

Morgan Stanley Investment Funds

Global Bond Fund - A Shares

(Accumulation Share Class)



MORNINGSTAR OVERALL RATING*
EAA FUND GLOBAL BOND
CLASS A SHARES

Out of 857 Funds. Based on Risk Adjusted Return. Class A Shares: 3yr. rating 3 Stars; 5yr. rating 4 Stars; 10yr. rating 4 Stars.

Investment Objective

To generate income and the long term growth of your investment.

Investment Approach

Seeks to provide an attractive rate of return, measured in U.S. dollars, through market, instrument and currency selection. The Fund consists of domestic, international and euromarket fixed income securities of varying maturities denominated in U.S. dollars and other currencies, including emerging markets.

Investment Team

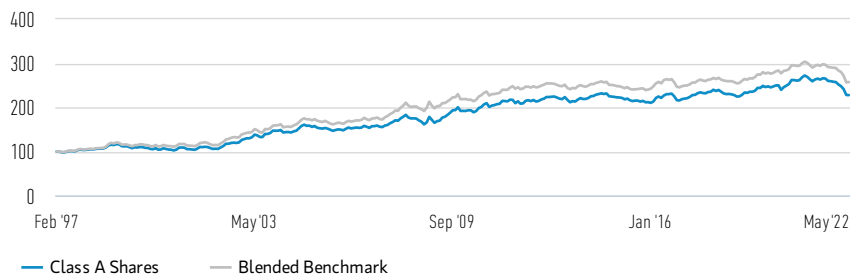
	JOINED FIRM	YEARS OF INVESTMENT EXPERIENCE
Christian G. Roth, Managing Director	1991	35
Jim Caron, Managing Director	2006	30
Michael B. Kushma, Chief Investment Officer of Global Fixed Income	1987	34
Richard Ford, Managing Director	1991	31
Utkarsh Sharma, Executive Director	2014	10

Team members may be subject to change at any time without notice.

Class A Shares (% net of fees) vs. Index in USD

Performance of 100 USD Invested Since Inception (Cash Value)

Past performance is not a reliable indicator of future results.



Investment Performance (% net of fees) in USD

	Cumulative (%)			Annualised (% p.a.)				
	1 M	3 M	YTD	1 YR	3 YR	5 YR	10 YR	INCEPTION
Class A Shares	-0.15	-8.12	-11.49	-14.10	-1.42	-0.01	0.67	3.30
Blended Benchmark	0.27	-8.11	-11.06	-13.21	-1.44	0.08	0.48	3.80

Calendar Year Returns (%)

	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Class A Shares	-5.48	10.05	8.33	-2.99	9.13	1.91	-4.93	1.62	-2.42	7.38
Blended Benchmark	-4.71	9.20	6.84	-1.20	7.39	2.09	-3.15	0.59	-2.60	4.32

All performance data is calculated NAV to NAV, net of fees, and does not take account of commissions and costs incurred on the issue and redemption of units. The sources for all performance and Index data is Morgan Stanley Investment Management.

The value of the investments and the income from them can go down as well as up and an investor may not get back the amount invested.

This fund received a compensation payment in connection with Prudential Equity Group's settlement with the U.S. SEC relating to market timing charges. Consequently, the net cash injection received in March 2010 and the related withholding tax, accrued in September 2010 and received in August 2011, have increased the fund's AUM by USD 1,517,320 and USD 650,280, respectively.

Share Class

	CLASS A
Currency	U.S. dollars
ISIN	LU0073230426
Bloomberg	MORGLBI LX
Inception date	01 February 1997
Net asset value	\$ 41.05

Fund Facts

Launch date	01 November 1989
Base currency	U.S. dollars
Primary benchmark	Bloomberg Global Aggregate Index
Custom benchmark	Blended Benchmark
Total net assets	\$ 1.1 billion
Structure	Luxembourg SICAV
SFDR Classification [†]	Article 8

Charges (%)

	CLASS A
Max Entry Charge	4.00
Ongoing Charges	1.04
Management Fee	0.80

Entry Charge is a maximum possible figure. In some cases you might pay less, you can find this out from your financial adviser. Ongoing Charges reflect the payments and expenses incurred during the fund's operation and are deducted from the assets of the fund over the period. It includes fees paid for investment management (Management Fee), trustee/custodian, and administration charges. For more information please see the Charges and Expenses section of the prospectus.

