

Summary Prospectus

BlackRock Allocation Target Shares | BATS: Series E Portfolio

- **Series E Portfolio**

BATEX

Before you invest, you may want to review the Fund's prospectus, which contains more information about the Fund and its risks. You can find the Fund's prospectus (including amendments and supplements), reports to shareholders and other information about the Fund, including the Fund's statement of additional information, online at <http://www.blackrock.com/prospectus>. You can also get this information at no cost by calling (800) 882-0052 or by sending an e-mail request to prospectus.request@blackrock.com, or from your financial professional. The Fund's prospectus and statement of additional information, both dated July 28, 2023, as amended and supplemented from time to time, are incorporated by reference into (legally made a part of) this Summary Prospectus.

This Summary Prospectus contains information you should know before investing, including information about risks. Please read it before you invest and keep it for future reference.

The Securities and Exchange Commission has not approved or disapproved these securities or passed upon the adequacy of this Summary Prospectus. Any representation to the contrary is a criminal offense.

Not FDIC Insured • May Lose Value • No Bank Guarantee

Summary Prospectus

Key Facts About BATS: Series E Portfolio

Investment Objective

The investment objective of the BATS: Series E Portfolio (the “Fund”) is to seek to maximize Federal tax-free yield with a secondary goal of total return.

Fees and Expenses of the Fund

This table describes the fees and expenses that you may pay if you buy, hold and sell shares of the Fund.

Shareholder Fees (Fees paid directly from your investment)	BATS: Series E Portfolio Shares
Maximum Sales Charge (Load) Imposed on Purchases (as percentage of offering price)	None
Maximum Deferred Sales Charge (Load) (as percentage of offering price or redemption proceeds, whichever is lower)	None
Annual Fund Operating Expenses (Expenses that you pay each year as a percentage of the value of your investment)	BATS: Series E Portfolio Shares
Management Fee	None
Distribution and/or Service (12b-1) Fees	None
Other Expenses	0.26%
Interest Expense	0.11%
Miscellaneous Expense	0.15%
Acquired Fund Fees and Expenses ¹	0.01%
Total Annual Fund Operating Expenses ¹	0.27%
Fee Waivers and/or Expense Reimbursements ²	(0.15)%
Total Annual Fund Operating Expenses After Fee Waivers and/or Expense Reimbursements ²	0.12% ³

¹ The Total Annual Fund Operating Expenses do not correlate to the ratios of expenses to average net assets given in the Fund’s most recent annual report, which do not include Acquired Fund Fees and Expenses.

² As described in the “Management of the Funds” section of the Fund’s prospectus beginning on page 65, pursuant to the management agreement between BlackRock Advisors, LLC (“BlackRock”) and BlackRock Allocation Target Shares, on behalf of the Fund, BlackRock has contractually agreed to waive all fees and pay or reimburse all fees and expenses of the Fund, except extraordinary expenses, indefinitely. Extraordinary expenses may include Dividend Expense, Interest Expense, Acquired Fund Fees and Expenses and certain other Fund expenses.

³ You should also be aware that the Fund is an investment option for certain “wrap-fee” programs or other separately managed account clients for which BlackRock Investment Management, LLC or certain of its affiliates (individually or collectively referred to as “BIM LLC”) receives compensation pursuant to an investment management agreement. Wrap-fee program participants pay a “wrap-fee” to the sponsor of the program which typically covers investment advice and transaction costs on trades executed with the sponsor or a designated broker-dealer. You should read carefully the wrap-fee or other program brochure provided to you by your program sponsor or investment adviser. The brochure is required to include information about the fees charged to you and, in case of a wrap-fee program, the fees paid by the sponsor to BIM LLC.

Example:

This Example is intended to help you compare the cost of investing in the Fund with the cost of investing in other mutual funds. The Example assumes that you invest \$10,000 in the Fund for the time periods indicated and then redeem all of your shares at the end of those periods. The Example also assumes that your investment has a 5% return each year and that the Fund’s operating expenses remain the same. Although your actual costs may be higher or lower, based on these assumptions your costs would be:

	1 Year	3 Years	5 Years	10 Years
BATS: Series E Portfolio Shares	\$12	\$39	\$68	\$154

Portfolio Turnover:

The Fund pays transaction costs, such as commissions, when it buys and sells securities (or “turns over” its portfolio). A higher portfolio turnover rate may indicate higher transaction costs and may result in higher taxes when shares are held in a taxable account. These costs, which are not reflected in annual fund operating expenses or in the Example, affect the Fund’s performance. During the most recent fiscal year, the Fund’s portfolio turnover rate was 37% of the average value of its portfolio.

