# ASSET MANAGEMENT

Fintech 520 November 15, 2022

## WHAT IS ASSET MANAGEMENT?

- Asset Management refers to the <u>professional management of</u> <u>investment funds</u> for individuals, families, and institutions
- Investments include stocks, bonds, convertibles, alternative assets, commodities, and money market investments
- Asset managers specialize in different asset classes
- Fees are typically paid based on the asset class and assets undermanagement (AUM)

## TYPES OF ASSET MANAGERS

#### **Mutual Fund Companies**

- A <u>mutual fund</u> is a <u>professionally managed collective investment vehicle</u> allowing investors to pool financial resources to purchase a diversified portfolio of assets designed to meet a specified financial goal or objective
- Types of Mutual Funds include Open-ended Investment Companies, Closedended Investment Companies, Unit Investment Trusts, and Exchange-traded Funds

## TYPES OF ASSET MANAGERS

- Separate Account Managers
- *Institutional* invest on behalf of pensions, endowments, foundations, Central Banks, Sovereign Wealth Funds, insurance companies, corporations and other institutions
- Individuals invest primarily for high-net-worth individuals, including trusts

## TYPES OF ASSET MANAGERS

#### **Alternative Asset Managers**

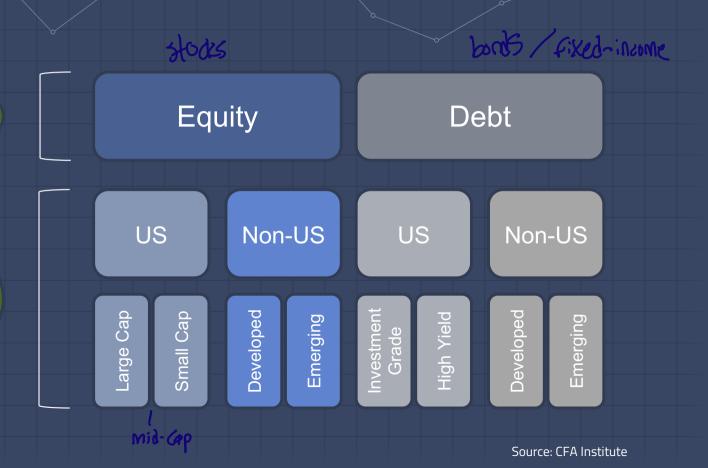
Professionally manage <u>portfolios with limited constraints</u>, often composed of <u>non-traditional asset classes</u>, including real estate, commodities, private equity, venture capital, and hedge funds

## ASSET CLASSES

**Asset-class Level** 

Sub-asset-class Level

Many common risk factors result in substantially positive correlations



## **ASSET ALLOCATION**

#### Strategic Asset Allocation

- Arises from long-term investment planning
- Expected to be effective in achieving an asset owner's investment objectives, given their investment constraints and risk tolerance
- Typically documented in an investment policy statement

#### **ASSET ALLOCATION**

#### **Tactical Asset Allocation**

- Involves deliberate short-term deviations from a strategic asset allocation
- Whereas a strategic asset allocation incorporates an investor's long-term market expectations, tactical asset allocation is <u>designed to exploit</u> <u>perceived deviations from equilibrium</u>
- Key barriers to successful tactical asset allocation are monitoring and trading costs, including higher short-term capital gains taxes

wash sales - cart buy lock for 30 days

#### **Active Investing**

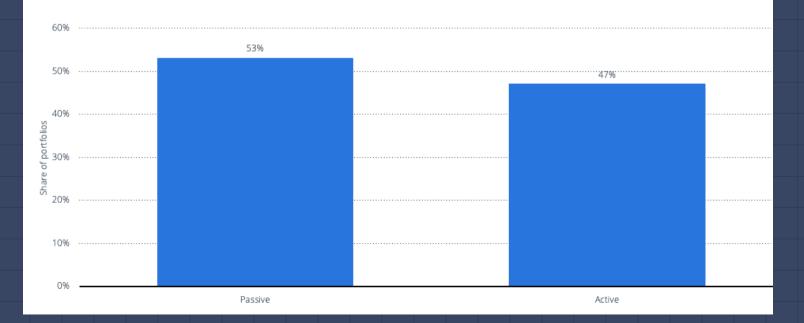
- Active investing is a hands-on approach to making decisions about where and how to invest
- The aim is the outperform a passive benchmark index that is composed of securities with similar characteristics
- Active managers respond to changing capital market expectations or to investment insights resulting in changes to portfolio composition
- The objective is to achieve, after expenses, positive excess risk-adjusted returns relative to a benchmark

