

CHAPTER

4

US Exchange-Traded Funds

ETFs are a convenient, cost-effective tool for investors seeking to gain or shed exposure to broad markets, particular sectors or geographical regions, or specific investment strategies. Demand for ETFs has grown markedly as investors—both institutional and retail—increasingly turn to them as investment options. In the past 10 years, net share issuance of ETFs has totaled \$5.4 trillion. As investor demand has increased, sponsors have offered more ETFs with a greater variety of investment objectives. With \$10.3 trillion in total net assets at year-end 2024, the US ETF industry remained the largest in the world.

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What Is an ETF?

An exchange-traded fund (ETF) is a pooled investment vehicle with shares that investors can buy and sell throughout the day on a stock exchange at a market-determined price. Investors may buy or sell ETF shares through a broker or in a brokerage account just as they would trade shares of any publicly traded company. ETFs have been available as an investment product for more than 30 years in the United States. Most ETFs are structured as open-end investment companies (like mutual funds) or unit investment trusts (UITs) and are governed by the same regulations. Other ETFs—primarily those investing in commodities, currencies, and futures—have different structures and are subject to different regulatory requirements.

ETF Total Net Assets

At year-end 2024, the US ETF market—with 3,637 funds and \$10.3 trillion in total net assets—remained the largest in the world, accounting for 71 percent of the \$14.4 trillion in ETF net assets worldwide.* Within the United States, total net assets in ETFs accounted for 26 percent of assets managed by investment companies at year-end 2024 (see Figure 2.1). ETFs have been available for more than 30 years, and throughout that time, large-cap domestic equity ETFs have accounted for a substantial proportion of ETF net assets. At year-end 2024, net assets in large-cap domestic equity ETFs totaled \$3.8 trillion, or 37 percent of ETF net assets (Figure 4.1). Bond ETFs, which have been fueled by strong investor demand over the past several years, accounted for \$1.8 trillion (17 percent) of ETF net assets.

Learn More About ETFs

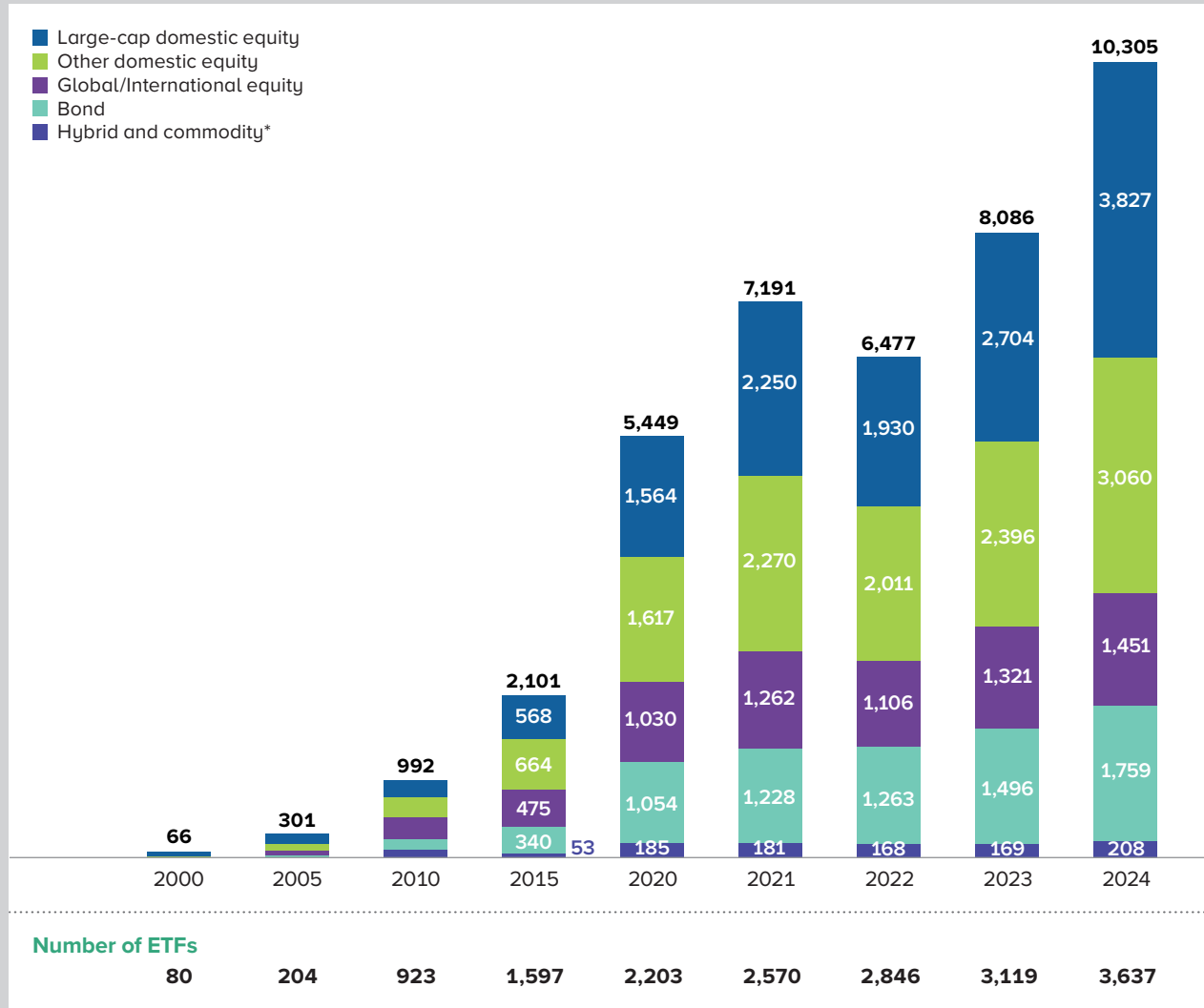
ETFs have proven to be a successful financial innovation among registered investment companies since the first one was created in 1993. The demand for ETFs has grown markedly as both institutional and retail investors have gravitated toward them because of their appealing features. For an introduction to the creation, operation, and evolution of the regulation of ETFs, as well as information about authorized participants (APs) and the key similarities and differences between ETFs and mutual funds, see the ETF Resource Center, available at www.ici.org/etf.