Principal Investment Strategies of the Fund

The Fund seeks to provide investors with greater Federal tax-free income, in comparison with other municipal bond funds that invest primarily in investment grade securities, by investing in a combination of investment grade and noninvestment grade municipal bonds. Municipal bonds include debt obligations issued by or on behalf of a governmental entity or other qualifying issuer that pay interest that is, in the opinion of bond counsel to the issuer, generally excludable from gross income for Federal income tax purposes (except that the interest may be includable in taxable income for purposes of the Federal alternative minimum tax). Issuers of municipal bonds may be states, territories and possessions of the United States and the District of Columbia and their political subdivisions, agencies and instrumentalities. Municipal bonds also include private activity bonds, short-term tax-exempt obligations like municipal notes and variable rate demand obligations.

The Fund may invest in municipal bonds rated in any rating category or in unrated municipal bonds. Currently, the Fund expects to invest approximately 50% of its net assets in below investment grade municipal bonds. While the level of the Fund's investments in below investment grade municipal bonds may vary depending on market conditions, the Fund will not invest more than 70% of its net assets, at the time of purchase, in below investment grade municipal bonds, as rated by the independent rating agencies at the time of purchase (BB or lower by S&P Global Ratings ("S&P") and Fitch Ratings, Inc. ("Fitch"), and Ba or lower by Moody's Investors Service, Inc. ("Moody's")), or if unrated, determined to be of comparable quality by Fund management. Obligations rated BB or lower and Ba or lower are commonly known as "junk bonds." Split rated bonds will be considered to have the higher credit rating. Split rated bonds are bonds that receive different ratings from two or more rating agencies.

The Fund is permitted to engage in transactions in certain derivatives, including, but not limited to, financial futures contracts and options thereon, options, indexed and inverse floating rate obligations and swap agreements, including credit default swap agreements. Derivatives are financial instruments whose value is derived from another security or an index such as the Bloomberg Municipal High Yield Bond Index. The Fund may use derivative instruments to hedge its investments or to seek to enhance returns. Derivatives may allow the Fund to increase or decrease its risk exposure more quickly and efficiently than other types of instruments. The Fund is not required to use hedging and may choose not to do so.

The Fund intends to invest so that no more than 25% of the Fund's net assets are represented by the municipal securities of issuers located in the same state.

The Fund may also invest up to 10% of its net assets in municipal bonds that are considered "distressed securities." Distressed securities are securities that are the subject of bankruptcy proceedings or otherwise in default as to the repayment of principal and/or payment of interest at the time of acquisition or are rated in the lowest rating categories by the independent rating agencies (CC or lower by S&P and Fitch, and Ca or lower by Moody's), or if unrated, determined to be of comparable quality by Fund management.

Principal Risks of Investing in the Fund

Risk is inherent in all investing. The value of your investment in the Fund, as well as the amount of return you receive on your investment, may fluctuate significantly from day to day and over time. You may lose part or all of your investment in the Fund or your investment may not perform as well as other similar investments. The following is a summary description of principal risks of investing in the Fund. The relative significance of each risk factor below may change over time and you should review each risk factor carefully.

■ **Debt Securities Risk** — Debt securities, such as bonds, involve interest rate risk, credit risk, extension risk, and prepayment risk, among other things.

Interest Rate Risk — The market value of bonds and other fixed-income securities changes in response to interest rate changes and other factors. Interest rate risk is the risk that prices of bonds and other fixed-income securities will increase as interest rates fall and decrease as interest rates rise.

The Fund may be subject to a greater risk of rising interest rates due to the recent period of historically low interest rates. For example, if interest rates increase by 1%, assuming a current portfolio duration of ten years, and all other factors being equal, the value of the Fund's investments would be expected to decrease by 10%. (Duration is a measure of the price sensitivity of a debt security or portfolio of debt securities to relative changes in interest rates.) The magnitude of these fluctuations in the market price of bonds and other fixed-income securities is generally greater for those securities with longer maturities. Fluctuations in the market price of the Fund's investments will not affect interest income derived from instruments already owned by the Fund, but will be reflected in the Fund's net asset value. The Fund may lose money if short-term or long-term interest rates rise sharply in a manner not anticipated by Fund management.

