

SPIVA[®] Australia Scorecard

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Experience the active vs. passive debate on a global scale.

SUMMARY

- S&P Dow Jones Indices has been the de facto scorekeeper of the ongoing active versus passive debate since the first publication of the SPIVA U.S. Scorecard in 2002. Over the years, we have built on our 18 years of experience publishing the report by expanding scorecard coverage into Australia, Canada, Europe, India, Japan, Latin America, and South Africa.
- The SPIVA Australia Scorecard reports on the performance of Australian active funds against their respective benchmark indices over different time periods.¹ In this scorecard, we evaluated returns of over 910 Australian equity funds (large, mid, and small cap, as well as A-REIT), 463 international equity funds, and 116 Australian bond funds.
- Market sell-offs were seen in different Australian equity market segments in the first half of 2020 due to the COVID-19 pandemic, while Australian bonds recorded a small gain. Apart from A-REIT funds, the majority of funds in all categories suffered worse drawdowns versus their respective benchmark indices.
- All fund categories recorded smaller average returns than their respective benchmark indices in the first half of 2020 on both equal- and asset-weighted bases. The same was observed for the 10- and 15-year periods, except for the Australian Equity Mid- and Small-Cap category.

Exhibit 1: First Half 2020 Average Fund and Index Performance

FUND CATEGORY	INDEX	INDEX RETURN (%)	AVERAGE FUND RETURN (%)		PERCENTAGE OF FUNDS OUTPERFORMED BY THE INDEX (%)
			EQUAL-WEIGHTED	ASSET-WEIGHTED	
Australian Equity General	S&P/ASX 200	-10.42	-11.66	-11.39	64.16
Australian Equity Mid- and Small-Cap	S&P/ASX Mid-Small	-6.86	-8.00	-6.98	55.64
International Equity General	S&P Developed Ex-Australia LargeMidCap	-3.20	-3.88	-4.46	60.37
Australian Bonds	S&P/ASX Australian Fixed Interest 0+ Index	3.59	2.94	2.87	73.13
Australian Equity A-REIT	S&P/ASX 200 A-REIT	-21.29	-22.06	-22.21	44.78

Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2020. Index performance based on total return in AUD. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

¹ The fund returns used are net of fees, excluding loads.

- **Australian Equity General Funds:** The [S&P/ASX 200](#) lost 10.42% in the first half of 2020, while Australian Equity General funds recorded worse drawdowns of 11.66% and 11.39% on equal- and asset-weighted bases, respectively. Over the 6- and 12-month periods ending June 2020, 64.16% and 57.14% of funds in this category underperformed the benchmark, respectively. Over the 10- and 15-year horizons, less than 20% of funds managed to survive and deliver higher returns than the benchmark.
- **Australian Equity Mid- and Small-Cap Funds:** The S&P/ASX Mid-Small dropped 6.86% in the first six months of 2020, while the Australian Equity Mid- and Small-Cap funds recorded a bigger loss. Average fund return on an equal-weighted basis was worse than that based on an asset-weighted basis, indicating that funds with smaller assets tended to suffer more losses, which was inconsistent with observations over longer periods. Over the 6- and 12-month periods ending June 2020, 55.64% and 49.61% of funds in this category did not outperform the benchmark, respectively.
- **International Equity General Funds:** The international equity market suffered a smaller loss than the Australian equity market in the first half of 2020. The [S&P Developed Ex-Australia LargeMidCap](#) lost 3.20%, while International Equity General funds marked an equal-weighted average return of -3.88%, with 60.37% of funds underperforming the benchmark. Over the 10- and 15-year periods, more than 90% of funds underperformed the S&P Developed Ex-Australia LargeMidCap.
- **Australian Bond Funds:** The [S&P/ASX Australian Fixed Interest 0+ Index](#) recorded a gain of 3.59% in the first half of 2020, while Australian Bonds funds recorded smaller gains of 2.94% and 2.87% on equal- and asset-weighted bases, respectively. Over the 6- and 12-month periods ending June 2020, 73.13% and 68.12% of funds in this category underperformed the benchmark.
- **Australian Equity A-REIT Funds:** The [S&P/ASX 200 A-REIT](#) suffered a severe loss of 21.29% in the six-month period ending June 2020, while the Australian Equity A-REIT funds lost 22.06% and 22.21% on equal- and asset-weighted bases, respectively. Over the 6- and 12-month periods ending June 2020, 44.78% of funds in this category underperformed the benchmark, though a much higher portion of funds failed to beat the benchmark over longer periods.
- **Fund Survivorship:** In spite of the COVID-19 pandemic, we did not see higher fund liquidation rates across all fund categories in the 12-month period ending June 2020, compared with previous scorecards. Of all Australian funds measured, 2.67% were merged or liquidated, with Australian Bond funds recording the highest liquidation rate of 4.35%. In contrast, only 1.49% of Australian Equity A-REIT funds failed to survive. Over longer horizons, only 78.85%, 63.09%, and 51.82% of funds across all categories survived the 5-, 10-, and 15-year periods, respectively.

