

# J.P. Morgan ETF Foundations

Building a stronger understanding of exchange-traded funds

### Welcome to the fast-growing world of ETFs

Dramatic changes are happening in the investing world, thanks to the explosive growth of exchange-traded funds (ETFs).

Each day, more and more investors are discovering how ETFs enable them to conveniently make trades, flexibly access markets, broadly diversify portfolios and efficiently manage fees and taxes.

### What are ETFs? How do they work? Could they be right for you?

Together with your financial professional, this guide explores those questions to help you make more informed decisions and the most of your investments.

## What's inside

### Learn the basics of ETFs Explore advanced ETF topics 26 6 What are ETFs? Why do ETFs trade at premiums and discounts? 28 8 Can ETFs handle large trades? Why are ETFs growing so fast? 10 How does an ETF work? Summary 30 14 What types of ETFs are available? ETFs at a glance 22 How are investors using ETFs?



Learn the basics of ETFs

## What are ETFs?

# Bringing all-day trading to mutual fund investing

ETFs and mutual funds both bundle securities into diversified pools. But ETFs are bought and sold on an exchange, like a stock, giving investors access to markets and their money throughout the trading day.

### ETFs are mutual funds that trade like stocks1

Investing was once reserved for a select few with the wealth and expertise to build their own portfolios. That all changed in 1924 with the debut of the mutual fund. For the first time, ordinary people with little to invest could pool their money into broadly diversified, professionally managed "baskets" of stocks and bonds.

Over the decades, mutual funds grew in size and popularity. Then along came "Black Monday" in 1987, when a perfect storm of events caused market liquidity to dry up — there were too many sellers and not enough buyers. As a result, U.S. stocks plunged more than 20% in a single day.

In reviewing what went wrong, U.S. regulators made an observation that would change the investing world. They suggested that if a mutual fund-like vehicle had been available for trading throughout the day, it may have eased or even prevented the crash. Six years later, the first ETF was born. Today, ETFs continue to provide easy trading along with other valuable benefits.

<sup>&</sup>lt;sup>1</sup> ETFs and Mutual Funds are different investment vehicles. ETFs are funds that trade like other publicly traded securities. Similar to shares of an index mutual fund, each ETF share represents an ownership interest in an underlying portfolio of securities and other instruments typically intended to track a market index. Unlike shares of a mutual fund, shares of an ETF may bought and sold intra-day.

### ETFs are growing rapidly

ETF market cap has grown more than 400% since 2016.

### Number of ETFs and total ETF assets



Source: ASX Monthly Investment Product Summary. Data from 6/2016 to 6/2022. Shown for illustrative purposes only.

# Why are ETFs growing so fast?

### How fast are ETFs growing?

If you saved USD 1 million every hour of every day, it would take you nearly 700 years to reach USD 6.1 trillion. ETFs got there in just 25 years.

### ETFs offer three unique features

With \$121 billion in investor assets in Australia, ETFs are well on their way to becoming household products, just like mutual funds. They offer the same all-in-one diversification and professional management of funds, along with some unique features and capabilities.



#### Efficient:

ETFs allow investors to access professionally managed portfolios in a cost-effective way.



#### Tradable:

ETFs can be easily traded throughout the day and turned into cash as needed.



#### Flexible:

ETFs offer access to virtually every market worldwide — with the flexibility to quickly move in and out of them as conditions change.

Diversification does not guarantee investment returns and does not eliminate the risk of loss. Diversification among investment options and asset classes may help to reduce overall volatility.

<sup>&</sup>lt;sup>2</sup> Source: Morningstar. Data as of 9/30/21.

#### PART 1

### How does an ETF work?

### Why does liquidity matter?

When ETFs are liquid, it's less likely investors will have to pay more to buy shares or accept less to sell — both of which can reduce returns.

### ETFs are easy to buy and sell

"Liquidity" describes how quickly and easily an investment can be traded without significantly affecting its price. Low liquidity can be a risk because investors may be forced to accept less favourable prices if there aren't enough interested buyers or sellers.

Those concerns don't usually apply to ETFs, even if they have very little trading activity.