To the extent the Fund invests in debt securities that may be prepaid at the option of the obligor (such as mortgage-backed securities), the sensitivity of such securities to changes in interest rates may increase (to the detriment of the Fund) when interest rates rise. Moreover, because rates on certain floating rate debt securities typically reset only periodically, changes in prevailing interest rates (and particularly sudden and significant changes) can be expected to cause some fluctuations in the net asset value of the Fund to the extent that it invests in floating rate debt securities.

These basic principles of bond prices also apply to U.S. Government securities. A security backed by the “full faith and credit” of the U.S. Government is guaranteed only as to its stated interest rate and face value at maturity, not its current market price. Just like other fixed-income securities, government-guaranteed securities will fluctuate in value when interest rates change.

A general rise in interest rates has the potential to cause investors to move out of fixed-income securities on a large scale, which may increase redemptions from funds that hold large amounts of fixed-income securities. Heavy redemptions could cause the Fund to sell assets at inopportune times or at a loss or depressed value and could hurt the Fund’s performance.

Credit Risk — Credit risk refers to the possibility that the issuer of a debt security (i.e., the borrower) will not be able to make payments of interest and principal when due. Changes in an issuer’s credit rating or the market’s perception of an issuer’s creditworthiness may also affect the value of the Fund’s investment in that issuer. The degree of credit risk depends on both the financial condition of the issuer and the terms of the obligation.

Extension Risk — When interest rates rise, certain obligations will be paid off by the obligor more slowly than anticipated, causing the value of these obligations to fall.

Prepayment Risk — When interest rates fall, certain obligations will be paid off by the obligor more quickly than originally anticipated, and the Fund may have to invest the proceeds in securities with lower yields.

- **Municipal Securities Risks** — Municipal securities risks include the ability of the issuer to repay the obligation, the relative lack of information about certain issuers of municipal securities, and the possibility of future legislative changes which could affect the market for and value of municipal securities. Budgetary constraints of local, state, and federal governments upon which the issuers may be relying for funding may also impact municipal securities. These risks include:

General Obligation Bonds Risks — Timely payments depend on the issuer’s credit quality, ability to raise tax revenues and ability to maintain an adequate tax base.

Revenue Bonds Risks — These payments depend on the money earned by the particular facility or class of facilities, or the amount of revenues derived from another source.

Private Activity Bonds Risks — Municipalities and other public authorities issue private activity bonds to finance development of industrial facilities for use by a private enterprise. The private enterprise pays the principal and interest on the bond, and the issuer does not pledge its full faith, credit and taxing power for repayment.

Moral Obligation Bonds Risks — Moral obligation bonds are generally issued by special purpose public authorities of a state or municipality. If the issuer is unable to meet its obligations, repayment of these bonds becomes a moral commitment, but not a legal obligation, of the state or municipality.

Municipal Notes Risks — Municipal notes are shorter term municipal debt obligations. If there is a shortfall in the anticipated proceeds, the notes may not be fully repaid and the Fund may lose money.

Municipal Lease Obligations Risks — In a municipal lease obligation, the issuer agrees to make payments when due on the lease obligation. Although the issuer does not pledge its unlimited taxing power for payment of the lease obligation, the lease obligation is secured by the leased property.

Tax-Exempt Status Risk — The Fund and its investment manager will rely on the opinion of issuers’ bond counsel and, in the case of derivative securities, sponsors’ counsel, on the tax-exempt status of interest on municipal bonds and payments under derivative securities. Neither the Fund nor its investment manager will independently review the bases for those tax opinions, which may ultimately be determined to be incorrect and subject the Fund and its shareholders to substantial tax liabilities.

- **Junk Bonds Risk** — Although junk bonds generally pay higher rates of interest than investment grade bonds, junk bonds are high risk investments that are considered speculative and may cause income and principal losses for the Fund.

- **Derivatives Risk** — The Fund’s use of derivatives may increase its costs, reduce the Fund’s returns and/or increase volatility. Derivatives involve significant risks, including:

Leverage Risk — The Fund's use of derivatives can magnify the Fund's gains and losses. Relatively small market movements may result in large changes in the value of a derivatives position and can result in losses that greatly exceed the amount originally invested.