Subscriptions (USD)

	CLASS A
Minimum initial investment	0
Minimum subsequent investment	0

Statistics

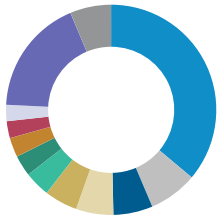
(3 Year Annualised)	CLASS A	INDEX
Excess Return (%)	0.02	--
Alpha (%)	0.23	--
Beta	1.10	1.00
Information ratio	0.01	--
R squared	0.95	1.00
Sharpe ratio	-0.31	-0.36
Tracking error (%)	1.64	--
Volatility (Standard deviation) (%)	6.61	5.84

Risk/Return statistics shown are calculated versus the Blended Benchmark when an Index is used in the calculation.

Characteristics

	FUND	INDEX
Duration (years)	6.74	7.10
Average yield to maturity (%)	3.60	2.59
Number of holdings	464	28,203

Top Countries (% of Total Net Assets)¹



	FUND
U.S.	36.14
United Kingdom	7.47
China	6.07
Japan	5.75
Italy	5.09
Australia	3.93
Spain	3.25
France	2.98
Canada	2.60
Germany	2.51
Other	17.90
Cash	6.33

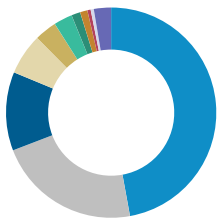
Top Holdings (% of Total Net Assets)

	FUND
Italy (Republic of), 0.650000%, 2027-10-28	3.27
United States Treasury, 2.750000%, 2047-08-15	2.56
Canadian Government Bond, 1.500000%, 2031-12-01	1.85
Japan (Government of), 1.700000%, 2033-06-20	1.64
Japan (Government of), 0.400000%, 2041-06-20	1.60
China (Peoples Republic of), 3.270000%, 2030-11-19	1.47
Umbs, 4.000000%, 2044-11-25	1.40
Umbs, 2.500000%, 2049-12-25	1.32
Australia Government, 1.250000%, 2032-05-21	1.21
Japan (Government of), 0.005000%, 2031-03-10	1.03
Total	17.35

Sector Allocation (% of Total Net Assets)^{1,2,3,4}

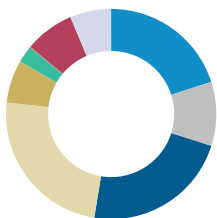
	PORTFOLIO
Credit	32.99
Investment Grade Corporates	23.86
High Yield Corporates	6.11
Convertibles	2.07
ETFs	0.90
Securitized	20.62
Agency RMBS	7.15
Non-Agency RMBS	5.96
ABS	2.68
CMBS	4.83
Government	39.68
Treasuries	28.63
Sovereign	2.78
Government Related	8.26
Mutual Funds	0.37
Cash & Equivalents	6.33

Currency Allocation (% of Total Net Assets)¹



	FUND
US Dollar	47.15
Euro	22.05
Japanese Yen	12.10
Chinese Yuan Renminbi	6.32
British Pound	3.41
Canadian Dollar	2.88
Australian Dollar	1.36
South Korean Won	1.14
Swiss Franc	0.50
Indonesian Rupiah	0.48
Other	2.65

Quality Distribution (% of Total Net Assets)^{1,5}



	FUND
AAA	20.06
AA	9.84
A	22.68
BBB	24.19
BB	6.59
B	2.49
CCC	0.14
CC	0.06
Not Rated	7.62
Cash	6.33

† This Fund is classified as an Article 8 product under the Sustainable Finance Disclosure Regulation. Article 8 products are those which promote environmental or social characteristics and which integrate sustainability into the investment process in a binding manner. Before making any decision to invest in the fund mentioned herein, please refer to all the characteristics and objectives of the Fund noted in the current Prospectus and KIID at morganstanleyinvestmentfunds.com.

