

### **Introduction to Global Securities Market**

## 国际证券市场简介

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### **Learning Objectives**

 Through this course the students will understand the fundamental concepts about Mutual Funds Concepts, Operation, Workflow and Investment terminology.







### 推荐教材或主要参考书

1.

Name: 美国开放基金

Author: American Bankers Association

Publisher: American Bankers Association

Language: English

Date:

ISBN: 0-89982-359-9

2.

Name: Dictionary of Finance and Investment Terms

Author: John Downes & Jordan Elliot Goodman

Publisher: Barron's Educational Series, Inc.

Language: English

Date:

ISBN: 0-7641-0790-9





## 推荐教材或主要参考书

3.2018 Investment Company Fact Book, 58th Edition







### **Session 1 Mutual Fund Overview**



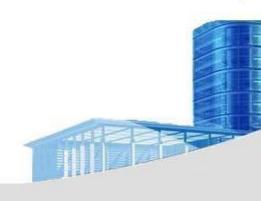




### What is a Mutual Fund?

- Extremely popular over the last 40 years (since 1990s).
- Over 40% of the households in America, invest in mutual funds.
- It's common knowledge that investing in mutual funds is better than saving in bank for most people.
- Mutual Fund, Hedge Fund, ETFs
- Mutual fund is an investment company that pools the savings of a number of investors who share a common financial goal. The money thus collected is invested into a variety of securities, including stocks, bonds, and money-market instruments.
- Each scheme of a mutual fund can have different characteristics and objectives. Mutual funds issue units to the investors, which represent an equitable right in the assets of the mutual fund.







### **Basic Concepts**

- > A Mutual Fund is a trust that pools the savings of a number of investors who share a common financial goal.
- > The money thus collected is then invested in capital market instruments such as shares, debentures (无抵押的公司债券) and other securities.
- The income earned through these investments and the capital appreciation realized are shared by its unit holders in proportion to the number of units owned by them.
- Thus a Mutual Fund is the most suitable investment for the common man as it offers an opportunity to invest in a diversified, professionally managed basket of securities at a relatively low cost.





### Mutual Fund Cycles

### Concept of Mutual Fund

Many investors with common financial objectives pool their money

Investors, on a proportionate basis, get mutual fund units for the sum contributed to the pool

The money collected from investors is invested into shares, debentures and other securities by the fund manager

The fund manager realizes gains or losses, and collects dividend or interest income

Any capital gains or losses from such investments are passed on to the investors in proportion of the number of units held by them



### Three ways to get payment from a mutual fund

- > 1) Income is earned from dividends on stocks and interest on bonds. A fund pays out nearly all of the income it receives over the year to fund owners in the form of a distribution.
- > 2) If the fund sells securities that have increased in price, the fund has a capital gain. Most funds also pass on these gains to investors in a distribution.
- > 3) If fund holdings increase in price but are not sold by the fund manager, the fund's shares increase in price. You can then sell your mutual fund shares for a profit.







### **Advantages of Mutual Funds**

- Professional Management
- > Diversification
- Economies of Scale
- > Liquidity
- > Simplicity
- > Transparency
- > Flexibility
- > Choice of schemes
- > Tax benefits
- > Well regulated







### **Advantages of Mutual Funds**

- > In-class Exercise:
- Mutual funds offer investors all the following advantages EXCEPT:
  - Professional management
  - Tax deferral
  - Diversification
  - Convenience







### **Disadvantages of Mutual Funds:**

Professional Management - Did you notice how we qualified the advantage of professional management with the word "theoretically"? Many investors debate whether or not the socalled *professionals* are any better than you or I at picking stocks. Management is by no means infallible, and, even if the fund loses money, the manager still takes his/her cut. We'll talk about this in detail in a later section.

Costs - Mutual funds don't exist solely to make your life easier - all funds are in it for a profit. The mutual fund industry is masterful at burying costs under layers of jargon. These costs are so complicated that in this tutorial we have devoted an entire section to the subject.

Dilution - It's possible to have too much diversification. Because funds have small holdings in so many different companies, high returns from a few investments often don't make much difference on the overall return. <a href="Dilution">Dilution</a> is also the result of a successful fund getting too big. When money pours into funds that have had strong success, the manager often has trouble finding a good investment for all the new money.

> Taxes - When making decisions about your money, fund managers don't consider your personal tax situation. For example, when a fund manager sells a security, a capital-gains tax is triggered, which affects how profitable the individual is from the sale. It might have been more advantageous for the individual to defer the capital gains liability.





### **Frequently Used Terms**

- Net Asset Value (NAV)
  Net Asset Value is the market value of the assets of the scheme minus its liabilities. The per unit NAV is the net asset value of the scheme divided by the number of units outstanding on the Valuation Date.
- Sale Price
  Is the price you pay when you invest in a scheme. Also called Offer Price. It may include a sales load.
- Repurchase Price
  Is the price at which a close-ended scheme repurchases its units and it may include a back-end load. This is also called Bid Price.







### **Frequently Used Terms**

- > Redemption Price (赎回价格)
  Is the price at which open-ended schemes repurchase their units and close-ended schemes redeem their units on maturity. Such prices are NAV related.
- > Sales Load (销售负荷)
  Is a charge collected by a scheme when it sells the units. Also called, 'Front-end' load. Schemes that do not charge a load are called 'No Load' schemes.
- > Repurchase or 'Back-end' Load (回购负荷)
  Is a charge collected by a scheme when it buys back the units from the unit holders.





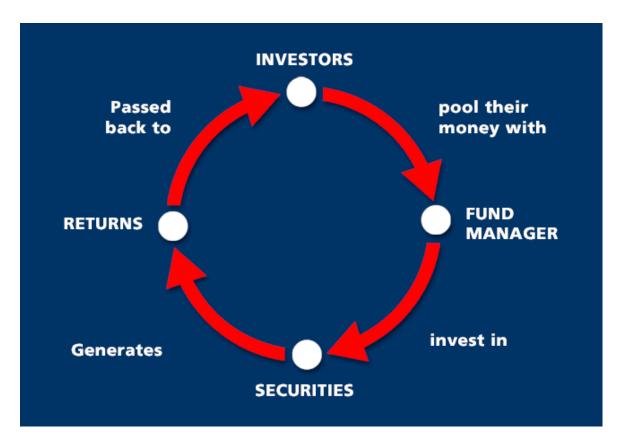
## **Session 2 Mutual Fund Market**







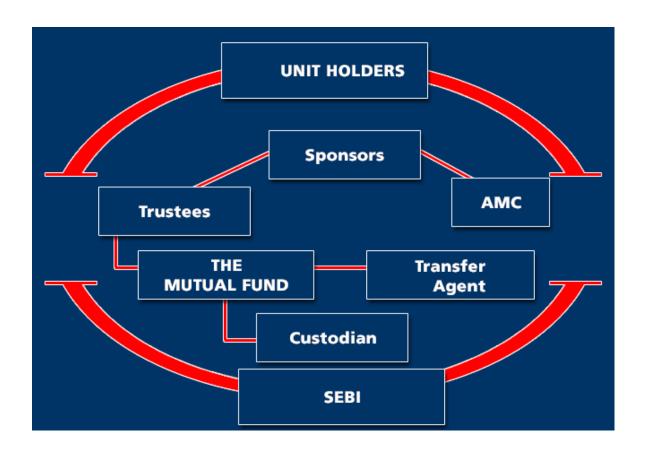
### **Mutual Fund Operation Flow Chart**







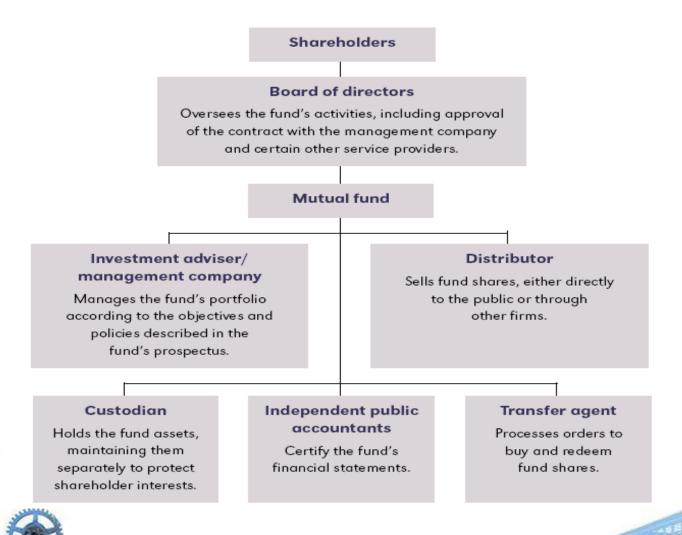
### **Organization of a Mutual Fund**







### The Structure of Mutual Fund





### > Transfer Agent (过户代理机构)

A transfer agent is employed by a mutual fund to conduct recordkeeping and related functions. Transfer agents maintain records of shareholder accounts, calculate and disburse dividends, and prepare and mail shareholder account statements, federal income tax information and other shareholder notices. Some transfer agents prepare and mail statements confirming shareholder transactions and account balances and maintain customer service departments to respond to shareholder inquiries.

### > Mutual Fund Custodian (托管银行)

 An entity, usually a bank or trust company, which holds and safeguards securities owned by a mutual fund. Such an entity may also act as a transfer agent.







