The Growth Bond ETFs

Trends in Institutional Adoption, Rise of Fixed Income Indexing and FAQs on Bond ETFs

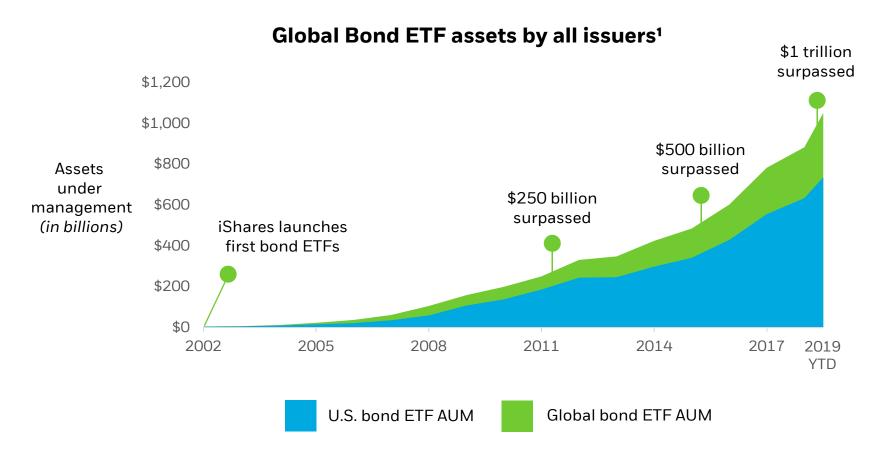
Karen Schenone, CFA

US Fixed Income iShares Strategy
Global Fixed Income, BlackRock

November 2019



Bond ETFs are growing exponentially



By 2024, BlackRock believes that global bond ETF assets will double to \$2 trillion²

¹ BlackRock, GBI, Bloomberg (as of June 2019).

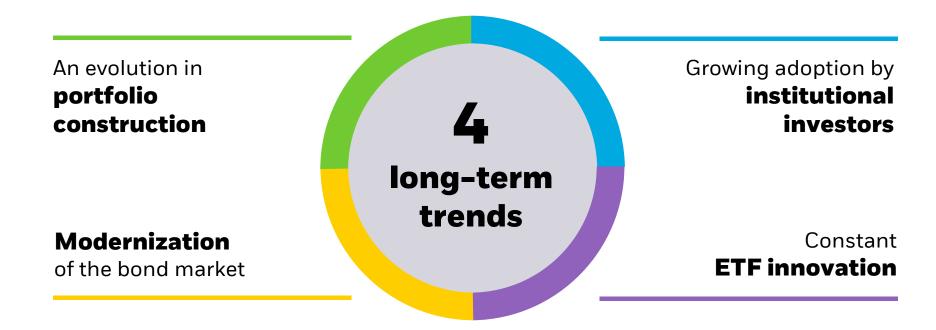
² BlackRock (as of June 2019).



BOND ETFS NOW MAKE UP MORE THAN \$1 TRILLION OF TODAY'S BOND MARKET

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Four secular trends driving bond ETF growth



FOR FINANCIAL PROFESSIONAL USE ONLY - NOT FOR THE GENERAL PUBLIC

Commission-free Trading

Commission-free trading will help entrench ETFs as essential portfolio building blocks, enabling investors to better focus on the quality of funds instead of the upfront charges associated with buying them. The result is **holistic portfolio** construction that emphasizes the outcomes investors need to achieve their goals.

Armando Senra, Head of US iShares

Source: BlackRock (as of June 2019).

An evolution in portfolio construction

Fixed income investors have a growing investment toolset



The next \$1 trillion

It happened.

ETFs have simplified bond investing.

But this is just the beginning.

It took 17 years to reach \$1 trillion. As more and more investors continue to experience all the benefits of bond ETFs, assets are expected to double, to \$2 trillion, by 2024.

Source: BlackRock (as of June 2019).

