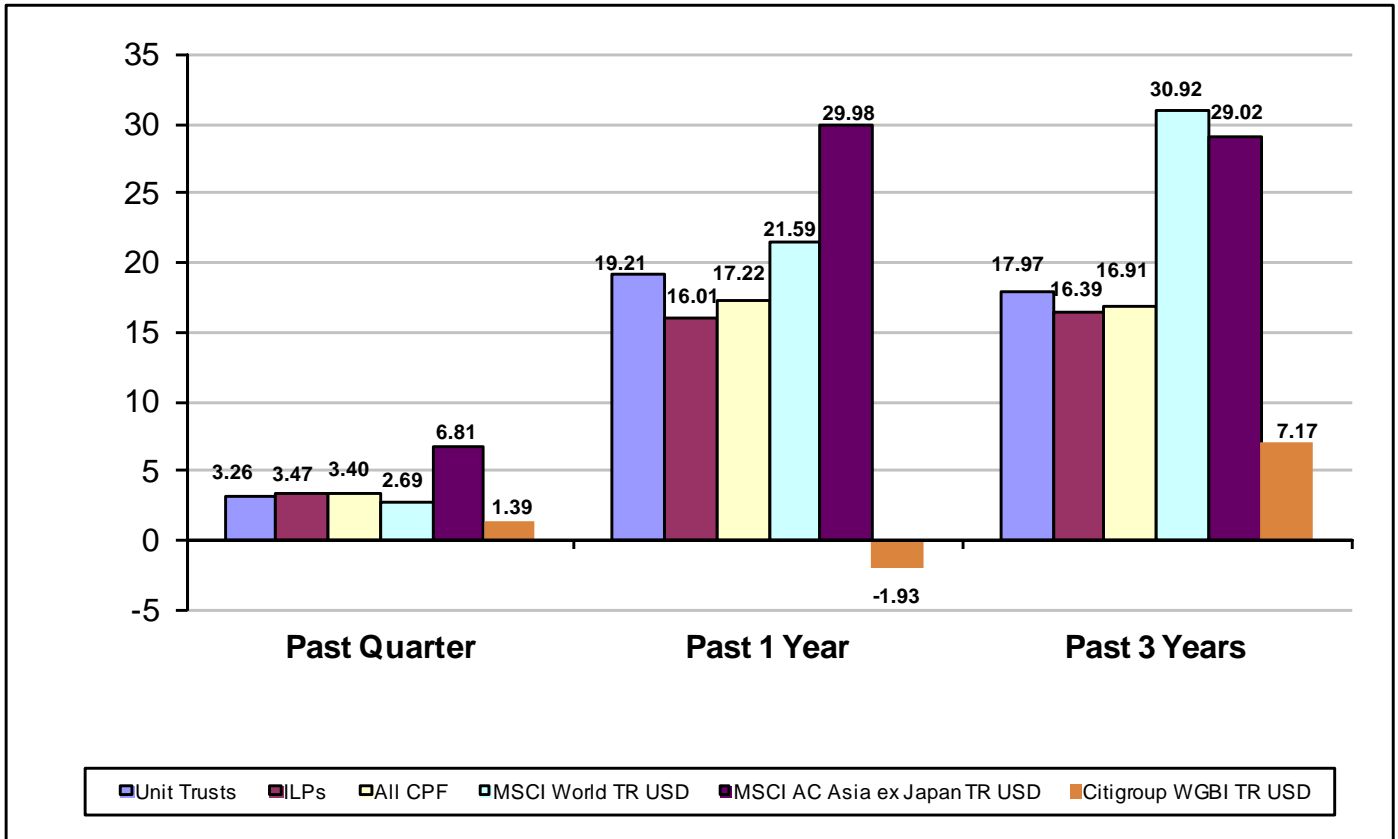
For more information about CPF interest rates please visit:

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

5 SUMMARY OF PERFORMANCE OF CPFIS-INCLUDED FUNDS

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

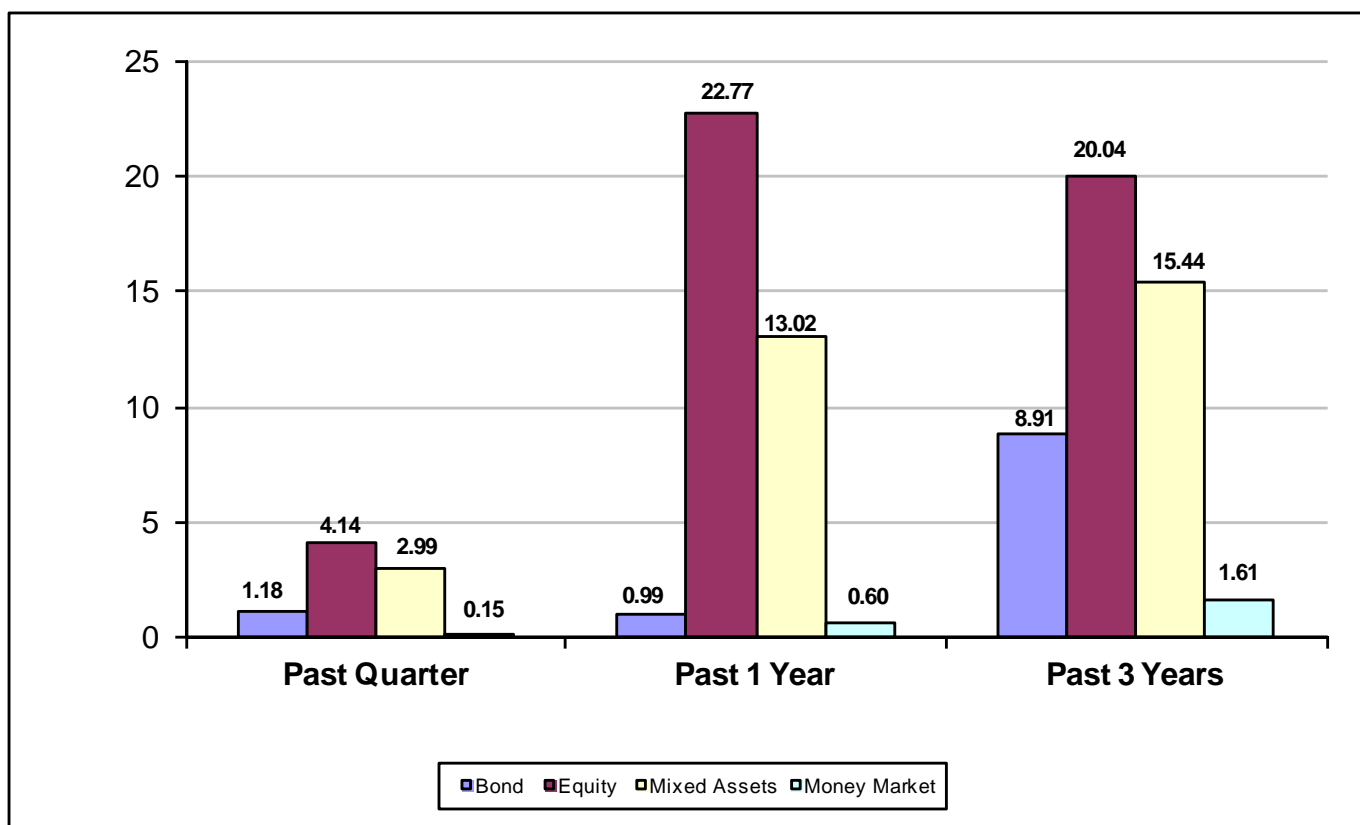
Figure 3 Average Performance of CPFIS-Included Funds at End Q2 2017 (% in SGD)



Source: Thomson Reuters Lipper

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 Q2 2017 by Asset Class (% in SGD)