A UNIQUE SCORECARD FOR THE ACTIVE VERSUS PASSIVE DEBATE

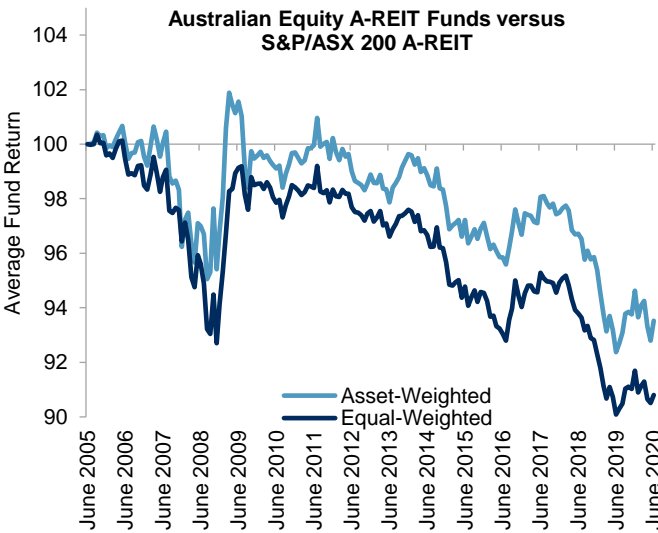
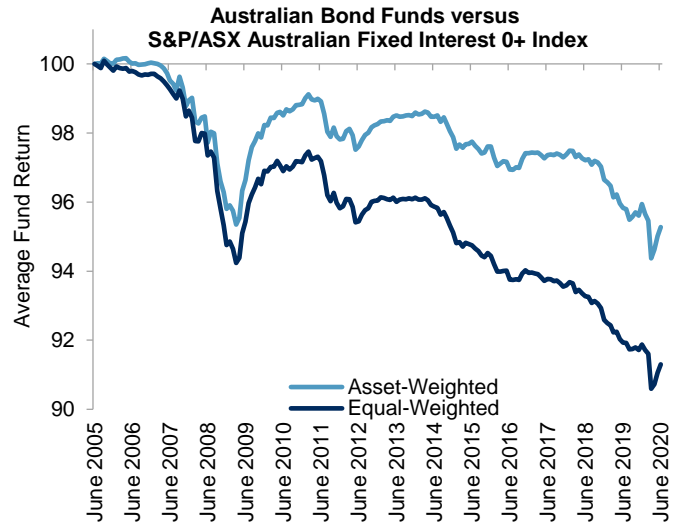
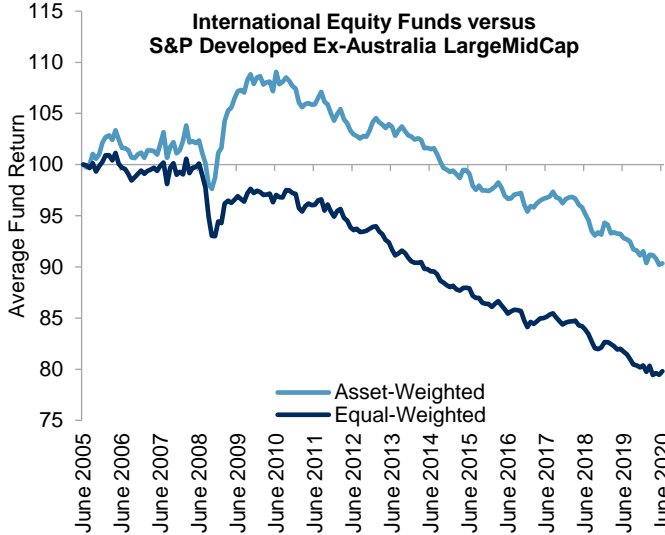
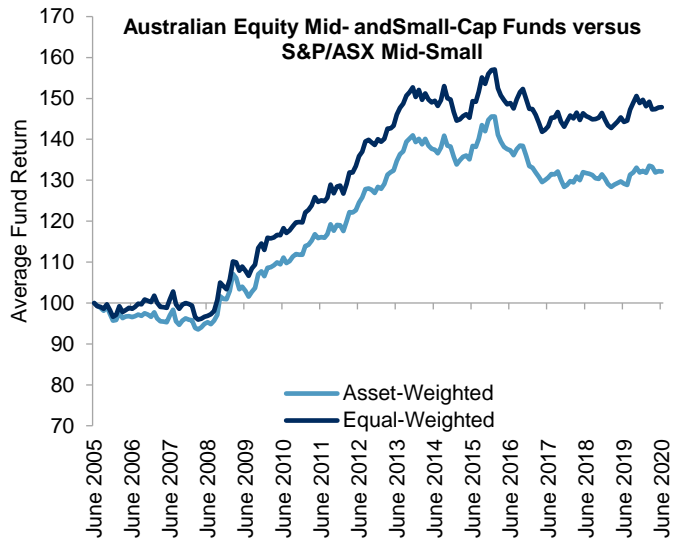
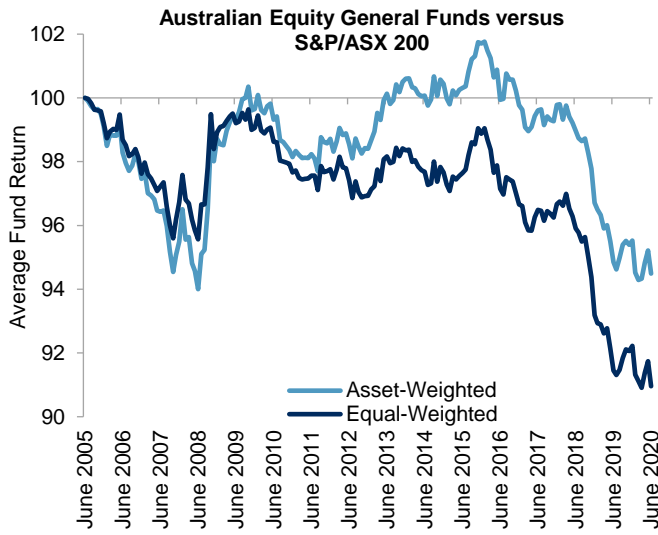
There is nothing novel about the index versus active debate. It has been a contentious subject for decades, and there are few strong believers on both sides, with the vast majority of market participants falling somewhere in between. Since its first publication 18 years ago, the SPIVA Scorecard has served as the de facto scorekeeper of the active versus passive debate. Over the years, we have heard passionate arguments from believers in both camps when headline numbers have deviated from their beliefs.

Beyond the SPIVA Scorecard's widely cited headline numbers is a rich data set that addresses issues related to measurement techniques, universe composition, and fund survivorship that are far less frequently discussed, but are often much more fascinating. These data sets are rooted in the following fundamental principles of the SPIVA Scorecard, with which regular readers will be familiar.