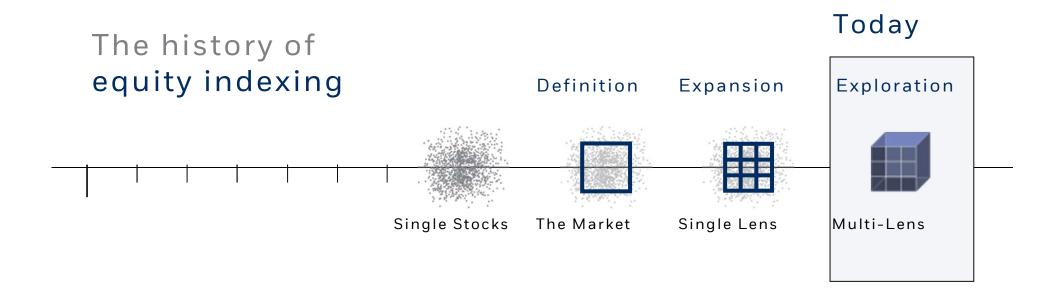
Rise of Fixed Income Indexing



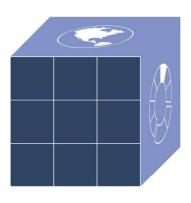




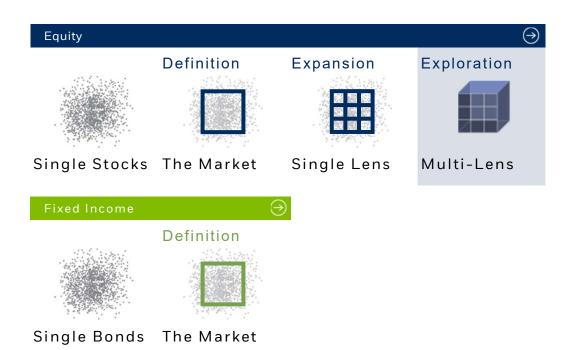
What were we thinking? myth. misunderstanding.



Equities - Indexing empowers Investors



What about Fixed Income?



The history of Fixed Income Indexing...

Perception



The Fixed Income market is twice the size of the equity market.

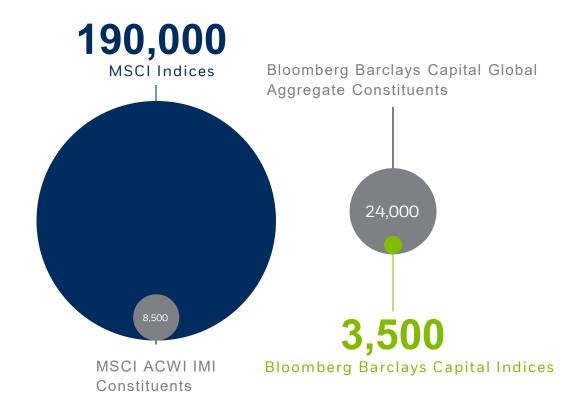
27 53

Equities Fixed Income

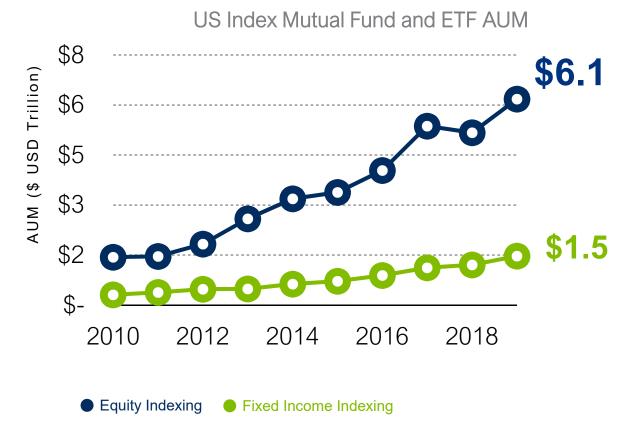
Market Value (\$ USD Trillion)

The Fixed Income market is twice the size of the equity market.

But, bondindexing is far less developed



Indexing in
Fixed Income is
ten years behind
equities...

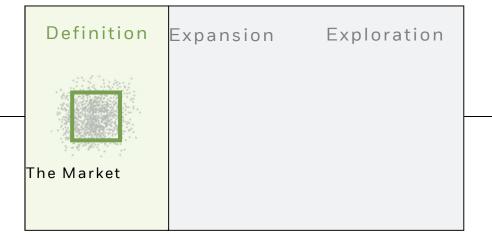


What is holding Fixed Income Indexing back?