- > Role of Custodian
- > ABC Trust Company is the Akila Fund's custodian. ABC Trust's main function is to:
  - Manage the fund's portfolio
  - Insure the fund's shareholders against investment losses
  - Indemnify the fund's directors in case of legal actions
  - Preserve the fund's physical assets







- > Role of Custodian
- The custodian bank of a mutual fund:
  - Manages the fund
  - Acts as the distributor of the fund
  - Holds the fund's cash and securities and performs essential clerical functions but does not manage the fund
  - Guarantees investors against any loss that may be incurred if the fund should decline in value







- Investment Advisor
- A fund's investment advisor may have complete discretion to manage the fund's portfolio any way it wants as long as the fund outperforms the Dow Jones Industrial Average or some other relevant index specified in the advisor's contract:
  - True
  - False







Total net assets of worldwide regulated open-end funds have grown substantially in the past decade

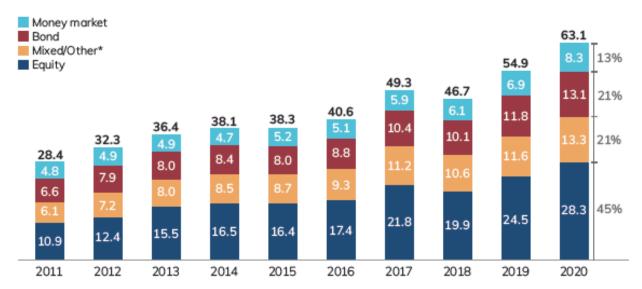






Total Net Assets of Worldwide Regulated Open-End Funds Rose to \$63.1 Trillion in 2020

Trillions of US dollars by type of fund, year-end



#### Total number of worldwide regulated open-end funds

91,572 93,833 97,377 101,100 106,066 110,127 112,950 118,278 122,558 126,457

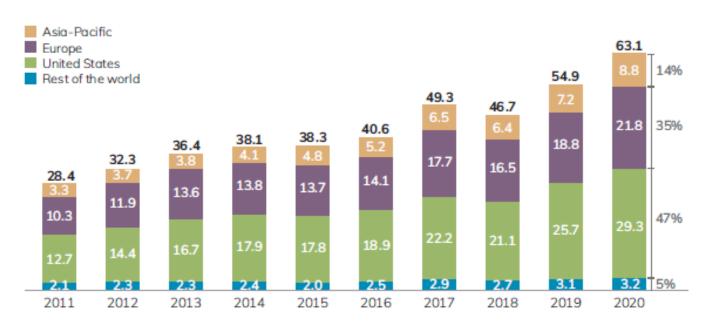
\* Mixed/other funds include balanced/mixed funds, guaranteed/protected funds, real estate funds, and other funds.
 Note: Regulated open-end funds include mutual funds, ETFs, and institutional funds.
 Source: International Investment Funds Association





The United States Has the Largest Share of Total Net Assets of Worldwide Regulated Open-End Funds

Trillions of US dollars by region, year-end



Note: Regulated open-end funds include mutual funds, ETFs, and institutional funds.

Source: International Investment Funds Association

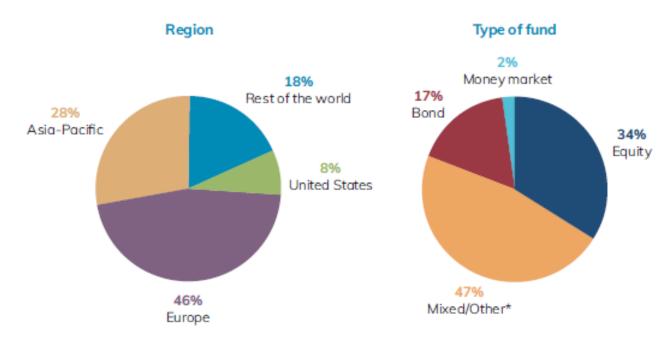






#### Number of Worldwide Regulated Open-End Funds

Percentage of funds by region or type of fund, year-end 2020



Number of worldwide regulated open-end funds: 126,457

\* Mixed/other funds include balanced/mixed funds, guaranteed/protected funds, real estate funds, and other funds. Note: Regulated open-end funds include mutual funds, ETFs, and institutional funds. Source: International Investment Funds Association





### Worldwide Regulated Open-End Fund Share of Worldwide Equity and Debt Markets

Trillions of US dollars, year-end



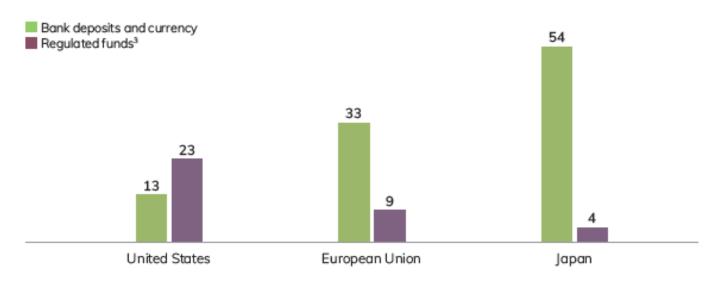
\* Data for worldwide debt markets are as of September 30, 2020.
Note: Regulated open-end funds include mutual funds, ETFs, and institutional funds.
Source: Investment Company Institute tabulations of data from the International Investment Funds Association, World Federation of Exchanges, and Bank for International Settlements





### US Households Hold More of Their Wealth in Regulated Funds; Bank-Centric Countries Have a Lower Share

Percentage of household<sup>1</sup> financial wealth, selected dates<sup>2</sup>



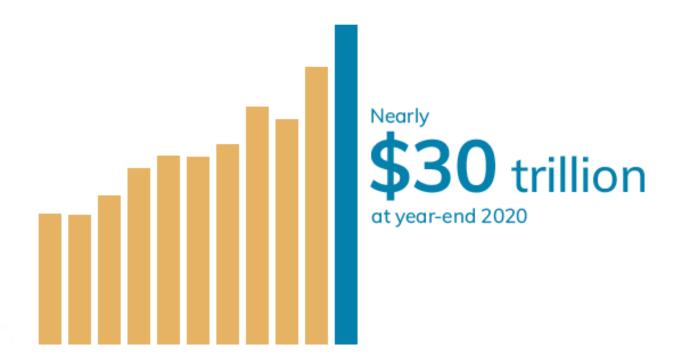
- <sup>1</sup> Households include households and nonprofit institutions serving households.
- <sup>2</sup> Data for the United States and Japan are as of 2020:Q4; data for the European Union are as of 2020:Q3.
- <sup>3</sup> For the United States and Japan, regulated funds include mutual funds and ETFs. For the European Union, regulated funds include investment fund shares as defined by their respective systems of national accounts.

Source: Investment Company Institute tabulations of data from the International Investment Funds Association, Federal Reserve Board, Eurostat, and Bank of Japan





Assets of US-registered investment companies increased in 2020







#### Number of Investment Companies by Type

Year-end

	Mutual funds <sup>1</sup>	ETFs <sup>2</sup>	Closed-end funds	UITs	Total	
2000	8,349	80	482	10,072	18,983	
2001	8,480	102	490	9,295	18,367	
2002	8,490	113	543	8,303	17,449	
2003	8,406	119	581	7,233	16,339	
2004	8,411	152	618	6,499	15,680	
2005	8,439	204	635	6,019	15,297	
2006	8,704	359	646	5,907	15,616	
2007	8,723	629	664	6,030	16,046	
2008	8,860	743	644	5,984	16,231	
2009	8,594	820	629	6,049	16,092	
2010	8,523	950	626	5,971	16,070	
2011	8,662	1,166	634	6,043	16,505	
2012	8,742	1,239	604	5,787	16,372	
2013	8,970	1,332	601	5,552	16,455	
2014	9,256	1,451	570	5,381	16,658	
2015	9,515	1,644	561	5,188	16,908	
2016	9,505	1,774	534	5,100	16,913	
2017	9,354	1,900	532	5,035	16,821	
2018	9,616	2,057	504	4,917	17,094	
2019	9,414	2,176	501	4,572	16,663	
2020	9,027	2,296	494	4,310	16,127	

<sup>&</sup>lt;sup>1</sup> Mutual fund data include mutual funds that invest primarily in other mutual funds.

<sup>2</sup> ETF data include ETFs that invest primarily in other ETFs.







#### Investment Company Total Net Assets by Type

Billions of dollars, year-end

	Mutual funds	ETFs	Closed-end funds1	UITs	Total <sup>2</sup> \$7,245	
2000	\$6,956	\$66	\$150	\$74		
2001	6,969	83	145	49	7,246	
2002	6,380	102	161	36	6,680	
2003	7,399	151	216	36	7,801	
2004	8,093	228	255	37	8,614	
2005	8,889	301	276	41	9,507	
2006	10,395	423	299	50	11,167	
2007	11,995	608	316	53	12,973	
2008	9,619	531	185	29	10,364	
2009	11,109	777	224	38	12,149	
2010	11,831	992	239	51	13,113	
2011	11,630	1,048	244	60	12,982	
2012	13,054	1,337	265	72	14,728	
2013	15,049	1,675	282	87	17,092	
2014	15,877	1,975	292	101	18,244	
2015	15,658	2,101	263	94	18,116	
2016	16,353	2,525	265	85	19,227	
2017	18,765	3,401	277	85	22,528	
2018	17,710	3,371	252	70	21,403	
2019	21,291	4,396	279	79	26,045	
2020	23,896	5,449	279	78	29,702	

Closed-end fund data include preferred share classes.

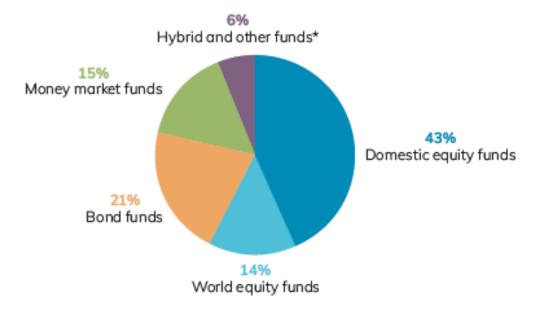
<sup>&</sup>lt;sup>2</sup> Total investment company assets include mutual fund holdings of closed-end funds and ETFs.





### The Majority of US Mutual Fund and ETF Total Net Assets Were in Equity Funds

Percentage of total net assets, year-end 2020



US mutual fund and ETF total net assets: \$29.3 trillion

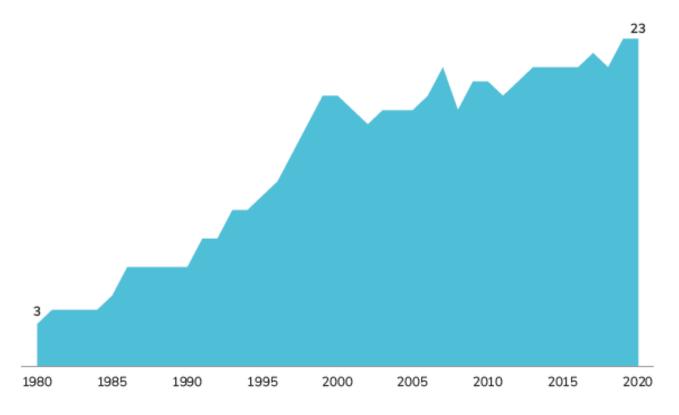
 \* This category includes ETFs—both registered and not registered under the Investment Company Act of 1940—that invest primarily in commodities, currencies, and futures.





#### Share of US Household Financial Assets Held in Investment Companies

Percentage of US household financial assets, year-end



Note: Household financial assets held in registered investment companies include holdings of mutual funds, ETFs, closed-end funds, and UITs. Mutual funds held in employer-sponsored DC plans, IRAs, and variable annuities are included.