¹ May not sum to 100% due to the exclusion of other assets and liabilities.

² 'Securitized' includes agency and non-agency RMBS and CMBS.

³ Credit Default Swap - In addition to the market values noted for Investment Grade Credit, High Yield Credit and CMBS, there may be additional notional long or short exposure to credit default swaps in these markets.

⁴ For additional information regarding sector classification/definitions please visit www.msci.com/gics and the glossary at www.morganstanley.com/im.

⁵ Quality distribution data for securities is sourced from Fitch, Moody's and S&P. Where the credit ratings for individual securities differ between the three ratings agencies, the 'highest' rating is applied. The rating of credit default swaps is based on the 'highest' rating of the underlying reference bond. 'Cash' includes investments in short term instruments, including investments in Morgan Stanley liquidity funds.

Please refer to the Prospectus for full risk disclosures, available at www.morganstanleyinvestmentfunds.com. All data as of 31.05.2022 and subject to change daily.

Share Class A Risk and Reward Profile



The risk and reward category shown is based on historic data.

- Historic figures are only a guide and may not be a reliable indicator of what may happen in the future.
- As such this category may change in the future.
- The higher the category, the greater the potential reward, but also the greater the risk of losing the investment. Category 1 does not indicate a risk free investment.
- The fund is in this category because it invests in fixed income securities and the fund's simulated and/or realised return has experienced medium rises and falls historically.
- The fund may be impacted by movements in the exchange rates between the fund's currency and the currencies of the fund's investments.

This rating does not take into account other risk factors which should be considered before investing, these include:

- The value of bonds are likely to decrease if interest rates rise and vice versa.
- The value of financial derivative instruments are highly sensitive and may result in losses in excess of the amount invested by the Sub-Fund.
- Issuers may not be able to repay their debts, if this happens the value of your investment will decrease. This risk is higher where the fund invests in a bond with a lower credit rating.
- The fund relies on other parties to fulfill certain services, investments or transactions. If these parties become insolvent, it may expose the fund to financial loss.
- Sustainability factors can pose risks to investments, for example: impact asset values, increased operational costs.
- There may be an insufficient number of buyers or sellers which may affect the fund's ability to buy or sell securities.
- Investment in Fixed Income Securities via the China Interbank Bond Market may also entail additional risks, such as counterparty and liquidity risk.
- There are increased risks of investing in emerging markets as political, legal and operational systems may be less developed than in developed markets.
- Past performance is not a reliable indicator of future results. Returns may increase or decrease as a result of currency fluctuations. The value of investments and the income from them can go down as well as up and investors may lose all or a substantial portion of his or her investment.
- The value of the investments and the income from them will vary and there can be no assurance that the Fund will achieve its investment objectives.
- Investments may be in a variety of currencies and therefore changes in rates of exchange between currencies may cause the value of investments to decrease or increase. Furthermore, the value of investments may be adversely affected by fluctuations in exchange rates between the investor's reference currency and the base currency of the investments.

Additional A Share Classes

	CURRENCY	LAUNCH	ISIN	BLOOMBERG
AH (EUR)	EUR	25.10.2010	LU0552899485	MSGBDAH LX
AHX (EUR)	EUR	03.11.2011	LU0691071418	MSGEAHX LX
AX	USD	01.06.2005	LU0218435716	MORIGAX LX

This is a marketing communication. Applications for shares in the Fund should not be made without first consulting the current Prospectus and the Key Investor Information Document ("KIID"), which are available in English and in the official language of your local jurisdiction at morganstanleyinvestmentfunds.com or free of charge from the Registered Office of Morgan Stanley Investment Funds, European Bank and Business Centre, 6B route de Trèves, L-2633 Senningerberg, R.C.S. Luxembourg B 29 192. A summary of investor rights is available in English at the same website. If the management company of the relevant Fund decides to terminate its arrangement for marketing that Fund in any EEA country where it is registered for sale, it will do so in accordance with the relevant UCITS rules.