Source: Thomson Reuters Lipper

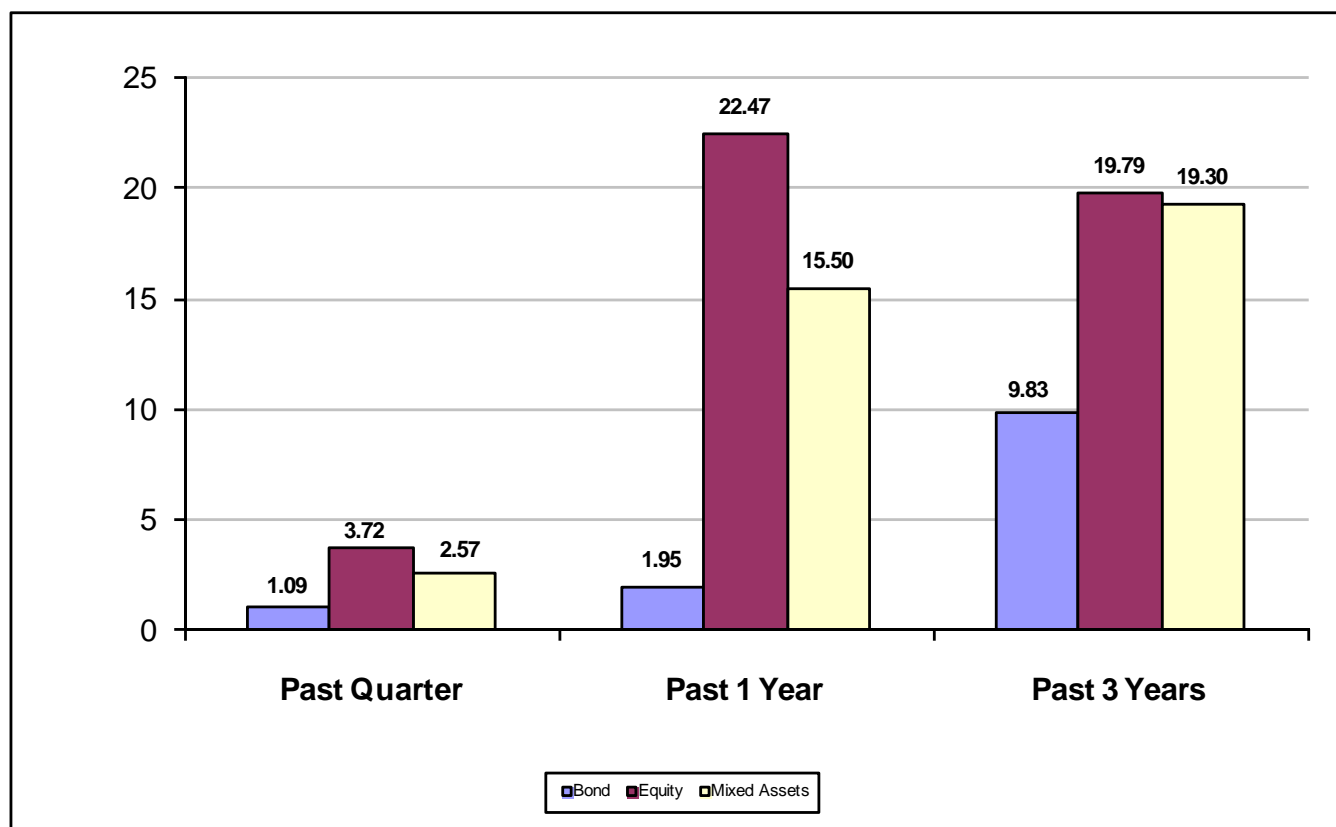
For the second quarter of 2017, the overall performance of CPFIS-included (unit trusts and ILPs combined) funds continued posting positive returns of 3.40% on average, given a positive return of 3.26% on average among CPFIS-included unit trusts and a positive return of 3.47% among CPFIS-included ILPs. For all the CPFIS-included funds, equity, mixed-asset, bond and money market types posted 4.14%, 2.99%, 1.18% and 0.15%, respectively for the quarter. The MSCI World TR USD and the MSCI AC Asia ex Japan Index rallied 2.69% and 6.81%, respectively, while the Citigroup WGBI rose 1.39% for Q2 2017.

For the one year period the overall performance of CPFIS-included funds posted a positive return of 17.22% on average. CPFIS-included unit trusts rallied 19.21% on the year, and CPFIS-included ILPs soared 16.01% on average. During the same period the key benchmark MSCI World TR USD rallied 21.59% and MSCI AC Asia ex Japan Index soared 29.98%, respectively, while the Citigroup WGBI TR fell 1.93%. For the one-year period, equity products (+22.77% on average) outperformed the bond (+0.99% on average), mixed-asset (+13.02% on average) and money market (+0.60%) type offering.

For the three-year period CPFIS-included funds soared 16.91% growth on average, accounted for by a gain of 17.97% on average from CPFIS-included unit trusts and 16.39% on average from CPFIS-included ILPs. During the same period MSCI World TR USD and MSCI AC Asia ex Japan Index rallied 30.92% and 29.02%, respectively, while the Citigroup WGBI TR rose 7.17%. Equity type was the leading gainers (+20.04%), while money market portfolio posted 1.61% on average for the period.

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

Figure 5 Average Performance of CPFIS-Included Unit Trusts at End Q2-2017 by Asset Class (% in SGD)



Source: Thomson Reuters Lipper

During second quarter 2017, equity and mixed-asset types of UT portfolios posted positive return of 3.72% and 2.57% on average, while bond type only posted positive return of 1.09% for Q2 2017.

On average for the one-year period, all asset types of UT portfolios posted positive return. Equity, mixed-asset and money market type posted positive return of 22.47%, 15.50% and 1.95% on average, respectively.

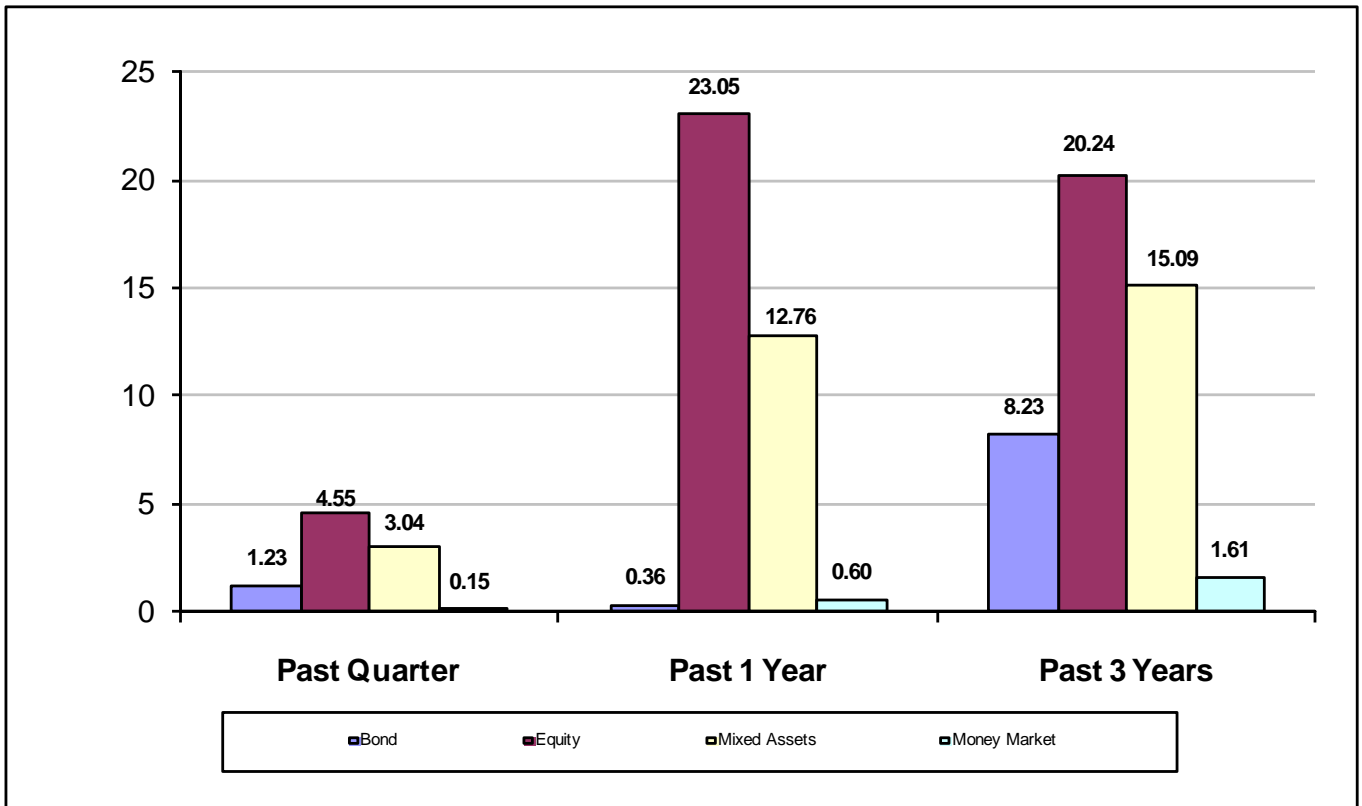
Equity products (+19.79%) outperformed the other asset class offerings over the three-year period, and mixed-asset and bond types posted gains of 19.30% and 9.83% on average, respectively, for the three years through June 2017.

