Five years old and performing well – the Glacier AI Flexible Fund of Fund

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Artificial intelligence (AI) has had and will continue to have a profound impact on all facets of our society. The 21st century has been dubbed the digital era, or the fourth industrial revolution, and AI is the pinnacle of this time.

Al has made enormous strides

Recently, we've seen euphoria around a new type of AI technology called generative AI, whose purpose it is to generate new information from existing data, in a manner that has given people the ability to elevate output by combining human with machine with very little friction. Open AI ChatGPT is one example, having gained incredible popularity in a short space of time. It is the fastest adopted technology in history, hitting 100 million users in a just five days of its launch.

Al solves challenges in the investment industry

The asset management industry has historically been dealing with the following challenges:

- Human bias and emotions
- Huge volumes of existing data
- Rapid growth of new data and increased complexity
- Under-resourced teams
- Keyman risk
- Inconsistent application of the investment process
- High active fees
- Time lag between the investment idea and implementation

These challenges have had a profound impact on alpha generation. While modern investment theory is underpinned by an assumption that market participants are rational, there's evidence to prove the contrary. Even the most experienced portfolio manager can be given to biases and inclinations that may be value-destructive at times. The use of AI, therefore, seeks to solve this challenge by averting human bias and emotions that may be inconsistent with the application of the investment process.

<H2>Humans and machines

Conversations and debates about AI have often been polarising, resulting in a "human vs machine" tension which has led some to be sceptical of AI, based on the idea of that machines will take over humans. For us at Glacier, we hold a firm view that human and machine can combine to create better outcomes and efficiencies for society. Essentially, it's not "human vs machine" but rather "human and machine".

While the Glacier AI Fund of Funds resolves challenges encountered by humans, there is a role that humans play, without interfering with the running of the AI engine. The construction of investment mandates, asset allocation, and the choice of underlying instruments all involve the human touch, but without interfering or second-guessing the AI engine.

<H2>The Glacier AI Flexible Fund of Funds

The Glacier AI Flexible Fund of Funds recognises that financial markets are complex, noisy, non-linear and non-stationary environments replete with constant change and evolution. Therefore, it continuously applies an unbiased investment philosophy in a timely manner, by deploying an AI engine that is:

- 1. Self-learning it learns autonomously from data and is not pre-programmed.
- 2. Adaptive to new environments it modifies its settings as markets change and it has no static rules.

3. **Predictive** – it predicts asset price behaviour and capital loss risk and is not reactive.

<H2>The Fund has turned five

The Fund is the first of its kind in South Africa and is now the only fund that has fully adopted AI, being managed by an AI engine, without any human interference. It was five years ago, before AI was fashionable, that Glacier made the unpopular decision to launch the fully AI-run Glacier AI Fund of Funds. The Fund has brought novelty and uniqueness into the South African asset management industry and is the only fund that trades exchange-traded funds (ETFs) actively, using AI.

<H2>Portfolio construction benefits

The Fund continues to offer clients a differentiated investment strategy that is unique and complementary to traditional fund strategies. Here's what to know about the Fund:

- It's fully run by an AI engine.
- It trades weekly onshore and bi-weekly offshore.
- It has no human interference.
- It actively allocates between nine highly liquid ETFs (made up of local and offshore ETFs) and a money market fund, resulting in great diversification benefits.

Correlation Matrix								
Time	e Period: 04/09/2018 to 15/09/2023							
		1	2	3	4	5	6	7
1	Laurium Flexible Prescient B3	1.00						
2	Bateleur Flexible Prescient A1	0.79	1.00					
3	PSG Flexible A	0.83	0.72	1.00				
4	Truffle SCI Flexible A	0.73	0.65	0.67	1.00			
5	Glacier AI Flexible FoF B	0.58	0.54	0.51	0.45	1.00		
6	(ASISA) South African MA Flexible	0.93	0.84	0.87	0.74	0.64	1.00	
7	FTSE/JSE All Share TR ZAR	0.81	0.64	0.66	0.62	0.68	0.81	1.00
1.00 to 0.80 0.80 to 0.60 0.00 to -0.20 -0.20 to -0.40		0.60 to 0.40		0.40 to 0.20		0.20 to 0.00		

Source: Morningstar

Since inception, the Fund has shown the lowest correlation relative to the Multi-Asset Flexible category average, the JSE All Share Index and Glacier Shopping List funds in the Multi Asset Flexible category.

<H2>Performance

Performance								
Time Period: 04/09/2018 to 15/09/2023 Calculation Benchmark: FTSE/JSE All Share TR ZAR								
	Return	Std Dev	Sharpe Ratio	Max Drawdown	Calmar Ratio	Sortino Ratio		
Glacier AI Flexible FoF B	7.14	12.53	0.20	-19.10	0.37	0.23		
(ASISA) South African MA Flexible	6.99	10.68	0.19	-21.73	0.32	0.22		
FTSE/JSE All Share TR ZAR	8.87	24.04	0.29	-35.20	0.25	0.33		

Source: Morningstar

Since inception, the Fund has outperformed the Multi Asset Flexible category average, but at relatively higher volatility. However, this volatility has been well-compensated for as demonstrated by risk-adjusted return metrics (i.e., Sharpe and Sortino ratios) that are higher than the Multi Asset Flexible category. The Fund has delivered relatively lower drawdowns than the Multi Asset Flexible category average, accompanied by a higher Calmar ratio (which measures the return per unit of drawdown).

Performance

Time Period: 01/03/2022 to 31/08/2023 Calculation Benchmark: FTSE/JSE All Share TR ZAR

	Return	Std Dev	Sharpe Ratio	Max Drawdown	Calmar Ratio	Sortino Ratio
Glacier AI Flexible FoF B	11.23	10.37	0.67	-10.33	1.09	0.79
(ASISA) South African MA Flexible	5.69	10.09	-0.05	-7.16	0.79	-0.06
FTSE/JSE All Share TR ZAR	3.04	22.91	-0.09	-15.61	0.19	-0.11

Source: Morningstar

Recently, since early 2022, the Fund has been a stellar performer, significantly outperforming the Multi Asset Flexible category average and the JSE All Share, both a return and a risk-adjusted return basis.

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A fund of funds is a portfolio that invests in portfolios of collective investment schemes that levy their own charges, which could result in a higher fee structure for the fund of funds.

Collective investment schemes are generally medium- to long-term investments. Investments are subject to risks. The performance of the portfolio depends on the underlying assets and variable market factors. Investments can go down as well as up as a result of changes in the value of the investments. There is no assurance or guarantee of principal or performance and there is no guarantee that a portfolio will achieve its objective. Investors may lose money, including possible loss of principal. The fund may from time to time invest in foreign instruments which could be accompanied by additional risks. Collective investments are traded at ruling prices and can engage in borrowing and scrip lending. Collective investments are calculated on a net asset value basis, which is the total market value of all assets in the portfolio including any income accruals and less any deductible expenses such as audit fees, brokerage and service fees. A schedule of fees and charges and maximum commissions is available from the manager.