Market Risk — Some derivatives are more sensitive to interest rate changes and market price fluctuations than other securities. The Fund could also suffer losses related to its derivatives positions as a result of unanticipated market movements, which losses are potentially unlimited. Finally, BlackRock may not be able to predict correctly the direction of securities prices, interest rates and other economic factors, which could cause the Fund's derivatives positions to lose value.

Counterparty Risk — Derivatives are also subject to counterparty risk, which is the risk that the other party in the transaction will be unable or unwilling to fulfill its contractual obligation, and the related risks of having concentrated exposure to such a counterparty.

Illiquidity Risk — The possible lack of a liquid secondary market for derivatives and the resulting inability of the Fund to sell or otherwise close a derivatives position could expose the Fund to losses and could make derivatives more difficult for the Fund to value accurately.

Operational Risk — The use of derivatives includes the risk of potential operational issues, including documentation issues, settlement issues, systems failures, inadequate controls and human error.

Legal Risk — The risk of insufficient documentation, insufficient capacity or authority of counterparty, or legality or enforceability of a contract.

Volatility and Correlation Risk — Volatility is defined as the characteristic of a security, an index or a market to fluctuate significantly in price within a short time period. A risk of the Fund's use of derivatives is that the fluctuations in their values may not correlate with the overall securities markets.

Valuation Risk — Valuation for derivatives may not be readily available in the market. Valuation may be more difficult in times of market turmoil since many investors and market makers may be reluctant to purchase complex instruments or quote prices for them.

Hedging Risk — Hedges are sometimes subject to imperfect matching between the derivative and the underlying security, and there can be no assurance that the Fund's hedging transactions will be effective. The use of hedging may result in certain adverse tax consequences.

Tax Risk — Certain aspects of the tax treatment of derivative instruments, including swap agreements and commodity-linked derivative instruments, are currently unclear and may be affected by changes in legislation, regulations or other legally binding authority. Such treatment may be less favorable than that given to a direct investment in an underlying asset and may adversely affect the timing, character and amount of income the Fund realizes from its investments.

■ ***Distressed Securities Risk*** — Distressed securities are speculative and involve substantial risks in addition to the risks of investing in junk bonds. The Fund will generally not receive interest payments on the distressed securities and may incur costs to protect its investment. In addition, distressed securities involve the substantial risk that principal will not be repaid. These securities may present a substantial risk of default or may be in default at the time of investment. The Fund may incur additional expenses to the extent it is required to seek recovery upon a default in the payment of principal or interest on its portfolio holdings. In any reorganization or liquidation proceeding relating to a portfolio company, the Fund may lose its entire investment or may be required to accept cash or securities with a value less than its original investment. Distressed securities and any securities received in an exchange for such securities may be subject to restrictions on resale.

■ ***Illiquid Investments Risk*** — The Fund may not acquire any illiquid investment if, immediately after the acquisition, the Fund would have invested more than 15% of its net assets in illiquid investments. An illiquid investment is any investment that the Fund reasonably expects cannot be sold or disposed of in current market conditions in seven calendar days or less without the sale or disposition significantly changing the market value of the investment. Liquid investments may become illiquid after purchase by the Fund, particularly during periods of market turmoil. There can be no assurance that a security or instrument that is deemed to be liquid when purchased will continue to be liquid for as long as it is held by the Fund, and any security or instrument held by the Fund may be deemed an illiquid investment pursuant to the Fund's liquidity risk management program. The Fund's illiquid investments may reduce the returns of the Fund because it may be difficult to sell the illiquid investments at an advantageous time or price. In addition, if the Fund is limited in its ability to sell illiquid investments during periods when shareholders are redeeming their shares, the Fund will need to sell liquid securities to meet redemption requests and illiquid securities will become a larger portion of the Fund's holdings. An investment may be illiquid due to, among other things, the reduced number and capacity of traditional market participants to make a market in fixed-income

securities or the lack of an active trading market. To the extent that the Fund's principal investment strategies involve derivatives or securities with substantial market and/or credit risk, the Fund will tend to have the greatest exposure to the risks associated with illiquid investments. Illiquid investments may be harder to value, especially in changing markets, and if the Fund is forced to sell these investments to meet redemption requests or for other cash needs, the Fund may suffer a loss. This may be magnified in a rising interest rate environment or other circumstances where investor redemptions from fixed-income mutual funds may be higher than normal. In addition, when there is illiquidity in the market for certain securities, the Fund, due to limitations on illiquid investments, may be subject to purchase and sale restrictions.