Sources: Investment Company Institute and Federal Reserve Board

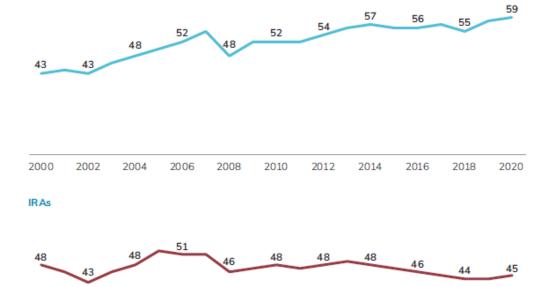




#### Mutual Funds in US Household Retirement Accounts

Percentage of retirement assets in mutual funds by type of retirement vehicle

#### DC plans\*



2000	2002	2004	2006	2008	2010	2012	2014	2016	2018	2020

<sup>\*</sup> This category includes private-sector employer-sponsored DC plans—such as 401(k) plans—403(b) plans, 457 plans, and the Federal Employees Retirement System (FERS) Thrift Savings Plan (TSP).

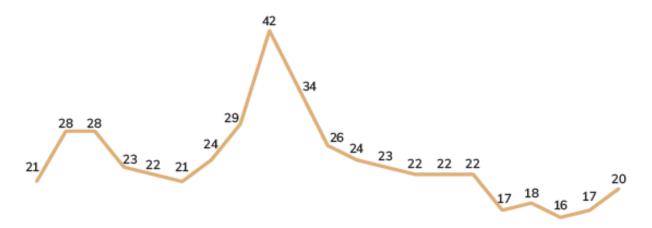
Source: Investment Company Institute. For a complete list of sources, see Investment Company Institute, "The US Retirement Market, Fourth Quarter 2020."





#### Money Market Funds Managed 20 Percent of US Nonfinancial Businesses' Short-Term Assets in 2020

Percentage of short-term assets, year-end



00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19 '20

Note: US nonfinancial businesses' short-term assets consist of foreign deposits, checkable deposits and currency, time and savings deposits, money market funds, repurchase agreements, and commercial paper.

Sources: Investment Company Institute and Federal Reserve Board

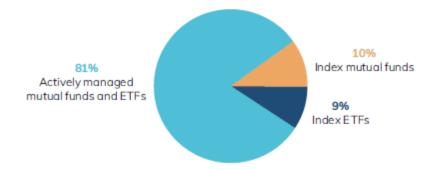




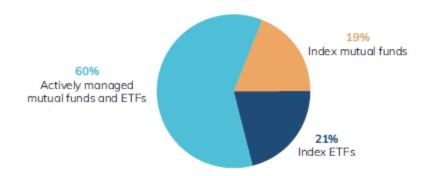


#### Index Funds Have Grown as a Share of the Fund Market

Percentage of total net assets, year-end



2010 total net assets: \$9.9 trillion



2020 total net assets: \$24.9 trillion

Note: Data for ETFs exclude non-1940 Act ETFs. Data for mutual funds exclude money market funds.



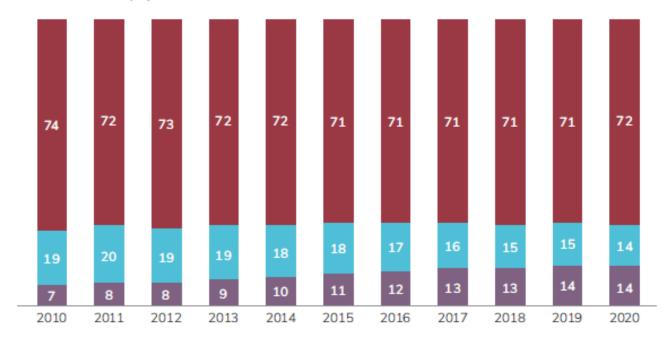




#### Index Fund Share of US Stock Market Is Small

Percentage of US stock market capitalization, year-end

- Other investors
- Active domestic equity mutual funds and ETFs
- Index domestic equity mutual funds and ETFs



Sources: Investment Company Institute and World Federation of Exchanges

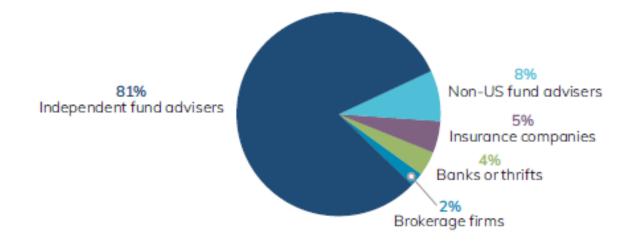






#### More Than 80 Percent of Fund Complexes Were Independent Fund Advisers

Percentage of investment company complexes by type of intermediary, year-end 2020



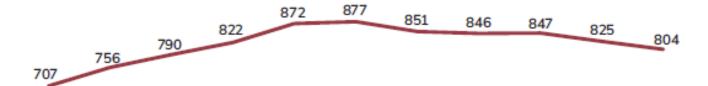


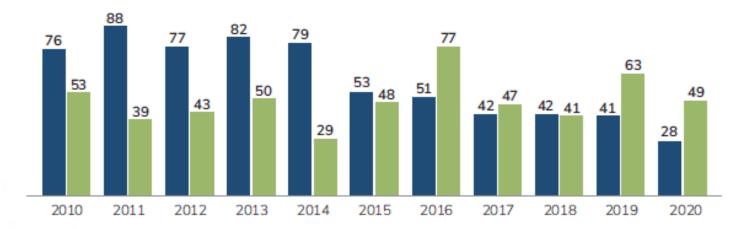




#### **Number of Fund Sponsors**

- Total fund sponsors at year-end
- Fund sponsors entering
- Fund sponsors leaving



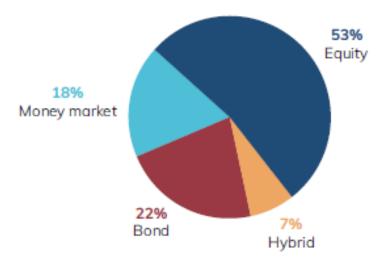






#### Equity Mutual Funds Held More Than Half of Mutual Fund Total Net Assets

Percentage of total net assets, year-end 2020



US mutual fund total net assets: \$23.9 trillion







# **Mutual Fund Industry**

- > In-class Exercise:
- The CEO of the Happy Income Fund wants to change its investment objective from income to growth and income. In order to do this, she will need to obtain the approval of:
  - A majority of the fund's non-interested directors
  - All of the members of the fund's board of directors
  - A majority of the fund's outstanding shares
  - The fund's investment advisor and custodian







#### Number of Mutual Funds and ETFs Entering and Leaving the Industry

- Opened funds
   Merged/Liquidated funds
- 739 727 687 <u>711</u> 603 596

Note: Data include mutual funds that do not report statistical information to the Investment Company Institute and mutual funds that invest primarily in other mutual funds. ETF data include ETFs that invest primarily in other ETFs.

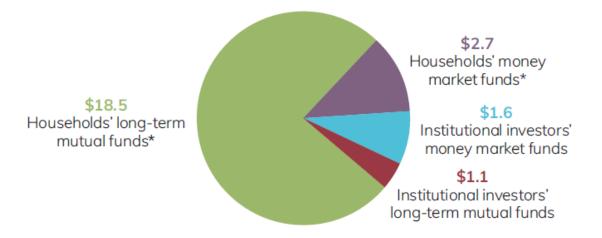






#### Households Held 89 Percent of Mutual Fund Total Net Assets

Trillions of dollars, year-end 2020



Mutual fund total net assets: \$23.9 trillion Long-term mutual fund total net assets: \$19.6 trillion Money market fund total net assets: \$4.3 trillion

\* Mutual funds held as investments in individual retirement accounts, defined contribution retirement plans, variable annuities, 529 plans, and Coverdell education savings accounts are counted as household holdings of mutual funds.

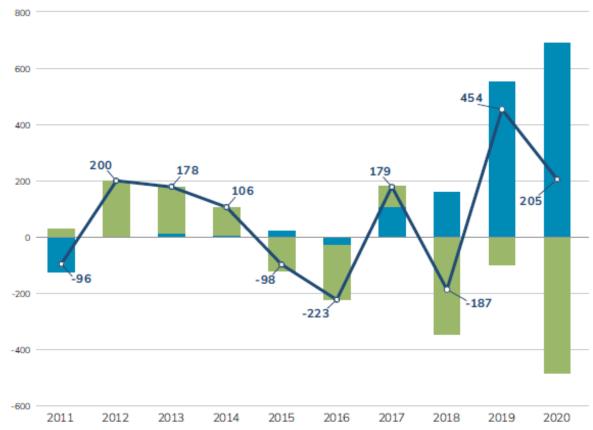




#### Net New Cash Flow to Mutual Funds

Billions of dollars, annual

- Total net new cash flow
- Money market funds
- Equity, bond, and hybrid mutual funds

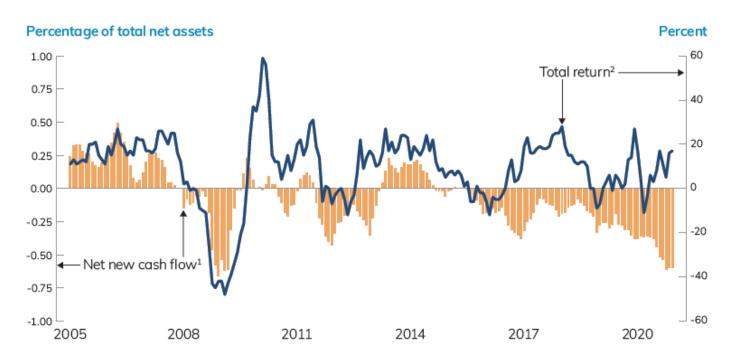






Net New Cash Flow to Equity Mutual Funds Typically Is Related to World Equity Returns

Monthly



- Net new cash flow is reported as a percentage of previous month-end equity mutual fund total net assets, plotted as a six-month moving average.
- <sup>2</sup> The total return on equities is measured as the year-over-year percent change in the MSCI All Country World Daily Gross Total Return Index.