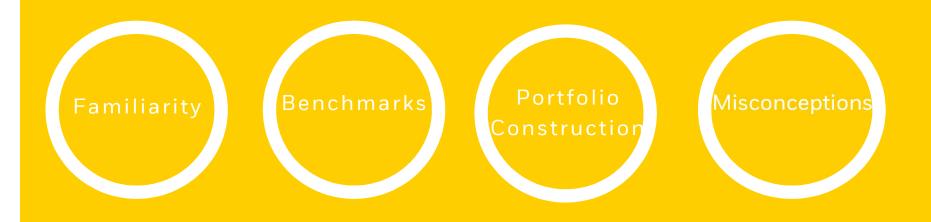
Are bonds really any different?

Perception

Single Bonds



thechallenge



Familiarity

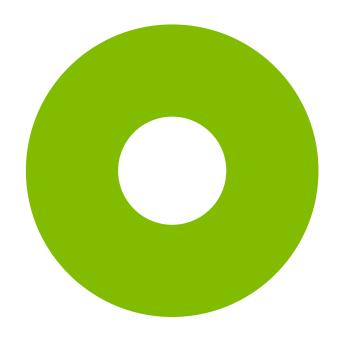
DOW CLOSES ABOVE 22,000 --

Source: CNBC, 01/08/2017

:-- S&P 500 SURGES TO RECORD HIGH

Source: Reuters 11/09/2017

'The myth'
Going passive means buying
the whole market



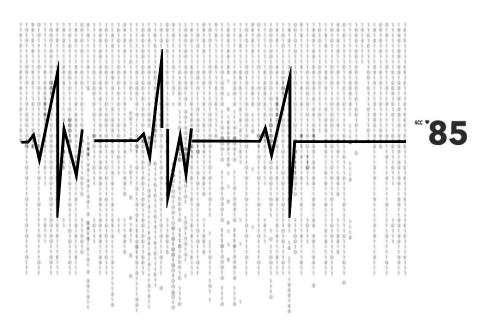
'The reality' Not one size fits all

'The benefits'
Precision, choice and control

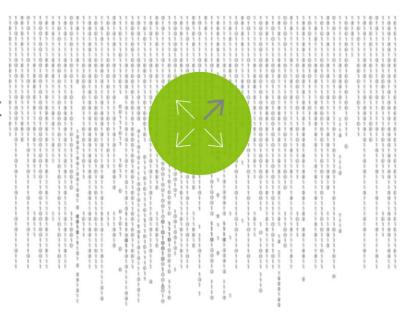


'The myth' Indexing fixed income is inefficient and risky

'The reality'
Pragmatic and intelligent
management



'The benefits' Diversified and transparent exposure vehicles



Know your benchmarks

Question #3

How much high yield is in the Bloomberg Barclays U.S. Aggregate Bond Index?

A.
3.1%
C.
9.2%
D.
14.3%

Know your benchmarks

Question #3

How much high yield is in the Bloomberg Barclays U.S. Aggregate Bond Index?



Sorry...trick question!

BENCHMARKS

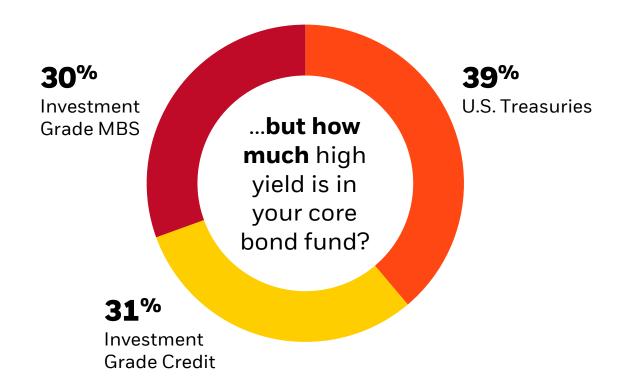
How much high yield is in the Bloomberg Barclays U.S. Aggregate Bond Index?

Answer: 0%

The BBG Bar Cap Agg. is

0%

high yield...



Source: BlackRock Solutions, as of 1/31/19.