* Based on ICI calculations of data from the International Investment Funds Association (IIFA).

FIGURE
4.1

Total Net Assets of ETFs Surpassed \$10 Trillion in 2024

Billions of dollars, year-end



* Commodity ETFs include funds—both registered and not registered under the Investment Company Act of 1940—that invest primarily in commodities, currencies, and futures.

Note: The first bond, hybrid, and commodity ETFs were opened in 2002, 2007, and 2004, respectively.

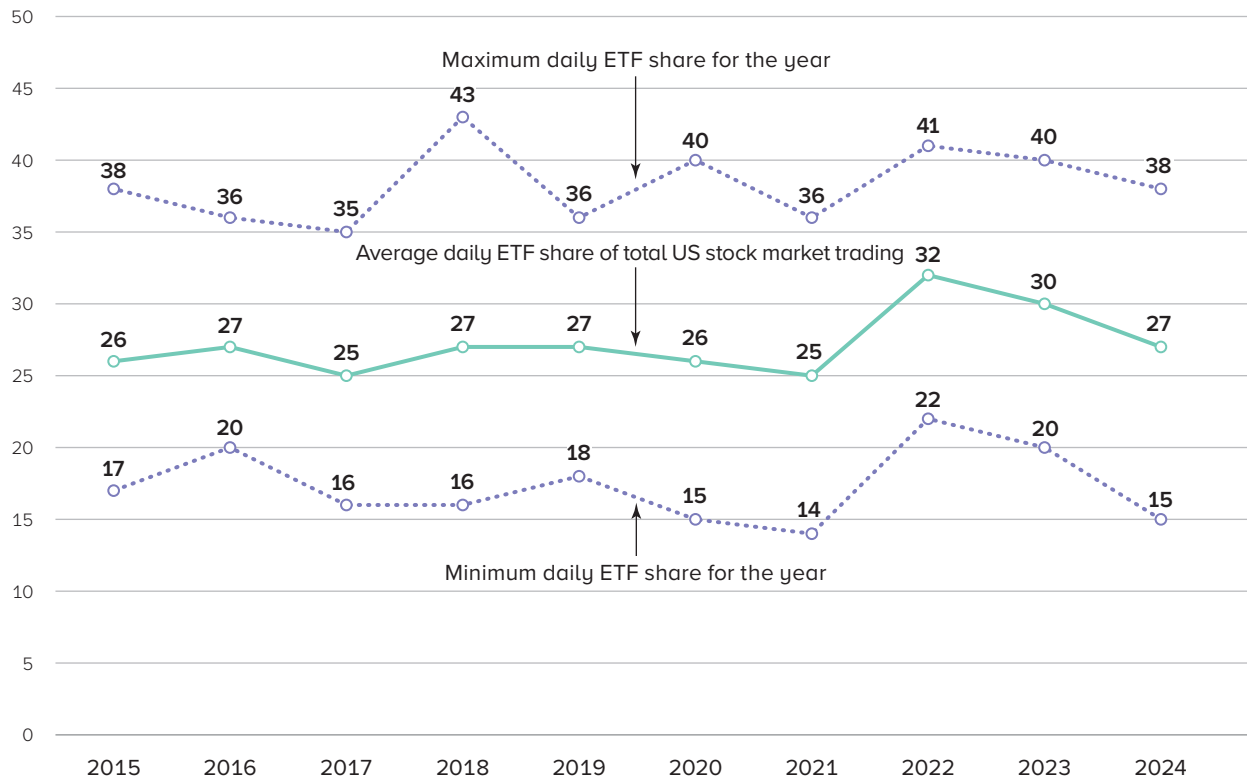
Secondary Market Trading in ETF Shares

Many investors access ETFs through the secondary market (e.g., on an exchange). Although many large institutional investors can access ETFs in both the primary market (i.e., through creations and redemptions of ETF shares via an AP) and the secondary market, retail investors generally can access them only in the secondary market. ETF investors trading in the secondary market generally are not motivated by arbitrage. They are using ETFs to gain or reduce exposure to specific asset classes or investment strategies, diversify their portfolios, or hedge investment risks. Thus, these funds provide investors with an efficient means to transfer risk. Therefore, it is not surprising that ETF secondary market trading volumes (as measured by the value of shares traded) are a substantial share of total trading on US stock exchanges and other venues. But despite tremendous growth in ETFs in the past decade, their average daily share of total stock market trading remained relatively flat through 2021 (Figure 4.2). In 2022, ETFs' share of trading volume increased to 32 percent, which was likely related to elevated market volatility. This share decreased to 30 percent in 2023 and 27 percent in 2024 as market volatility abated.

During periods of market turbulence, ETF secondary market trading volumes rise—both in absolute terms and as a share of total stock market trading—as investors, especially institutional investors, turn to ETFs to quickly and efficiently transfer and hedge risks. For example, in late 2018, stock market volatility jumped, largely reflecting market participants' concerns