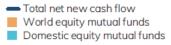
Sources: Investment Company Institute, MSCI, and Bloomberg

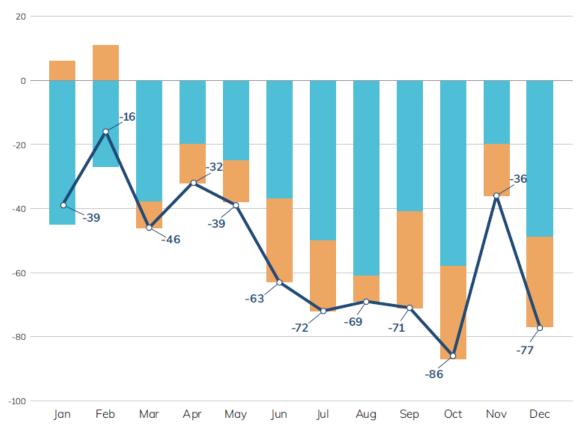




#### Net New Cash Flow to Equity Mutual Funds in 2020

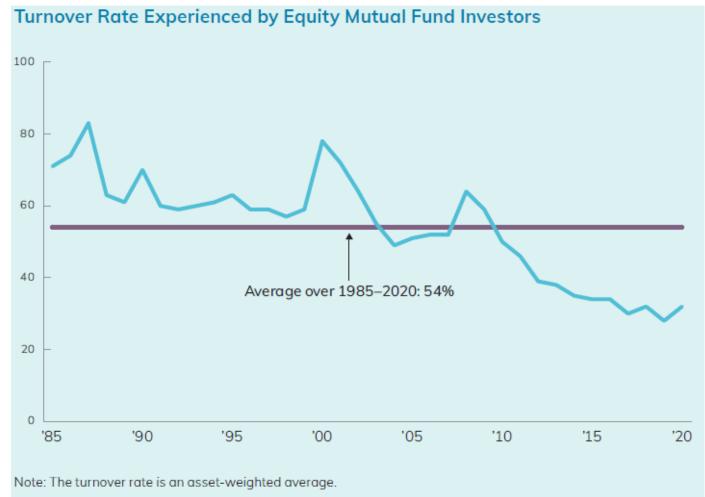
Billions of dollars; monthly, 2020







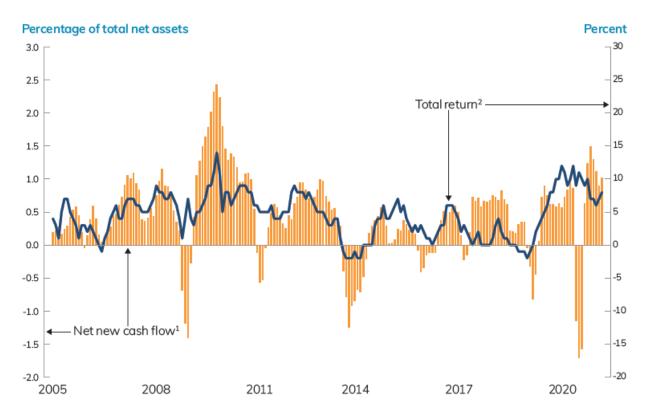








Net New Cash Flow to Bond Mutual Funds Typically Is Related to Bond Returns Monthly



- Net new cash flow is reported as a percentage of previous month-end bond mutual fund total net assets, plotted as a three-month moving average. Data exclude high-yield bond mutual funds.
- <sup>2</sup> The total return on bonds is measured as the year-over-year percent change in the FTSE US Broad Investment Grade Bond Index.

Sources: Investment Company Institute, FTSE Russell, and Bloomberg

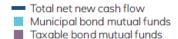


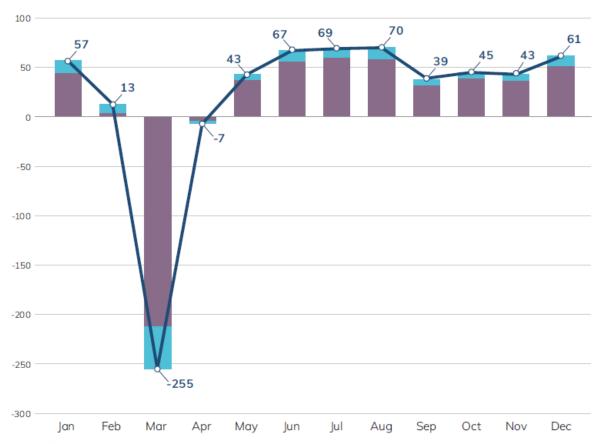




#### Net New Cash Flow to Bond Mutual Funds in 2020

Billions of dollars; monthly, 2020



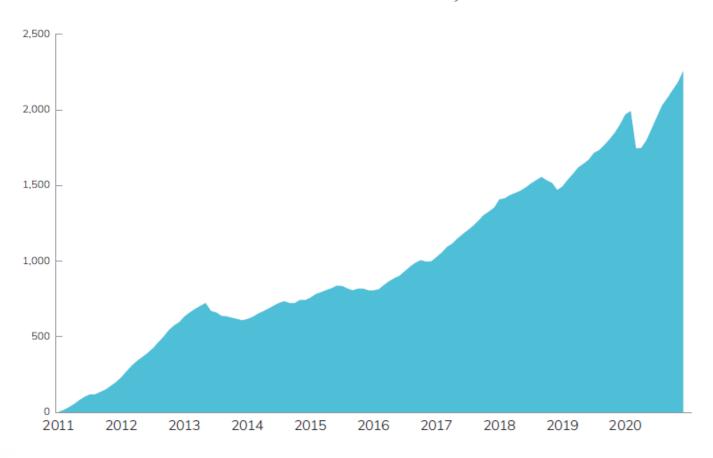






Bond Mutual Funds Have Experienced Net Inflows Through Most of the Past Decade

Cumulative flows to bond mutual funds, billions of dollars, monthly



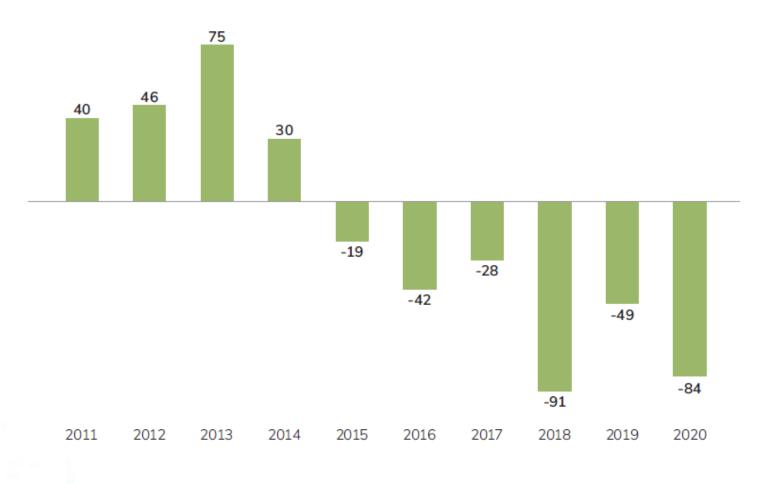
Note: Bond mutual fund data include net new cash flow and reinvested dividends.





#### Net New Cash Flow to Hybrid Mutual Funds

Billions of dollars, annual







# **Exchange Traded Fund (ETF)**

- Exchange-Traded Funds, or ETFs, are index funds that trade just like stocks on major stock exchanges.
- Because it trades like a stock whose price fluctuates daily, an ETF does not have its net asset value (NAV) calculated every day like a mutual fund does.
- > By owning an ETF, you get the diversification of an index fund as well as the ability to sell short, buy on margin and purchase as little as one share.
- > Another advantage is that the expense ratios for most ETFs are lower than those of the average mutual fund. When buying and selling ETFs, you have to pay the same commission to your broker that you'd pay on any regular order.







# **Exchange Traded Fund (ETF)**

- A client wants to invest in a portfolio that is passively managed. Which two of the following will achieve this goal?
  - I. A portfolio that invests only in fixed income securities
  - II. An exchange traded fund based on the NASDAQ 100 Index
  - III. A mutual fund that tracks the S&P 500 Index
  - IV. An account managed by an investment adviser
  - a. I and III
  - b. I and IV
  - c. II and III
  - d. II and IV







# **Exchange-Traded Fund (ETF)**

Net share issuance hit record pace in 2020

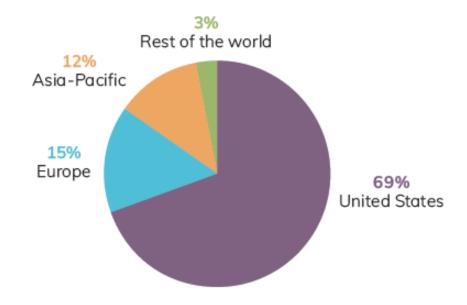






#### The United States Has the Largest ETF Market

Percentage of total net assets, year-end 2020



Worldwide ETF total net assets: \$7.9 trillion

Sources: Investment Company Institute and ETFGI







#### Total Net Assets and Number of ETFs

Billions of dollars, year-end



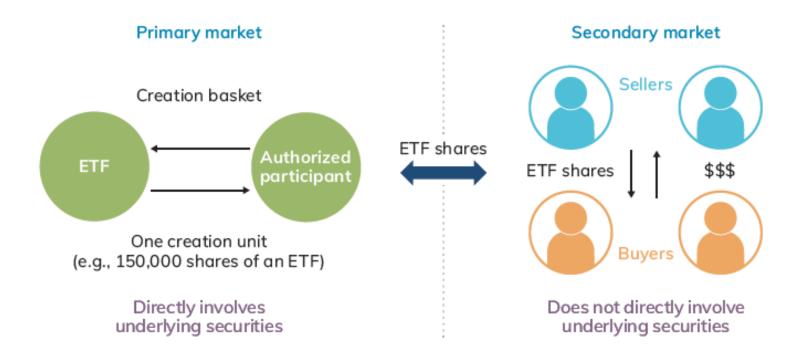
<sup>&</sup>lt;sup>1</sup> The funds in this category are not registered under the Investment Company Act of 1940 and invest primarily in commodities, currencies, and futures.

 $<sup>^{2}\,</sup>$  The funds in this category are registered under the Investment Company Act of 1940.





#### Creation of ETF Shares



Note: The creation basket represents a specific list of securities, cash, and/or other assets.







An authorized participant (AP) is typically a large financial institution that enters into a legal contract with an ETF distributor to create and redeem shares of the fund. In addition, APs are US-registered, self-clearing broker-dealers that can process all required trade submission, clearance, and settlement transactions on their own account; they are also full participating members of the National Securities Clearing Corporation (NSCC) and the Depository Trust Company (DTC).