#### **Passive Investing**

- A long-term strategy in which investors buy and hold a diversified mix of assets to match, rather than beat, the market
- The most common passive investing approach is to buy an index fund, whose holdings mirror a particular or representative segment of the financial market
- Portfolio composition does not react to changes to capital market expectations or to insights into individual investments (the word passive means not reacting)
- Investors are concerned with minimizing fees and tracking error



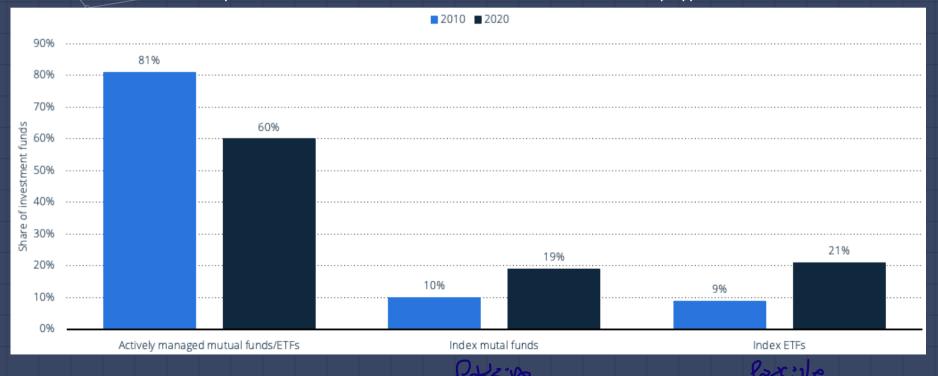
Active versus passive investment portfolios worldwide 2020



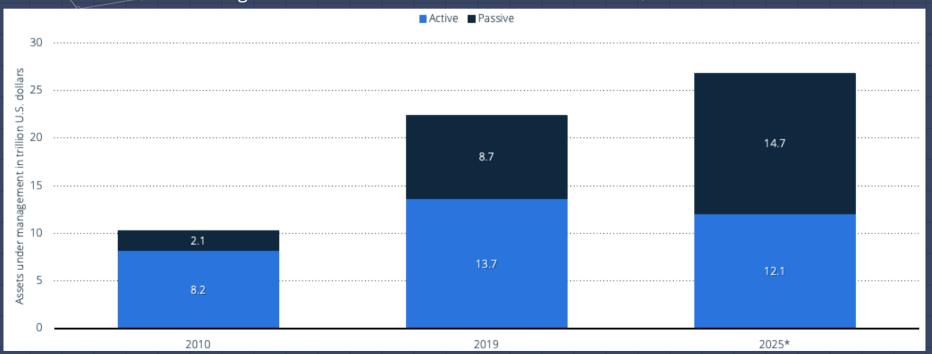
Source: Statista

## ACTIVE VERSUS PASSIVE INVESTING

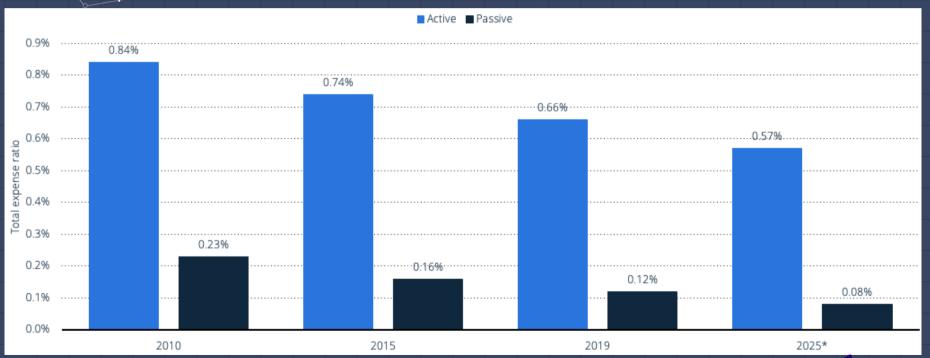
Active vs passive mutual funds in the U.S. 2010 and 2020, by type