■ **Leverage Risk** — Some transactions may give rise to a form of economic leverage. These transactions may include, among others, derivatives, and may expose the Fund to greater risk and increase its costs. The use of leverage may cause the Fund to liquidate portfolio positions when it may not be advantageous to do so to satisfy its obligations or to meet the applicable requirements of the Investment Company Act of 1940, as amended (the "Investment Company Act") and the rules thereunder. Increases and decreases in the value of the Fund's portfolio will be magnified when the Fund uses leverage.

■ **Market Risk and Selection Risk** — Market risk is the risk that one or more markets in which the Fund invests will go down in value, including the possibility that the markets will go down sharply and unpredictably. The value of a security or other asset may decline due to changes in general market conditions, economic trends or events that are not specifically related to the issuer of the security or other asset, or factors that affect a particular issuer or issuers, exchange, country, group of countries, region, market, industry, group of industries, sector or asset class. Local, regional or global events such as war, acts of terrorism, the spread of infectious illness or other public health issues like pandemics or epidemics, recessions, or other events could have a significant impact on the Fund and its investments. Selection risk is the risk that the securities selected by Fund management will underperform the markets, the relevant indices or the securities selected by other funds with similar investment objectives and investment strategies. This means you may lose money.

An outbreak of an infectious coronavirus (COVID-19) that was first detected in December 2019 developed into a global pandemic that has resulted in numerous disruptions in the market and has had significant economic impact leaving general concern and uncertainty. Although vaccines have been developed and approved for use by various governments, the duration of the pandemic and its effects cannot be predicted with certainty. The impact of this coronavirus, and other epidemics and pandemics that may arise in the future, could affect the economies of many nations, individual companies and the market in general ways that cannot necessarily be foreseen at the present time.

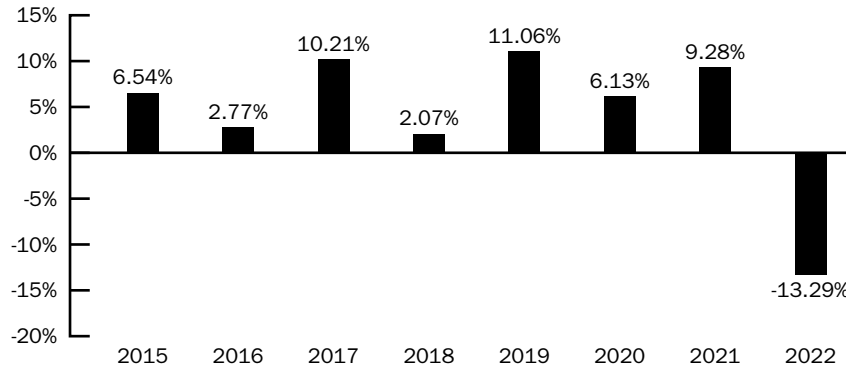
■ **School District Investment Risk** — School districts rely, in part, on funding appropriations from, among others, the federal government and state governments. As a result, municipal securities issued by school districts may be adversely affected by political and economic changes at the state or federal levels, such as decreased tax or other revenues, spending reductions or changes in appropriations. Municipal securities that are issued to finance a particular school district project often depend on revenues from ad valorem taxes (i.e., property taxes) to make principal and interest payments. Adverse conditions and developments affecting a particular project can result in lower revenues to the issuer of the municipal securities. Investors in these securities, similar to investors in municipal securities generally, face heightened risk of loss upon insolvency of the school district issuers because there is often no ready source of funding to pay the bonds other than the local tax base, which a bankruptcy court or administrator does not control.

■ **Variable Rate Demand Obligations Risks** — Variable rate demand obligations are floating rate securities that combine an interest in a long term municipal bond with a right to demand payment before maturity from a bank or other financial institution. If the bank or financial institution is unable to pay, the Fund may lose money.

