

## BlackRock (Model Portfolio Provider)

55 East 52ND Street  
New York, New York 10055

Style: Global Multi Asset  
Sub-Style: Global Multi Asset Income  
Firm AUM: \$6.29 trillion  
Firm Strategy AUM: \$0.2 million

Year Founded: 1988  
GIMA Status: Approved  
Firm Ownership: Limited Liability Company  
Professional-Staff: 13096

## PRODUCT OVERVIEW

Morgan Stanley Smith Barney LLC ("Morgan Stanley") is the Manager of this strategy. The BlackRock Multi Asset Income: Growth (MAPS) is a Separately Managed Account ("SMA") investment product where (a) BlackRock (the "Model Portfolio Provider") delivers a model portfolio (the "Third Party Model Portfolio") to Morgan Stanley; (b) Morgan Stanley, as investment adviser to the client, serves as portfolio manager for the SMA investment product; and (c) the SMA investment product is inspired by the Third Party Model Portfolio. These SMA investment products are referred to as "MAPS Third Party Strategies". As portfolio manager of the MAPS Third Party Strategies, Morgan Stanley may deviate from the Third Party Model Portfolios. However, Morgan Stanley generally intends to follow the Third Party Model Portfolios. The Third Party Model Portfolios will include mutual funds and ETFs that are affiliated with the Model Portfolio Provider and which pay fees and other compensation to the Third Party Model Provider and its affiliates. The Model Portfolio Providers for the MAPS Third Party Strategies are not acting as a "fiduciary" to the client as defined in Section 3(21)(A) of ERISA, with respect to the assets in a MAPS Third Party Strategy.

Multi-Asset Income MF/ETF - Growth is an outcome-oriented, global multi-asset strategy that strives to generate an attractive and relatively consistent income stream for clients with a focus on current income and long-term capital appreciation. Over the long-term, the strategy generally is expected to have a level of risk similar to or lower than that of a blended benchmark of 70% MSCI World Index and 30% Bloomberg Barclays US Aggregate Bond Index. It invests in a diversified portfolio of mutual funds and exchange traded funds. The strategy is part of the broader BlackRock Multi-Asset Income suite of managed models and sits on the more aggressive end of the risk spectrum. The Team will seek to dynamically allocate to asset classes around the world that are deemed to offer attractive levels of income relative to the level of expected risk. The asset allocation process seeks to blend quantitative macroeconomic indicators with qualitative research to develop investment views.

## MANAGER'S INVESTMENT STRATEGY

- Top-down / portfolio structures based on economic trends
- Bottom-up / portfolio structure based on individual securities

## TARGET PORTFOLIO CHARACTERISTICS

Number of stock holdings: —  
Average dividend yield: —  
P/E ratio: —  
Cash level over market cycle: 2 to 20%  
Risk (standard deviation): Below the S&P 500  
Average turnover rate: 4 to 8%  
Number of bond holdings: 0  
Average maturity: 6.7 to 7.3 years  
Average credit quality: BB  
Use ADRs: —  
Capitalization: —

## PORTFOLIO'S EQUITY SECTOR WEIGHTINGS \*

Sector	BlackRock	Index***	BlackRock
Energy	20.00	0.00	21.00
Materials	4.00	0.00	4.00
Industrials	8.00	0.00	7.00
Consumer Discretionary	8.00	0.00	8.00
Consumer Staples	12.00	0.00	11.00
Health Care	10.00	0.00	8.00
Financials	11.00	0.00	13.00
Information Technology	8.00	0.00	9.00
Telecomm Services	7.00	0.00	7.00
Utilities	5.00	0.00	5.00
REIT'S	8.00	0.00	7.00

## PORTFOLIO STATISTICS

	03/18	09/17	
	BlackRock	Index***	BlackRock
Number of stock holdings	—	—	—
Wtd avg dividend yield	4.8%	—	—
SEC Yield	—	—	—
Wtd avg P/E ratio <sup>1</sup>	—	—	—
Wtd avg portfolio beta	0.41	—	—
Mega capitalization <sup>+</sup>	33.0%	0.0%	0.0%
Large capitalization <sup>+</sup>	44.0%	0.0%	0.0%
Medium capitalization <sup>+</sup>	18.0%	0.0%	0.0%
Small capitalization <sup>+</sup>	4.0%	0.0%	0.0%
Micro capitalization <sup>+</sup>	1.0%	0.0%	0.0%
Number of bond holdings	—	—	—
Avg maturity	6.96 yrs.	—	—
Avg credit quality	BB	—	—