BENCHMARKS

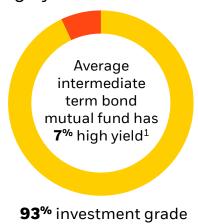
How much high yield is in the Bloomberg Barclays U.S. Aggregate Bond Index?

Answer: 0%

THE PROBLEM

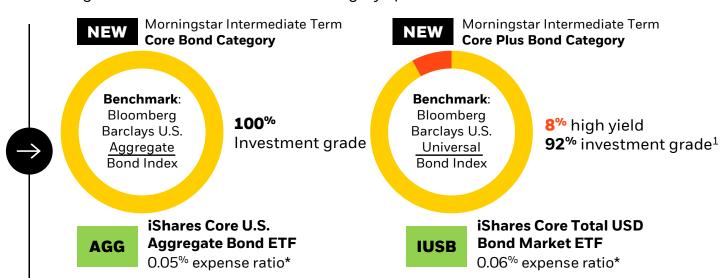
Bond funds were straying from the benchmark

7% high yield



THE SOLUTION

Morningstar Intermediate Term Bond Category splits into two ²



Know what you own in your core bond fund

¹Source: Morningstar. U.S. Universal Bond Index credit quality as of 12/31/18. Intermediate-Term Bond Credit quality uses the 5 year average ending 12/31/18. ²Effective May 1, 2019, Morningstar split the \$1.4 trillion Intermediate-Term Bond Category to better align mutual fund holdings and ETFs with appropriate benchmarks. * Expense ratios are shown below ticker symbols. Contractual fee waivers are in effect for AGG and IUSB through 6/30/26 and 2/29/24 respectively. Gross expenses for this fund are 0.06% and 0.07% respectively.

BENCHMARKS

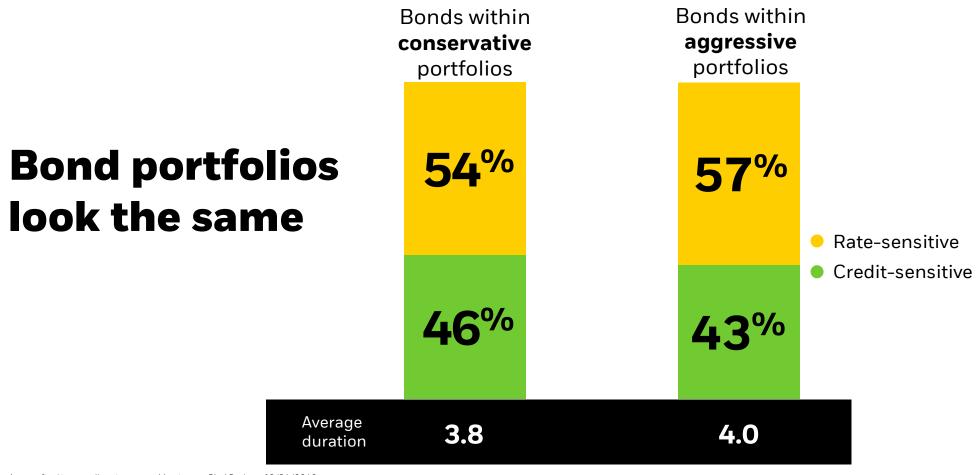
How much high yield is in the Bloomberg Barclays U.S. Aggregate Bond Index?

Answer: 0%

	Am I looking at the right benchmark?	Does my fund beat the category?				
		1 year returns				
Core	iShares Core U.S. Aggregate Bond ETF 0.05% expense ratio*	10.14%	3.30%			
	Morningstar Intermediate Core Bond Category 0.66% average expense ratio	9.31%	2.92%			
Core Plus	iShares Core Total USD Bond Market ETF 0.06% expense ratio*	10.03%	3.50%			
	Morningstar Intermediate Core-Plus Bond Category 0.79% average expense ratio	9.12%	3.21%			

Source: Bloomberg, Morningstar, as of 8/31/19. Returns based on NAV. Past performance does not guarantee future results. For standardized performance, see the **Standardized performance** pages at the end of the presentation. *Contractual fee waivers are in effect for AGG and IUSB through 6/30/26 and 2/29/24 respectively. Gross expenses for this fund are 0.06% and 0.07% respectively.

One size does not fit all



Average fixed income allocation source: Morningstar, BlackRock as of 3/31/2019.