Assets under management of U.S. mutual funds in 2010 and 2019, with a 2025 forecast



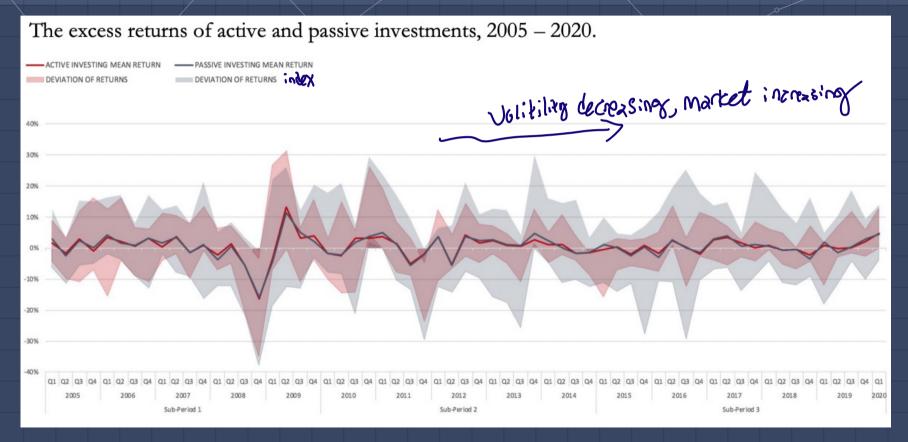
Expense ratio of mutual funds in U.S. in 2010, 2015, and 2019, with a 2025 forecast



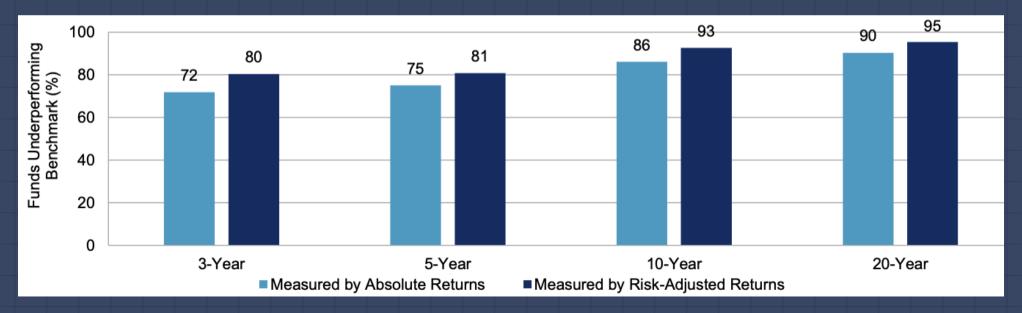
Jargano

Source: Statista

returns almost the same



Among domestic equity funds, while 90% have underperformed the S&P Composite 1500 over the past 20 years, an even greater 95% did so on a risk-adjusted basis



#### Mutual Funds

■ A mutual fund is a professionally managed, pooled investment vehicle

#### Exchange-Traded Funds (ETFs)

- A pooled investment vehicle that trades on an exchange, much like stocks
- Investors buy and sell shares on the secondary market
- Only <u>authorized participants</u> (usually large broker/dealers) buy and sell shares of an ETF directly from the Fund