⁴ 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 Q2-2017 by Asset Class (% in SGD)



Source: Thomson Reuters Lipper

For second quarter 2017, ILP portfolios all posted positive return. Equity, mixed-asset, bond and money market types of ILP portfolios posted positive return of 4.55%, 3.04%, 1.23% and 0.15% on average, respectively.

For the one-year period equity products(+23.05% on average) outperformed the bond offerings(+0.36% on average), mixed-asset type(+12.76% on average) and money market(+0.60% on average). For the three-year period equity funds were the leading gainers(+20.24%). Bond, mixed-asset and money market portfolios delivered 8.23%, 15.09% and 1.61% growth, on average, respectively.

The average returns of CPFIS-included unit trusts by Lipper Global Classification⁵ 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 31/03/2017	6M 31/12/2016	9M 30/09/2016	1Y 30/06/2016	3Y 30/06/2014
	To 30/06/2017	To 30/06/2017	To 30/06/2017	To 30/06/2017	To 30/06/2017
Bond Global (5)	0.87	1.72	0.18	1.05	7.55
Bond SGD (8)	1.30	3.62	0.67	2.41	11.32
Equity ASEAN (1)	2.52	4.31	4.38	7.38	-23.15
Equity Asia Pacific (1)	5.59	9.58	8.08	20.19	20.19
Equity Asia Pacific ex Japan (9)	4.98	14.62	14.02	24.63	20.09
Equity Asia Pacific Sm&Mid Cap (4)	3.60	12.83	12.16	23.00	18.55
Equity China (3)	6.58	15.93	15.14	32.98	39.59
Equity Emerging Mkts Asia (1)	6.21	17.76	18.48	32.77	40.02
Equity Emerging Mkts Global (4)	5.37	13.55	14.58	25.29	13.40
Equity Europe (6)	5.59	10.01	15.54	22.82	14.48
Equity Global (6)	0.86	3.49	12.16	20.96	1.68
Equity Global Income (5)	2.08	3.82	9.95	15.65	13.12
Equity Greater China (5)	7.31	16.79	16.72	32.55	25.66
Equity India (3)	1.60	15.10	10.96	18.43	51.57
Equity Indonesia (1)	2.60	6.29	9.59	16.34	-5.93
Equity Japan (4)	6.16	7.31	21.11	34.33	35.41
Equity Korea (1)	1.47	9.93	5.62	16.32	-7.74
Equity Malaysia (1)	3.77	7.05	0.04	2.49	-16.51
Equity Malaysia/Singapore (1)	1.90	9.38	9.00	11.26	-7.73
Equity Sector Biotechnology (1)	0.19	8.62	7.98	24.75	32.31
Equity Sector Information Tech (1)	5.76	16.24	20.81	38.95	56.75
Equity Sector Real Est Global (1)	1.96	-0.07	0.53	1.32	18.23
Equity Singapore (6)	2.75	13.46	14.60	18.56	7.91
Equity Thailand (3)	2.60	8.35	14.14	20.59	22.04
Mixed Asset SGD Balanced (4)	2.37	6.79	6.80	12.84	17.97
Mixed Asset USD Aggressive (1)	4.36	9.28	11.08	22.24	24.60
Mixed Asset USD Bal - Global (1)	1.58	3.91	12.26	19.39	0.00
Equity US (7)	0.86	3.51	12.11	19.03	36.35
Absolute Return Other (1)	0.00	5.39	4.14	12.10	12.10
Equity Sector Healthcare (2)	5.46	12.96	12.02	17.73	44.35
Equity Sector Financials (1)	5.23	8.35	23.83	32.97	24.55
Bond Asia Pacific LC (2)	0.84	2.07	0.49	1.91	8.43
Equity Japan Income (2)	3.53	5.12	16.39	25.62	40.44
Grand Total (102)	3.26	8.77	11.15	19.21	17.97

Source: Thomson Reuters 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:

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

Name	% Growth	% Growth	% Growth	% Growth	% Growth
	3M 31/03/2017	6M 31/12/2016	9M 30/09/2016	1Y 30/06/2016	3Y 30/06/2014
	To 30/06/2017	To 30/06/2017	To 30/06/2017	To 30/06/2017	To 30/06/2017
Bond Global (12)	1.23	1.47	-1.68	-0.87	6.73
Bond SGD (7)	1.22	3.57	0.98	2.61	11.55
Equity ASEAN (2)	2.50	4.28	4.28	7.26	-23.40
Equity Asia Pacific (1)	5.59	9.58	8.08	20.19	20.19
Equity Asia Pacific ex Japan (12)	5.53	16.29	15.45	26.57	17.52
Equity Asia Pacific Sm&Mid Cap (4)	5.43	15.26	12.54	25.55	1.72
Equity China (3)	5.99	15.45	14.13	31.97	34.40
Equity Emerging Mkts Asia (1)	6.22	17.78	18.49	32.78	40.07
Equity Emerging Mkts Global (6)	6.01	14.10	14.58	25.36	15.86
Equity Europe (4)	7.36	11.37	14.93	21.75	7.74
Equity Global (17)	2.51	6.12	12.64	19.87	15.59
Equity Global Income (1)	0.99	0.72	8.49	14.34	13.19
Equity Greater China (4)	8.37	18.26	17.63	34.87	39.25
Equity India (5)	5.07	18.59	13.68	18.16	44.23
Equity Japan (5)	5.78	7.71	16.18	29.47	26.26
Equity Sector Information Tech (4)	5.58	16.47	20.60	38.44	62.65
Equity Sector Real Est Global (2)	0.74	-1.50	-1.08	1.63	17.07
Equity Singapore (10)	2.83	13.69	14.11	17.65	6.63
Mixed Asset SGD Aggressive (13)	3.41	8.46	9.98	15.60	13.38
Mixed Asset SGD Balanced (32)	3.15	7.72	8.01	13.49	16.63
Mixed Asset SGD Conservative (10)	2.01	4.43	2.80	5.39	10.74
Mixed Asset USD Bal - Global (1)	1.57	3.85	12.17	19.25	0.00
Money Market SGD (5)	0.15	0.34	0.42	0.60	1.61
Target Maturity Other (5)	3.69	7.98	7.94	13.89	17.47
Equity US (1)	-0.79	-1.80	8.26	14.10	35.35
Bond Other Hedged (1)	1.84	2.10	-3.19	-2.80	8.10
Equity Sector Healthcare (2)	5.53	13.03	11.96	17.70	44.31
Bond Asia Pacific LC (1)	0.78	1.95	0.68	2.40	9.87
Grand Total (171)	3.47	8.75	9.41	16.01	16.39

Source: Thomson Reuters Lipper

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

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."

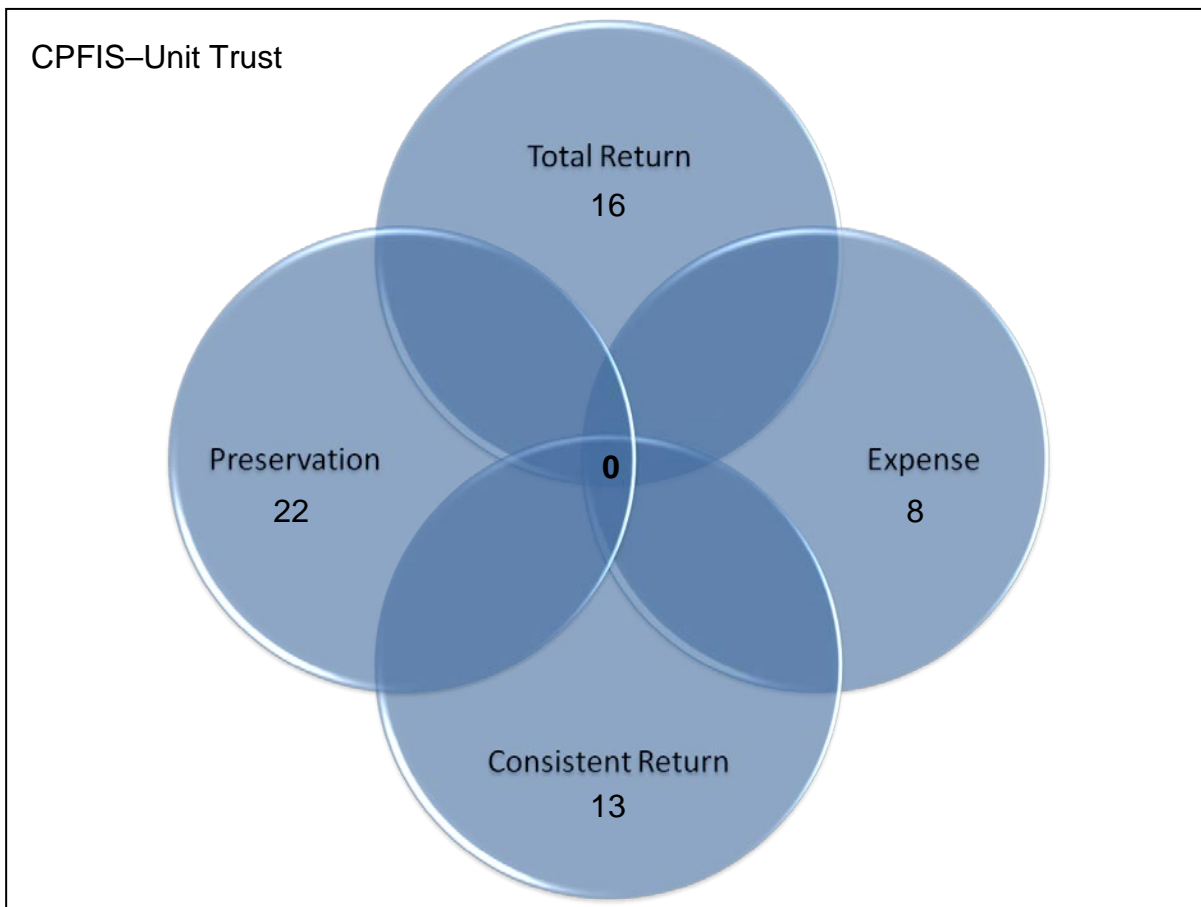
The middle 20% of funds receive a rating of "3."