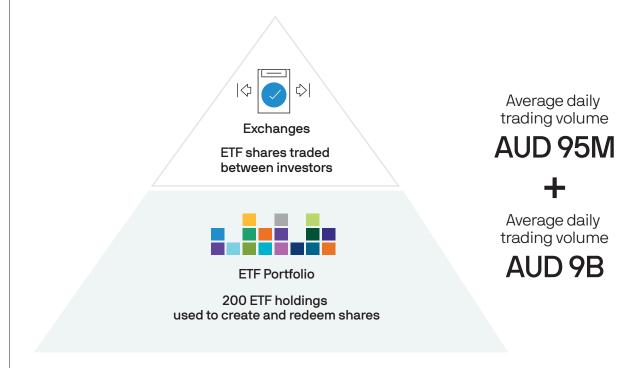
Like stocks, ETFs are traded on exchanges, at negotiated prices that change throughout the day. Unlike stocks, the supply of ETF shares isn't fixed and can change at any time to meet investor demands. When sellers outnumber buyers, for example, ETF shares can be removed from the market to help correct the imbalance and minimise any disruptions to their price.

ETFs do this by tapping into the trading power of their portfolio holdings. Remember, ETFs are "baskets" usually made up of hundreds of different securities. Even if the ETF itself is lightly traded, it would still be liquid if its underlying basket of securities were actively bought and sold.

Risk management does not imply elimination of risks.

# ETFs offer more liquidity than meets the eye

### Average ETF tracking the ASX S&P 200 Index



Source: J.P. Morgan Asset Management. Shown for illustrative purposes only. Data as at Sep 2022.

#### PART 2

## How does an ETF work?

### Know your terms

Market maker: A dealer that buys or sells at specified prices at all times; also known as liquidity providers.

Primary market: Market where ETF shares are created and redeemed.

Secondary market: An exchange where ETFs are traded (eg ASX).

**Authorised participant:** A broker-dealer that is contracted with the ETF issuer to create or redeem shares on behalf of market makers and institutional investors.

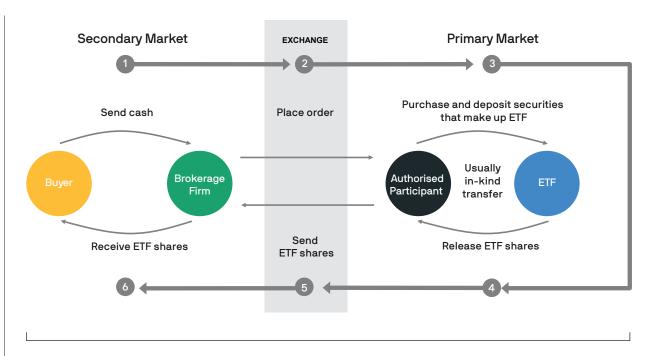
### ETF shares can be created and redeemed as needed

The supply of an ETF's shares can be increased or decreased to help its price reflect the value of its underlying portfolio holdings. Here's what happens when ETF shares are redeemed:

- Market maker buys ETF shares
- Shares are redeemed by sending them through an Authorised Participant (AP) to the ETF issuer, in exchange for the underlying securities
- Market maker sells those securities

As ETF shares are created or redeemed from the market, it helps balance the trading price of the ETF in line with the value of the underlying portfolio. The process happens in reverse when more shares are needed to meet buyers' demands.

# How ETF shares are created and redeemed



Creating and redeeming shares helps ETFs trade at prices close to the market value of their portfolio holdings.

Source: J.P. Morgan Asset Management. Shown for illustrative purposes only.

# What types of ETFs are available?

## Passive? Active? What's the difference?

Passive investing, or "indexing," seeks to match the portfolio holdings and performance of a market benchmark, such as the S&P 500 Index.

Active investing seeks to achieve a specific outcome by picking only those securities considered most attractive.

### ETFs continue to expand and evolve

As market conditions and investor needs change over time, ETF providers are responding with more choices and innovative new approaches. In fact, investors can now access strategies long available through mutual funds, plus others unique to the ETF world.

On one end of the spectrum are purely passive ETFs tracking broad market indexes. On the other end are active ETFs in which managers decide what securities to buy and sell. In the middle are "strategic beta" ETFs that combine elements of both passive and active investing.