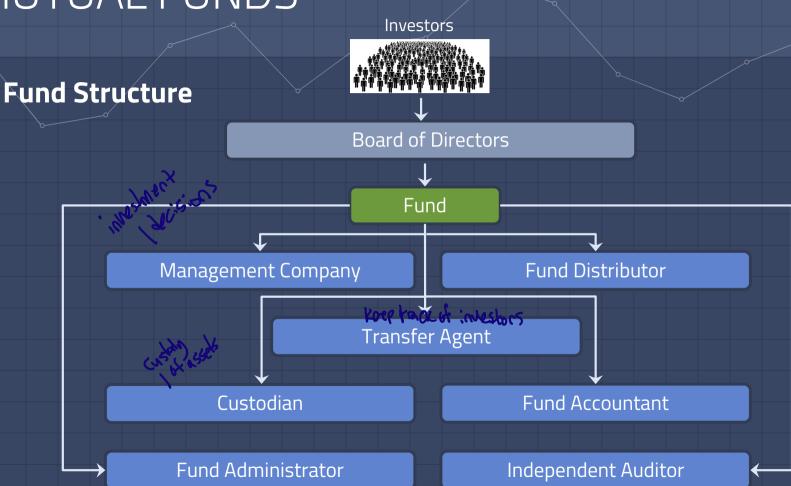
#### **Hedge Funds**

- Professionally managed portfolio of investments that use advanced investment strategies such as leveraged, long, short and derivative positions with the goal of generating high returns
- Typically geared towards accredited individual investors and institutions

#### **Private Capital**

- Private equity (PE) funds invest in companies, whether startups or established firms, that are not listed on a public exchange, or they invest in public companies with the intent to take them private
- Venture capital (VC) funds, a specialized form of private equity, typically invest in or provide financing to startup or early-stage companies with high growth potential
- Private debt largely encompasses debt provided to private entities, including direct lending, mezzanine loans, venture debt, and distressed debt

- A <u>mutual fund</u> is a professionally managed, pooled investment vehicle
- Invests in a portfolio of securities (stocks, bonds, money market funds, commodities, even other mutual funds)
- Managed by a fund manager who makes investment decisions based on a documented investment objective
- Overseen by a Board of Directors
- Priced at the end of each trading day (called the 'Net Asset Value' or NAV)



#### What is the Governing Authority within the Management Structure?

- The Board of Directors ("Board") is the governing authority within the management structure and its members are elected by fund shareholders
- The Board is responsible for the following:
  - Protecting the organization's assets as part of its fiduciary duty
  - Overseeing the fund audit process
  - Approving the use of service providers
  - Reviewing and approving fees that are charged to the funds
  - Review board reporting
  - Approve trading practices and procedures

#### How do investors purchase shares of a mutual fund?

Investors can purchase shares either <u>directly from the fund's distributor</u> or <u>through an intermediary</u> such as a 3rd party broker



**Fund Distributor** 





Intermediary





#### Who facilitates the purchase of shares?

Transfer Agents facilitate investor transactions, maintain shareholder records, and distribute dividends



The largest transfer agents include BNY Mellon and American Stock Transfer and Trust

#### Who holds the securities purchased in safekeeping?

■ A <u>Custodian Bank</u> provides safekeeping of financial securities for an investor, including the related accounting and reporting services

- A Custodian Bank's services include safekeeping of a fund's assets, clearing, receiving dividends and interest from the fund's investments, managing the fund's excess cash, monitoring corporate actions, and tracking loaned securities
- State Street, BNY Mellon, and JP Morgan are among the largest Custodian Banks

Management Company



Instructs Custodian on cash and securities movements

- Management Company and Custodian reconcile accounts daily
- Fund Accountant, Independent Auditors and Fund Administrators reconcile periodically

Custodian



#### Who determines the value of the fund?

- A <u>Fund Accountant</u> calculates the <u>net asset value (NAV)</u> which is the current market value of a fund's holdings minus the fund's liabilities
- The NAV is expressed as a per-share amount and is computed daily by dividing net assets by the number of fund shares outstanding
- The Fund Accountant records all income, such as dividends and interest
- The Fund Accountant accrues and accounts for all fund expenses

#### Who oversees the daily operations of the fund?

The <u>Fund Administrator</u> oversees the daily operations and activities that are carried out in support of the actual process of running a Fund

Fund Administrator Activities				
Set up and launch new funds	Coordination of the valuation process			
Calculation and payment to the transfer agent of dividends and distributions (if required)	Calculation of the total returns and other performance measures of the fund			
Payment of fund expenses	Board reporting			
Preparation of reports for shareholders	Preparation and filing of the fund's prospectus			
Monitoring investment compliance with SEC, prospectus, or U.S. Internal Revenue Code restrictions	Preparation and filing of other SEC filings/reports			

Since Fund Accountants and Fund Administrators work so closely together, these functions are typically part of the same group (or outsourced entity) in order to facilitate the seamless transfer of information

#### Who certifies the Fund's financial statements?

An <u>Independent Auditor</u> examines the fund's financial statements and certifies that they are accurate, truthful, complete and prepared according to a set of accounting standards called "Generally Accepted Accounting Principles" (GAAP)











What fees do investors pay?