DEFINITIONS

Alpha (Jensen's) is a risk-adjusted performance measure that represents the average return on a portfolio or investment above or below that predicted by the capital asset pricing model (CAPM) given the portfolio's or investment's beta and the average market return. Prior to 6/30/2018 Alpha was calculated as the excess return of the fund versus benchmark. **Average yield to maturity** measures the annual return on interest-bearing securities. In this it is assumed that they will be held to maturity. This metric includes both the coupon payments received during the term of the security and the repayment of the capital on maturity. **Beta** is a measure of the relative volatility of a fund to the market's upward or downward movements. A beta greater than 1.0 identifies an issue or fund that will move more than the market, while a beta less than 1.0 identifies an issue or fund that will move less than the market. The Beta of the Market is always equal to 1. **Bloomberg** stands for 'Bloomberg Global Identifier (BBGID)'. This is a unique 12 digit alphanumeric code designed to enable the identification of securities, such as the Morgan Stanley Investment Funds sub-funds at share class level, on a Bloomberg Terminal. The Bloomberg Terminal, a system provided by Bloomberg L.P., enables analysts to access and analyse real-time financial market data. Each Bloomberg code starts with the same BBG prefix, followed by nine further characters that we list

here in this guide for each share class of each fund. **Cash & Equivalents** are defined as the value of assets that can be converted into cash immediately. These include commercial paper, open FX transactions, Treasury bills and other short-term instruments. Such instruments are considered cash equivalents because they are deemed liquid and not subject to significant risk of changes in values. **Duration** is a measure of the sensitivity of the price (the value of principal) of a fixed-income investment to a change in interest rates. Duration is expressed as a number of years. Rising interest rates mean falling bond prices, while declining interest rates mean rising bond prices. **Excess Return** or value added (positive or negative) is the portfolio's return relative to the return of the benchmark. **Information ratio** is the portfolio's alpha or excess return per unit of risk, as measured by tracking error, versus the portfolio's benchmark. **ISIN** is the international securities identification number (ISIN), a 12 digit code consisting of numbers and letters that distinctly identifies securities. **NAV** is the Net Asset Value per share of the Fund (NAV), which represents the value of the assets of a fund less its liabilities. **Number of holdings** provided are a typical range, not a maximum number. The portfolio may exceed this from time to time due to market conditions and outstanding trades. **R squared** measures how well an investment's returns correlate to an index. An R squared of 1.00 means the portfolio performance is 100% correlated to the index's, whereas a low r-squared means that the portfolio performance is less correlated to the index's. **Sharpe ratio** is a risk-adjusted measure calculated as the ratio of excess return to standard deviation. The Sharpe ratio determines reward per unit of risk. The higher the Sharpe ratio, the better the historical risk-adjusted performance. **Tracking error** is the standard deviation of the difference between the returns of an investment and its benchmark. **Volatility (Standard deviation)** measures how widely individual performance returns, within a performance series, are dispersed from the average or mean value.

INDEX INFORMATION

The **Blended Index** performance shown is calculated using the **JPM Global Traded Unhedged Index** from inception through 31 March 2004, the **FTSE WGBI Index** to 31 January 2010 and the **Bloomberg Global Aggregate**

Bond Index thereafter.

The **Bloomberg Global Aggregate Index**: provides a broad-based measure of the global investment grade fixed-rate debt markets. Total Returns shown is unhedged USD. The index is unmanaged and does not include any expenses, fees or sales charges. It is not possible to invest directly in an index.

The **JPM Global Traded Unhedged Index**: provides a broad-based measure of the global investment grade fixed-rate debt markets. Total Returns shown is unhedged USD. The index is unmanaged and does not include any expenses, fees or sales charges. It is not possible to invest directly in an index.

The **FTSE WGBI Index**: measures the performance of fixed-rate, local currency, and investment grade sovereign bonds. The WGBI provides a broad benchmark for the global sovereign fixed income market.