- **Survivorship Bias Correction:** Many funds might be liquidated or merged during a period of study. However, for someone making an investment decision at the beginning of the period, these funds are part of the opportunity set. Unlike other commonly available comparison reports, SPIVA Scorecards account for the entire opportunity set—not just the survivors—thereby eliminating survivorship bias.
- **Apples-to-Apples Comparison:** Fund returns are often compared with a popular benchmark regardless of their investment category. The SPIVA Australia Scorecard makes an appropriate comparison by measuring a fund's returns against the returns of a benchmark that reflects the fund's investment category.
- **Asset-Weighted Returns:** Average returns for a fund group are often calculated using only equal weighting, which results in the returns of an AUD 10 billion fund affecting the average in the same manner as the returns of an AUD 10 million fund. However, the SPIVA Australia Scorecard shows both equal- and asset-weighted averages. Equal-weighted returns are a measure of average fund performance, while asset-weighted returns are a measure of the performance of the average invested dollar.
- **Data Cleaning:** SPIVA Scorecards avoid double counting multiple share classes in all count-based calculations, using only the share class with longer history or greater assets. Since this is meant to be a scorecard for active managers, index funds, leveraged and inverse funds, and other index-linked products are excluded.

Please note that neither S&P Dow Jones Indices, nor any of its affiliates make any assurance or provide any investment recommendation on the appropriateness of investing in either index or active investing. S&P Dow Jones Indices does not sponsor, endorse, sell, or promote any investment fund or other investment vehicle that is offered by third parties and that seeks to provide an investment return based on the performance of any index. The SPIVA Australia Scorecard simply provides semiannual statistics according to the SPIVA methodology and a brief analysis of those statistics. Further, S&P Dow Jones Indices does advise that anyone reading this report also read the SPIVA methodology in the report in order to understand how the data was derived.

CUMULATIVE ASSET- AND EQUAL-WEIGHTED AVERAGE FUND RETURNS RELATIVE TO BENCHMARK INDICES



Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2020. All returns in AUD. Past performance is no guarantee of future results. Charts are provided for illustrative purposes and reflect hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

REPORTS

Report 1a: Percentage of Funds Outperformed by the Index (Based on Absolute Return)

FUND CATEGORY	COMPARISON INDEX	1-YEAR (%)	3-YEAR (%)	5-YEAR (%)	10-YEAR (%)	15-YEAR (%)
Australian Equity General	S&P/ASX 200	57.14	76.32	79.94	82.13	85.27
Australian Equity Mid- and Small-Cap	S&P/ASX Mid-Small	49.61	56.49	73.91	54.29	51.85
International Equity General	S&P Developed Ex-Australia LargeMidCap	71.05	77.22	83.20	92.02	92.71
Australian Bonds	S&P/ASX Australian Fixed Interest 0+ Index	68.12	77.97	77.19	79.25	82.35
Australian Equity A-REIT	S&P/ASX 200 A-REIT	44.78	58.21	57.53	73.08	77.78

Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2020. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

Report 1b: Percentage of Funds Outperformed by the Index (Based on Risk-Adjusted Return)

FUND CATEGORY	COMPARISON INDEX	1-YEAR (%)	3-YEAR (%)	5-YEAR (%)	10-YEAR (%)	15-YEAR (%)
Australian Equity General	S&P/ASX 200	56.23	75.70	81.46	81.27	84.25
Australian Equity Mid- and Small-Cap	S&P/ASX Mid-Small	42.64	57.25	74.78	55.24	51.85
International Equity General	S&P Developed Ex-Australia LargeMidCap	70.30	75.29	80.74	94.12	92.19
Australian Bonds	S&P/ASX Australian Fixed Interest 0+ Index	75.36	81.36	78.95	66.04	80.88
Australian Equity A-REIT	S&P/ASX 200 A-REIT	49.25	62.69	57.53	66.67	77.78

Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2020. Risk-adjusted return is computed as the annualized average monthly return divided by the annualized standard deviation of the monthly return for the measured periods. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