Joad - Comission

MR. B16

**Sales Loads** 

The fees that a mutual fund or broker may charge to conduct the transaction

Front Load

Back-end Load

Contingent
Deferred Sales
Charge

No Load

Miscellaneous Fees The percentage of assets that the mutual fund charges to the customer

Management Fee

Marketing (12b-1)

Shareholder Servicing Fee

Other Administrative Fees

#### Benefits of a Mutual Fund

Access to professional investment management

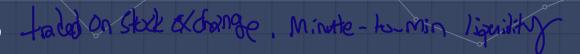
Ability to convert holdings to cash easily (i.e., liquidity)

Diversification

Convenience of buying and selling

Flexibility to fit any investment goal

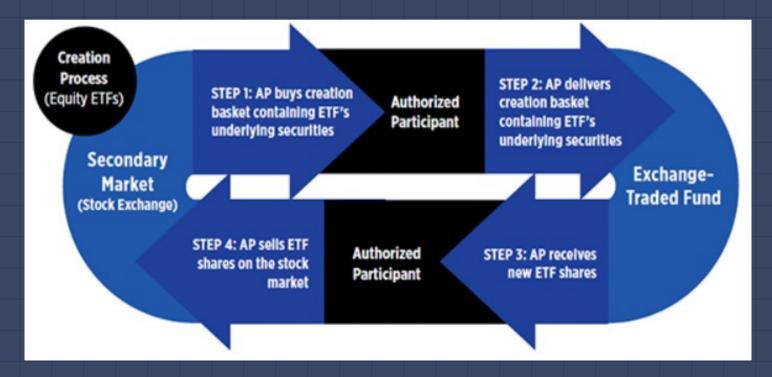
#### What is an ETF?



- An <u>Exchange Traded Fund</u> is a pooled investment vehicle traded on a stock exchange which can hold assets such as stocks, commodities, or bonds
- The price at which an ETF trades over the course of a day can fluctuate either higher or lower than the NAV of its underlying assets
- Authorized Participants create and redeem units of the ETF
- This process provides liquidity, and arbitrage ensures the market price doesn't fluctuate too far from the NAV

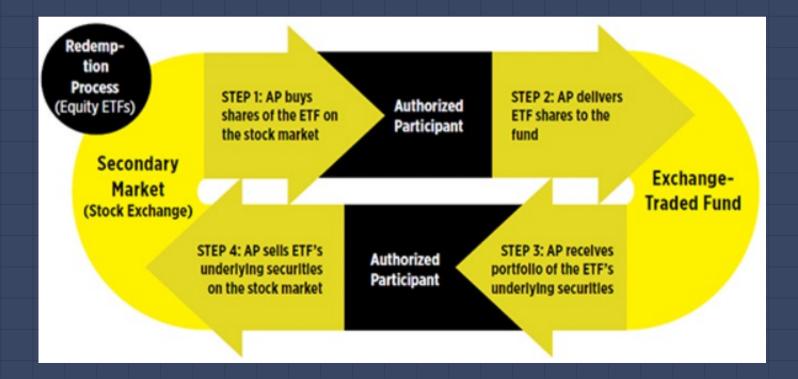
What is the ETF 'creation' process?





What is the ETF 'redemption' process?

discount



#### How do ETFs compare with Mutual Funds?

Exchange-traded Funds		Exchange-traded Funds	Mutual Funds	
Buy	y and Sell	On an exchange throughout the day	Directly through the mutual fund or intermediary	
Val	uations	Trades constantly when the market is open	Priced daily at the market close	
Mir	nimum Investment	Typically, one share	Minimum depends on fund	
Tra	nsparency of holdings	Holdings are typically disclosed daily	Holdings are typically reported quarterly	
Cas	sh position	Generally, there is no cash needed	Most mutual funds maintain cash position to satisfy investor redemptions	
Tax	(Implications	Capital gains are triggered when shares are sold	Capital gains are triggered by fund manager transactions	
Fee	2S	Transaction fee, typically low management fees	Typically, higher depending on management and distribution fees	