"Bloomberg" and the Bloomberg Index/Indices used are service marks of Bloomberg Finance L.P. and its affiliates, and have been licensed for use for certain purposes by Morgan Stanley Investment Management (MSIM). Bloomberg is not affiliated with MSIM, does not approve, endorse, review, or recommend any product, and does not guarantee the timeliness, accurateness, or completeness of any data or information relating to any product.

DISTRIBUTION

This communication is only intended for and will only be distributed to persons resident in jurisdictions where such distribution or availability would not be contrary to local laws or regulations. In particular, the Shares are not for distribution to US persons.

Ireland: MSIM Fund Management (Ireland) Limited. Registered Office: The Observatory, 7-11 Sir John Rogerson's Quay, Dublin 2, D02 VC42, Ireland. Registered in Ireland as a private company limited by shares under company number 616661. MSIM Fund Management (Ireland) Limited is regulated by the Central Bank of Ireland. **United Kingdom:** Morgan Stanley Investment Management Limited is authorised and regulated by the Financial Conduct Authority. Registered in England. Registered No. 1981121. Registered Office: 25 Cabot Square, Canary Wharf, London E14 4QA, authorised and regulated by the Financial Conduct Authority. **Dubai:** Morgan Stanley Investment Management Limited (Representative Office, Unit Precinct 3-7th Floor-Unit 701 and 702, Level 7, Gate Precinct Building 3, Dubai International Financial Centre, Dubai, 506501, United Arab Emirates. Telephone: +97 (0)14 709 7158). **Italy:** MSIM Fund Management (Ireland) Limited, Milan Branch (Sede Secondaria di Milano) is a branch of MSIM Fund Management (Ireland) Limited, a company registered in Ireland, regulated by the Central Bank of Ireland and whose registered office is at The Observatory, 7-11 Sir John Rogerson's Quay, Dublin 2, D02 VC42, Ireland. MSIM Fund Management (Ireland) Limited Milan Branch (Sede Secondaria di Milano) with seat in Palazzo Serbelloni Corso Venezia, 16 20121 Milano, Italy, is registered in Italy with company number and VAT number 11488280964. **The Netherlands:** MSIM Fund Management (Ireland) Limited, Rembrandt Tower, 11th Floor Amstelplein 1 1096HA, Netherlands. Telephone: 31 2-0462-1300. Morgan Stanley Investment Management is a branch office of MSIM Fund Management (Ireland) Limited. MSIM Fund Management (Ireland) Limited is regulated by the Central Bank of Ireland. **France:** MSIM Fund Management (Ireland) Limited, Paris Branch is a branch of MSIM Fund Management (Ireland) Limited, a company registered in Ireland, regulated by the Central Bank of Ireland and whose registered office is at The Observatory, 7-11 Sir John Rogerson's Quay, Dublin 2, D02 VC42, Ireland. MSIM Fund Management (Ireland) Limited Paris Branch with seat at 61 rue de Monceau 75008 Paris, France, is registered in France with company number 890 071 863 RCS. **Spain:** MSIM Fund Management (Ireland) Limited, Sucursal en España is a branch of MSIM Fund Management (Ireland) Limited, a company registered in Ireland, regulated by the Central Bank of Ireland and whose registered office is at The Observatory, 7-11 Sir John Rogerson's Quay, Dublin 2, D02 VC42, Ireland. MSIM Fund Management (Ireland) Limited, Sucursal en España with seat in Calle Serrano 55, 28006, Madrid, Spain, is registered in Spain with tax identification number W0058820B. **Switzerland:** Morgan Stanley & Co. International plc, London, Zurich Branch Authorised and regulated by the Eidgenössische Finanzmarktaufsicht ("FINMA"). Registered with the Register of Commerce Zurich CHE-115.415.770. Registered Office: Beethovenstrasse 33, 8002 Zurich, Switzerland, Telephone +41 (0) 44 588 1000. Facsimile Fax: +41(0) 44 588 1074.

Australia: This publication is disseminated in Australia by Morgan Stanley Investment Management (Australia) Pty Limited ACN: 122040037, AFSL No. 314182, which accepts responsibility for its contents. This publication, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act. **Hong Kong:** This document has been issued by Morgan Stanley Asia Limited for use in Hong Kong and shall only be made available to "professional investors" as defined under the Securities and Futures Ordinance of Hong Kong (Cap 571). The contents of this document have not been reviewed nor approved by any regulatory authority including the Securities and Futures Commission in Hong Kong.