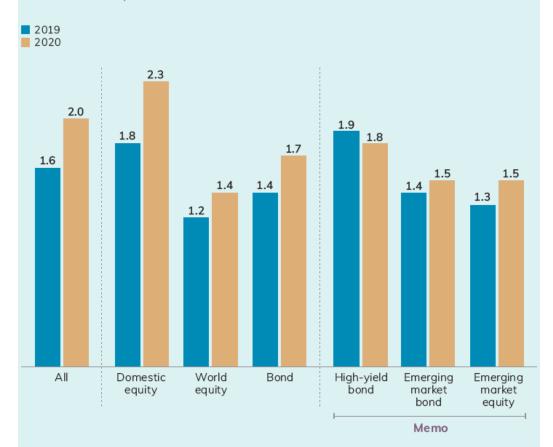






### Authorized Participants Increased Their Activity Across a Wide Range of ETF Asset Classes in March 2020

Daily average number of active APs per ETF; March 11–March 29, 2019, and March 9–March 27, 2020



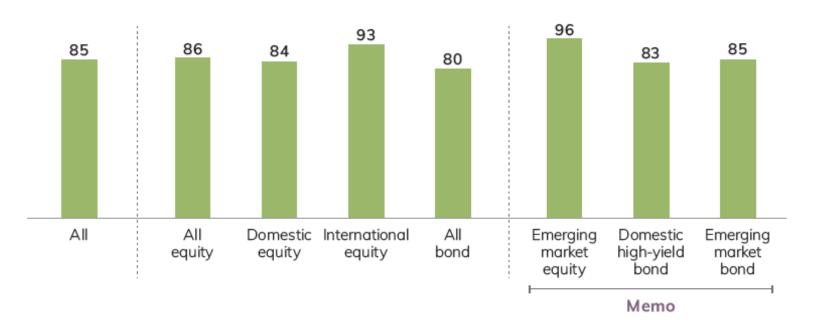
Source: Investment Company Institute survey of ETF sponsors. See  $\it Report$  of the  $\it COVID-19MarketImpactWorking Group$ , "Experiences of US Exchange-Traded Funds During the  $\it COVID-19$  Crisis."





#### Most ETF Activity Occurs on the Secondary Market

Percentage of secondary market activity<sup>1</sup> relative to total activity,<sup>2</sup> 2020



 $<sup>^{</sup>m 1}$  Secondary market activity is measured as total dollar volume of ETF shares traded in each category.

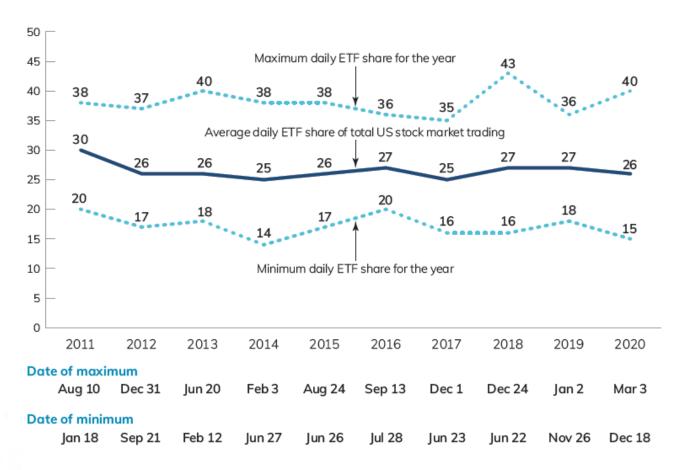
<sup>2</sup> Total activity is measured as the sum of primary market and secondary market activity. Primary market activity is measured as the total of gross issuance and gross redemptions of ETF shares in each category. Sources: Investment Company Institute and Bloomberg





#### ETF Secondary Market Trading Averaged 26 Percent of Daily US Stock Trading in 2020

Percentage of total US stock market trading volume, annual



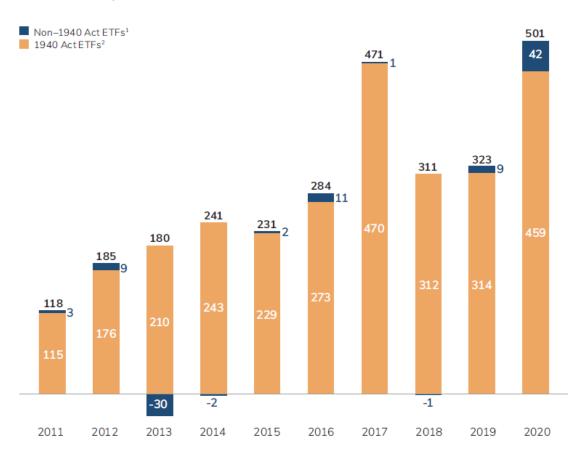
Sources: Investment Company Institute, Bloomberg, and Cboe Exchange, Inc.





#### Net Share Issuance of ETFs Surged in 2020

Billions of dollars, annual



<sup>&</sup>lt;sup>1</sup> The funds in this category are not registered under the Investment Company Act of 1940 and invest primarily in commodities, currencies, and futures.

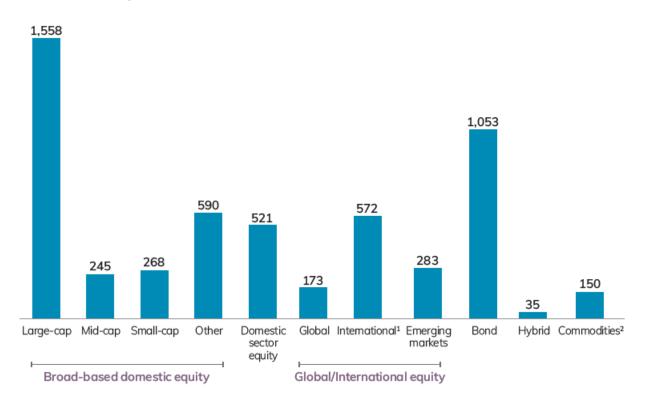
<sup>&</sup>lt;sup>2</sup> The funds in this category are registered under the Investment Company Act of 1940. Note: Data for net share issuance include reinvested dividends.





#### Total Net Assets of ETFs Were Concentrated in Large-Cap Domestic Stocks

Billions of dollars, year-end 2020



<sup>&</sup>lt;sup>1</sup> This category includes international, regional, and single country ETFs but excludes emerging market ETFs.

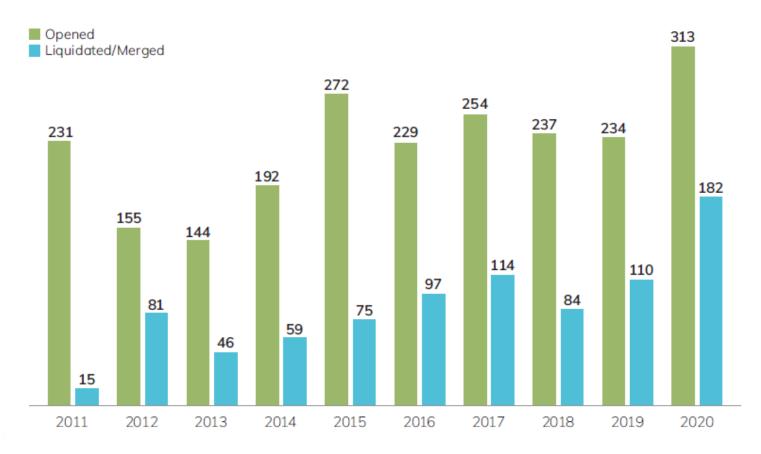
<sup>&</sup>lt;sup>2</sup> Commodity ETFs include funds—both registered and not registered under the Investment Company Act of 1940—that invest primarily in commodities, currencies, and futures.







#### Number of ETFs Entering and Exiting the Industry



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





#### ETF-Owning Households Held a Broad Range of Investments

Percentage of ETF-owning households holding each type of investment, 2020

Equity mutual funds, individual stocks, or variable annuities (total)	94
Bond mutual funds, individual bonds, or fixed annuities (total)	55
Mutual funds (total)	88
Equity	84
Bond	46
Hybrid	37
Money market	52
Individual stocks	71
Individual bonds	18
Fixed or variable annuities	26
Investment real estate	41

Note: Multiple responses are included.







#### **Characteristics of ETF-Owning Households**

2020

	All US households	Households owning ETFs	Households owning mutual funds	Households owning individud stocks
Median				
Age of head of household <sup>1</sup>	52	47	50	51
Household income <sup>2</sup>	\$65,000	\$125,000	\$105,000	\$120,000
Household financial assets <sup>3</sup>	\$100,000	\$450,000	\$300,000	\$467,000
Percentage of households				
Household primary or co-decision	nmaker for savir	ng and investin	g	
Married or living with a partner	55	64	69	69
College or postgraduate degree	38	68	56	59
Employed (full- or part-time)	59	72	75	71
Retired from lifetime occupation	30	23	23	28
Household owns				
IRA(s)	37	72	65	67
DC retirement plan account(s)	49	78	87	75

 $<sup>^{\</sup>rm 1}\,$  Age is based on the sole or co-decision maker for household saving and investing.

<sup>3</sup> Household financial assets include assets in employer-sponsored retirement plans but exclude the household's primary residence.



 $<sup>^{2}</sup>$  Total reported is household income before taxes in 2019.



#### ETF-Owning Households Are Willing to Take More Investment Risk

Percentage of all US households, mutual fund—owning households, and ETF-owning households; 2020

#### Level of risk willing to take with financial investments

- Substantial risk for substantial gain
- Above-average risk for above-average gain
- Average risk for average gain
- Below-average risk for below-average gain
- Unwilling to take any risk



All US households

Mutual fund-owning households

ETF-owning households







# **Session 3 Mutual Fund Types and Characteristics**





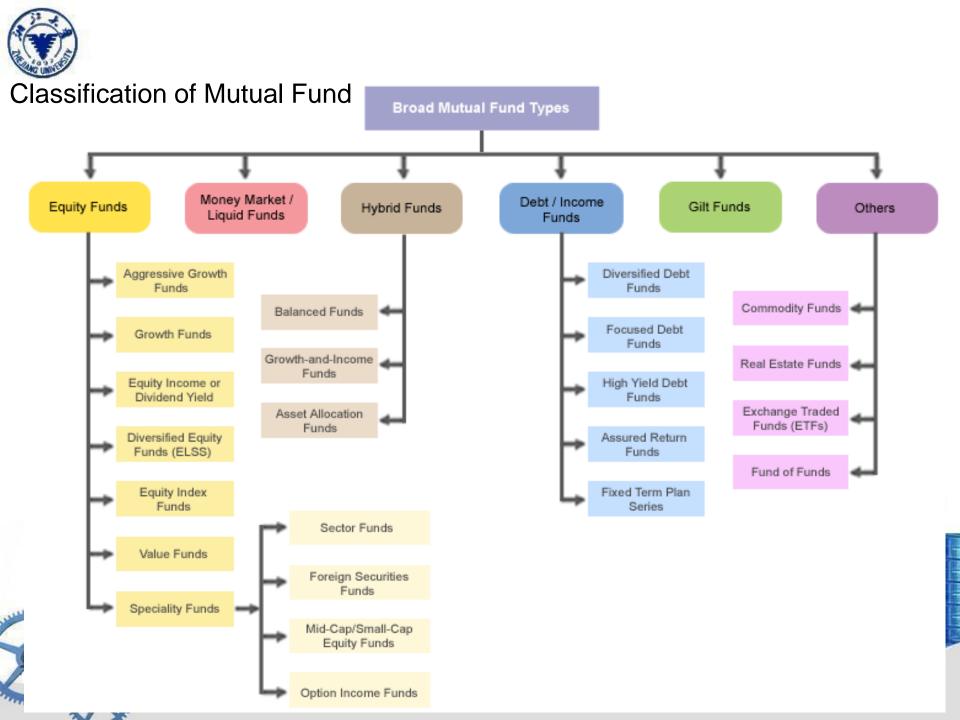


# **Types of Funds**

- No matter what type of investor you are, there is bound to be a mutual fund that fits your style.
- > It's important to understand that each mutual fund has different risks and rewards.
- > By Structure
  - Open Ended Schemes
  - Close Ended Schemes
  - Interval Schemes
- > By Investment Objectives
  - Growth Schemes
  - Income Schemes
  - Balance Schemes
  - Money Market Schemes
- > Other Schemes
  - Tax Saving Schemes
- Special Schemes
  - Index Schemes
  - Sector Specific Schemes