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 June 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: 13 funds
- Preservation: 22 funds
- Expense: 8 funds

There’s no CPFIS-included unit trust received a rating of “5” (Lipper Leader) in all four metrics.

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	4	2	4	4
Aberdeen Asian Smaller Companies Fund	Equity Asia Pacific Sm&Mid Cap	2	3	2	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	3	3	3	3
Aberdeen Global Opportunities Fund	Equity Global	2	3	1	4
Aberdeen India Opportunities Fund	Equity India	2	4	3	2
Aberdeen Indonesia Equity Fund	Equity Indonesia	1	4	2	1
Aberdeen Malaysian Equity Fund	Equity Malaysia	2	3	4	1
Aberdeen Pacific Equity Fund	Equity Asia Pacific ex Japan	2	3	2	4
Aberdeen Singapore Equity Fund	Equity Singapore	4	3	3	4
Aberdeen Thailand Equity Fund	Equity Thailand	2	4	2	4
Allianz Europe Equity Growth - Class AT (H2-SGD)	Equity Europe	Leader	N/A	Leader	2
Allianz Global Investors Premier Funds – Allianz Global High Payout Fund - SGD	Equity Global Income	2	3	2	Leader
Allianz Global Investors Premier Funds – Allianz Global High Payout Fund (USD Share Class)	Equity Global Income	2	3	2	Leader
Allianz Oriental Income - Class AT (SGD)	Mixed Asset USD Aggressive	Leader	2	Leader	3
Amundi Opportunities-Amundi Singapore Dividend Growth (AS-D Class)	Equity Singapore	2	3	2	2
APS Alpha Fund (SGD)	Absolute Return Other	3	Leader	Leader	3
Deutsche China Equity Fund (Class A)	Equity China	2	4	2	1
Deutsche Lion Bond Fund (Class A)	Bond Global	3	Leader	3	Leader
Eastspring Investments - Japan Dynamic Fund Class As (hedged)	Equity Japan	2	3	Leader	1
Eastspring Investments Unit Trusts – Asian Balanced Fund	Mixed Asset SGD Balanced	3	4	3	4
Eastspring Investments Unit Trusts - Dragon Peacock Fund	Equity Emerging Mkts Asia	4	4	3	4
Eastspring Investments Unit Trusts – Global Technology Fund	Equity Sector Information Tech	3	4	3	4
Eastspring Investments Unit Trusts – Pan European Fund	Equity Europe	4	3	4	3
Eastspring Investments Unit Trusts – Singapore ASEAN Equity Fund	Equity Singapore	1	3	2	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	3	1	1
First State Asian Growth Fund	Equity Asia Pacific ex Japan	1	3	3	Leader
First State Bridge	Mixed Asset SGD Balanced	Leader	4	Leader	Leader
First State Dividend Advantage	Equity Asia Pacific ex Japan	Leader	3	Leader	Leader
First State Global Resources Fund	Equity Global	1	3	1	1
First State Regional China Fund	Equity Greater China	3	4	3	3
Franklin Templeton Investment Funds - Templeton Emerging Markets Fund A(acc)SGD	Equity Emerging Mkts Global	4	1	3	3

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Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
Franklin Templeton Investment Funds – Franklin Biotechnology Discovery Fund A(acc)SGD	Equity Sector Biotechnology	3	4	3	1
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	1	2	2	2
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	4
Legg Mason Asian Enterprise Trust (Class A (SGD) Accumulating)	Equity Asia Pacific Sm&Mid Cap	1	3	1	2
Legg Mason Southeast Asia Special Situations Trust (Class A (SGD) Accumulating)	Equity ASEAN	1	3	1	1
Legg Mason Western Asset Global Bond Trust (Class A (SGD) Accumulating)	Bond Global	3	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	4	1
LionGlobal Short Duration Bond Fund Class A (SGD) (Dist)	Bond Global	4	Leader	4	Leader
LionGlobal Singapore / Malaysia Fund (SGD)	Equity Malaysia/Singapore	2	Leader	2	3
LionGlobal TEAM - Singapore Fixed Income Investment (Class A)	Bond SGD	4	3	4	Leader
LionGlobal Thailand Fund (SGD)	Equity Thailand	2	2	3	2
Manulife Asia Pacific Investment Grade Bond Fund Class A	Bond Asia Pacific LC	3	Leader	3	Leader
Nikko AM Asia Investment Funds - Nikko AM Shenton Global Property Securities Fund S\$ Class	Equity Sector Real Est Global	4	4	4	3
Nikko AM Shenton Japan Fund (S\$) Class	Equity Japan	4	4	3	4
Nikko AM Shenton Short Term Bond Funds - Nikko AM Shenton Short Term Bond Fund (S\$) Class	Bond Global	3	Leader	3	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	3	4	Leader	3
PineBridge International Funds - Acorns of Asia Balanced Fund	Mixed Asset SGD Balanced	4	4	4	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	3	3	3	Leader
Schroder Asian Growth Fund	Equity Asia Pacific ex Japan	Leader	4	Leader	4
Schroder Asian Investment Grade Credit	Bond Asia Pacific LC	3	Leader	3	Leader
Schroder China Opportunities Fund	Equity China	Leader	3	4	2
Schroder Global Emerging Market Opportunities Fund	Equity Emerging Mkts Global	4	3	4	3
Schroder Multi-Asset Revolution Class A	Mixed Asset SGD Balanced	4	3	4	Leader
Schroder Singapore Fixed Income Fund Class A	Bond SGD	3	3	2	Leader
Schroder Singapore Trust Class A	Equity Singapore	4	4	Leader	4
United Asia Top-50 Fund	Equity Asia Pacific	3	1	3	4