## PORTFOLIO'S TOP FIVE EQUITY HOLDINGS

—	—	—	—	—
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## % PROCESS BASED ON

- 0 Asset allocation
- 0 Industry or sector weighting
- 0 Stock Selection
- 0 Duration Management
- 0 Yield Curve Management
- 0 Sector Selection
- 0 Bond Selection

<sup>1</sup>High Grade Corporates

\*\*\*Index : 30% BC Agg/70% MSCI World Net

<sup>2</sup>The P/E used here is calculated by the harmonic mean.

<sup>3</sup>Total may not equal 100% due to rounding.

## MANAGER'S INVESTMENT PROCESS

- Investment views and portfolio exposures are driven by our proprietary fundamental and quantitative research processes which seek to analyze and understand the factors driving the broad direction of the macro-economy and asset classes. We employ both thematic, discussion-based forums and scientific, model-based techniques to develop our understanding of market fundamentals.
- The portfolio construction process is a combination of top-down investment decisions with bottom-up expertise, implemented through BlackRock mutual funds as well as proprietary and third-party ETFs. The top-down tactical asset allocation decisions are made by the Strategy's portfolio managers, who are supported by a group of dedicated research analysts within MAS.
- The portfolio managers also leverage dedicated asset class teams across BlackRock that are responsible for the bottom-up research and security selection decisions inside the mutual fund strategies. More formal levels of engagement include regular meetings with equity and fixed income teams as well as informal meetings with key analysts and portfolio managers across a wide variety of asset classes. This is an essential part of the research process and thus, every researcher's objective is to incorporate the best insights from around the firm.
- From a risk management perspective, each strategy is managed relative to a risk benchmark. In evaluating risk, the team principally utilizes three proprietary models (short horizon, mid horizon and long horizon) to evaluate the aggregate level of risk as well as to decompose the risk into component parts. The three risk models utilize varying half-lives to incorporate different volatility and correlations assumptions. The team also uses scenario analyses extensively (both historical examples as well as forward looking hypothetical scenarios) to assess performance in different market environments.

## RISK CONSIDERATIONS

Investing in securities entails risks, including: Equity portfolios are subject to the basic stock market risk that a particular security, or securities in general, may decrease in value. Fixed Income securities may be sensitive to changes in prevailing interest rates. When rates rise the value generally declines. There is no assurance that the private guarantors or insurers will meet their obligations. International investing should be considered one component of a complete and diversified investment program. Investing in foreign markets entails greater risks than those normally associated with domestic markets such as foreign political, currency, economic and market risks. Equity securities' prices may fluctuate in response to specific situations for each company, industry, market conditions and general economic environment. Companies paying dividends can reduce or cut payouts at any time. Growth investing does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations. Value investing does not guarantee a profit or eliminate risk. Not all companies whose stocks are considered to be value stocks are able to turn their business around or successfully employ corrective strategies which would result in stock prices that do not rise as initially expected.

## PORTFOLIO'S ALLOCATION HISTORY (%) \*

	03/18	12/17	09/17	06/17
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## FIXED INCOME SECTOR DISTRIBUTION (%) \*

	03/18	12/17	09/17	06/17
Other	50.00	54.00	55.00	65.00
Financials	14.00	14.00	15.00	15.00
Emerging Debt	8.00	8.00	8.00	8.00
High Yield Corporates	24.00	16.00	16.00	8.00
Cash/Cash Equivalents	4.00	8.00	6.00	4.00

<sup>1</sup>High Grade Corporates

<sup>2</sup>The P/E used here is calculated by the harmonic mean.