Rate-sensitive fixed income Morningstar categories include: Corporate Bond, Inflation-Protected Bond, Intermediate Government, Intermediate-Term Bond, Long Government, Long-Term Bond, Static Intermediate Bond, Static U.S. Government, and all Municipal categories. Credit-sensitive fixed income Morningstar categories include: Convertibles, Bank Loan, Emerging Markets Bond, Emerging-Markets Local-Currency Bond, High Yield Bond, Multisector Bond, Nontraditional Bond, Preferred Stock, and High Yield Muni. Duration source: Morningstar, BlackRock as of 3/31/19.

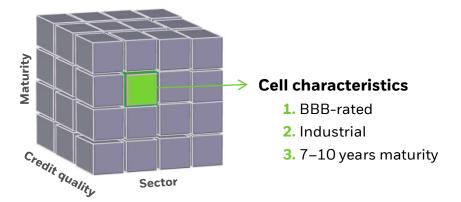
FAQs on Bond ETFs

- 1 How are bond ETFs managed?
- 2 Are bond ETFs more liquid than the bond market?
- **3** What happens to Bond ETFs in stressed markets?

MYTHS

How are bond ETFs managed?

- When full replication is not practical, portfolio managers may employ stratified sampling
- The benchmark is divided into subsets (cells) based upon relative risk factor parameters
- Representative bonds are selected from each cell as portfolio managers seek to balance liquidity, transaction costs, and overall portfolio tax efficiency

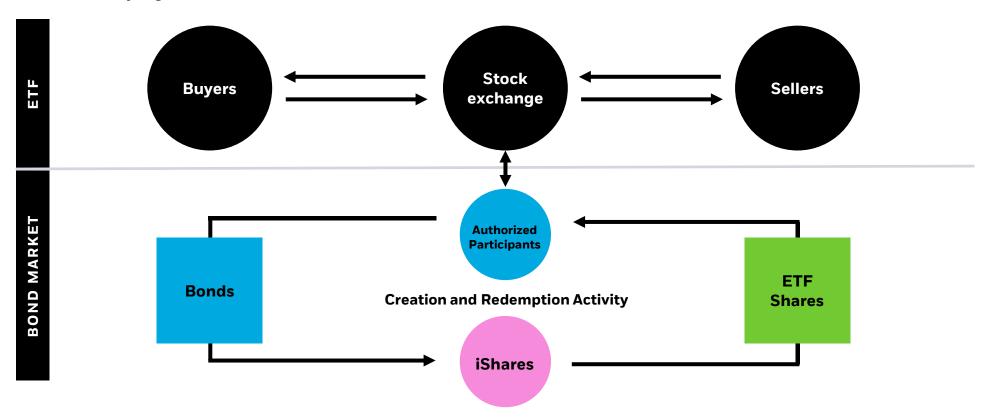


Bond Market Sector	Risk Factors					
US Treasury	Interest Rate (Duration)					
Corporate Bonds	 Interest Rate Sector Credit rating / Credit Spread Optionality or Call features 					
Mortgages	Issuer (FNMA, GNMA, FHLMC)CouponVintagePrepayment Risk					
Municipal	 State Security Type (GO / Revenue) Interest Rate Optionality or Call Features 					
International and Emerging Markets	Country / CurrencyInterest RateSector					

For illustrative purposes only.

Are bond ETFs more liquid than the bond market?

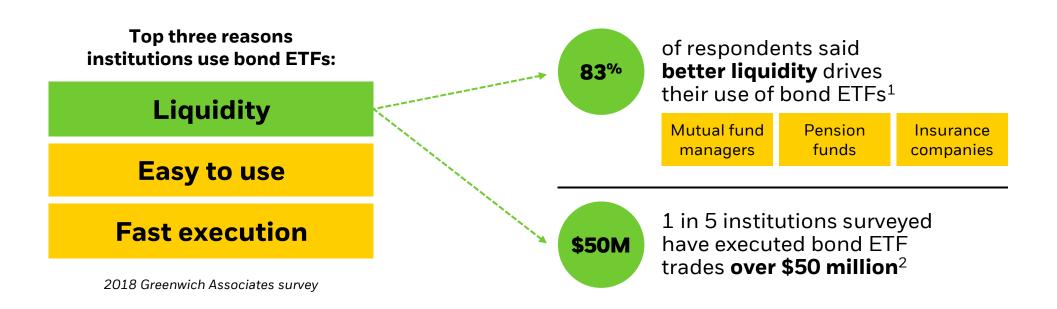
Investors interact primarily on the secondary market, but the liquidity of an ETF extends to the underlying bond markets.