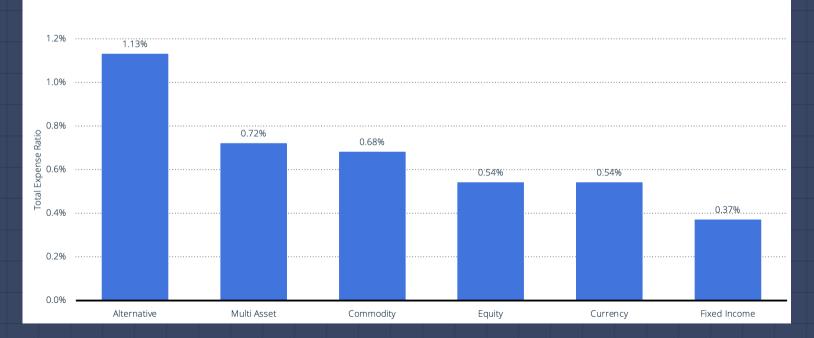
#### Who are the largest ETF companies?

ETF Provider	Assets under Management	Number of ETFs	Average Expense Ratio
BlackRock	\$2,314 billion	392	.18%
Vanguard	\$2,003 billion	82	.05%
State Street	\$974 billion	136	.13%
Invesco	\$375 billion	237	.30%
Charles Schwab	\$261 billion	27	.08%

# EXCHANGE TRADED FUNDS (ETF)

#### What are the expense ratios for the various categories of ETFs?

Total Expense Ratio of Exchange Traded Funds (ETFs) in the United States in 2016, by asset class Total Expense Ratio of ETFs in the U.S. 2016, by asset class



## EXCHANGE TRADED FUNDS

#### **Benefits of ETFs**

Tax efficiency

Lower transaction and management fees

Intraday trading

**Greater transparency** 

#### What is a **Hedge Fund?**

By simple definition, hedge funds are pooled investment vehicles that can invest in a wide variety of products, including derivatives, foreign exchange, and publicly traded securities

#### **Hedge Funds** have the following characteristics:

- 1. Lower legal and regulatory constraints "sophisticaled investors"
- 2. Flexible investment mandates permitting use of shorting and derivatives
- 3. A larger investment universe on which to focus
- 4. Aggressive investment styles that allow for concentrations and exposures to credit, volatility, and liquidity risk premiums
- 5. Relatively liberal use of leverage
- 6. Liquidity constraints that include lock-ups and liquidity gates
- 7. Relatively high fee structures involving management and incentive fees

#### What are Hedge Fund strategies by category?

Equity

Event-driven

Relative Value

Opportunistic

Specialist

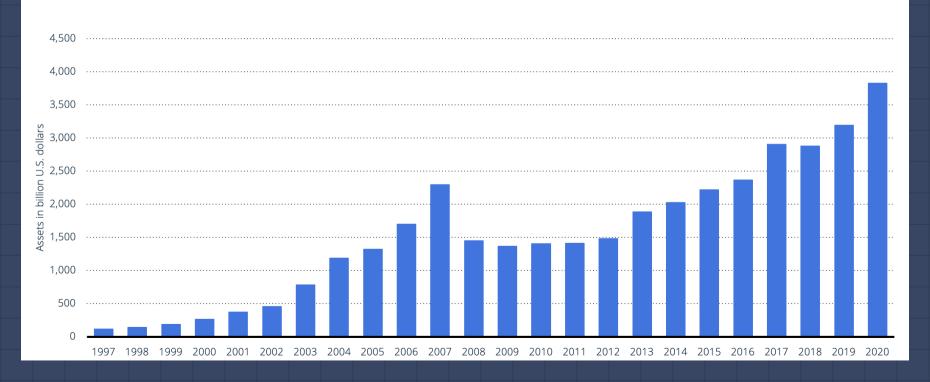
Multi-manager

- Long/short Equity
- Dedicated Short Bias
- Equity Market Neutral
- Merger Arbitrage
- Distressed Securities