about slowing global growth and intensifying trade tensions. On December 24, 2018, when the S&P 500 index neared bear market territory following its September peak, ETF trading volume accounted for 43 percent of total stock market trading—its highest share in the past decade (Figure 4.2). More recently, the regional banking crisis in March 2023 strained financial markets. During this period, ETF trading volumes' share of total stock market trading rose, peaking at 40 percent on March 10, 2023, the day Silicon Valley Bank was shut down and placed under Federal Deposit Insurance Corporation (FDIC) receivership (the first of several regional banks).

FIGURE
4.2

ETF Share of Total Secondary Market Trading Decreased in 2024
Percentage of total US stock market trading volume, annual



Date of maximum

Aug 24 Sep 13 Dec 1 Dec 24 Jan 2 Mar 3 Nov 26 Jun 13 Mar 10 Aug 5

Date of minimum

Jun 26 Jul 28 Jun 23 Jun 22 Nov 26 Dec 18 Jun 25 Dec 16 Sep 15 Jun 21

Sources: Investment Company Institute, Bloomberg, Refinitiv, and Cboe Exchange, Inc.

Most ETF activity is conducted in the secondary market (trading ETF shares) rather than the primary market (creations and redemptions of ETF shares through an AP). On average, 83 percent of the total activity in ETFs occurred on the secondary market in 2024. Even for ETFs focused on narrower asset classes—such as emerging market equity, domestic high-yield bond, and emerging market bond—the bulk of the trading occurred on the secondary market (95 percent, 83 percent, and 94 percent, respectively).*

Most ETF secondary market trades represent investors exchanging shares of ETFs among themselves. Unlike primary market activity, these trades do not affect the ETF’s underlying securities. In 2024, domestic equity ETFs had a total of \$7.0 trillion in primary market activity, which represented only 6.2 percent of the \$112.5 trillion traded in company stocks during the year (Figure 4.3). Even in years with significant market volatility, such as 2018, 2020, and 2022, creations and redemptions of domestic equity ETFs accounted for only a modest share of trading in company stocks.