#### PART 2

# What types of ETFs are available?

### What is market cap?

It measures a company's size by the total value of all its outstanding stock. Based on market cap, Apple is one of the world's largest companies — and the biggest part of many US and global equity ETFs.

### The early years: Market cap-weighted indexing

The earliest ETFs tracked traditional market cap-weighted indexes and are still among the most commonly used today. At first, they invested mainly in large U.S. stocks but have since expanded to also cover other markets, bonds and other asset classes.

#### What are they?

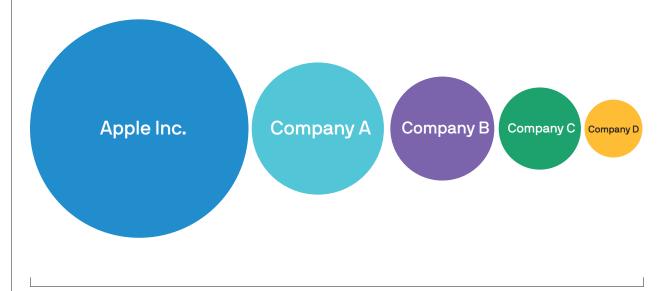
Market cap weighting is simply the process of building a portfolio based on company size. Bigger companies make up more of the portfolio, smaller companies make up less. The S&P 500 is a good example of a market cap-weighted index. ETFs tracking that index seek to earn very similar returns by investing in the same companies, in the same proportions.

#### Why do investors own them?

They offer an easy, low-cost way to buy the entire market, without deviating in any way from an index.

Market cap
weighting:
Building ETF
portfolios based on
company size

### Market caps of companies in the S&P 500 Index



Bigger companies make up a bigger part of market cap-weighted ETFs.

Source: J.P. Morgan Asset Management. Shown for illustrative purposes only.

# What types of ETFs are available?

#### What are factors?

Factors are characteristics that help explain a stock's return and risk over time. For example, undervalued stocks tend to outperform expensive ones. Single-factor ETFs focus on one of those characteristics when screening stocks while multi-factor ETFs combine several together.

### The first evolution: strategic beta ETFs

Like the first ETFs, strategic beta also tracks an index, but the index isn't market cap-weighted and often represents a subset of a larger investment universe. These strategies often seek higher returns and/or lower risks than traditional indexing.

#### What are they?

Strategic beta ETFs use criteria other than company size to determine portfolio holdings. Some weight stocks equally. Some screen for stocks with specific characteristics, or "factors," such as low valuations, strong earnings or price momentum. And some do both.

#### Why do investors own them?

Strategic beta ETFs can combine the efficiencies of index investing with enhanced portfolio or security selection. Investors might choose them to pursue a specific goal, fill portfolio gaps or capture short-term opportunities as they arise.

Risk management does not imply elimination of risks.

#### PART 4

# What types of ETFs are available?

## Active ETFs expand investor choices

Not all markets can be easily duplicated with a passive index. Active ETFs offer investors access to opportunities that might be missing from their portfolios.

### The latest evolution: Actively managed ETFs

Active ETFs rely on investment professionals to pursue a specific outcome — for example, generating income, outperforming a passive index or reducing risk.

#### What are they?

Portfolio managers oversee active ETFs, usually with support from a team of analysts. Together, they study potential investments and choose those high conviction ideas.

#### Why do investors own them?

For some, active ETFs offer the best of both worlds — the easy trading and low cost of an ETF, plus the experience and expertise of fund managers. This human element gives active ETFs more flexibility in pursuing returns and managing risks. During volatile times, for example, managers can take defensive measures aimed at limiting losses versus an index.

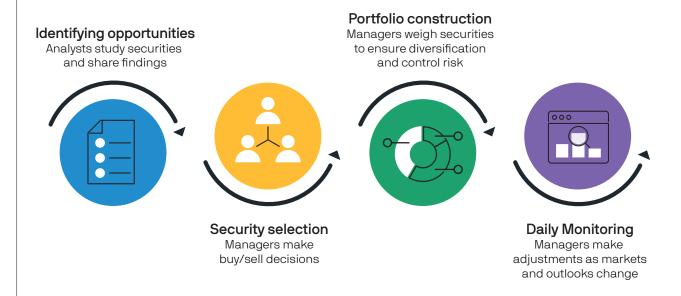
Risk management does not imply elimination of risks. There is no guarantee the investments would meet their stated objectives.