Accordingly, save where an exemption is available under the relevant law, this document shall not be issued, circulated, distributed, directed at, or made available to, the public in Hong Kong. **Singapore:** This publication should not be considered to be the subject of an invitation for subscription or purchase, whether directly or indirectly, to the public or any member of the public in Singapore other than (i) to an institutional investor under section 304 of the Securities and Futures Act, Chapter 289 of Singapore ("SFA"), (ii) to a "relevant person" (which includes an accredited investor) pursuant to section 305 of the SFA, and such distribution is in accordance with the conditions specified in section 305 of the SFA; or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA. In particular, for investment funds that are not authorized or recognized by the MAS, units in such funds are not allowed to be offered to the retail public; any written material issued to persons as aforementioned in connection with an offer is not a prospectus as defined in the SFA and, accordingly, statutory liability under the SFA in relation to the content of prospectuses does not apply, and investors should consider carefully whether the investment is suitable for them. This publication has not been reviewed by the Monetary Authority of Singapore.

Chile: Neither the Fund nor the interests in the Fund are registered in the Registry of Offshore Securities (el Registro de Valores Extranjeros) or subject to the supervision of the Commission for the Financial Market (la Comisión para el Mercado Financiero). This document and other offering materials relating to the offer of the interests in the Fund do not constitute a public offer of, or an invitation to subscribe for or purchase, the Fund interests in the Republic of Chile, other than to individually identified purchasers pursuant to a private offering within the meaning of Article 4 of the Chilean Securities Act (la Ley del Mercado de Valores) (an offer that is not "addressed to the public at large or to a certain sector or specific group of the public").

Peru: The interests in the Fund have not been and will not be registered in Peru under Decreto Legislativo 862: Ley de Fondos de Inversión y sus Sociedades Administradoras or under Decreto Legislativo 861: Ley del Mercado de Valores (the "Securities Market Law"), and are being offered to institutional investors only (as defined in article 8 of the Securities Market Law) pursuant to a private placement, according to article 5 of the Securities Market Law. The interests in the Fund have not been registered in the securities market public registry (Registro Público del Mercado de Valores) maintained by, and the offering of the Fund interests in Peru is not subject to the supervision of, the Superintendencia del Mercado de Valores. Any transfers of the Fund interests shall be subject to the limitations contained in the Securities Market Law and the regulations issued thereunder.

IMPORTANT INFORMATION

EMEA: This marketing communication has been issued by MSIM Fund Management (Ireland) Limited. MSIM Fund Management (Ireland) Limited is regulated by the Central Bank of Ireland. MSIM Fund Management (Ireland) Limited is incorporated in Ireland as a private company limited by shares with company registration number 616661 and has its registered address at The Observatory, 7-11 Sir John Rogerson's Quay, Dublin 2, D02 VC42, Ireland.

This document contains information relating to the sub-fund ("Fund") of Morgan Stanley Investment Funds, a Luxembourg domiciled Société d'Investissement à Capital Variable. Morgan Stanley Investment Funds (the "Company") is registered in the Grand Duchy of Luxembourg as an undertaking for collective investment pursuant to Part 1 of the Law of 17th December 2010, as amended. The Company is an Undertaking for Collective Investment in Transferable Securities ("UCITS").

Applications for shares in the Fund should not be made without first consulting the current Prospectus, Key Investor Information Document ("KIID"), Annual Report and Semi-Annual Report ("Offering Documents"), or other documents available in your local jurisdiction which is available free of charge from the Registered Office: European Bank and Business Centre, 6B route de Trèves, L-2633 Senningerberg, R.C.S. Luxembourg B 29 192. In addition, all Italian investors should refer to the 'Extended Application Form', and all Hong Kong investors should refer to the 'Additional Information for Hong Kong Investors' section, outlined within the Prospectus. Copies of the Prospectus, KIID, the Articles of Incorporation and the annual and semi-annual reports, in German, and further information can be obtained free of charge from the representative in Switzerland. The representative in Switzerland is Carnegie Fund Services S.A., 11, rue du Général-Dufour, 1204 Geneva. The paying agent in Switzerland is Banque Cantonale de Genève, 17, quai de l'Île, 1204 Geneva. The document has been prepared solely for informational purposes and does not constitute an offer or a recommendation to buy or sell any particular security or to adopt any specific investment strategy.