Report 2: Survivorship of Funds		
FUND CATEGORY	NO. OF FUNDS AT START	SURVIVORSHIP (%)
1-YEAR		
Australian Equity General	329	98.18
Australian Equity Mid- and Small-Cap	129	96.12
International Equity General	266	96.99
Australian Bonds	69	95.65
Australian Equity A-REIT	67	98.51
All Categories	860	97.33
3-YEAR		
Australian Equity General	321	88.47
Australian Equity Mid- and Small-Cap	131	83.97
International Equity General	259	87.26
Australian Bonds	59	93.22
Australian Equity A-REIT	67	95.52
All Categories	837	88.29
5-YEAR		
Australian Equity General	329	78.72
Australian Equity Mid- and Small-Cap	115	77.39
International Equity General	244	75.82
Australian Bonds	57	85.96
Australian Equity A-REIT	73	86.30
All Categories	818	78.85
10-YEAR		
Australian Equity General	347	63.11
Australian Equity Mid- and Small-Cap	105	63.81
International Equity General	238	58.40
Australian Bonds	53	69.81
Australian Equity A-REIT	78	71.79
All Categories	821	63.09
15-YEAR		
Australian Equity General	292	55.14
Australian Equity Mid- and Small-Cap	81	54.32
International Equity General	192	47.40
Australian Bonds	68	41.18
Australian Equity A-REIT	81	56.79
All Categories	714	51.82

Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2020. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 3: Average Fund Performance (Equal-Weighted)

INDEX/FUND CATEGORY	1-YEAR (%)	3-YEAR ANNUALIZED (%)	5-YEAR ANNUALIZED (%)	10-YEAR ANNUALIZED (%)	15-YEAR ANNUALIZED (%)
S&P/ASX 200	-7.68	5.19	5.95	7.80	6.70
Australian Equity General	-8.17	3.14	4.46	6.94	6.03
S&P/ASX Mid-Small	-2.34	6.07	9.43	7.42	5.77
Australian Equity Mid- and Small-Cap	0.07	7.21	9.20	9.84	8.55
S&P Developed Ex-Australia LargeMidCap	5.89	11.18	9.92	12.85	7.91
International Equity General	3.44	8.81	7.82	10.67	6.31
S&P/ASX Australian Fixed Interest 0+ Index	4.20	5.57	4.76	5.58	5.76
Australian Bonds	3.49	4.63	3.99	4.95	5.12
S&P/ASX 200 A-REIT	-21.33	2.00	4.38	9.22	3.13
Australian Equity A-REIT	-20.71	0.36	3.48	8.41	2.47

Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2020. All returns in AUD. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

Report 4: Average Fund Performance (Asset-Weighted)

INDEX/FUND CATEGORY	1-YEAR (%)	3-YEAR ANNUALIZED (%)	5-YEAR ANNUALIZED (%)	10-YEAR ANNUALIZED (%)	15-YEAR ANNUALIZED (%)
S&P/ASX 200	-7.68	5.19	5.95	7.80	6.70
Australian Equity General	-8.03	3.35	4.69	7.26	6.30
S&P/ASX Mid-Small	-2.34	6.07	9.43	7.42	5.77
Australian Equity Mid- and Small-Cap	-0.10	6.46	8.42	9.30	7.75
S&P Developed Ex-Australia LargeMidCap	5.89	11.18	9.92	12.85	7.91
International Equity General	3.07	8.66	7.90	10.75	7.19
S&P/ASX Australian Fixed Interest 0+ Index	4.20	5.57	4.76	5.58	5.76
Australian Bonds	3.60	4.80	4.22	5.22	5.41
S&P/ASX 200 A-REIT	-21.33	2.00	4.38	9.22	3.13
Australian Equity A-REIT	-20.36	0.38	3.57	8.59	2.67

Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2020. All returns in AUD. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

Report 5: Quartile Breakpoints of Fund Performance			
FUND CATEGORY	THIRD QUARTILE	SECOND QUARTILE	FIRST QUARTILE
1-YEAR			
Australian Equity General	-11.76	-8.02	-5.12
Australian Equity Mid- and Small-Cap	-5.97	-1.88	3.63
International Equity General	-2.64	2.99	6.76
Australian Bonds	2.95	3.75	4.34
Australian Equity A-REIT	-22.77	-19.74	-17.84
3-YEAR			
Australian Equity General	0.63	3.40	5.52
Australian Equity Mid- and Small-Cap	2.99	6.13	10.15
International Equity General	4.98	8.41	11.40
Australian Bonds	4.20	5.19	5.52
Australian Equity A-REIT	-2.50	1.68	3.30
5-YEAR			
Australian Equity General	2.59	4.61	6.05
Australian Equity Mid- and Small-Cap	6.35	8.20	10.91
International Equity General	5.63	7.62	9.36
Australian Bonds	3.48	4.34	4.79
Australian Equity A-REIT	1.95	4.18	5.41
10-YEAR			
Australian Equity General	6.00	6.95	7.94
Australian Equity Mid- and Small-Cap	7.26	9.18	10.59
International Equity General	9.11	10.56	12.13
Australian Bonds	4.50	5.32	5.60
Australian Equity A-REIT	7.63	8.66	9.64
15-YEAR			
Australian Equity General	5.19	5.88	6.85
Australian Equity Mid- and Small-Cap	6.86	8.06	8.78
International Equity General	5.44	6.22	7.26
Australian Bonds	5.10	5.70	5.92
Australian Equity A-REIT	1.72	2.45	3.50

Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2020. All returns in AUD. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

APPENDIX A

SPIVA Styles and Morningstar Fund Classifications

Data from Morningstar is obtained for all managed funds domiciled in Australia for which month-end data is available during the performance period. The data include the most comprehensive Australian fund data on active and finalized (merged or liquidated) funds over the chosen period. Funds are classified based on the Morningstar fund classification system, and the SPIVA Australia Scorecard covers the Australian Equity General (large-cap equity), Australian Equity Mid- and Small-Cap, International Equity General, Australian Bonds, and Australian Equity A-REIT categories.

The Morningstar classification system produces narrow, style-based classifications for Australian equity funds. S&P Dow Jones Indices has consolidated the style-based categories in order to generate a larger sample size and develop a broad-market comparison to market-based benchmarks. A narrow, style-based comparison would yield a limited sample size, given value and growth style segments are not consistently discernible over the past five years.

Morningstar categories have been mapped to SPIVA peer groups in the following manner.

Exhibit 2: Australian Equity Funds: SPIVA and Morningstar Categories	
SPIVA CATEGORY	MORNINGSTAR CATEGORY
Australian Equity General	Australia Fund Equity - Australia Large Blend
	Australia Fund Equity - Australia Large Growth
	Australia Fund Equity - Australia Large Value
Australian Equity Mid- and Small-Cap	Australia Fund Equity - Australia Mid/Small Blend
	Australia Fund Equity - Australia Mid/Small Growth
	Australia Fund Equity - Australia Mid/Small Value
International Equity General	Australia Fund Equity - World Large Blend
	Australia Fund Equity - World Large Growth
	Australia Fund Equity - World Large Value
Australian Bonds	Australia Fund Bonds - Australia
Australian Equity A-REIT	Australia Fund Equity - Australia Real Estate

Source: S&P Dow Jones LLC and Morningstar. Data as of June 30, 2020. Table is provided for illustrative purposes.

Benchmarks

The chosen benchmarks are shown in Exhibit 3. All index returns are total returns (i.e., include dividend reinvestment) in Australian dollars. There has been no deduction from index returns to account for fund investment expenses. It is important to note that active fund returns are after expenses, but they do not include loads and entry fees.

The benchmarks chosen are the most commonly adopted benchmarks for funds that fall into the respective fund peer groups. In some instances, a fund may not adopt the benchmarks stipulated. However, a vast majority do set their performance hurdle based on the assigned benchmarks in this report, ensuring that the study is robust and fair.

Exhibit 3: SPIVA Categories and Their Benchmarks	
SPIVA CATEGORY	BENCHMARK INDEX
Australian Equity General	S&P/ASX 200
Australian Equity Mid- and Small-Cap	S&P/ASX Mid-Small
International Equity General	S&P Developed Ex-Australia LargeMidCap
Australian Bonds	S&P/ASX Australian Fixed Interest 0+ Index
Australian Equity A-REIT	S&P/ASX 200 A-REIT

Source: S&P Dow Jones LLC and Morningstar. Table is provided for illustrative purposes.

APPENDIX B: GLOSSARY

Percentage of Funds Outperformed by the Index

To correct for survivorship bias, we use the opportunity set available at the beginning of the period as the denominator. We determine the count of funds that have survived and beat the index. We then report the index outperformance percentage.