FIGURE
4.3

Domestic Equity ETFs Have Had Minimal Impact on Underlying US Stocks

Annual

	Domestic equity ETF primary market activity* Trillions of dollars	Value of company stock traded Trillions of dollars	Domestic equity ETF primary market activity as a share of company stock traded Percent
2015	2.5	51.3	4.9
2016	2.2	49.7	4.4
2017	2.2	51.3	4.2
2018	3.5	65.1	5.4
2019	2.9	59.4	5.0
2020	4.2	88.9	4.7
2021	4.9	106.3	4.6
2022	5.2	97.0	5.3
2023	4.9	90.6	5.5
2024	7.0	112.5	6.2

* Primary market activity is measured as the total of gross issuance and gross redemptions.

Sources: Investment Company Institute, Bloomberg, Refinitiv, and Cboe Exchange, Inc.

* Based on ICI calculations of data from ICI and Refinitiv.

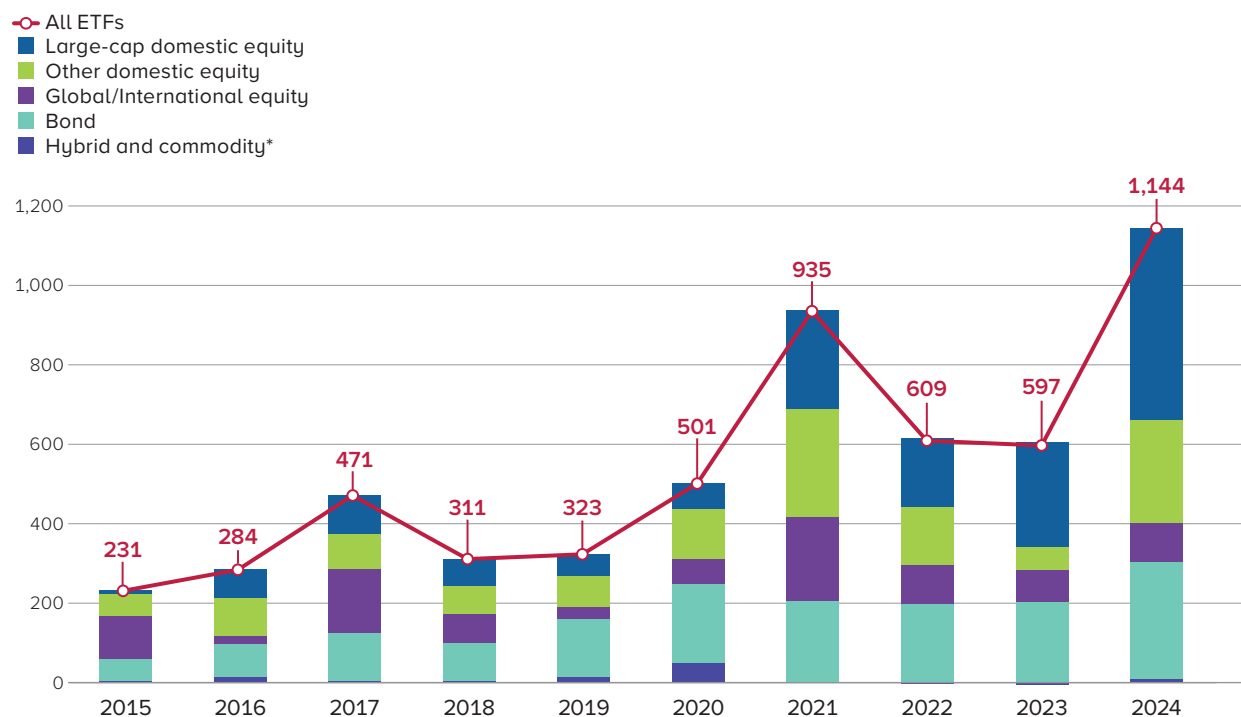
Demand for ETFs

In recent years, demand for ETFs has grown as institutional investors have found ETFs to be a convenient vehicle for participating in, or hedging against, broad movements in the stock market and financial advisers have invested more of their retail clients' assets in ETFs (see Figure 3.10). Net issuance of ETF shares (including reinvested dividends) surged to a record \$1.1 trillion in 2024, up from a robust \$597 billion in 2023 (Figure 4.4).