Any index referred to herein is the intellectual property (including registered trademarks) of the applicable licensor. Any product based on an index is in no way sponsored, endorsed, sold or promoted by the applicable licensor and it shall not have any liability with respect thereto. The Fund is

actively managed, and the management of the fund is not constrained by or compared to the composition of the Benchmark.

All investments involve risks, including the possible loss of principal. The material contained herein has not been based on a consideration of any individual client circumstances and is not investment advice, nor should it be construed in any way as tax, accounting, legal or regulatory advice. To that end, investors should seek independent legal and financial advice, including advice as to tax consequences, before making any investment decision.

The use of leverage increases risks, such that a relatively small movement in the value of an investment may result in a disproportionately large movement, unfavourable as well as favourable, in the value of that investment and, in turn, the value of the Fund.

Investment in the Fund concerns the acquisition of units or shares in a fund, and not in a given underlying asset such as building or shares of a company, as these are only the underlying assets owned.

The information contained in this communication is not a research recommendation or 'investment research' and is classified as a 'Marketing Communication' in accordance with the applicable European or Swiss regulation. This means that this marketing communication (a) has not been prepared in accordance with legal requirements designed to promote the independence of investment research (b) is not subject to any prohibition on dealing ahead of the dissemination of investment research.

MSIM has not authorised financial intermediaries to use and to distribute this document, unless such use and distribution is made in accordance with applicable law and regulation. MSIM shall not be liable for, and accepts no liability for, the use or misuse of this document by any such financial intermediary. If you are a distributor of the Morgan Stanley Investment Funds, some or all of the funds or shares in individual funds may be available for distribution. Please refer to your sub-distribution agreement for these details before forwarding fund information to your clients.

The whole or any part of this work may not be reproduced, copied or transmitted or any of its contents disclosed to third parties without MSIM's express written consent.

All information contained herein is proprietary and is protected under copyright law.

This document may be translated into other languages. Where such a translation is made this English version remains definitive. If there are any discrepancies between the English version and any version of this document in another language, the English version shall prevail.

***MORNINGSTAR**

Ratings as of 31.05.2022. The Morningstar Rating™ for funds, or "star rating", is calculated for managed products (including mutual funds, variable annuity and variable life subaccounts, exchange-traded funds, closed-end funds, and separate accounts) with at least a three-year history. Exchange-traded funds and open-ended mutual funds are considered a single population for comparative purposes. It is calculated based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a managed product's monthly excess performance, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of products in each product category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars, and the bottom 10% receive 1 star. The Overall Morningstar Rating for a managed product is derived from a weighted average of the performance figures associated with its three-, five-, and 10-year (if applicable) Morningstar Rating metrics. The weights are: 100% three-year rating for 36-59 months of total returns, 60% five-year rating/40% three-year rating for 60-119 months of total returns, and 50% 10-year rating/30% five-year rating/20% three-year rating for 120 or more months of total returns. While the 10-year overall star rating formula seems to give the most weight to the 10-year period, the most recent three-year period actually has the greatest impact because it is included in all three rating periods. Ratings do not take into account sales loads.

The **Europe/Asia and South Africa category (EAA)** includes funds domiciled in European markets, major cross-border Asian markets where material numbers of European UCITS funds are available (principally Hong Kong, Singapore and Taiwan), South Africa, and selected other Asian and African markets where Morningstar believes it is of benefit to investors for the funds to be included in the EAA classification system.

© 2022 Morningstar. All Rights Reserved. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied or distributed; and (3) is not warranted to be accurate, complete or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information. **Past performance is no guarantee of future results.**