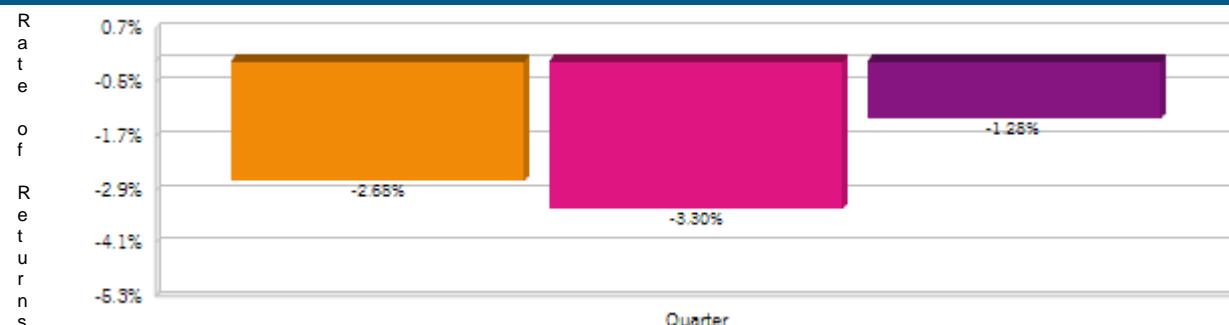
<sup>3</sup>Total may not equal 100% due to rounding.

\*\*\*Index : 30% BC Agg/70% MSCI World Net

## RISK/RETURN ANALYSIS - 3 YEARS ENDING 03/31/18

Unable to produce graph. Insufficient track record

## AVERAGE ANNUAL TOTAL RETURN (%) - PERIODS ENDING 03/31/18



STD ROR

## INVESTMENT RESULTS

### Annual Rates of Return (%)

### 0 Year - Ending 03/31/18

2017\* Annual Std. Dev.

- BlackRock (Gross)
- BlackRock (Net)
- 30% BC Agg/70% MSCI World Net Index
- 90-Day T-Bills

BlackRock (Gross)

3.91 0.00 0.00

BlackRock (Net)

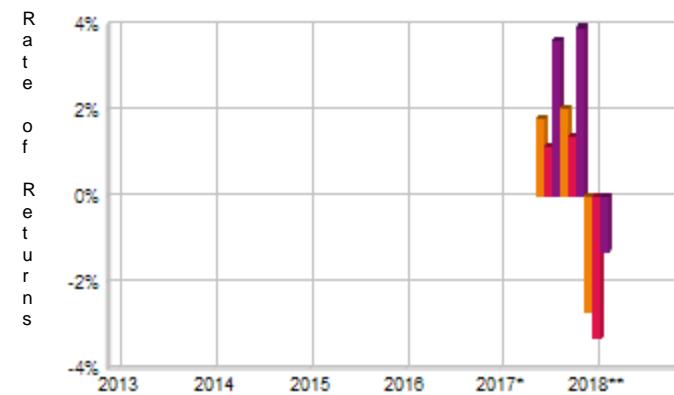
2.58 0.00 0.00

30% BC Agg/70% MSCI World Net Index

7.74 0.00 0.00

\*06/01/2017-12/31/2017

## RISK VOLATILITY (%)



\*06/01/2017-12/31/2017 \*\*01/01/18-03/31/18

## PORTFOLIO'S QUARTERLY RETURNS (%)

	Quarter1		Quarter2		Quarter3		Quarter4	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
2017					1.81	1.16	2.06	1.41
2018	-2.68	-3.30						

Related

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## PORTFOLIO'S RISK STATISTICS - PERIODS ENDING 03/31/18<sup>1,2</sup>

3 Year 5 Year

Standard Deviation	N/A	N/A
Standard Deviation of Primary Benchmark	N/A	N/A
Sharpe Ratio	N/A	N/A
Sharpe Ratio of Primary Benchmark	N/A	N/A
Alpha	N/A	N/A
Beta	N/A	N/A
Downside Risk	N/A	N/A
R-Squared	N/A	N/A
Tracking Error	N/A	N/A
Information Ratio	N/A	N/A

1. Statistics are calculated using gross of fee performance only.

2. 30% BC Agg/70% MSCI World Net Index was used as the primary benchmark and the 90-Day T-Bills Index as the risk-free benchmark.

