

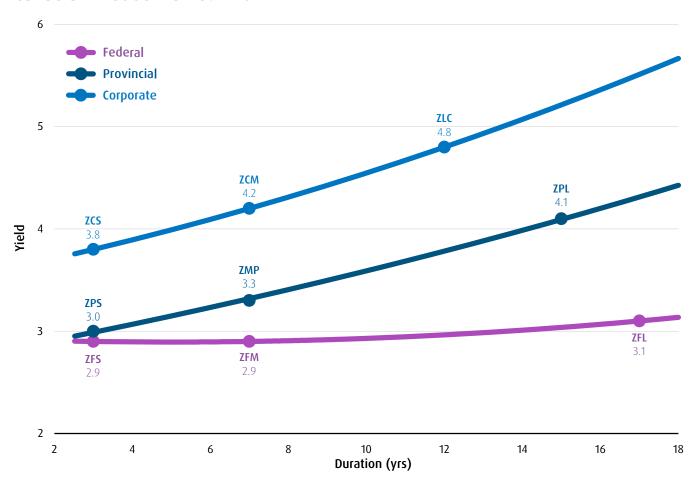
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Exchange Traded Funds were originally institutional tools, focussed mainly on broad Beta equity indices. Institutions were the primary adopters because ETFs provided simplicity and efficiency to allocate assets in large blocks that would otherwise take time to execute.

Though it took a couple of years, fixed income ETFs emerged to address a more acute need to bring similar trading efficiencies to bonds. Today, institutional investors have a broad array of precisely defined fixed income index ETFs to execute their investment objectives. A collaborative and sophisticated ETF ecosystem has demonstrated its ability to inject transparency, anonymity and capacity into an over-the-counter security which is otherwise more difficult to trade effectively or in size

### **Canadian Precise Market ETFs**



ZCS: BMO Short Corporate Bond Index ETF ZCM: BMO Mid Corporate Bond Index ETF ZLC: BMO Long Corporate Bond Index ETF

**ZPS:** BMO Short Provincial Bond Index ETF **ZMP:** BMO Mid Provincial Bond Index ETF **ZPL:** BMO Long Provincial Bond Index ETF

**ZFS:** BMO Short Federal Bond Index ETF **ZFM:** BMO Mid Federal Bond Index ETF **ZFL:** BMO Long Federal Bond Index ETF

Source: Bloomberg Inc. As of December 31, 2024.

# Why BMO ETFs for Fixed Income?

BMO Exchange Traded Funds was one of the first ETF issuers in 2009 and it has become the second largest ETF provider in Canada<sup>1</sup>. Investors continue to choose BMO ETFs because of our commitment to deliver award winning innovation and education<sup>2</sup> to help build better portfolios.

With over 40 billion in fixed income ETF assets under management, BMO is the largest fixed income ETF provider in Canada with scale and adaptability. BMO remains the leader in fixed income ETFs with a robust shelf of over 70 fixed income ETFs. These ETFs consist of the most precise fixed income suite in Canada that covers broad market, targeted and non-traditional exposures.

\$100B

23%

#1

20+

Gathered over \$100 billion in AUM<sup>1</sup>

of Canadian ETF market share<sup>1</sup>

Largest fixed income ETF provider in Canada. Bradest fixed income suite in Canada<sup>1</sup>

Awards won by BMO ETFs<sup>2</sup>

BMO is the only provider to split the entire fixed income spectrum by term and credit in Canada.<sup>3</sup>

# Challenges in Fixed Income

Fixed Income Portfolio Managers and Institutions are facing a challenging fixed income environment, with bond inventories declining and liquidity constraints on individual issuances. Liquidity strains in the fixed income market can be overcome by using ETFs as they add an additional layer of liquidity. Fixed Income ETFs offer unparalleled transparency and liquidity in an efficient tool that is changing the way portfolios are managed.

Canadian Institutions have already integrated ETFs into their portfolio strategies, most significantly in fixed income, and their motives are simple;

Fixed Income is the fastest growing segment of the Canadian ETF market.<sup>1</sup>



### Trading

- enhanced liquidity
- price/trading transparency
- trade anonymity



Diversification Benefits/
Access to Markets

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<sup>&</sup>lt;sup>1</sup>Source: National Bank Report, January 3, 2025.

<sup>&</sup>lt;sup>2</sup> Source: Fund Grade Awards 2023, Lipper Awards 2023.

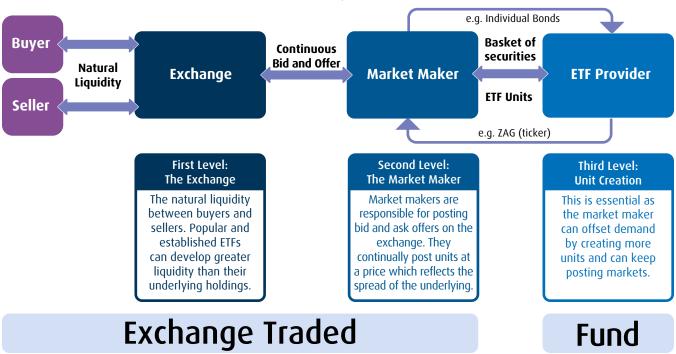
<sup>&</sup>lt;sup>3</sup> Source: Bloomberg, as of December 31, 2024.