## **Open-end Funds**

- > a. Investors buy and sell shares back to the fund itself
- > b. There is no limit on the number of shares the fund can issue
- > c. NET ASSET VALUE (NAV)
  - Defined as the total market value of all securities held by the fund less liabilities, divided by the number of fund shares outstanding.
  - NAV is calculated per the fund's prospectus
- > Example: NAV
  - XYZ Mutual Fund owns assets totaling \$10M and liabilities equal to \$500,000 with 500,000 shares outstanding
  - Therefore, NAV is: (\$10,000,000 - \$500,000) / 500,000
  - \$19/share







## **NAV**

- A mutual fund must calculate its NAV:
  - Continuously
  - Only once per day
  - Weekly
  - As stated in its prospectus



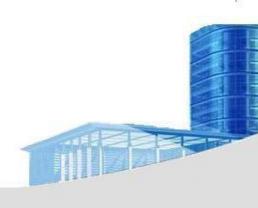




### **Automatic Reinvesting Dividends**

- What are the advantages for mutual fund investors in automatically reinvesting their dividends?
  - Deferring income taxes
  - The effect of compounding
  - Being able to purchase more shares with no sales charges
  - Both b and c



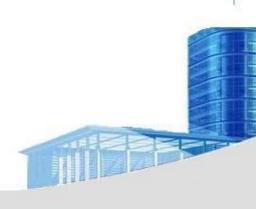




## Fixed-dollar systematic withdrawal plan

- Under this withdrawal plan, the investor will receive the same amount of money every month until the funds in his account are exhausted.
- Walker is liquidating his account at Spendthrift Funds. He is going to receive \$1000 per month as long as the money in his account lasts. Walker is using:
  - A fixed-dollar systematic withdrawal plan
  - A fixed-shares systematic withdrawal plan
  - A letter of intent
  - Dollar cost averaging







# **Characteristics of Open-end Funds**

An open-end investment company:

Continuously issues new shares to the public







## **Characteristics of Open-end Funds**

- Which of the following would NOT require a majority vote of a mutual fund's shares?
  - i. Changing the fund from open-end to closed-end
  - ii. Changing the investment objectives of the fund
  - iii. Increasing the capital gain distribution paid by the fund
  - iv. Decreasing the dividend paid by the fund
  - a. I and II only
  - b. I and III only
  - c. III and IV only
  - d. I, II, III, and IV







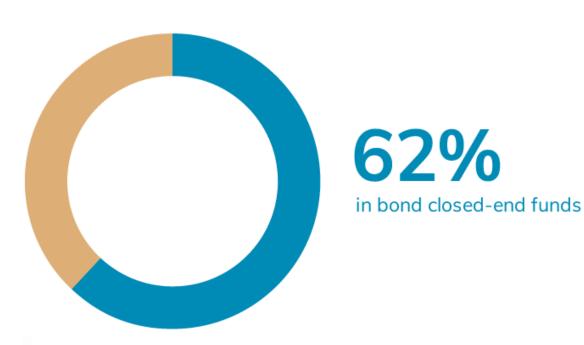
- > A fixed number of shares outstanding
- > Professionally managed
- > May be invested in equities, bonds, and other securities
- > 573 Closed-end funds at year-end 2017
- \$275 billion market value
- Shares sold at current market price
- > Trading on exchange market







62 percent of closed-end fund total assets were in bond funds at year-end 2020







#### Total Assets of Closed-End Funds Were \$279 Billion at Year-End 2020

Billions of dollars, year-end



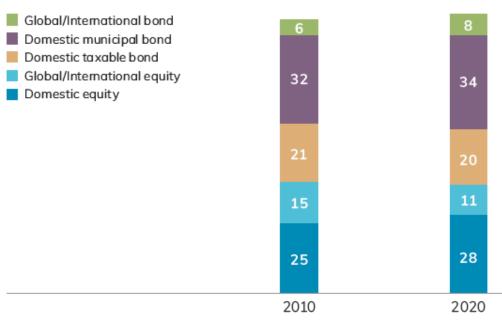
Note: *Total assets* is the fair value of assets held in closed-end fund portfolios funded by common and preferred shares less any liabilities (not including liabilities attributed to preferred shares).





#### Composition of the Closed-End Fund Market by Investment Objective

Percentage of closed-end fund total assets, year-end



Total assets: \$239 billion \$279 billion







#### Closed-End Fund Net Share Issuance

Millions of dollars

		Equity			Bond			
	Total	Total	Domestic	Global/ International	Total	Domestic taxable	Domestic municipal	Global/ International
2011	6,018	4,466	3,206	1,260	1,551	724	825	2
2012	11,385	2,953	2,840	113	8,432	3,249	3,102	2,081
2013	14,515	3,605	4,097	-491	10,909	3,921	530	6,459
2014	4,935	4,314	3,819	494	621	266	567	-212
2015	1,859	1,267	224	1,043	592	708	-11	-104
2016	829	58	242	-184	771	1,437	-168	-498
2017	678	-548	-147	-401	1,226	758	231	237
2018	1,869	-412	-352	-60	2,280	300	1,985	-4
2019	5,882	2,633	828	1,805	3,249	1,311	1,674	265
2020	1,462	1,901	1,977	-76	-439	-715	-316	593

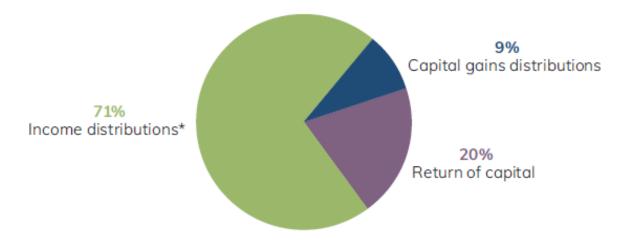
Note: Net share issuance is the dollar value of gross issuance (proceeds from initial and additional public offerings of shares) minus gross redemptions of shares (share repurchases and fund liquidations).





#### Closed-End Fund Distributions

Percentage of closed-end fund distributions, 2020



Total closed-end fund distributions: \$16.4 billion

\* Income distributions are paid from interest and dividends that the fund earns on its investments in securities. Source: ICI Research Perspective, "The Closed-End Fund Market, 2020"

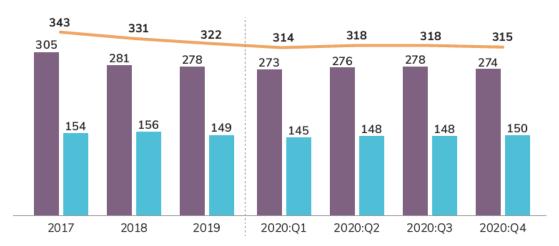




### Closed-End Funds Are Employing Structural Leverage and Some Types of Portfolio Leverage

Number of funds, end of period





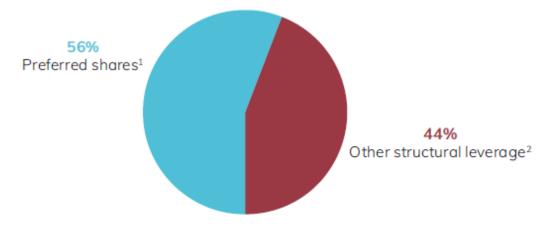
- Components do not add to the total because funds may employ both structural and portfolio leverage.
- <sup>2</sup> Structural leverage affects the closed-end fund's capital structure by increasing the fund's portfolio assets through borrowing and issuing debt and preferred shares.
- <sup>3</sup> Portfolio leverage is leverage that results from particular types of portfolio investments, including certain types of derivatives, reverse repurchase agreements, tender option bonds, and other investments or types of transactions. Data are only available for reverse repurchase agreements and tender option bonds. Given data collection constraints, and the continuing development of types of investments/transactions with a leverage characteristic (and the use of different definitions of *leverage*), actual portfolio leverage may be materially different from what is reflected above.





# Preferred Shares Constituted the Majority of Closed-End Fund Structural Leverage

Percentage of closed-end fund structural leverage, year-end 2020



Total closed-end fund structural leverage: \$50.6 billion

- A closed-end fund may issue preferred shares to raise additional capital, which can be used to purchase more securities for its portfolio. Holders of preferred shares are paid dividends, but do not participate in the gains and losses on the fund's investments.
- Other structural leverage includes bank borrowing and other forms of debt. Source: ICI Research Perspective, "The Closed-End Fund Market, 2020"

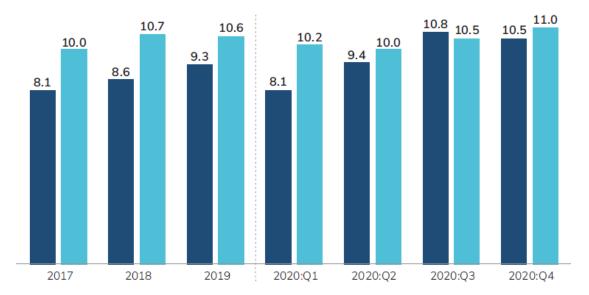




#### Use of Portfolio Leverage

Billions of dollars, end of period

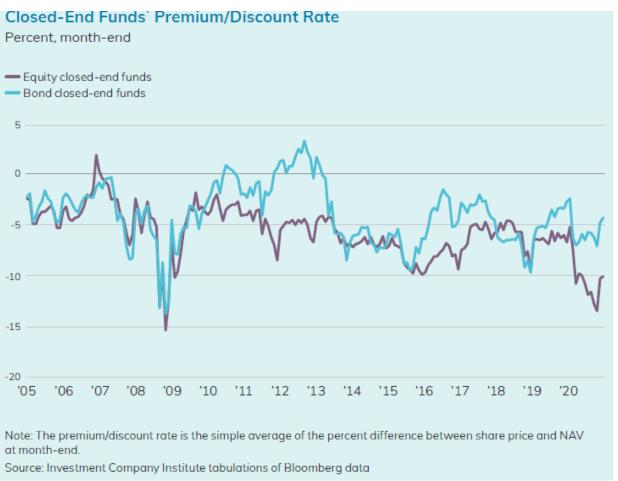
- Reverse repurchase agreements
- Tender option bonds