## PORTFOLIO DIVERSIFICATION - R<sup>2</sup>(INCEPTION THROUGH 12/14)+

BlackRock vs. 30% BC Agg/70% MSCI World Net Index R<sup>2</sup>  
N/A

+Statistics are calculated using gross of fee performance only.

See important notes and disclosures pages for a discussion of the sources of the performance data used to calculate the performance results and related analyses shown above.

## IMPORTANT NOTES AND DISCLOSURES

### COMPOSITE DISCLOSURES

**Past performance is no guarantee of future results. Actual individual account results may differ from the performance shown in this profile. There is no guarantee that this investment strategy will work under all market conditions. Do not use this profile as the sole basis for your investment decisions.**

Performance results in this profile are calculated assuming reinvestment of dividends and income. Returns for more than one year are annualized and based on quarterly data. Returns for periods of less than a calendar year show the total return for the period and are not annualized.

**Sources of Performance Results and Other Data:** The performance data and certain other information for this strategy (including the data on page 1 of this profile) reflect the investment manager's results in managing Morgan Stanley program accounts, or the investment manager's results in managing accounts and investment products, in the same or a substantially similar investment discipline. (For periods through June 2012, the Fiduciary Services program operated through two channels - Morgan Stanley channel and the Smith Barney channel - and any performance and other data relating to Fiduciary Services accounts shown here for these periods is calculated using accounts in only one of the these channels.) This information for the investment manager is presented solely to provide information about accounts that were managed according to investment objectives and strategies the same or substantially similar to the corresponding investment discipline in the Select UMA program. Although the Fiduciary Services and Select UMA programs are both Morgan Stanley managed account programs, the performance results and other features of similar investment disciplines in the two programs may differ due to investment and operational differences. For example, the individual investment disciplines in the Select UMA accounts may contain fewer securities, which would lead to a more concentrated portfolio. The automatic rebalancing, wash sale loss and tax-harvesting features of the Select UMA program, which are not available in Fiduciary Services, also could cause differences in performance. Accordingly, the performance of the accounts in the Fiduciary Services program is not, and may differ significantly from, the performance of the accounts in the Select UMA program and should not be considered indicative of or a substitute for Select UMA performance. Similarly, performance results of the investment manager's composites may differ from those of Select UMA accounts managed in the same or a substantially similar investment discipline.

### Related Performance:

BlackRock claims compliance with the GIPS standards. BlackRock has been independently verified for the periods 1 January 1993 through 31 December 2016. The verification reports are available upon request. Verification assesses whether (1) the firm has complied with all the composite construction requirements of the GIPS standards on a firm-wide basis and (2) the firm's policies and procedures are designed to calculate and present performance in compliance with the GIPS standards. Verification does not ensure the accuracy of any specific composite presentation. The firm is verified annually by Deloitte.

### Morgan Stanley Performance:

**Gross Performance:** BlackRock's gross results do not reflect a deduction of any investment advisory fees or program fees, charged by BlackRock or Morgan Stanley, but are net of commissions charged on securities transactions.

**Net Performance for all Periods:** Net performance results reflect a deduction of 0.6425% quarterly. This consists of three components: 0.625% maximum quarterly MS Advisory Fee and 0.0175% maximum quarterly Program Overlay Fee (which, together cover the services provided by Morgan Stanley), plus 0.00% quarterly SMA Manager Fees (being the fee currently charged by BlackRock to new clients for managing their assets in the Select UMA program). The SMA Manager Fees may differ from manager to manager, and managers may change their fee to new clients from time to time. If you select this manager for your account, check the SMA Manager Fees specified in the written client agreement, in case these have changed since you received this profile. Historical net fees reflect the Advisory Fee Schedule as of March 31, 2014.

Morgan Stanley program fees are usually deducted quarterly, and have a compounding effect on performance. The Morgan Stanley program fee, which differs among programs and clients, is described in the applicable Morgan Stanley ADV brochure, which is available at [www.morganstanley.com/ADV](http://www.morganstanley.com/ADV) or on request from your Financial Advisor or Private Wealth Advisor.