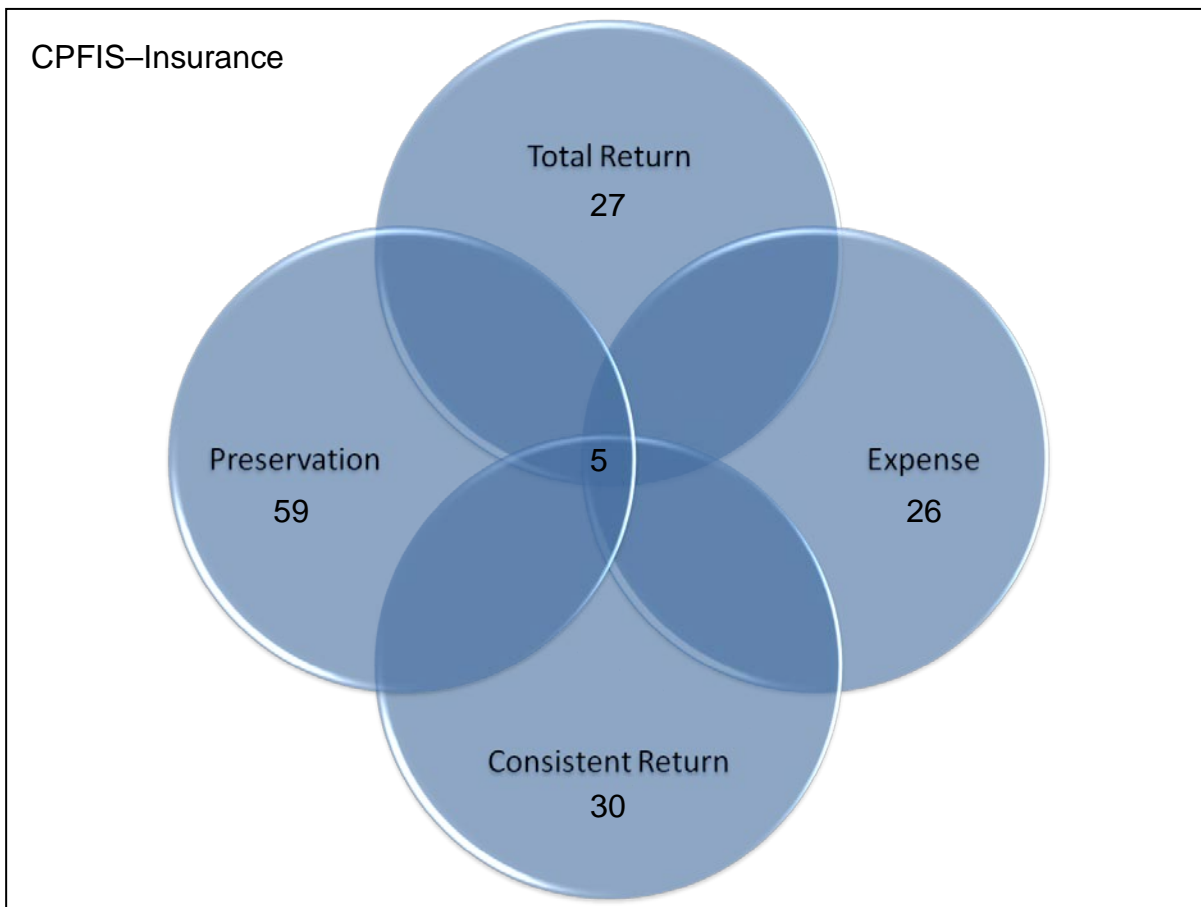
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Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
United Global Financials Fund	Equity Sector Financials	2	1	2	3
United Global Healthcare Fund	Equity Sector Healthcare	Leader	2	Leader	2
United International Growth Fund	Equity Global	3	3	3	Leader
United SGD Fund - Class A (ACC) SGD	Bond SGD	2	3	2	Leader
United Singapore Bond Fund	Bond SGD	Leader	2	Leader	Leader
United Singapore Growth Fund	Equity Singapore	2	4	1	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 June 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: 27 funds
- Consistent Return: 30 funds
- Preservation: 59 funds
- Expense: 26 funds

Five of the CPFIS-included ILPs received a rating of “5” (Lipper Leader) in all four metrics combined. They are: AIA Portfolio 30, Aviva MM Income Growth, AXA Global Secure Fund, NTUC Global Managed Fund (Growth) and PruLink Asian Income and Growth Fund.

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	3	3	3	3
AIA Emerging Markets Equity Fund	Equity Emerging Mkts Global	4	3	4	3
AIA Global Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	Leader
AIA Global Bond Fund	Bond Other Hedged	4	2	4	Leader
AIA Global Resources Fund	Equity Global	1	3	1	1
AIA Global Technology Fund	Equity Sector Information Tech	Leader	4	Leader	4
AIA Greater China Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	3
AIA Greater China Equity Fund	Equity Greater China	Leader	4	Leader	3
AIA Growth Fund	Mixed Asset SGD Aggressive	2	Leader	2	2
AIA India Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	2
AIA India Opportunities Fund	Equity India	2	4	3	2
AIA International Health Care Fund	Equity Sector Healthcare	4	2	4	3
AIA Japan Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	4
AIA Japan Equity Fund	Equity Japan	3	3	2	3
AIA Portfolio 100	Equity Global Income	2	2	2	Leader
AIA Portfolio 30	Mixed Asset SGD Conservative	Leader	Leader	Leader	Leader
AIA Portfolio 50	Mixed Asset SGD Balanced	3	3	3	Leader
AIA Portfolio 70	Mixed Asset SGD Aggressive	Leader	4	Leader	4
AIA Regional Fixed Income Fund	Bond SGD	4	2	4	Leader
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	2	4	4
Aviva Income Growth (SP)	Mixed Asset SGD Conservative	2	2	2	Leader
Aviva Legg Mason Asian Enterprise Trust (SP)	Equity Asia Pacific Sm&Mid Cap	1	4	1	2
Aviva Legg Mason Western Asset Global Bond Trust (SP)	Bond Global	2	1	3	Leader
Aviva LionGlobal Japan Growth (SP)	Equity Japan	Leader	1	4	4
Aviva MM Balanced Growth	Mixed Asset SGD Balanced	Leader	Leader	Leader	3
Aviva MM Capital Growth	Equity Asia Pacific ex Japan	Leader	Leader	Leader	4
Aviva MM Income Growth	Mixed Asset SGD Conservative	Leader	Leader	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	4	4	Leader
AXA Asian Balanced Fund	Mixed Asset SGD Balanced	Leader	3	Leader	4
AXA Asian Growth Fund	Equity Asia Pacific ex Japan	4	3	4	4
AXA China Growth Fund	Equity Greater China	3	4	3	2
AXA Fortress Fund A	Equity Singapore	2	2	3	Leader
AXA Fortress Fund B	Equity Singapore	2	2	3	4
AXA Global Balanced Fund	Mixed Asset SGD Balanced	3	3	3	Leader
AXA Global Defensive Fund	Bond Global	3	4	3	Leader
AXA Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	4	3	4	3
AXA Global Equity Blend	Equity Global	4	3	3	4
AXA Global Growth Fund	Mixed Asset SGD Aggressive	Leader	4	4	4
AXA Global High Growth Fund	Equity Global	3	3	3	4

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

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

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Name	Lipper Global Classification	3 Years Lipper Rating			
		Consistent Return	Expense	Total Return	Preservation
PruLink Global Bond Fund	Bond Global	4	4	4	Leader
PruLink Global Equity Fund	Equity Global	2	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	3	3	3
PruLink Global Technology Fund	Equity Sector Information Tech	3	4	3	4
PruLink Greater China Fund	Equity Greater China	Leader	4	Leader	3
PruLink Pan European Fund	Equity Europe	4	3	4	3
PruLink Singapore ASEAN Managed Fund	Mixed Asset SGD Aggressive	2	4	3	2
PruLink Singapore Dynamic Bond Fund	Bond SGD	Leader	4	Leader	Leader
PruLink Singapore Growth Fund	Equity Singapore	4	3	4	4
PruLink Singapore Managed Fund	Mixed Asset SGD Aggressive	2	Leader	2	2
TMLS Asian Equity Fund	Equity Asia Pacific ex Japan	2	4	2	4
TMLS China Equity Fund	Equity China	Leader	4	4	2
TMLS Global Bond Fund	Bond Global	4	Leader	3	Leader
TMLS Global Equity Fund	Equity Global	2	3	2	Leader
UOB Life FOF Asia Top 50 Fund	Equity Asia Pacific	3	1	3	4
UOB Life FOF Global Healthcare Fund	Equity Sector Healthcare	Leader	2	Leader	2
UOB Life FOF Growth Fund	Equity Singapore	1	4	1	2
UOB Life FOF International Growth Fund	Equity Global	3	3	3	Leader
UOB LifeLink Global Fund	Equity Global	3	3	3	Leader
UOB LifeLink Growth Fund	Equity Singapore	1	4	1	2