#### 16 J.P. Morgan ETF Foundations

The information is general and educational in nature and does not take into account any specific investor's objectives or circumstance. Investments involve risks and are not similar or comparable to deposits. Not all investments are suitable for all investors. Investors should seek financial advice and make independent evaluation before making any investment decisions.

Active ETFs: Capturing insights and manager expertise

### Managed by people, focused on outcomes



Source: J.P. Morgan Asset Management. Shown for illustrative purposes only. There is no guarantee the investments would meet their stated objectives. Diversification does not guarantee positive returns or eliminate risks of loss.

# How are investors using ETFs?

# Consult a financial professional

A financial professional can help you decide whether to invest in ETFs, which ones to consider and where they best fit in your portfolio.

### A wide range of uses

The variety and versatility of ETFs allow them to play a number of different roles in an investor's portfolio:

- Their ability to mirror broad stock and bond indexes make them good "building blocks" for a core portfolio.
- ETFs targeting specific regions, sectors and strategies can be used in several ways to enhance diversification. For example, they can complement core holdings, fill gaps, realign an unbalanced portfolio or provide access to otherwise hard-to-reach markets.
- Investors are also using ETFs to reduce costs, and because ETFs can be traded quickly and easily throughout the day, they're effective vehicles for moving in and out of markets as new opportunities and risks arise.

Risk management does not imply elimination of risks. There is no guarantee the investments would meet their stated objectives. Diversification does not guarantee positive returns or eliminate risks of loss.

### Investors are building stronger portfolios with **ETFs**



Shown for illustrative purposes only.



# Explore advanced ETFs topics

# Why do ETFs trade at premiums and discounts?

### Know your terms

Net asset value (nav): Value of all underlying ETF holdings; calculated once per day after markets close.

Intraday net asset value (iNAV): Value of all underlying ETF holdings; calculated every 15 seconds during the trading day.

Market price: Price at which ETF shares are bought and sold throughout the trading day.

Premium: Occurs when an ETF trades above its NAV

Discount: Occurs when an ETF trades below its NAV.

### Price discrepancies are not usually cause for concern

Many investors worry when an ETF trades above or below the value of its underlying securities. In most cases, however, these "premiums" and "discounts" result from factors that have little or nothing to do with an ETF's investment strategy, such as:

- Differences in time zones between markets
- Different methods for pricing underlying securities in bond ETFs
- Light trading volume for the ETF

No matter what the cause, the process of creating and redeeming shares helps move ETF prices closer to basket value. As a result, premiums and discounts don't typically get too big or last too long.

# Can ETFs handle large trades?

# What is "bid/ask spread" and why does it matter?

**Bid** is the highest price a buyer is willing to pay for an ETF.

Ask is the lowest price a seller is willing to accept.

**Spread** is the difference between the two. Narrow spreads are usually a sign that ETFs are heavily traded.

### Big trades usually have little impact on ETF prices

One of the risks of stock investing is that large trades could "move the market." For example, if someone wants to sell a lot of shares quickly, they may cause the stock price to fall by accepting a lower price to complete the trade.

Does the same thing happen with ETFs? Usually not, thanks to the unique process for creating and redeeming shares as needed.

If a large buy order comes in, new shares can be created to meet the demand. If a large sell order comes in, shares can simply be removed from the market to reduce supply. In both cases, the dozens or hundreds of different securities inside an ETF's basket provide the trading power needed to handle large transactions.



Summary: ETFs at a glance

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#### Want to learn more about ETFs?

- Consult your financial professional
- Visit am.ipmorgan.com/au/etf-investing

#### ETFs are mutual funds that trade like stocks

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### What makes ETFs unique?



#### Efficient:

Allow investors to access professionally managed portfolios in a cost-effective way.



#### Tradable:

Can be easily traded throughout the day and turned into cash as needed.



#### Flexible:

The flexibility to quickly move in and out of markets as conditions change.

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