Document approval date 06/2018. #CRC

### Focus List, Approved List, and Watch Status:

Global Investment Manager Analysis ("GIMA") uses two methods to evaluate investment products in applicable advisory programs. In general, strategies that have passed a more thorough evaluation may be placed on the "Focus List", while strategies that have passed through a different and less comprehensive evaluation process may be placed on the "Approved List". Sometimes an investment product may be evaluated using the Focus List process but then placed on the Approved List instead of the Focus List.

Investment products may move from the Focus List to the Approved List, or vice versa. GIMA may also determine that an investment product no longer meets the criteria under either evaluation process and will no longer be recommended in investment advisory programs (in which case the investment product is given a "Not Approved" status).

GIMA has a "Watch" policy and may describe a Focus List or Approved List investment product as being on "Watch" if GIMA identifies specific areas that (a) merit further evaluation by GIMA and (b) may, but are not certain to, result in the investment product becoming "Not Approved". The Watch period depends on the length of time needed for GIMA to conduct its evaluation and for the investment manager to address any concerns. GIMA may, but is not obligated to, note the Watch status in this report with a "W" or "Watch" on the cover page.

For more information on the Focus List, Approved List, and Watch processes, please see the applicable Morgan Stanley ADV brochure ([www.ms.com/adv](http://www.ms.com/adv)). Your Financial Advisor or Private Wealth Advisor can provide on request a copy of a paper entitled "GIMA: At A Glance".

### ADDITIONAL DISCLOSURES

The information about a representative account is for illustrative purposes only. Actual account holdings, performance and other data will vary depending on the size of an account, cash flows within an account, and restrictions on an account. Holdings are subject to change daily. The information in this profile is not a recommendation to buy, hold or sell securities.

Actual portfolio statistics may vary from target portfolio characteristics.

The investment manager may use the same or substantially similar investment strategies, and may hold similar portfolios of investments, in other portfolios or products it manages (including mutual funds). These may be available at Morgan Stanley or elsewhere, and may cost an investor more or less than this strategy in Morgan Stanley's Select UMA program.

The portfolio may, at times, invest in exchange-traded funds (ETFs), which are a form of equity security in seeking to maintain continued full exposure to the broad equity market.

Morgan Stanley investment advisory programs may require a minimum asset level and, depending on your specific investment objectives and financial position, may not be suitable for you. Investment advisory program accounts are opened pursuant to a written client agreement.

The investment manager acts independently of, and is not an affiliate of, Morgan Stanley Smith Barney LLC.

Diversification does not guarantee a profit or protect against a loss.

#### *No obligation to notify*

Morgan Stanley has no obligation to notify you when information in this profile changes.

#### *Sources of information*

Material in this profile has been obtained from sources that we believe to be reliable, but we do not guarantee its accuracy, completeness or timeliness. Third party data providers make no warranties or representations relating to the accuracy, completeness or timeliness of the data they provide and are not liable for any damages relating to this data.

#### *No tax advice*

Morgan Stanley and its affiliates do not render advice on legal, tax and/or tax accounting matters to clients. Each client should consult his/her personal tax and/or legal advisor to learn about any potential tax or other implications that may result from acting on a particular recommendation.

#### *Not an ERISA fiduciary*

Morgan Stanley is not acting as a fiduciary under either the Employee Retirement Income Security Act of 1974, as amended, or under section 4975 of the Internal Revenue Code of 1986, as amended, in providing the information in this profile.

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## INDEX DESCRIPTIONS

### 30% BC Agg/70% MSCI World Net Index

30% BC Aggregate/70% MSCI World Net

## 90-Day T-Bills

The 90-Day Treasury Bill is a short-term obligation issued by the United States government. T-bills are purchased at a discount to the full face value, and the investor receives the full value when they mature. The difference of discount is the interest earned. T-bills are issued in denominations of \$10,000 auction and \$1,000 increments thereafter.

## S&P 500

The S&P 500 Total Return has been widely regarded as the best single gauge of the large cap U.S. equities market since the index was first published in 1957. The index has over \$5.58 trillion benchmarked, with index assets comprising approximately \$1.31 trillion of this total. The index includes 500 leading companies in leading industries of the U.S. economy, capturing 75% coverage of U.S. equities. This index includes dividend reinvestment.

**Indices are unmanaged and have no expenses. You cannot invest directly in an index.**

## GLOSSARY OF TERMS

**Alpha** is a mathematical estimate of risk-adjusted return expected from a portfolio above and beyond the benchmark return at any point in time.