For illustrative purposes only. Shares of iShares ETFs may be bought and sold throughout the day on the exchange through any brokerage account. Shares are not individually redeemable from the ETF, however, shares may be redeemed directly from an ETF by Authorized Participants, in very large creation/redemption units. There can be no assurance that an active trading market for shares of an ETF will develop or be maintained.

What is one of the top reasons institutions use bond ETFs?

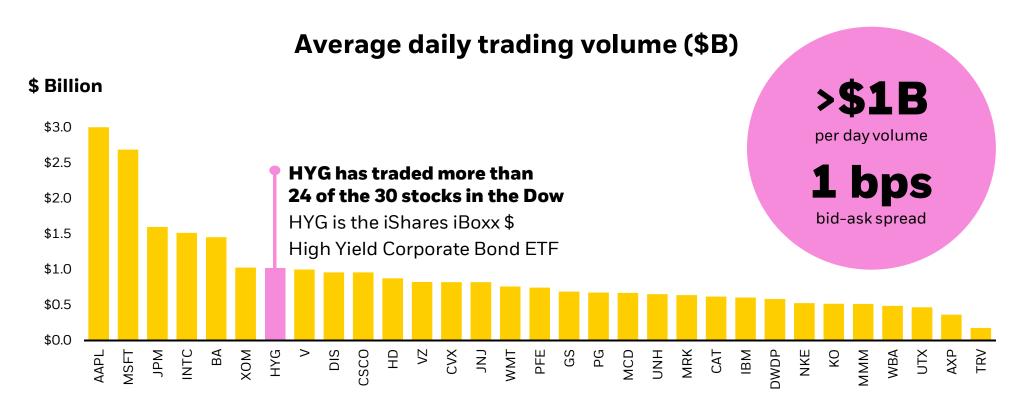
Answer: Liquidity



¹ Source: Greenwich Associates 2018. Bond ETF Study: Institutional Investors Embrace Bond ETFs. Based on 108 survey respondents. **2** Source: Greenwich Associates 2017. Bond ETF Study: Institutional Investors Embrace Bond ETFs. Based on 87 survey responses. There can be no assurance that an active trading market for shares of an ETF will develop or be maintained.

What is one of the top reasons institutions use bond ETFs?

Answer: Liquidity



Source: Bloomberg, BlackRock, S&P Dow Jones, as of 12/31/18. Volume based on full year average. There can be no assurance an active trading market for shares of an ETF will develop or be maintained. HYG spread data as per NYSE Arca, Bloomberg as of 10/12/2018.

What is one of the top reasons institutions use bond ETFs?

Answer: Liquidity

Think about how you used to buy cars

1980s **Car dealerships**



Today **Online**

KEY MARKETS	<100 cars per ${\sf lot}^1$	Massive
TRADING SPREADS	Negotiated	All-to-all
PRICING	Asymmetric	Transparent
INFORMATION	Undisclosed	Disclosed

What is one of the top reasons institutions use bond ETFs?

Answer: Liquidity

More liquidity, greater inventory and tighter spreads

OTC (over-the-counter)