- Fixed-income Arbitrage
- Convertiblebond Arbitrage
- Global Macro
- Managed
   Futures

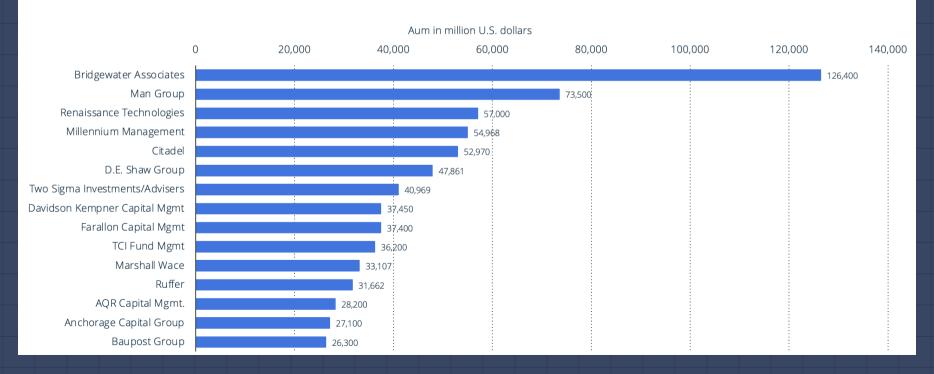
- Volatility Strategies
- Reinsurance Strategies
- Multi-strategy
- Fund-of-Funds

Value of assets managed by hedge funds worldwide from 1997 to 2020 (in billion U.S. dollars) Assets under management of hedge funds worldwide 1997-2020



Assets under management of the largest hedge fund firms worldwide in June 2022 (in billion U.S. dollars)

Aum of the largest hedge fund firms globally 2022



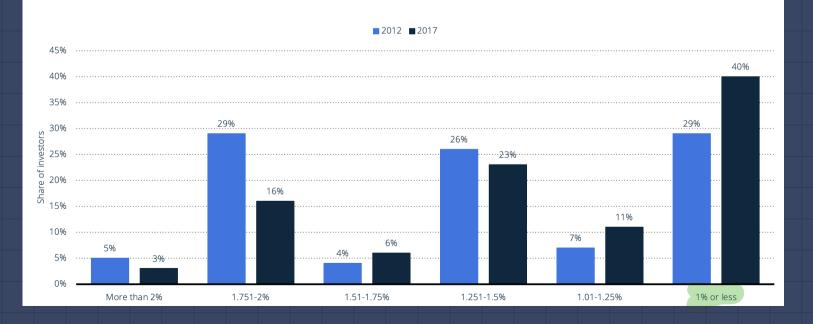
See Pressure

## What fees do Hedge Funds charge?

doesn't include profit-sharing fee

Distribution of management fees of hedge funds worldwide in 2012 and 2017

Distribution of hedge fund management fees globally 2012-2017



## Benefits of Hedge Funds

Diversification

Enhance risk-adjusted returns

Exposure to a wider variety of asset classes

Access to exceptional managers

Lower legal and regulatory constraints

#### What is **Private Equity?**

- Private equity as an asset class is an ownership interest in a private (non-publicly-traded) company
- Private equity refers to equity capital raised via a private placement rather than through a public offering

## How can **Private Equity** be classified?

- 1. Venture Capital
- 2. Growth
- 3. Buyout
- 4. Special Situations

not tested on anything wason this side.