Source: Thomson Reuters Lipper

7 Appendices

7.1 Complete List of Funds ⁶

7.1.1 Full List of CPFIS-Included Unit Trusts

Name	Lipper Global	CPFIS Risk	CPF Focus	TER Date	Expense Ratio
Franklin Templeton Investment Funds – Templeton Korea Fund A(acc)SGD	Equity Korea	Higher Risk	Narrowly Focused	31/12/2016	2.58
Franklin Templeton Investment Funds – Templeton Thailand Fund A(acc)SGD	Equity Thailand	Higher Risk	Narrowly Focused	31/12/2016	2.51
Franklin Templeton Investment Funds - Templeton Emerging Markets Fund A(acc)SGD	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	31/12/2016	2.48
Franklin Templeton Investment Funds – Templeton China Fund A(acc)SGD	Equity Greater China	Higher Risk	Narrowly Focused	31/12/2016	2.46
Franklin Templeton Investment Funds – Templeton Asian Growth Fund A(acc)SGD	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/12/2016	2.22
United Asia Top-50 Fund	Equity Asia Pacific	Higher Risk	Narrowly Focused	31/12/2016	2.20
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
LionGlobal Thailand Fund (SGD)	Equity Thailand	Higher Risk	Narrowly Focused	31/12/2016	2.09
AB SICAV I-International Health Care Portfolio (Class A) - SGD	Equity Sector Healthcare	Higher Risk	Narrowly Focused	30/11/2016	2.08
United Global Healthcare Fund	Equity Sector Healthcare	Higher Risk	Narrowly Focused	31/12/2016	2.08
United Global Financials Fund	Equity Sector Financials	Higher Risk	Narrowly Focused	31/12/2016	1.98
Franklin Templeton Investment Funds – Templeton Global Equity Income Fund	Equity Global Income	Higher Risk	Broadly Diversified	31/12/2016	1.86
Allianz Europe Equity Growth - Class AT (H2-SGD)	Equity Europe	Higher Risk	Narrowly Focused	31/03/2017	1.85
Allianz Oriental Income - Class AT (SGD)	Mixed Asset USD Aggressive	Higher Risk	Narrowly Focused	31/03/2017	1.85
Franklin Templeton Investment Funds – Templeton European Fund A(acc)SGD	Equity Europe	Higher Risk	Narrowly Focused	31/12/2016	1.84
Franklin Templeton Investment Funds – Franklin Biotechnology Discovery Fund A(acc)SGD	Equity Sector Biotechnology	Higher Risk	Narrowly Focused	31/12/2016	1.82
Nikko AM Asia Investment Funds - Nikko AM Shenton Global Property Securities Fund S\$ Class	Equity Sector Real Est Global	Higher Risk	Narrowly Focused	31/12/2016	1.77
Aberdeen Asian Smaller Companies Fund	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	31/03/2017	1.75
Aberdeen China Opportunities Fund	Equity Greater China	Higher Risk	Narrowly Focused	31/03/2017	1.75
Aberdeen European Opportunities Fund	Equity Europe	Higher Risk	Narrowly Focused	31/03/2017	1.75
Aberdeen Global Emerging Markets Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	31/03/2017	1.75
Aberdeen Global Opportunities Fund	Equity Global	Higher Risk	Broadly Diversified	31/03/2017	1.75

⁶ These expense ratios may not be up to end of June 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.

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Name	Lipper Global	CPFIS Risk	CPF Focus	TER Date	Expense Ratio
Aberdeen Global Opportunities Fund	Equity Global	Higher Risk	Broadly Diversified	31/03/2017	1.75
Aberdeen India Opportunities Fund	Equity India	Higher Risk	Narrowly Focused	31/03/2017	1.75
Aberdeen Malaysian Equity Fund	Equity Malaysia	Higher Risk	Narrowly Focused	31/03/2017	1.75
Aberdeen Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/03/2017	1.75
Franklin Templeton Shariah Funds – Templeton Shariah Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	31/10/2016	1.75
Natixis International Funds (LUX) I - Harris Associates Global Equity Fund P/A	Equity Global	Higher Risk	Broadly Diversified	31/12/2016	1.75
Natixis International Funds (LUX) I - Harris Associates U.S. Equity Fund H-P/A	Equity US	Higher Risk	Narrowly Focused	31/12/2016	1.75
Fidelity Funds - Greater China Fund SR-ACC-SGD	Equity Greater China	Higher Risk	Narrowly Focused	31/10/2016	1.74
First State Dividend Advantage	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/12/2016	1.74
Franklin Templeton Investment Funds – Franklin India Fund AS (acc)SGD	Equity India	Higher Risk	Narrowly Focused	31/12/2016	1.74
Schroder Asian Equity Yield Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/12/2016	1.74
Schroder Global Emerging Market Opportunities Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	31/12/2016	1.74
Aberdeen Indonesia Equity Fund	Equity Indonesia	Higher Risk	Narrowly Focused	31/03/2017	1.73
Aberdeen Thailand Equity Fund	Equity Thailand	Higher Risk	Narrowly Focused	31/03/2017	1.73
Fidelity Funds – Asia Focus Fund SR-ACC-SGD	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/10/2016	1.73
Fidelity Funds - Asian Special Situations Fund SR-ACC-SGD	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/10/2016	1.73
First State Asian Growth Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/12/2016	1.73
Legg Mason Asian Enterprise Trust (Class A (SGD) Accumulating)	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	31/03/2017	1.73
Legg Mason Southeast Asia Special Situations Trust (Class A (SGD) Accumulating)	Equity ASEAN	Higher Risk	Narrowly Focused	31/03/2017	1.73
Pinebridge India Equity Fund - Class ASCP	Equity India	Higher Risk	Narrowly Focused	31/12/2016	1.73
First State Regional China Fund	Equity Greater China	Higher Risk	Narrowly Focused	31/12/2016	1.72
Franklin Templeton Investment Funds – Templeton Global Fund AS (acc)SGD	Equity Global	Higher Risk	Broadly Diversified	31/12/2016	1.72

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Name	Lipper Global	CPFIS Risk	CPF Focus	TER Date	Expense Ratio
Nikko AM Japan Dividend Equity Fund-SGD Hedged Class Units	Equity Japan Income	Higher Risk	Narrowly Focused	31/12/2016	1.72
Schroder China Opportunities Fund	Equity China	Higher Risk	Narrowly Focused	31/12/2016	1.72
Schroder International Selection Fund Greater China	Equity Greater China	Higher Risk	Narrowly Focused	31/12/2016	1.72
Deutsche China Equity Fund (Class A)	Equity China	Higher Risk	Narrowly Focused	31/12/2016	1.71
Fidelity Funds-China Focus Fund SR-ACC-SGD	Equity China	Higher Risk	Narrowly Focused	31/10/2016	1.71
Fidelity Funds-Emerging Markets Fund SR-ACC-SGD	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	31/10/2016	1.71
Franklin Templeton Investment Funds – Franklin U.S. Opportunities Fund AS	Equity US	Higher Risk	Narrowly Focused	31/12/2016	1.71
Pinebridge US Large Cap Research Enhanced Fund - Class A5CP	Equity US	Higher Risk	Narrowly Focused	31/12/2016	1.71
Eastspring Investments Unit Trusts – Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	31/12/2016	1.70
Eastspring Investments Unit Trusts – Pan European Fund	Equity Europe	Higher Risk	Narrowly Focused	31/12/2016	1.70
Fidelity Funds-America Fund SR-ACC-SGD (Hedged)	Equity US	Higher Risk	Narrowly Focused	31/10/2016	1.70
Fidelity Funds-Global Dividend Fund SR-ACC-SGD	Equity Global Income	Higher Risk	Broadly Diversified	31/10/2016	1.70
Fidelity Funds-Global Dividend Fund SR-MINCOME(G)-SGD	Equity Global Income	Higher Risk	Broadly Diversified	31/10/2016	1.70
First State Global Resources Fund	Equity Global	Higher Risk	Narrowly Focused	31/12/2016	1.70
Fidelity Funds – European Growth Fund SR-ACC-Euro	Equity Europe	Higher Risk	Narrowly Focused	31/10/2016	1.69
Fidelity Funds – America Fund SR-ACC-SGD	Equity US	Higher Risk	Narrowly Focused	31/10/2016	1.68
Fidelity Funds – America Fund SR-ACC-USD	Equity US	Higher Risk	Narrowly Focused	31/10/2016	1.68
Fidelity Funds – European Growth Fund SR-ACC-SGD	Equity Europe	Higher Risk	Narrowly Focused	31/10/2016	1.68
Aberdeen Singapore Equity Fund	Equity Singapore	Higher Risk	Narrowly Focused	31/03/2017	1.67
Nikko AM Japan Dividend Equity Fund-SGD Class Units	Equity Japan Income	Higher Risk	Narrowly Focused	31/12/2016	1.67
Allianz Global Investors Premier Funds – Allianz Global High Payout Fund - SGD	Equity Global Income	Higher Risk	Broadly Diversified	31/12/2016	1.66
Allianz Global Investors Premier Funds – Allianz Global High Payout Fund (USD)	Equity Global Income	Higher Risk	Broadly Diversified	31/12/2016	1.66