Note: Portfolio leverage is leverage that results from particular types of portfolio investments, including certain types of derivatives, reverse repurchase agreements, tender option bonds, and other investments or types of transactions. Data are only available for reverse repurchase agreements and tender option bonds. Given data collection constraints, and the continuing development of types of investments/transactions with a leverage characteristic (and the use of different definitions of *leverage*), actual portfolio leverage may be materially different from what is reflected above. Source: *ICI Research Perspective*, "The Closed-End Fund Market, 2020"











- All of the following statements are true about closed-end investment companies EXCEPT that the:
  - a. Number of outstanding shares is constant
  - b. Shares are sold at the current market price
  - c. Shares may not sell below the current net asset value
  - d. Shares may be listed on the NYSE







### **Money Market Funds**

- Tax-exempt money market funds invest in securities that provide safety of principal, liquidity and income exempt from federal income taxes by investing in short-term, high-rated municipal obligations.
- > The money market consists of short-term debt instruments, mostly Treasury bills. This is a safe place to park your money. You won't get great returns, but you won't have to worry about losing your principal. A typical return is twice the amount you would earn in a regular checking/savings account and a little less than the average certificate of deposit (CD).







## **Money Market Funds**

- In-class exercise:
- The portfolio of a money-market fund might contain all of the following securities EXCEPT:
  - Treasury bills
  - Negotiable CDs
  - Preferred stocks
  - Bankers' acceptances







## **Money Market Funds**

- In-class exercise:
- David is moving to Cancun in Mexico to start his exporting business. He has \$300,000 that he is going to use for pay the company's initial expenses over the next year. He wants to invest this money so that he can earn some interest on it, but he also needs to keep it liquid since he will be making frequent withdrawals. Which of the following funds would you recommend to David?
  - A money-market fund
  - A long-term U.S. government bond fund
  - A growth fund
  - An emerging markets fund







### **Fixed Income Funds**

- Those that invest primarily in bonds and preferred stocks are classified as fixedincome funds. These funds invest in corporate bonds or government-backed mortgage securities that have a fixed rate of return.
- Bond funds are likely to pay higher returns than certificates of deposit and money market investments, but bond funds aren't without risk. Because there are many different types of bonds, bond funds can vary dramatically depending on where they invest. For example, a fund specializing in high-yield junk bonds is much more risky than a fund that invests in government securities. Furthermore, nearly all bond funds are subject to interest rate risk, which means that if rates go up the value of the fund goes down.
- > Gilt funds differ from bond funds because bond funds invest in corporate bonds, government securities, and money market instruments. Gilt funds stick to high quality-low risk debt, mainly government securities.





### **Municipal Bond Fund**

- Which of the following would most likely be the main investment objective of a municipal bond fund?
  - Capital appreciation
  - Tax-exempt income
  - Speculation
  - Long-term growth







#### **Balanced Funds**

- > The objective of these funds is to provide a balanced mixture of safety, income and capital appreciation. The strategy of balanced funds is to invest in a combination of fixed income and equities. A typical balanced fund might have a weighting of 60% equity and 40% fixed income. The weighting might also be restricted to a specified maximum or minimum for each asset class.
- > A similar type of fund is known as an asset allocation fund. Objectives are similar to those of a balanced fund, but these kinds of funds typically do not have to hold a specified percentage of any asset class. The portfolio manager is therefore given freedom to switch the ratio of asset classes as the economy moves through the business cycle.







### **Balanced Funds**

- > Example:
- > Which of the following is the objective of a balanced Fund?
  - 1. Provide a balanced mixture of safety, income and capital appreciation
  - 2. Provide an aggressive growth on capital appreciation
  - 3. Provide a stable income
  - 4. Provide a conservation of the principal







#### **Balanced Funds**

- In-class exercise:
- > ABC Fund always invests 10 to 20% of its portfolio in cash equivalents, 20 to 30% in bonds and 50 to 70% in preferred and common stocks. Although the exact proportion varies, the fund must always have some of its assets in each category. ABC Fund is an example of a(n):
  - Asset allocation fund
  - Balanced fund
  - Conservative growth fund
  - Index fund







### **Equity Funds**

> Funds that invest in stocks represent the largest category of mutual funds. Generally, the investment objective of this class of funds is long-term capital growth with some income. There are, however, many different types of equity funds because there are many different types of equities. A great way to understand the universe of equity funds is to use a style box, an example of which is below.

	Investment Style							
Size	Value	Blend	Growth					
	l							
Large	l							
Mid	l							
	<u> </u>							
Small	l							
	ı	I	1 <b>1</b>					

These companies are characterized by P/E and price-to-book ratios and dividend yields.



# **Equity Funds**

- > In-class exercise:
- > Amy and her husband just had their first child, David. They have \$1,000 that they would like to invest for David's college education. Which of the following funds would you recommend?
  - A money-market fund
  - A short-term U.S. government bond fund
  - A municipal bond fund
  - A diversified common stock fund







### Global/International Funds

- > An international fund (or foreign fund) invests only outside your home country. Global funds invest anywhere around the world, including your home country.
- What's the key difference between an international fund and a global fund?
- The funds do tend to be more volatile and have unique <u>country</u> and/or <u>political</u> <u>risks</u>.







# **Specialty Funds**

- > Sector funds are targeted at specific sectors of the economy such as financial, technology, health, etc. Sector funds are extremely volatile. There is a greater possibility of big gains, but you have to accept that your sector may tank.
- Regional funds make it easier to focus on a specific area of the world. This may mean focusing on a region (say Latin America) or an individual country (for example, only Brazil). An advantage of these funds is that they make it easier to buy stock in foreign countries, which is otherwise difficult and expensive. Just like for sector funds, you have to accept the high risk of loss, which occurs if the region goes into a bad recession.
- Socially-responsible funds (or ethical funds) invest only in companies that meet the criteria of certain guidelines or beliefs. Most socially responsible funds don't invest in industries such as tobacco, alcoholic beverages, weapons or nuclear power. The idea is to get a competitive performance while still maintaining a healthy conscience.







## **Specialty Funds**

- > A specialized or specialty fund invests in stocks that are primarily:
  - In many industries
  - In a particular industry or geographical area
  - Traded in the OTC market
  - Special situations







#### **Index Funds**

> The last but certainly not the least important are index funds. This type of mutual fund replicates the performance of a broad market index such as the S&P 500 or Dow Jones Industrial Average (DJIA). An investor in an index fund figures that most managers can't beat the market. An index fund merely replicates the market return and benefits investors in the form of low fees.







#### **Index Funds**

- A client would like to invest \$500 a month and have broad exposure to the U.S. equity market. Which of the following recommendations would be the most suitable?
  - A managed closed-end fund
  - An S&P 500 Index mutual fund
  - An S&P 500 Index Exchange Traded Fund
  - An DJIA Exchange Traded Fund







### Additional Categories of Mutual Funds

#### Funds of Funds (FOFs)

- FOFs are mutual funds that hold and invest in shares of other mutual funds.
- Funds of funds are usually organized in a fund family of their own, offering funds that will specialize in international stocks, aggressive growth, income, and other objectives.
- The most popular type of these funds is hybrid funds about 80 percent of fund-of-fund assets are in hybrid funds of funds. Hybrid funds of funds invest their net new cash in underlying stock, bond, and hybrid mutual funds.







### **Hedge Fund**

- > A hedge fund is a private <u>investment fund</u> that charges a <u>performance fee</u> and is typically open to only a limited range of qualified <u>investors</u>
- > In the United States, in order for an investment fund to be exempt from direct regulation, it must be open to <u>accredited investors</u> only and only a limited number of investors can belong to it.
- Because of an exemption from the types of regulation, hedge fund can invest in more complex and riskier investments than a public fund might.
- > the hedge fund manager will receive both a management fee and a performance fee.
- > The bulk of hedge funds exploit different market opportunities, use different techniques and different instruments:
  - Style or strategy: global macro, directional, event driven, relative value (arbitrage), managed futures (CTA)
  - Exposure: directional, market neutral
  - Market: <u>equity</u>, <u>fixed income</u>, <u>commodity</u>, <u>currency</u>
  - Instrument: long/short, <u>futures</u>, <u>options</u>







# **Special Services**

- > 1. Saving Plans
  - Investor adds funds on a regular basis
- > 2. Automatic Reinvestment Plans
  - Dividends and capital gains are reinvested in additional shares
- > 3. Regular Income
  - Through withdrawal plans, the investor can receive periodic repayment or income
    - Shares or Dollars
- > 4. Conversion Privileges
  - Allows the investor the right to switch from one fund to another
    - a. Must confine switches within the same family
       of funds
    - b. Usually no transfer charges







### Costs

- > Fees can be broken down into two categories:
- > 1. Ongoing yearly fees to keep you invested in the fund.
- > 2. Transaction fees paid when you buy or sell shares in a fund (loads).
- > The Expense Ratio The ongoing expenses of a mutual fund is represented by the expense ratio. The expense ratio is composed of the following:
  - The cost of hiring the fund manager(s) Also known as the management fee, this cost is between
     0.5% and 1% of assets on average.
  - Administrative costs These include necessities such as postage, record keeping, customer service, cappuccino machines, etc.
  - The last part of the ongoing fee (in the United States anyway) is known as the <u>12B-1 fee</u>. This expense goes toward paying brokerage commissions and toward advertising and promoting the fund.
  - On the whole, expense ratios range from as low as 0.2% (usually for index funds) to as high as 2%.
     The average equity mutual fund charges around 1.3%-1.5%. You'll generally pay more for specialty or international funds, which require more expertise from managers.





### Costs

Normally, the largest expense incurred by an open-end investment company is the:

- Sales charge reallowed to the broker-dealers
- Custodial fee
- Investment advisory fee
- Accountant's fee





# 12b-1 Fees

12b-1 fees are used to pay the costs of distributing and marketing a fund. These costs include paying commissions to the registered representatives who sell the fund's shares to the public.

Among other things, 12b-1 fees are used to pay which of the following:

- 1. Taxes
- 2. Commissions
- 3. Investment advisory fees
- 4. Insurance





## Load and No load

#### Front-end loads

These are the most simple type of load: you pay the fee when you purchase the fund. If you invest \$1,000 in a mutual fund with a 5% front-end load, \$50 will pay for the sales charge, and \$950 will be invested in the fund.