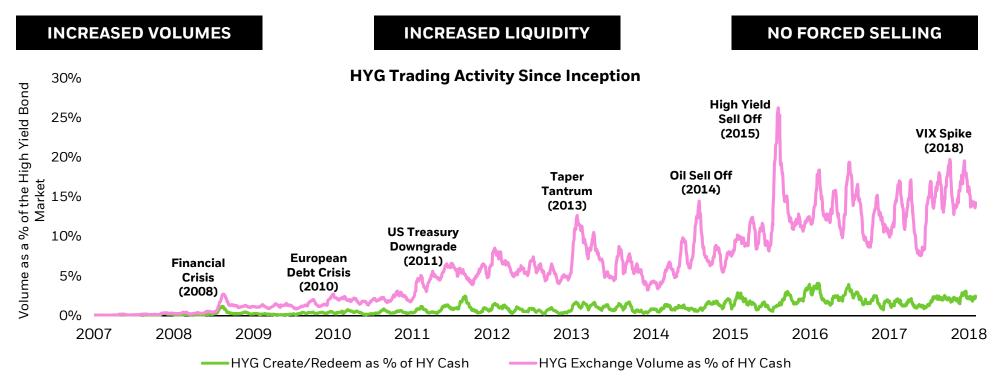
Exchange traded

KEY MARKETS	Bonds, penny stocks	Stocks, ETFs
TRADING SPREADS	Higher ¹	Lower
PRICING	1-to-1 negotiated	All-to-all
INFORMATION	Proprietary	Public

¹ Source: BlackRock, Bloomberg, Barclays, NYSE Arca, as of 6/29/2018. Compares basket bid/offer spread of iShares bond ETFs vs the underlying securities of the indexes. There can be no assurance that an active trading market for shares of an ETF will develop or be maintained.

What happens to bond ETFs in stressed markets?

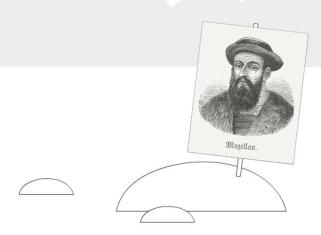
Historically, Bond ETFs have traded MORE, not less, during times of market stress



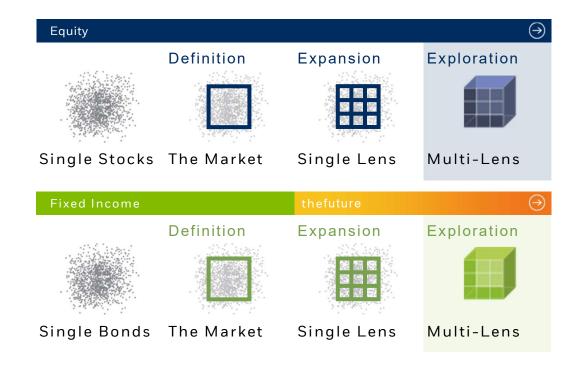
Source: BlackRock and Bloomberg as of 12/31/18.

There can be no assurance that an active trading market for shares of an ETF will develop or be maintained.

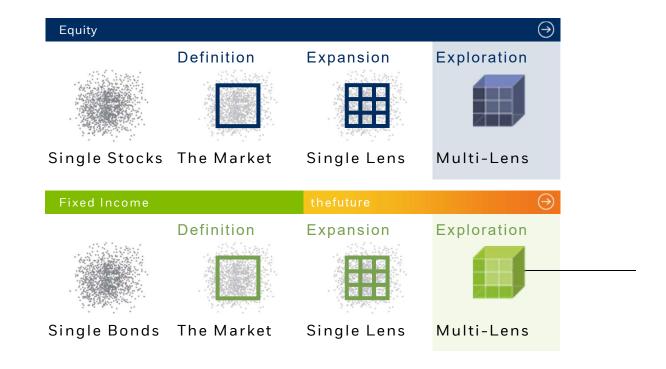
In 1519 a ship set sail...



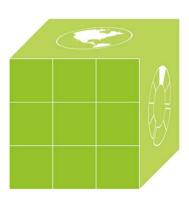
The future of Fixed Income Indexing...



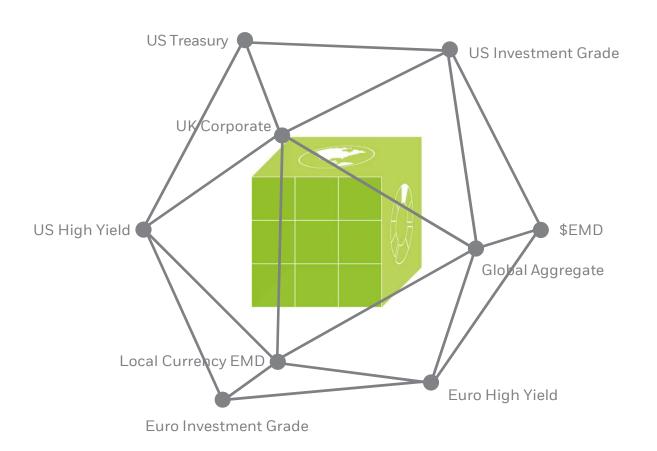
The future of Fixed Income Indexing...



