### MGTS OEIC INVESTMENT PERFORMANCE TABLE to 31st May 2019

OEIC	Cumulative Performance				Discrete Annual Performance		Since Launch Ratios							
Outperformance	YTD	6 Months	1 Year	2 Year	<b>Since</b> <b>Launch</b> 22/02/2016	2017	2018	Alpha	Beta	Sharpe Ratio	Downside Risk	Volatility	Max Loss	Max DD
MGTS IBOSS 1 R Acc	4.34	2.84	0.57	2.25	11.39	4.52	-3.46	0.17	0.73	0.45	3.39	3.17	-2.31	-4.49
IA Benchmark	4.47	3.35	1.35	2.28	16.05	4.84	-3.35	0.00	1.00	0.73	3.35	3.34	-2.49	-3.85
MGTS IBOSS 2 R Acc	5.01	3.01	0.06	2.95	17.11	6.68	-4.34	0.26	0.79	0.68	4.79	4.35	-3.28	-6.01
IA Benchmark	5.85	3.22	0.58	2.69	21.85	7.16	-5.10	0.00	1.00	0.82	5.20	4.87	-3.61	-6.42
MGTS IBOSS 3 Blend	5.61	3.26	-0.24	3.18	20.38	8.62	-5.29	0.34	0.79	0.73	5.67	5.26	-3.97	-7.00
IA Benchmark Blend	6.83	3.41	0.54	3.73	26.05	8.56	-5.60	0.00	1.00	0.85	6.17	5.88	-4.33	-7.73
MGTS IBOSS 4 R Acc	6.17	3.49	-0.53	3.40	23.64	10.52	-6.18	0.50	0.77	0.76	6.58	6.14	-4.62	-7.93
IA Benchmark	7.81	3.59	0.48	4.77	30.36	9.98	-6.11	0.00	1.00	0.87	7.41	6.92	-5.05	-9.02
MGTS IBOSS 5 Blend	6.61	3.59	-0.58	3.71	24.40	11.06	-6.57	0.18	0.82	0.74	7.14	6.62	-4.99	-8.51
IA Benchmark Blend	7.58	3.24	0.03	4.58	31.40	10.59	-6.41	0.00	1.00	0.88	7.61	7.14	-5.05	-9.18
MGTS IBOSS 6 R Acc	7.05	3.69	-0.62	4.01	25.15	11.61	-6.95	-0.09	0.86	0.72	7.70	7.13	-5.36	-9.08
IA Benchmark	7.34	2.90	-0.42	4.38	32.44	11.21	-6.72	0.00	1.00	0.89	7.78	7.39	-5.06	-9.34

Fund	Benchmark
MGTS IBOSS 1	IA Mixed Investment 0%-35% Shares
MGTS IBOSS 2	IA Mixed Investment 20%-60% Shares
MGTS IBOSS 3 Blend	50% IA Mixed Investment 20%-60% Shares/50% IA Mixed Investment 40%-85% Shares
MGTS IBOSS 4	IA Mixed Investment 40%-85% Shares
MGTS IBOSS 5 Blend	50% IA Mixed Investment 40%-85% Shares/50% IA Flexible Investment
MGTS IBOSS 6	IA Flexible Investment

NB. MGTS IBOSS Figures are calculated on a Total Return basis - Total return shows the total return of the instrument



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### SUMMARY

Once again, all the OEIC funds (and hybrids) beat their respective benchmarks with the exception of OEIC 1. This is perhaps not surprising given our relative defensive stance over what was a negative month for all the multi asset sectors. The principle reason OEIC 1 underperformed was our underweight Gilt position. We have increased our Gilt holdings recently and have introduced an index-linked Gilt fund, but even with what is now a smaller underweight position, the magnitude of Gilt's appreciation in May was considerable. As an example, the 10 Year yield fell from 1.17% at the end of April to 0.88% at the end of May. The reason we remain cautious on Gilts is the political uncertainty surrounding UK politics, which has been brought into sharp focus by Brexit, the Tories hunt for a new leader and the widespread market fears of the implications of a Corbyn led government. That said for the time being at least, UK Gilts are attracting investment, as are much of the world's sovereign debt markets. The reasons are primarily because May brought a search for safety, as equity markets fell on Trump's escalating and 'whack-a-mole' approach to global trade wars. Towards the end of the month, uncertainty around the effectiveness of Chinese stimulus added to the fears of Trump's unique methods of negotiation, yielding unsatisfactory economic results. Against this very uncertain backdrop we have generally maintained our bond exposure, but we still have a heavier to bias to sovereign over corporate debt.