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Name	Lipper Global	CPFIS Risk	CPF Focus	TER Date	Expense Ratio
Eastspring Investments Unit Trusts - Dragon Peacock Fund	Equity Emerging Mkts Asia	Higher Risk	Narrowly Focused	31/12/2016	1.65
LionGlobal Japan Growth Fund (SGD)	Equity Japan	Higher Risk	Narrowly Focused	31/12/2016	1.65
LionGlobal Japan Growth Fund SGD-Hedged Class	Equity Japan	Higher Risk	Narrowly Focused	31/12/2016	1.65
Eastspring Investments Unit Trusts – Singapore ASEAN Equity Fund	Equity Singapore	Higher Risk	Narrowly Focused	31/12/2016	1.64
Eastspring Investments - Japan Dynamic Fund Class As (hedged)	Equity Japan	Higher Risk	Narrowly Focused	31/12/2016	1.55
Eastspring Investments-Asian Equity Income Fund Class as Hedged	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/12/2016	1.55
Amundi Opportunities-Amundi Singapore Dividend Growth (AS-D Class)	Equity Singapore	Higher Risk	Narrowly Focused	30/11/2016	1.54
LionGlobal Singapore / Malaysia Fund (SGD)	Equity Malaysia/Singapore	Higher Risk	Narrowly Focused	31/12/2016	1.46
Schroder Asian Growth Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	31/12/2016	1.36
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
Schroder Singapore Trust Class A	Equity Singapore	Higher Risk	Narrowly Focused	31/12/2016	1.33
United International Growth Fund	Equity Global	Higher Risk	Broadly Diversified	31/12/2016	1.28
United Singapore Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	31/12/2016	1.24
Pinebridge US Large Cap Research Enhanced Fund - Class Y	Equity US	Higher Risk	Narrowly Focused	31/12/2016	1.20
Nikko AM Shenton Japan Fund (S\$) Class	Equity Japan	Higher Risk	Narrowly Focused	31/12/2016	1.11
Nikko AM Shenton Thrift Fund	Equity Singapore	Higher Risk	Narrowly Focused	31/12/2016	0.94
APS Alpha Fund (SGD)	Absolute Return Other	Higher Risk	Narrowly Focused	31/12/2016	0.00
Franklin Templeton Investment Funds – Templeton Global Balanced Fund AS	Mixed Asset USD Bal - Global	Medium To High Risk	Broadly Diversified	31/12/2016	1.52
Schroder Multi-Asset Revolution Class A	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	31/12/2016	1.51
PineBridge International Funds - Acorns of Asia Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	31/12/2016	1.49
First State Bridge	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	31/12/2016	1.47
Eastspring Investments Unit Trusts – Asian Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	31/12/2016	1.46

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Name	Lipper Global	CPFIS Risk	CPF Focus	TER Date	Expense Ratio
Legg Mason Western Asset Singapore Bond Fund (Class A (SGD) Accumulating)	Bond SGD	Low To Medium Risk	Narrowly Focused	31/03/2017	0.94
Schroder Asian Investment Grade Credit	Bond Asia Pacific LC	Low To Medium Risk	Narrowly Focused	31/12/2016	0.91
Legg Mason Western Asset Global Bond Trust (Class A (SGD) Accumulating)	Bond Global	Low To Medium Risk	Broadly Diversified	31/03/2017	0.88
PineBridge International Funds - Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	31/12/2016	0.87
United Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	31/12/2016	0.75
Schroder Singapore Fixed Income Fund Class A	Bond SGD	Low To Medium Risk	Narrowly Focused	31/12/2016	0.71
Deutsche Lion Bond Fund (Class A)	Bond Global	Low To Medium Risk	Broadly Diversified	31/12/2016	0.69
United SGD Fund - Class A (ACC) SGD	Bond SGD	Low To Medium Risk	Broadly Diversified	31/12/2016	0.68
LionGlobal TEAM - Singapore Fixed Income Investment (Class A)	Bond SGD	Low To Medium Risk	Narrowly Focused	31/12/2016	0.67
Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class A	Bond SGD	Low To Medium Risk	Narrowly Focused	31/12/2016	0.62
Eastspring Investments Unit Trusts – Singapore Select Bond Fund Class AD	Bond SGD	Low To Medium Risk	Narrowly Focused	31/12/2016	0.62
LionGlobal Short Duration Bond Fund Class A (SGD) (Dist)	Bond Global	Low To Medium Risk	Narrowly Focused	31/12/2016	0.61
Nikko AM Shenton Short Term Bond Funds - Nikko AM Shenton Short Term	Bond Global	Low To Medium Risk	Broadly Diversified	31/12/2016	0.41
LionGlobal Short Duration Bond Fund Class A (SGD) (Acc)	Bond Global	Low To Medium Risk	Narrowly Focused	30/06/2016	0.00

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
Aviva Aberdeen Pacific Equity (SP)	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	3.03
Aviva LionGlobal Japan Growth (SP)	Equity Japan	Higher Risk	Narrowly Focused	Japan	31/12/2016	2.85
UOB Life FOF Asia Top 50 Fund	Equity Asia Pacific	Higher Risk	Narrowly Focused	Asia	30/12/2016	2.20
AIA International Health Care Fund	Equity Sector Healthcare	Higher Risk	Narrowly Focused	Healthcare	31/12/2016	2.15
UOB Life FOF Global Healthcare Fund	Equity Sector Healthcare	Higher Risk	Narrowly Focused	Healthcare	30/12/2016	2.08
Aviva Capital Growth (SP)	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	2.03
PruLink Global Property Securities Fund	Equity Sector Real Est Global	Higher Risk	Narrowly Focused	Sector - Others	31/12/2016	1.96
AIA Emerging Markets Equity Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	31/12/2016	1.75
AIA Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	Technology	31/12/2016	1.75
AIA Greater China Equity Fund	Equity Greater China	Higher Risk	Narrowly Focused	Greater China	31/12/2016	1.75
AIA India Opportunities Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	31/12/2016	1.75
AXA Asian Growth Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.75
AXA China Growth Fund	Equity Greater China	Higher Risk	Narrowly Focused	Greater China	31/12/2016	1.75
AXA Fortress Fund A	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	1.75
AXA Fortress Fund B	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	1.75
AXA Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	31/12/2016	1.75
AXA Global Equity Blend	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.75
AXA Global High Growth Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.75
AXA India Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	31/12/2016	1.75
AXA Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.75
AXA Shariah Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.75
AXA Singapore Equity Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	1.75

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Name (CPF)	Lipper Global	CPFIS Risk	CPF Focus	Detail	TER Date	Expense Ratio
AXA South East Asia Special Situations Fund	Equity ASEAN	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.75
AXA Value Growth Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.75
John Hancock Pacific Equity Fund	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.75
Manulife Golden S.E.A. Special Situations Fund	Equity ASEAN	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.75
Manulife Golden Singapore Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	1.75
PruLink Emerging Markets Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	31/12/2016	1.75
PruLink Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.75
GreatLink Global Opportunities Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.74
John Hancock European Equity Fund	Equity Europe	Higher Risk	Narrowly Focused	Europe	31/12/2016	1.74
AIA Global Resources Fund	Equity Global	Higher Risk	Narrowly Focused	Sector - Others	31/12/2016	1.73
AIA Portfolio 100	Equity Global Income	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.73
John Hancock Japan Growth Fund	Equity Japan	Higher Risk	Narrowly Focused	Japan	31/12/2016	1.73
Manulife Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.73
PruLink Greater China Fund	Equity Greater China	Higher Risk	Narrowly Focused	Greater China	31/12/2016	1.73
GreatLink Global Equity Alpha Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.72
Manulife Golden Asia Growth Fund	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.72
Manulife Lifestyle Portfolios - Aggressive	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.72
PruLink America Fund	Equity US	Higher Risk	Narrowly Focused	North America	31/12/2016	1.72
TMLS India Equity Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	31/12/2016	1.72
TMLS Singapore Equity Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	1.72
GreatLink Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	31/12/2016	1.71
HSBC Insurance Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.71
Manulife Golden Regional China Fund	Equity China	Higher Risk	Narrowly Focused	Greater China	31/12/2016	1.71
Manulife Golden Worldwide Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.71
John Hancock Worldwide Equities Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.70