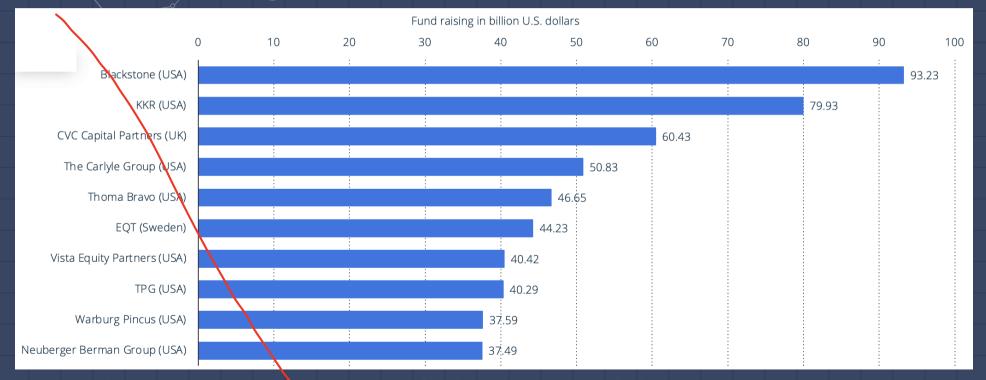
Broad Category	Subcategory	Brief Description		
	Seed stage	Financing provided to research business ideas, develop prototype products, or conduct market research		
	Start-up stage	Financing to recently created companies with well-articulated business and marketing plans		
Venture Capital	Later (expansion) stage	Financing to companies that have started their selling effort and may already be covering costs: Financing may serve to expand production capacity, product development, or provide working capital.		
	Replacement Capital	Financing provided to purchase shares from other existing venture capital investors or to reduce financial leverage		

Broad Category	Subcategory	Brief Description
Growth	Expansion capital	Financing to established and mature companies in exchange for equity, often a minority stake, to expand into new markets and/or improve operations

Broad Category	Subcategory	Brief Description
	Acquisition capital	Financing in the form of debt, equity, or quasi-equity provided to a company to acquire another company
Buyout	Leveraged buyout	Financing provided by an LBO firm to acquire a company
	Management buyout	Financing provided to the management to acquire a company, specific product line, or division (carve-out)

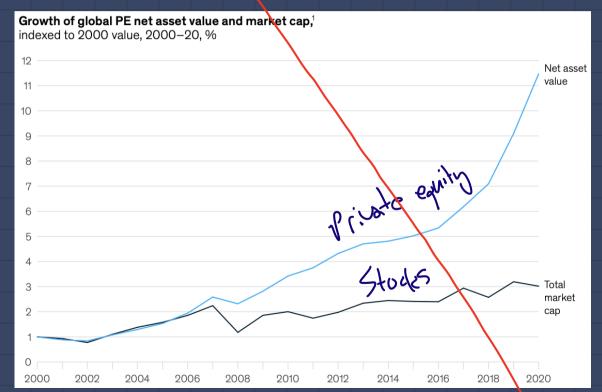
Broad Category	Subcategory	Brief Description		
	Mezzanine finance	Financing generally provided in the form of subordinated debt and an equity kicker (warrants, equity, etc.) frequently in the context of LBO transactions		
Special Situation	Distressed/turnaround	Financing of companies in need of restructuring or facing financial distress		
	One-time opportunities	Financing in relation to changing industry trends and new government regulations		
	Other	Other forms of private equity financing are also possible—for example activist investing, funds of funds, and secondaries		

#### Who are the largest Private Equity firms?



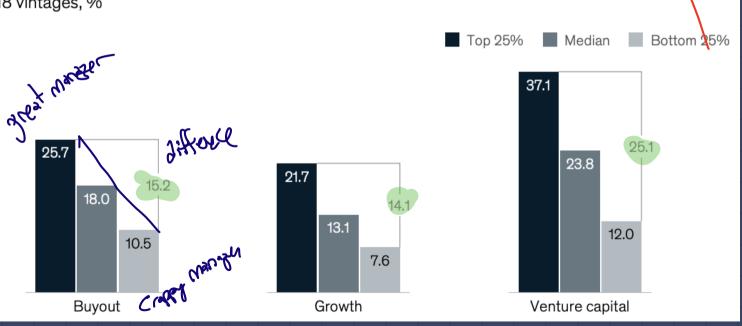
Largest global private equity companies, by fund-raising capacity 2021

## How has PE performed relative to public equity?



#### How have PE sectors performed?

**Global PE fund performance by strategy,** net IRR to date through Sept 30, 2021, 2008-18 vintages, %



#### **Benefits of PE**

Reduce risk

**Enhance absolute returns** 

Exposure to privately-held companies

Lower legal and regulatory constraints

Fund job creation, innovation, development of the real economy



# LIFE CYCLE MANAGEMENT

FIXED UPGRADING MAINTAINING SYSTEM
FACILITIES & GOODWILL OBJECTIVE