Survivorship (%)

This measure represents the percentage of funds in existence at the beginning of the time period that is still active at the end of the time period.

Equal-Weighted Fund Performance

Equal-weighted returns for a particular style category are determined by calculating a simple average return of all active funds in that category in a particular month.

Asset-Weighted Fund Performance

Asset-weighted returns for a particular style category are determined by calculating a weighted average return of all funds in that category in a particular month, with each fund's return weighted by its total net assets. Asset-weighted returns are a better indicator of fund category performance because they more accurately reflect the returns of the total money invested in that particular style category.

Quartiles Breakpoints

The p^{th} percentile for a set of data is the value that is greater than or equal to $p\%$ of the data, but is less than or equal to $(100-p)\%$ of the data. In other words, it is a value that divides the data into two parts: the lower $p\%$ of the values and the upper $(100-p)\%$ of the values. The first quartile is the 75th percentile, the value separating the elements of a population into the lower 75% and the upper 25%. The second quartile is the 50th percentile and the third quartile is the 25th percentile. For fund category quartiles in a particular time horizon, the data used is the return of the largest share class of the fund net of fees, excluding loads.

Survivorship Bias

Many funds might liquidate or merge during a period of study. This usually occurs due to continued poor performance by the fund. Therefore, if index returns were compared to fund returns using only surviving funds, the comparison would be biased in favor of the fund category. These reports remove this bias by (a) using the entire investment opportunity set, made up of all funds in that particular category at the outset of the period, as the denominator for outperformance calculations, (b) explicitly showing the survivorship rate in each category, and (c) constructing peer average return series for each category based on all available funds at the outset of the period.

Fees

The fund returns used are net of fees, excluding loads.

Indices

A benchmark index provides an investment vehicle against which fund performance can be measured.

S&P/ASX 200

The S&P/ASX 200 is recognized as the institutional investable benchmark in Australia. The index covers approximately 80% of Australian equity market capitalization. Index constituents are drawn from eligible companies listed on the Australian Securities Exchange. The S&P/ASX 200 is a highly liquid and investable index that is designed to address investment managers' needs to benchmark against a portfolio characterized by sufficient size and liquidity.

S&P/ASX MID-SMALL

The S&P/ASX Mid-Small is designed to measure performance of companies included in the [S&P/ASX 300](#), but not in the [S&P/ASX 50](#). It is a combination of the [S&P/ASX MidCap 50](#) and the [S&P/ASX Small Ordinaries](#). The index covers approximately 18% of Australian equity market capitalization.

S&P DEVELOPED EX-AUSTRALIA LARGEMIDCAP

The S&P Developed Ex-Australia LargeMidCap is a float-adjusted, market-capitalization-weighted index comprising large- and mid-cap companies in developed markets, excluding Australia. It represents approximately 85% of each relevant market's total available capital. This index is part of the S&P Global BMI (Broad Market Index) Series.

S&P/ASX AUSTRALIAN FIXED INTEREST 0+ INDEX

The S&P/ASX Australian Fixed Interest 0+ Index is part of the S&P/ASX Australian Fixed Interest 0+ Index Series, a broad benchmark index series designed to measure the performance of Australian bonds meeting investability criteria.

S&P/ASX 200 A-REIT

The S&P/ASX 200 A-REIT is a sector subindex of the S&P/ASX 200. The index seeks to provide investors with exposure to Australian Real Estate Investment Trusts (A-REITs), which are captured under the Global Industry Classification Standard (GICS® Tier 2).

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PERFORMANCE DISCLOSURE

The S&P/ASX Australian Fixed Interest 0+ Index was launched September 5, 2014. The S&P/ASX Mid-Small was launched August 15, 2011. All information presented prior to an index's Launch Date is hypothetical (back-tested), not actual performance. The back-test calculations are based on the same methodology that was in effect on the index Launch Date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. Complete index methodology details are available at www.spdji.com. Past performance of the Index is not an indication of future results. Prospective application of the methodology used to construct the Index may not result in performance commensurate with the back-test returns shown.

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The back-test period does not necessarily correspond to the entire available history of the Index. Please refer to the methodology paper for the Index, available at www.spdji.com for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations.

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