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Name (CPF)	Lipper Global	CPFIS Risk	CPF Focus	Detail	TER Date	Expense Ratio
TMLS Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.70
TMLS Multi-Asset 90 Fund	Mixed Asset SGD Aggressive	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.70
GreatLink Singapore Equities Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	1.69
HSBC Insurance Ethical Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.69
John Hancock Greater China Fund	Equity China	Higher Risk	Narrowly Focused	Greater China	31/12/2016	1.69
PruLink Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	Technology	31/12/2016	1.69
PruLink Pan European Fund	Equity Europe	Higher Risk	Narrowly Focused	Europe	31/12/2016	1.69
Manulife Japan Growth Fund	Equity Japan	Higher Risk	Narrowly Focused	Japan	31/12/2016	1.68
PruLink Adapt 2035	Target Maturity Other	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.68
AIA Regional Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.67
GreatLink Asia Pacific Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.67
GreatLink Global Real Estate Securities Fund	Equity Sector Real Est Global	Higher Risk	Narrowly Focused	Sector - Others	31/12/2016	1.67
AIA Japan Equity Fund	Equity Japan	Higher Risk	Narrowly Focused	Japan	31/12/2016	1.66
Manulife Lifestyle Portfolios - Growth	Mixed Asset SGD Aggressive	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.66
Manulife European Equity Fund	Equity Europe	Higher Risk	Narrowly Focused	Europe	31/12/2016	1.65
Prulink China-India Fund	Equity Emerging Mkts Asia	Higher Risk	Narrowly Focused	Country - Others	31/12/2016	1.65
GreatLink Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	Technology	31/12/2016	1.64
Manulife Global Emerging Markets Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	31/12/2016	1.63
PRUlink India Equity Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	31/12/2016	1.62
GreatLink European Equity Fund	Equity Europe	Higher Risk	Narrowly Focused	Europe	31/12/2016	1.61
GreatLink LifeStyle Dynamic Portfolio	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.60
GreatLink Lion Japan Growth Fund	Equity Japan	Higher Risk	Narrowly Focused	Japan	31/12/2016	1.60
Manulife India Equity Fund	Equity India	Higher Risk	Narrowly Focused	Country - Others	31/12/2016	1.57
GreatLink China Growth Fund	Equity Greater China	Higher Risk	Narrowly Focused	Greater China	31/12/2016	1.56

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Name (CPF)	Lipper Global	CPFIS Risk	CPF Focus	Detail	TER Date	Expense Ratio
PruLink Asian Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.54
GreatLink LifeStyle Progressive Portfolio	Mixed Asset SGD Aggressive	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.53
TMLS Asian Equity Fund	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.53
Aviva Legg Mason Asian Enterprise Trust (SP)	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.52
Manulife Asian Small-Cap Equity Fund	Equity Asia Pacific Sm&Mid Cap	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.51
TMLS China Equity Fund	Equity China	Higher Risk	Narrowly Focused	Greater China	31/12/2016	1.51
PruLink Singapore Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	1.46
UOB LifeLink Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	1.36
NTUC Global Equity Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.34
NTUC Global Technology Fund	Equity Sector Information Tech	Higher Risk	Narrowly Focused	Technology	31/12/2016	1.32
UOB LifeLink Global Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.32
TMLS Global Emerging Markets Equity Fund	Equity Emerging Mkts Global	Higher Risk	Narrowly Focused	Emerging Markets	31/12/2016	1.28
UOB Life FOF International Growth Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	30/12/2016	1.28
UOB Life FOF Growth Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	30/12/2016	1.24
NTUC Takaful Fund	Equity Global	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.17
NTUC AIM 2035	Target Maturity Other	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.15
NTUC AIM 2045	Target Maturity Other	Higher Risk	Broadly Diversified	N/A	31/12/2016	1.14
Aviva MM Capital Growth	Equity Asia Pacific ex Japan	Higher Risk	Narrowly Focused	Asia	31/12/2016	1.03
NTUC Singapore Equity Fund	Equity Singapore	Higher Risk	Narrowly Focused	Singapore	31/12/2016	0.70
Aviva Templeton Global Balanced (SP)	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	2.30
Aviva Balanced Growth (SP)	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	2.03
Aviva Income Growth (SP)	Mixed Asset SGD Conservative	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	2.02
John Hancock Pacific Harvest Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.93
John Hancock Global Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.84
AIA Emerging Markets Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Regional - Others	31/12/2016	1.55
AIA Global Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.55
AIA Greater China Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Greater China	31/12/2016	1.55
AIA India Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Country - Others	31/12/2016	1.55

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Name (CPF)	Lipper Global	CPFIS Risk	CPF Focus	Detail	TER Date	Expense Ratio
AIA Japan Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Country - Others	31/12/2016	1.55
AIA Portfolio 50	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.55
AIA Portfolio 70	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.55
AXA Asian Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.55
AXA Global Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.55
AXA Global Growth Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.55
AXA Singapore Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Singapore	31/12/2016	1.55
Manulife Income Series - Global Balanced Fund	Mixed Asset USD Bal - Global	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.55
John Hancock Cautious Portfolio	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.54
Manulife Income Series – Asian Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.54
PruLink Adapt 2025	Target Maturity Other	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.54
AIA Acorns of Asia Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.53
PruLink Global Managed Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.52
TMLS Multi-Asset 50 Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.52
TMLS Multi-Asset 70 Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.51
Manulife Golden Global Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.49
Manulife Lifestyle Portfolios - Moderate	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.49
PruLink Singapore ASEAN Managed Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.49
John Hancock Adventurous Portfolio	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.48
John Hancock Balanced Portfolio	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.47
Aviva Schroder Multi Asset Revolution	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.46
PruLink Asian American Managed Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.46

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Name (CPF)	Lipper Global	CPFIS Risk	CPF Focus	Detail	TER Date	Expense Ratio
TMLS Multi-Asset 30 Fund	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.46
PruLink Asian Income and Growth Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.43
Manulife Lifestyle Portfolios - Secure	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.42
NTUC Asia Managed Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.42
GreatLink Lion Asian Balanced Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.40
GreatLink Global Supreme Fund	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.38
GreatLink Lifestyle Balanced Portfolio	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.38
Manulife Golden Balanced Growth Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Singapore	31/12/2016	1.38
Manulife Lifestyle Portfolios - Conservative	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.35
PruLink Singapore Managed Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Singapore	31/12/2016	1.33
AIA Growth Fund	Mixed Asset SGD Aggressive	Medium To High Risk	Narrowly Focused	Singapore	31/12/2016	1.28
NTUC Global Managed Fund (Growth)	Mixed Asset SGD Aggressive	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.23
GreatLink Lifestyle Steady Portfolio	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.22
NTUC Global Managed Fund (Balanced)	Mixed Asset SGD Balanced	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.19
NTUC AIM 2025	Target Maturity Other	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.17
NTUC Global Managed Fund (Conservative)	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	1.08
Aviva MM Balanced Growth	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.03
Aviva MM Income Growth	Mixed Asset SGD Conservative	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	1.02
GreatLink Lifestyle Secure Portfolio	Mixed Asset SGD Conservative	Medium To High Risk	Broadly Diversified	N/A	31/12/2016	0.98
NTUC Singapore Managed Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Singapore	31/12/2016	0.96
NTUC Prime Fund	Mixed Asset SGD Balanced	Medium To High Risk	Narrowly Focused	Asia	31/12/2016	0.95
Aviva Legg Mason Western Asset Global Bond Trust (SP)	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	2.17

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Name (CPF)	Lipper Global	CPFIS Risk	CPF Focus	Detail	TER Date	Expense Ratio
Aviva Nikko AM Shenton Short Term Bond (SP)	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	2.01
John Hancock Worldwide Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	1.42
AIA Global Bond Fund	Bond Other Hedged	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.95
AIA Portfolio 30	Mixed Asset SGD Conservative	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.95
AXA Global Defensive Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.95
AXA Global Secure Fund	Mixed Asset SGD Conservative	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.95
AXA Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	31/12/2016	0.95
Manulife Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	31/12/2016	0.95
AXA Short Duration Bond Fund	Bond SGD	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.94
HSBC Insurance Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.94
Manulife Income Series – Asia Pacific Investment Grade Bond Fund	Bond Asia Pacific LC	Low To Medium Risk	Narrowly Focused	Asia	31/12/2016	0.94
Manulife Golden International Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.92
NTUC AIM NOW	Mixed Asset SGD Conservative	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.91
GreatLink Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.89
NTUC Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.88
AIA Regional Fixed Income Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	31/12/2016	0.87
TMLS Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	31/12/2016	0.83
PruLink Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.77
HSBC Insurance Singapore Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.74
PruLink Singapore Dynamic Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	31/12/2016	0.62
GreatLink Short Duration Bond Fund	Bond Global	Low To Medium Risk	Narrowly Focused	Asia	31/12/2016	0.58
NTUC Singapore Bond Fund	Bond SGD	Low To Medium Risk	Narrowly Focused	Singapore	31/12/2016	0.52
TMLS Global Bond Fund	Bond Global	Low To Medium Risk	Broadly Diversified	N/A	31/12/2016	0.23
John Hancock Singapore Cash Fund	Money Market SGD	Lower Risk	Narrowly Focused	Singapore	31/12/2016	0.66
Manulife Singapore Cash Fund	Money Market SGD	Lower Risk	Narrowly Focused	Singapore	31/12/2016	0.64
GreatLink Cash Fund	Money Market SGD	Lower Risk	Broadly Diversified	N/A	31/12/2016	0.43
AIA S\$ Money Market Fund	Money Market SGD	Lower Risk	Narrowly Focused	Singapore	31/12/2016	0.31
PruLink Singapore Cash Fund	Money Market SGD	Lower Risk	Broadly Diversified	N/A	31/12/2016	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:

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

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