FIGURE
4.4

Net Share Issuance of ETFs Surged to a Record \$1.1 Trillion in 2024

Billions of dollars, annual



* Commodity ETFs include funds—both registered and not registered under the Investment Company Act of 1940—that invest primarily in commodities, currencies, and futures.

Note: Data for net share issuance include reinvested dividends.

Demand for ETFs increased across all asset classes in 2024. For example, net issuance of domestic equity ETFs rose sharply from \$319 billion in 2023 to \$742 billion in 2024, and net issuance of global/international equity ETFs increased from \$83 billion in 2023 to \$97 billion in 2024. The higher demand for domestic equity ETFs likely reflected the stronger performance of US stocks in 2024 (24 percent^{*}) compared with international stocks (6 percent[†]). Demand for bond ETFs, likely boosted by the aging of Generation X and the Baby Boom, also increased in 2024, with net share issuance increasing from \$201 billion in 2023 to \$295 billion in 2024.

* As measured by the FT Wilshire 5000 Total Return Index.

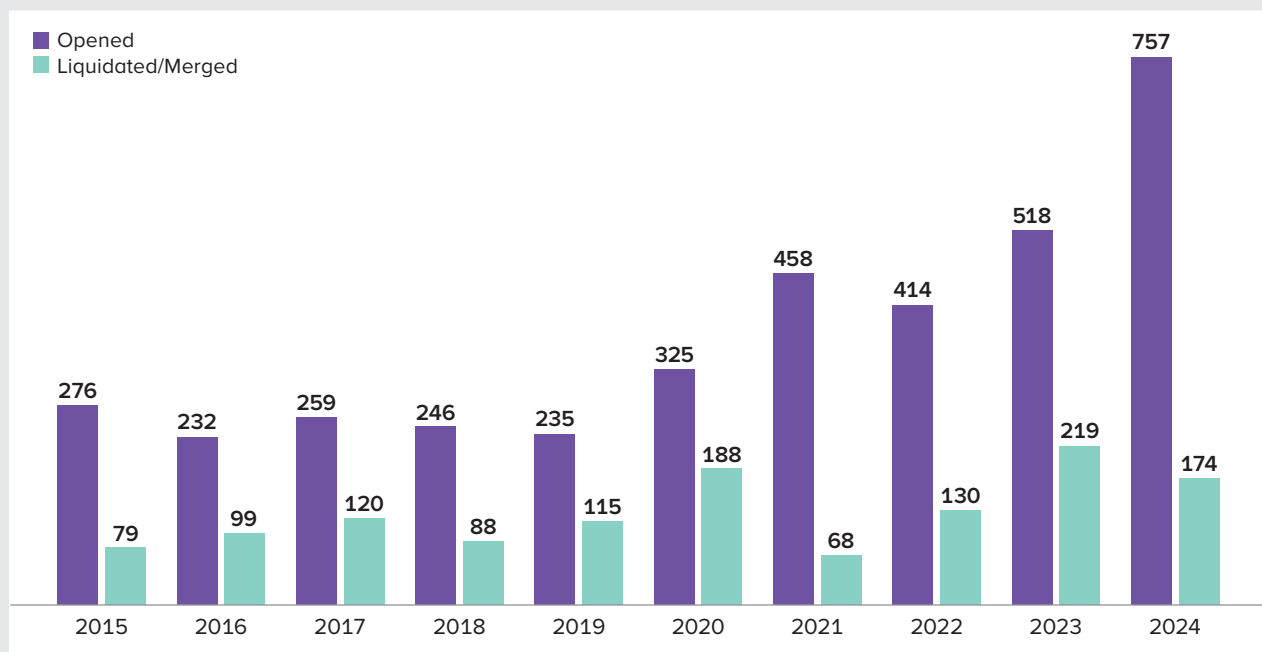
† As measured by the MSCI ACWI Ex USA Index (expressed in US dollars).

More brokers and financial advisers using ETFs in their clients' portfolios has contributed to the growing popularity of ETFs. In 2023, full-service brokers and fee-based advisers had 31 percent and 45 percent, respectively, of their clients' household assets invested in ETFs, up sharply from 9 percent and 18 percent in 2013 (see Figure 3.10). Additionally, in recent years, some of the net share issuance represents mutual funds converting to ETFs. From the beginning of 2021 through 2024, 130 mutual funds, which held \$78 billion in total net assets at the time of conversion, have converted to ETFs. These conversions, however, represented only 2.4 percent of ETFs' net issuance (\$3.3 trillion) over the same period.