**American Depository Receipts (ADRs)** are receipts for shares of a foreign-based corporation held in the vault of a U.S. bank.

**Average Portfolio Beta** is a measure of the sensitivity of a benchmark or portfolio's rates of return to changes against a market return. The market return is the S&P 500 Index. It is the coefficient measuring a stock or a portfolio's relative volatility.

**Beta** is a measure of the sensitivity of a portfolio's rates of return to changes in the market return. It is the coefficient measuring a stock or a portfolio's relative volatility.

**Bottom-Up Stock Selection** Emphasis primarily on individual stock selection. Considerations of economic and industry factors are of secondary importance in the investment decision-making process.

**Capitalization** is defined as the following: Mega (Above \$100 billion), Large (\$12 to \$100 billion), Medium (\$2.5 - \$12 billion), Small (\$.50 - \$2.5 billion) and Micro (below \$.50 billion).

**Dividend** a portion of a company's profit paid to common and preferred shareholders.

**Downside Risk** is a measure of the risk associated with achieving a specific target return. This statistic separates portfolio volatility into downside risk and upside uncertainty. The downside considers all returns below the target return, while the upside considers all returns equal to or above the target return.

**Duration** is a measure of price sensitivity expressed in years.

**High Grade Corporate Bonds** corporate bonds from issuers with credit ratings of AA or AAA.

**Information Ratio** is a measure of the investment manager's skill to add active value against a given benchmark relative to how stable that active return has been. Essentially, the information ratio explains how significant a manager's alpha is. Therefore, the higher the information ratio, the more significant the alpha.

**Investment Grade Bonds** are those rated by Standard & Poor's AAA (highest rated), AA, A or BBB (or equivalent rating by other rating agencies or, in the case of securities not rated, by the investment manager).

**Price/Book Ratio (P/B)** weighted average of the stocks' price divided by book value per share. Book value per share is defined as common equity, including intangibles, divided by shares outstanding times the adjustment factor.

**Price/Cash Flow Ratio** a ratio used to compare a company's market value to its cash flow. It is calculated by dividing the company's market cap by the company's operating cash flow in the most recent fiscal year (or the most recent four fiscal quarters); or, equivalently, divide the per-share stock price by the per-share operating cash flow.

**Price/Earnings Ratio (P/E Ratio)** shows the multiple of earnings at which a stock sells. Determined by dividing current stock price by current earnings per share (adjusted for stock splits). Earnings per share for the P/E ratio are determined by dividing earnings for past 12 months by the number of common shares outstanding. The P/E ratio shown here is calculated by the harmonic mean.

**Price/Sales Ratio** determined by dividing current stock price by revenue per share (adjusted for stock splits). Revenue per share for the P/S ratio is determined by dividing revenue for past 12 months by number of shares outstanding.

**R2 (R-Squared)/Portfolio Diversification** indicates the proportion of a security's total variance that is benchmark-related or is explained by variations in the benchmark.

**Sharpe Ratio** measures the efficiency, or excess return per unit of volatility, of a manager's returns. It evaluates managers' performance on a volatility-adjusted basis.

**Standard Deviation** is a statistical measure of historical variability or spread of returns around a mathematical average return that was produced by the investment manager over a given measurement period. The higher the standard deviation, the greater the variability in the investment manager's returns relative to its average return.

**Top-Down/Economic Analysis** Emphasis primarily on macroeconomic trends as opposed to bottom-up stock selection.

**Tracking Error** represents the standard deviation of the difference between the performance of the investment strategy and the benchmark. This provides a historical measure of the variability of the investment strategy's returns relative to its benchmark.

**U.S. Treasury Bonds** a marketable, fixed interest U.S. government debt security with a maturity of more than 10 years. Treasury bonds make interest payments semi-annually and the income that holders receive is only taxed at the federal level.

**Volatility** a measure of risk based on the standard deviation of the asset return. Volatility is a variable that appears in option pricing formulas, where it denotes the volatility of the underlying asset return from now to the expiration of the option. There are volatility indexes. Such as a scale of 1-9; a higher rating means higher risk.