Fixed Income - Indexing empowers Investors



The world of
Fixed Income
Indexing
is multidimensional and
Bond ETFs are a
simple way to
access bond
markets globally



Standardized performance

Fees as of Current Prospectus. All Other Data as of 6/30/19												
				Contractual Fee	1-Year	Returns	5-Year	Returns	10-Year	Returns	Since I	Inception
	Fund	Gross	30-Day SEC Yield	Waiver								
	Inception	Expense	(With / Without	Expiration								
Fund Name	Date	Ratio	Waiver)	(If Applicable)	NAV	Mkt Price	NAV	Mkt Price	NAV	Mkt Price	NAV	Mkt Price
iShares Core U.S. Aggregate Bond ETF	9/22/2003	0.06%	2.50% / 2.49%	June 30, 2026	7.84%	7.79%	2.91%	2.91%	3.78%	3.73%	4.02%	4.01%
iShares Core Total USD Bond Market ETF	6/10/2014	0.07%	2.71% / 2.70%	February 29, 2024	8.03%	8.06%	3.13%	3.16%			3.25%	3.27%

The performance quoted represents past performance and does not guarantee future results. Investment return and principal value of an investment will fluctuate so that an investor's shares, when sold or redeemed, may be worth more or less than the original cost. Current performance may be lower or higher than the performance quoted. Performance data current to the most recent month end may be obtained by visiting www.iShares.com or www.blackrock.com. Shares of

ETFs are bought and sold at market price (not NAV) and are not individually redeemed from the Fund. Brokerage commissions will reduce returns. Market returns are based upon the midpoint of the bid/ask spread at 4:00 p.m. eastern time (when NAV is normally determined for most ETFs), and do not represent the returns you would receive if you traded shares at other times. Performance shown reflects fee waivers and/or expense reimbursements by the investment advisor to the fund for some or all of the periods shown. Performance would have been lower without such waivers.

^{*}Contractual fee waivers are in effect for AGG and IUSB through 6/30/26 and 2/29/24 respectively. Net expense ratios are 0.05% and 0.06% respectively.

Important notes on iShares ETFs

Carefully consider the Funds' investment objectives, risk factors, and charges and expenses before investing. This and other information can be found in the Funds' prospectuses or, if available, the summary prospectuses which may be obtained by visiting www.iShares.com or www.blackrock.com. Read the prospectus carefully before investing.

Investing involves risk, including possible loss of principal.

Fixed income risks include interest-rate and credit risk. Typically, when interest rates rise, there is a corresponding decline in bond values. Credit risk refers to the possibility that the bond issuer will not be able to make principal and interest payments. Non-investment-grade debt securities (high-yield/junk bonds) may be subject to greater market fluctuations, risk of default or loss of income and principal than higher-rated securities. There may be less information on the financial condition of municipal issuers than for public corporations. The market for municipal bonds may be less liquid than for taxable bonds. Some investors may be subject to federal or state income taxes or the Alternative Minimum Tax (AMT). Capital gains distributions, if any, are taxable.

International investing involves risks, including risks related to foreign currency, limited liquidity, less government regulation and the possibility of substantial volatility due to adverse political, economic or other developments. These risks often are heightened for investments in emerging/developing markets and in concentrations of single countries.

Investment comparisons are for illustrative purposes only. To better understand the similarities and differences between investments, including investment objectives, risks, fees and expenses, it is important to read the products' prospectuses.

The strategies discussed are strictly for illustrative and educational purposes and are not a recommendation, offer or solicitation to buy or sell any securities or to adopt any investment strategy. There is no guarantee that any strategies discussed will be effective. The information presented does not take into consideration commissions, tax implications, or other transactions costs, which may significantly affect the economic consequences of a given strategy or investment decision.

Transactions in shares of ETFs will result in brokerage commissions and will generate tax consequences. All regulated investment companies are obliged to distribute portfolio gains to shareholders.

The iShares Funds are distributed by BlackRock Investments, LLC (together with its affiliates, "BlackRock").

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