Gold once again performed well as equity markets stumbled, returning a positive 4.5% whilst the IA Global sector fell 2.4%, We recently increased our holding of physical gold via the iShares ETC to 4% across the range, which remains our maximum permitted holding in any one fund. Our performance has been relatively strong since the market correction, which started at the beginning of October last year (Fig2) and which we feel is the start of a new era of higher drawdowns and volatility. Although there was a strong equity market recovery in Q1, we still believe that global economic data will deteriorate faster than the consensus, nor do we believe Trump will achieve his goals via tariffs. Q4 was a glimpse of what the equity market could look like without the promise of enduring an ever-easier monetary policy and it wasn't pretty. So, in our opinion, as the law of diminishing returns makes central bank intervention increasingly impotent, the need for caution increases and that is the situation we find ourselves in. The funds which are currently dominating the best positions in the performance league tables, have been relatively overweight in the most expensive geographical sectors and stocks. Rather than hope we would be able to exit such positions at an optimum time, we prefer to underweight the most expensive areas of the investable universe.



# PERFORMANCE SCATTER PMS 4 & OEIC 4 Vs PEERS (Fig 1) 30/09/2018 – 31/05/2019



Key	Name	Performance	Annualised Volatility
А	Vanguard LifeStrategy 60%	1.11	8.82
В	Jupiter Merlin Balanced Portfolio	0.60	9.93
	OEIC 4	-0.23	8.69
	PMS 4	-0.40	8.87
	IA Mixed Investment 40-85% Shares	-0.72	10.43
G	Standard Life Myfolio Market IV	-1.17	11.65
С	Royal London Governed 4	-1.21	10.72
D	Janus henderson Multi-Managed A	-2.18	10.63
F	Standard Life Myfolio MM IV	-2.65	10.73
Н	Quilter Investors Cirilium Moderate Portfolio	-2.91	11.81
E	7IM Moderately Adventurous	-3.24	12.51

### Performance 30<sup>th</sup> September 2018 to 31<sup>st</sup> May 2019 (Fig2)

	Performance 30/09/2018 to 31/05/2019	%
MGTS IBOSS 1	0.61	75
MGTS IBOSS 2	0.16	43
MGTS IBOSS 4	-0.23	35
MGTS IBOSS 6	-0.40	27

Funds Ranked in Percentiles with IA multi-Asset Sectors Colours Reflect Quartiles; Blue 1<sup>st</sup> Quartile, Green 2<sup>nd</sup> Quartile, Yellow 3<sup>rd</sup> Quartile, Red 4<sup>th</sup> Quartile



#### **RATIO DEFINITIONS**

#### Alpha

Alpha is a measure of a fund's over- or under-performance by comparison to its benchmark. It represents the return of the fund when the benchmark is assumed to have a return of zero, and thus indicates the extra value that the manager's activities have contributed: if the Alpha is 5, the fund has outperformed its benchmark by 5% and the greater the Alpha, the greater the out performance.

A further aspect of Alpha emerges when it is taken in conjunction with Beta. Assuming that a strong R-Squared correlation exists, the Beta will show how volatile the fund is compared to its benchmark, and thus indicate how much extra risk the manager has taken on in order to get that high-Alpha performance. Negative Alpha in conjunction with 1+ Beta is an indication of poor performance: managers are subjecting funds to volatility that is higher than the benchmark, while achieving returns that are lower than the benchmark attained. So, if Alpha indicates better/worse performance compared with the index, Beta shows higher/lower risk.