Strong investor demand for ETFs has led to a substantial increase in the number of ETFs created by fund sponsors, with 3,720 new ETFs offered to investors in the past decade (Figure 4.5). Over the same period, 1,280 ETFs were liquidated or merged with another fund. In any given year, fund sponsors liquidate or merge ETFs that have failed to attract sufficient demand. In 2024, 757 ETFs—mostly equity ETFs—were launched. Meanwhile, 174 ETFs were liquidated or merged as sponsors eliminated some global/international equity ETFs from their lineups.

FIGURE
4.5

Number of ETFs Entering and Exiting the Industry



Note: Data include ETFs that invest primarily in other ETFs.

Characteristics of ETF-Owning Households

About 13 percent of US households (16.9 million) held ETFs in 2024 (see Figure 7.1). Households that own ETFs come from all demographic groups—nearly half are 35 to 64 years old—and more than two-thirds are employed (Figure 4.6). ETF-owning households are often focused on saving for retirement: 82 percent had IRAs, 78 percent had DC plan accounts, and 78 percent indicated that saving for retirement is a household financial goal for their ETF investments. Indeed, nearly six in 10 ETF-owning households indicated that they held ETFs in their IRAs.

In 2024, the vast majority of ETF-owning households reported that they invest in ETFs for diversification and their cost-effectiveness (Figure 4.6). More than nine in 10 ETF-owning households indicated they appreciate their ability to sell their ETF shares any time during the day.

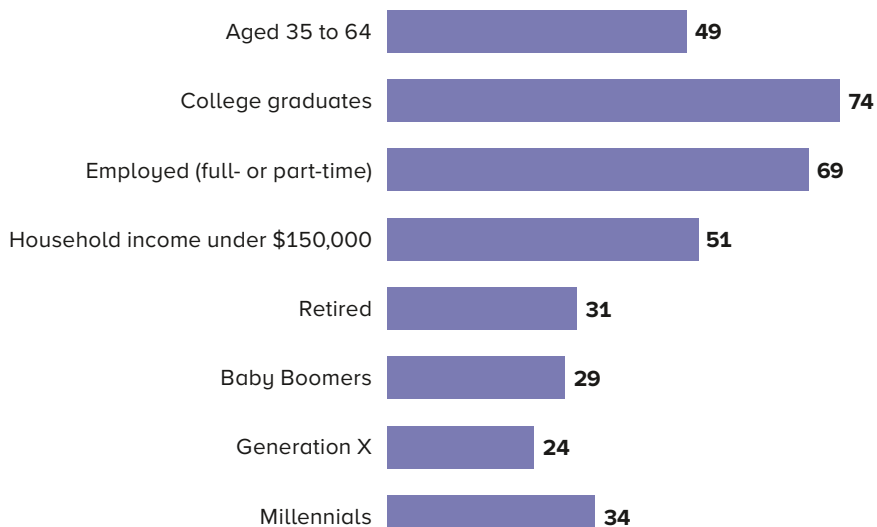
ETF-owning households tended to include investors who owned a range of equity and fixed-income investments. Of households that owned mutual funds, 20 percent also owned ETFs. Conversely, 84 percent of ETF-owning households also owned mutual funds (Figure 4.6).



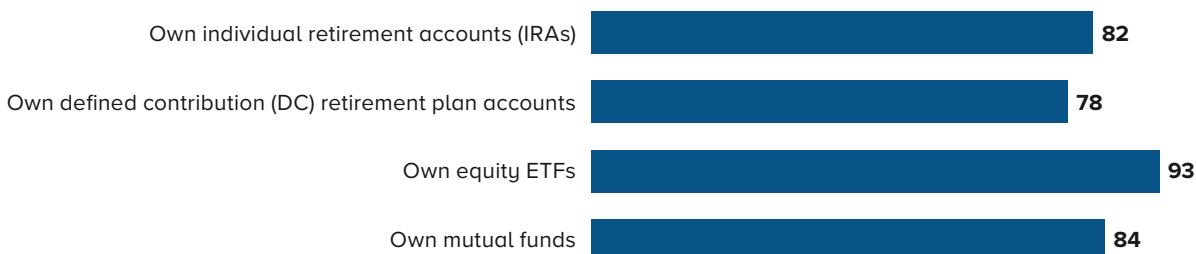
FIGURE
4.6

ETF-Owning Households Are from All Demographic Groups
Percentage of ETF-owning households, 2024