#### > Back-end loads (also known as deferred sales charges)

You pay the a <u>back-end load</u> if you sell a fund within a certain time frame. A typical example is a 6% back-end load that decreases to 0% in the seventh year. The load is 6% if you sell in the first year, 5% in the second year, etc. If you don't sell the mutual fund until the seventh year, you don't have to pay the back-end load at all.

#### No-load fund

A <u>no-load fund</u> sells its shares without a <u>commission</u> or sales charge.





## Mutual Funds Prospectus

- Issue date and Issuer
- > Investment objectives
- > Strategies
- > Risk/Return
- Fees and expenses
- Past performance (return bar chart)
- > Managers/advisers/organization
- > shareholder service: reinvest, redemption





## Mutual Funds Prospectus

- Circular (a type of prospectus provided for a new security listing)
- > Registration statement
- > Legal document
- > Investor protection
- > SEC standard formats
- Section 10 (Final Prospectus contained in an effective registration statement)





# Mutual Funds Prospectus

- Expense load, no-load, 12b -1 fees
  - Load or No Load
    - a. Load Fund
      - Charges a commission when shares are bought (7 8 1/2% or more)
    - b. No Load Fund
      - No sales charges are levied
  - Other fees and Costs
    - a. Professional Management Fee
      - .25 to 1.75 percent of the average dollar amount of assets under management
- Expense Ratio
- > Turnover Ratio







## **Session 4 Mutual Fund Analysis**





# How to analyze a mutual fund

- > Assessment of your risk tolerance
- > The style of mutual fund
- History performance of mutual fund







### **Assessment of Risk Tolerance**

#### > Risk Tolerance Group:

- Defensive investors wish to eliminate all investment price volatility in favor of guaranteed security of their investment. 100% Defensive Assets
- Conservative investors are willing to accept a measured amount of price volatility in expectation of slightly higher long-term returns. 80% Defensive Asset, 20% Growth Assets
- Moderately Conservative investors are more comfortable with price volatility and are willing to accept the possibility of a modest loss in capital value in the medium-term. 60% Defensive Assets, 40% Growth Assets.
- Balanced investors seek a higher level of growth and perhaps some tax effective returns from their portfolio, but they wish to have their growth assets 'balanced' by some defensive assets in order to manage the volatility of their total portfolio. 40% Defensive Assets, 60% Growth Assets
- Assertive investors generally have had more experience in investing and understand and are willing to accept a higher level of price volatility when seeking higher returns. 20% Defensive Assets, 80% Growth Assets
- Aggressive investors are generally experienced in investment markets and are willing to take a high level of risk in the short term when seeking high levels of long-term returns. 100% Growth Assets





#### Indicative Portfolio

	Cash	Fixed	Property	Australian	International	Defensive	Growth
		Interest		Equities	Equities	Assets	Assets
Defensive	10%	90%	-	-		100%	-
Conservative	10%	70%	5%	10%	5%	80%	20%
Moderately	5%	55%	10%	20%	10%	60%	40%
Conservative							
Balanced	5%	35%	10%	30%	20%	40%	60%
Assertive	5%	15%	10%	40%	30%	20%	80%
Aggressive	-	-	10%	50%	40%	0%	100%

#### > Risk Tolerance Assessment

Questionnaire is used to risk tolerance assessment





## Analyzing Mutual Funds

- Style Analysis: Style analysis identifies the process of investing by fund managers that leads them to pick certain kinds of securities.
- > Three factors of style analysis:
  - Growth
  - Value
  - Company Size





## Analyzing Mutual Funds

- Solution > Growth Managers buy stocks in companies whose earnings are growing rapidly.
- > Value Managers are bargain hunters seeking stocks with low prices compared to intrinsic value.
- > Company Size Managers specialize in small companies or large cos.







## **Mutual Fund Style Analysis**

- Style determines 85-90% of a fund portfolio's return.
- > The technique looks at the way funds perform on a monthly basis against one of 12 different indexes. The mix of indexes that are most highly correlated determines the style of the mutual fund manager.







#### The mutual fund universe can be divided into six basic styles:

- Small cap growth funds
- Large cap growth funds
- Small cap value
- Large cap value
- Foreign funds
- Fixed income funds







#### Strategy & Objective (VIGRX)

#### Profile



The investment seeks to track the performance of a benchmark index that measures the investment return of large-capitalization growth stocks. The fund employs a passive management investment approach designed to track the performance of the MSCI US Prime Market Growth Index, a broadly diversified index of growth stocks of large U.S. companies. It attempts to replicate the target index by investing all, or substantially all, of its assets in the stocks that make up the index, holding each stock in approximately the same proportion as its weighting in the index. The fund currently offers Investor, Institutional and Admiral shares.

#### Growth







Fund Facts (VIGRX)				
Fiscal Year End	December			
CUSIP	922908504			

Fund Inception 11/02/1992

Net Assets as of 12/31/2010 (\$M) 3,842.80000

Fund Symbol VIGRX

Order Cutoff Time\* 4:00 PM ET

Prospectus & Reports





<sup>\*</sup>You must place your orders by the cutoff time to receive today's closing price.

Orders placed after the cutoff time will receive tomorrow's closing price.



#### Holdings (VIGRX) Top 10 Holdings<sup>2</sup> as of 12/31/2010 @ Apple, Inc. Microsoft Corporation 24.31% International Business Machines Corp Google, Inc. 75.69% Oracle Corporation Cisco Systems, Inc. Top 10 Holdings Schlumberger, Ltd. Other Holdings Wal-Mart Stores, Inc. Philip Morris International, Inc. PepsiCo, Inc. 24.31% of Portfolio Asset Allocation (%)<sup>2</sup> as of 12/31/2010 ② 12/31/2010 Domestic Equities 99.29 Cash 0.07 Foreign Equities 0.64

Turnover Rate as of 12/31/2010 26%





Major Market Sectors (%) <sup>2</sup> as of 12/31/2010	0
	12/31/2010
Basic Materials	4.27
Communication Services	2.32
Consumer Cyclical	14.28
Consumer Defensive	12.61
Energy	7.45
Financial Services	6.31
Healthcare	10.26
Industrials	12.88
Real Estate	1.20
Technology	28.21
Utilities	0.21

#### Portfolio Data @

Weighted Average Maturity as of 12/31/2010	Years
Option Adjusted Duration as of 12/31/2010	Years







#### Fees, Expenses & Loads (VIGRX)

Click on each fee to view additional information and read the footnotes to understand the specific policy regarding each fee.

#### Fidelity Brokerage Fees<sup>1</sup>

#### Transaction Fee (Online):

\$75

#### Fund Management & Admin. Fees 🔞

#### Management Fee:

0.23%

#### Expense Ratio: as of 04/29/2010

0.28%

#### Expense Ratio after Reductions: as of 04/29/2010

0.28%

Expense Ratio after Reductions reflect fund expenses net of fee waivers or reimbursements (if any), which may be voluntary or contractual and expire. For important details regarding the fund's expense waiver/reimbursement arrangements, please see the fund prospectus.

See the Understanding Fees section and the fund prospectus for more information on Fees, Expenses & Loads.







Features (VIGRX)		
Fund Features 🔞		
Minimum Initial Investment	\$3,000	
Minimum Retirement	\$3,000	
Minimum Additional Investment	\$250	
Minimum Automatic Account Builder	\$100	
Simple IRA	No	







#### Prices & Distribution (VIGRX)

Price History as of 04/30/2011



12 Month Low-High	\$24.93 - \$34.10
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Monthly Low-High \$32.61 - \$34.10

On 04/01/2011 \$33.09

On 04/30/2011 \$34.10

Chart Fund Price (NAV)





## Mutual Fund Style Analysis

- In-class exercise:
- The ABC Fund invests primarily in the stocks of small-cap companies, particularly companies that have just gone public for the first time. What type of fund is it?
  - Money-market
  - Fixed income
  - Aggressive growth
  - Balanced







### **Mutual Fund Style Analysis**

- > In-class exercise:
- Here are the top 4 holdings of the High Returns Stock Fund.
  - Big-Blue Computers
  - Orange Computers
  - Semiconductor Manufacturer
  - Macrohard Software
- Based on this information, the High Returns Fund is probably an example of which of the following types of funds?
  - Money-market fund
  - Sector fund
  - Emerging market fund
  - Tax-exempt fund







- > Two Reports a Year: Mutual funds typically issue two financial reports a year the semiannual report, which is often dated June 30 or April 30, and the year-end or annual report, which is often dated December 31 or October 31.
- Shareholder Letter: A shareholder letter is usually written by the fund's president or investment manager and reviews the fund's investment objectives and performance for the current period.
- > Top 10: By looking at a mutual fund's top 10 holdings, you will get a sense of the type of investments in the portfolio and the degree to which the fund meets your investment objectives. Similarly, study the industry composition of the portfolio the percent of the fund's asset that is invested in a particular industry.



- > Investment Portfolio: An investment portfolio comprises the assets (securities) held within a mutual fund.
- > Portfolio Turnover: Portfolio turnover is the percentage of the portfolio's investment that are bought and sold in one year. A fund with a portfolio turnover rate of 100 percent means they effectively bought and sold every security in the portfolio. High portfolio turnover increases transaction expenses and often reduces your rate of return.
- Charts and Graphs: Many mutual fund reports include charts and graphs. A line graph may compare the growth of a \$10,000 investment in the fund to the growth of similar investments over five years, ten years, or over the life of the fund. Pie charts are used to show the % of each type of investment in the fund: common stock, bonds, and cash.





- > Portfolio: Some mutual fund financial reports include a more in-depth discussion of the fund's performance for the period than the shareholder's letter.
- Statement of Assets and Liabilities: A mutual fund's statement of assets and liabilities reflects the fund's financial position at the stock or bond market's close on the date of the report. Assets typically include investments that are valued at market on the financial statement date. Other assets include collateral held for securities loaned and receivables. Two examples are dividends and interest income receivable, which represent income earned by the fund but not yet collected in cash. Liabilities primarily represent amounts the fund owes for the purchase of new securities.







- > Footnotes to the Financial Statements: Mutual fund financial reports include footnotes similar to those found in other annual reports. Footnotes include significant accounting policies, and related party and affiliate transactions.
- > Significant Accounting Policies: Related party and affiliate transactions typically include three types of transactions. The first occurs when payment of fees is made to portfolio managers and financial advisors. The second occurs when a mutual fund accumulates an ownership stake of at least 5% of the company. The third occurs when one mutual fund sells some of its investments to another mutual fund sponsored by the same mutual fund family.