Performance Information

The information shows you how the Fund's performance has varied year by year and provides some indication of the risks of investing in the Fund. The table compares the Fund's performance to that of the Bloomberg Municipal High Yield Bond Index and the Customized Reference Benchmark (65% Bloomberg Municipal Bond Index Total Return Index Value Unhedged and 35% Bloomberg Municipal Bond: High Yield (non-Investment Grade) Total Return Index). To the extent that dividends and distributions have been paid by the Fund, the performance information for the Fund in the chart and table assumes reinvestment of the dividends and distributions. As with all such investments, past performance (before and after taxes) is not an indication of future results. The table includes all applicable fees. If the Fund's investment manager and its affiliates had not waived or reimbursed certain Fund expenses during these periods, the Fund's returns would have been lower. Updated information on the Fund's performance, including its current net asset value, can be obtained by phone at 800-882-0052.

ANNUAL TOTAL RETURNS
BATS: Series E Portfolio
As of 12/31



During the period shown in the bar chart, the highest return for a quarter was 5.20% (quarter ended June 30, 2016) and the lowest return for a quarter was -6.87% (quarter ended March 31, 2022). The year-to-date return as of June 30, 2023 was 2.47%.

For the periods ended 12/31/22
Average Annual Total Returns

	1 Year	5 Years	Since Inception (August 4, 2014)
BATS: Series E Portfolio			
Return Before Taxes	(13.29)%	2.66%	4.55%
Return After Taxes on Distributions	(13.71)%	2.48%	4.29%
Return After Taxes on Distributions and Sale of Fund Shares	(6.04)%	3.03%	4.43%
Bloomberg Municipal High Yield Bond Index	(13.10)%	2.63%	3.88%
Customized Reference Benchmark	(10.14)%	1.76%	⁻¹

¹ The Customized Reference Benchmark commenced in September 2016 and therefore the Customized Reference Benchmark does not have a return since inception.

After-tax returns are calculated using the historical highest individual federal marginal income tax rates and do not reflect the impact of state and local taxes. Actual after-tax returns depend on the investor's tax situation and may differ from those shown, and the after-tax returns shown are not relevant to investors who hold their shares through tax-deferred arrangements, such as 401(k) plans or individual retirement accounts.

Investment Manager

The Fund's investment manager is BlackRock Advisors, LLC (previously defined as "BlackRock").

Portfolio Managers

Name	Portfolio Manager of the Fund Since	Title
Walter O'Connor, CFA	2014	Managing Director of BlackRock, Inc.
Kevin Maloney, CFA	2022	Director of BlackRock, Inc.
Phillip Soccio, CFA	2022	Director of BlackRock, Inc.
Ryan McDonald, CFA	2023	Managing Director of BlackRock, Inc.

Purchase and Sale of Fund Shares

Shares of the Fund may be purchased and held only by or on behalf of separately managed account clients who have retained BIM LLC to manage their accounts, or who have requested that their investment adviser consider investment recommendations provided by BIM LLC in connection with the management of their accounts.

Purchase and redemption orders generally are made based on instructions from BIM LLC (or other investment adviser to whom BIM LLC provides investment recommendations). Purchase and redemption orders are processed at the net

asset value next calculated after the broker-dealer receives the order on behalf of the account each day the New York Stock Exchange is open.

BATS: Series E Portfolio

Minimum Initial Investment	There is no minimum amount for initial investments.
Minimum Additional Investment	There is no minimum amount for additional investments.

Tax Information

Although the Fund will primarily seek income exempt from federal income tax, it may to a lesser extent distribute taxable income. Accordingly, the Fund's dividends and distributions may be subject to U.S. federal income taxes and may be taxed as ordinary income or capital gains, unless you are a tax-exempt investor or are investing through a qualified tax-exempt plan described in section 401(a) of the Internal Revenue Code, in which case you may be subject to U.S. federal income tax when distributions are received from such tax-deferred arrangements. The Fund intends to make distributions from income most of which will be excludable from gross income for U.S. federal income tax purposes.

Payments to Broker/Dealers and Other Financial Intermediaries

If you purchase shares of the Fund through a financial intermediary, the Fund and BlackRock Investments, LLC, the Fund's distributor, or its affiliates may pay the financial intermediary for the sale of Fund shares and related services. These payments may create a conflict of interest by influencing the financial intermediary and your individual financial professional to recommend the Fund over another investment.

Ask your individual financial professional or visit your financial intermediary's website for more information.

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