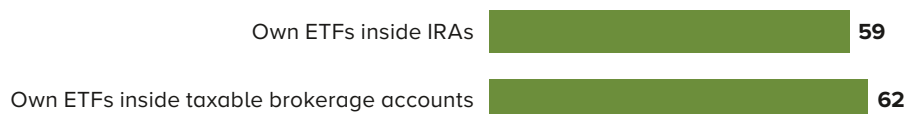
Who are they?



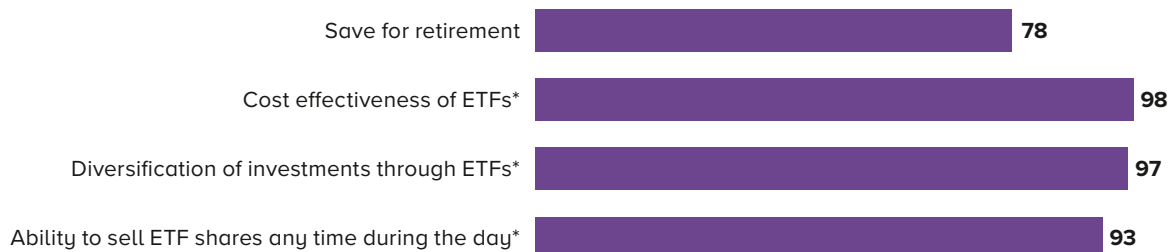
What do they own?



Where do they hold ETFs?



Why do they invest in ETFs?



* Percentage of ETF-owning households indicating the feature was "very important," "somewhat important," or "not very important" in their ETF purchase decision.

Source: ICI Research Data Release, "Profile of ETF-Owning Households, 2024"

Some ETF-owning households' characteristics are similar to those of mutual fund-owning households and those that own stocks directly. For instance, ETF-owning households—like mutual fund-owning households and those owning individual stocks—tended to have household incomes above the national median (Figure 4.7).

ETF-owning households also exhibit certain characteristics that distinguish them from other households. For example, ETF-owning households tended to be more likely to own individual retirement accounts (IRAs) than households that own mutual funds or those that own individual stocks (Figure 4.7). Additionally, more than one-third of ETF-owning households were Millennials, compared with one-quarter of mutual fund-owning households.

ETF-owning households also indicated they were more willing to take investment risk. In 2024, 51 percent of ETF-owning households were willing to take substantial or above-average investment risk compared with 24 percent of all US households and 32 percent of mutual fund-owning households (Figure 4.7). This result aligns with the predominance of equity ETFs, which make up 81 percent of ETF total net assets (Figure 4.1). Investors who are more willing to take investment risk are more likely to invest in equities. Indeed, 93 percent of ETF-owning households owned equity ETFs (Figure 4.6), compared with 80 percent of mutual fund-owning households owning equity mutual funds (see Figure 7.2).

FIGURE
4.7

Characteristics of ETF-Owning Households
2024

	All US households	Households owning ETFs	Households owning mutual funds	Households owning individual stocks
Median				
Age of household survey respondent	52	49	55	54
Household income ¹	\$80,000	\$140,000	\$115,000	\$125,000
Household financial assets ²	\$90,000	\$500,000	\$300,000	\$400,000
Percentage of households				
Household survey respondent				
Millennials	29	34	25	28
Married or living with a partner	64	72	72	72
College or postgraduate degree	40	74	54	60
Employed (full- or part-time)	58	69	65	63
Retired from lifetime occupation	32	31	34	35
Household owns				
IRA(s)	44	82	68	72
DC retirement plan account(s)	59	78	82	78
Household's willingness to take financial risk				
Substantial risk for substantial gain	5	10	5	7
Above-average risk for above-average gain	19	41	27	33
Average risk for average gain	39	39	49	46
Below-average risk for below-average gain	11	7	11	9
Unwilling to take any risk	26	3	8	5

¹ Total reported is household income before taxes in 2023.

² Household financial assets include assets in employer-sponsored retirement plans but exclude the household's primary residence.