#### Beta

Beta is a statistical estimate of a fund's volatility by comparison to that of its benchmark, i.e. how sensitive the fund is to movements in the section of the market that comprises the benchmark. A fund with a Beta close to 1 means that the fund will generally move in line with the benchmark. Higher than 1 and the fund is more volatile than the benchmark, so that with a Beta of 1.5, say, the fund will be expected to rise or fall 1.5 points for every 1 point of benchmark movement.

#### **Downside Risk**

Downside risk is a measurement which only considers negative returns. It is calculated as a downside deviation of returns below a specified Risk Free Rate. It represents an estimation of a security's potential to suffer a decline in price in negative market conditions. It could be considered as an estimate of the potential loss on any investment.

#### Maximum Drawdown

Represents the worst possible return over a period, e.g. buying at the maximum price over the period and selling at the worst.

#### **Maximum Loss**

Represents the worst running return over a period e.g. the longest running consecutive loss without making a gain

#### **R-Squared**

The R-Squared measure is an indication of how closely correlated a fund is to an index or a benchmark. It can be treated as a percentage, showing what proportion of a fund's movements can be attributed to those of the benchmark. Values for R-Squared range between 0 and 1, with 0 indicating no correlation at all, and 1, rarely, showing a perfect match. Values upwards of 0.7 suggest that the fund's behaviour is increasingly closely linked to its benchmark, whereas the relevance diminishes as R-Squared descends towards 0.5, and starts to disappear altogether below that.

R-Squared is a key ratio, in that other measures of a fund's performance - such as Alpha and Beta - will have been calculated by reference to its benchmark. The weaker the R-Squared correlation, the more unsuitable the benchmark is, and the more unreliable these measures will be in assessing the fund.



#### **Sharpe Ratio**

This is a commonly-used measure which calculates the level of a fund's return over and above the return of a notional risk-free investment, such as cash or Government bonds. The difference in returns is then divided by the fund's standard deviation - its volatility, or risk measurement. The resulting ratio is an indication of the amount of excess return generated per unit of risk.

Sharpe is useful, when comparing similar portfolios or instruments. There is no absolute definition of a "good" or "bad" Sharpe ratio, beyond the thought that a fund with a negative Sharpe would have been better off investing in risk-free government securities. But clearly the higher the Sharpe ratio the better: as the ratio increases, so does the risk-adjusted performance. In effect, when analysing similar investments, the one with the highest Sharpe has achieved more return while taking on no more risk than its fellows - or, conversely, has achieved a similar return with less risk.

#### **Treynor Ratio**

This is another risk-adjusted performance measure, similar in calculation and application to the Sharpe Ratio. The difference is that while Sharpe weighs a fund's returns against total risk (standard deviation, or volatility), Treynor looks at excess return for each unit of systemic risk (the volatility, inherent in the market that cannot be diversified). The Treynor calculation, then, takes the fund's excess return over a notional risk-free rate (what would be earned from, say, cash on deposit, or Government bonds), then divides it by the fund's Beta. A Treynor Ratio greater than 1 shows that the fund has produced more units of return than of risk. So, in basing on market risk alone, the ratio assumes that non-systemic risk is capable of being eliminated by diversification across a wide range of investments, and measures whether the systemic risk has been rewarded.

Also known as the Volatility to Reward ratio, Treynor is useful in comparing funds that invest in similar market sectors and achieve similar returns. Also, since it factors out the manager's ability from movements in the fund's sector. While not perfect, and not to be taken in isolation, the Treynor Ratio can be a pointer to the optimum risk- and sector-adjusted fund for a particular risk-aversion profile.

#### Volatility

Standard deviation is a statistical measurement which, when applied to an investment fund, expresses its volatility, or risk. It shows how widely a range of returns varied from the fund's average return over a particular period. Low volatility reduces the risk of buying into an investment in the upper range of its deviation cycle, then seeing its value head towards the lower extreme. For example, if a fund had an average return of 5%, and its volatility was 15, this would mean that the range of its returns over the period had swung between +20% and -10%. Another fund with the same average return and 5% volatility would return between 10% and nothing, but there would at least be no loss.

While volatility is specific to a fund's particular mix of investments, and comparison to other portfolios is difficult, clearly, for those that offer similar returns, the lower-volatility funds are preferable. There is no point in taking on higher risk than necessary in order to achieve the same reward.





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