# Benefits of Fixed Income ETFs

## 1. Trading

ETF Secondary market liquidity is highly advantageous to fixed income managers because it provides flexibility and tight execution.

### **HOW AN ETF TRADES - THREE LEVELS OF LIQUIDITY**

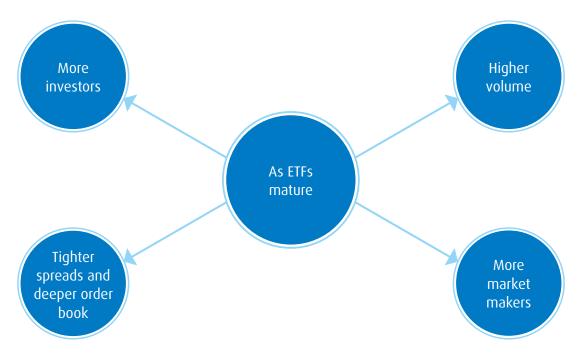


**Be cautious** in using volume as an indicator of liquidity, **true liquidity** is the liquidity of the underlying market (at a minimum)

- Watch the reported volume, **ETFs trade on many exchanges**
- · Spread is an important indication of liquidity
- Institutions can use a variety to trading techniques to ensure their price is met

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Secondary market liquidity is unique to ETFs and does not apply to individual bond holdings or bond pools. ETF volume is additive to what trades in the underlying market (underlying market is where active managers trade).



ETFs have taken a largely off-exchange, OTC driven asset class and democratized its price discovery. Where individual bond prices may be stale or based on quotes instead of transactions, fixed income ETFs trade based on the exchange bid and ask, adjusting to the value of the underlying basket of bonds at any point in the trading day. The price transparency this has created means more efficient and cost-effective trading. ETFs can be a liquidity vehicle in periods of market stress, and while spreads may adjust, exiting positions will be easier compared to individual bonds which may not trade at all.

Institutions can benefit from and see great value in the trade anonymity provided by using ETFs and trading on an exchange. Instead of execution costs across a basket of bonds that may take days to execute, a single trade on an ETF provides instant exposure for the buyer.

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# Benefits of Fixed Income ETFs

## 2. Cost

#### **MER**

- · Annual fee payable to the manager of the ETF
- Includes; custodian/valuation fees, transfer agent fees and any other services retained by the manager to run the fund

### Spread

- The difference between the bid/ask price on the FTF
- Spreads can be impacted by the volume of the ETF, AUM of the ETF along with the liquidity of the underlying

### **Premium/Discount**

- Difference in the quoted price of the ETF and the NAV is expressed as a Premium (when market price of ETF is above NAV) or Discount (when market price of ETF is below the NAV)
  - It is important for investors to be aware, especially during market open and close or during periods of high market volatility, that they may be transacting at levels inconsistent with the underlying securities

### **Commissions**

· Commission paid to the broker for trading the ETF

ETFs spread costs, while a factor, are often lower than spreads on individual bonds, particularly with harder to trade corporate bonds. Example below outlines an illustration of spread differentials between individual bonds, and ETFs.

ETF

Costs

Ticker	Maturity	Credit	Institutional Spread	ETF Spread
ZAG	Aggregate	Aggregate	0.29%	0.07%
ZFS	Short	Federal	0.04%	0.05%
ZFM	Mid	Federal	0.07%	0.07%
ZFL	Long	Federal	0.20%	0.08%
ZPS	Short	Provincial	0.04%	0.05%
ZMP	Mid	Provincial	0.06%	0.05%
ZPL	Long	Provincial	0.17%	0.14%
ZCS	Short	Corporate	0.08%	0.07%
ZCM	Mid	Corporate	0.20%	0.06%
ZLC	Long	Corporate	0.57%	0.20%
ZMBS	Short	Federal	0.30%	0.07%
ZCB	Full term	Corporate	0.36%	0.13%
ZGB	Full term	Federal	0.10%	0.07%
ZBBB	1-10 year	Corporate	0.17%	0.18%
ZQB	1–10 year	Corporate	0.20%	0.17%

Source: BMO Global Asset Management. For illustrative purposes only.

Please note that the ETF will trade in-line with the underlying securities but, due to ETFs trading at NAV but carrying a \$0.01 spread, will appear to have a wider spread due to rounding. In essence, an ETF unit creation will always trade the same as a trade in the underlying securities

Additionally, securities lending in the ETF can offset or potentially cover the MER, thereby increasing the yield.

# Benefits of Fixed Income ETFs

## 3. Access & Diversification

Fixed Income ETFs provide beta exposure to segments of the market that were previously difficult to access such as High Yield, Emerging Markets, and Floating Rate Loans. They serve as a liquid tool to manage duration or credit exposure, adapting as markets change. Geographic diversification of many indices also helps improve yield and reduce volatility relating to potential rate hikes in any given geography. Most bond *alpha* is generated by a small number of bonds. The rest of the exposure can be held in fungible fixed income ETFs which have better liquidity, diversification and tighter spreads compared to cash bonds.

# BMO Fixed Income ETFs

Ten years ago, when looking at over the counter (OTC) asset classes like fixed income and preferred shares, the Canadian ETF marketplace was still in it's infancy, offering only 10 ETFs from two providers. ETFs add the transparency and trading efficiency of exchange trading to give investors better options, better execution, and the opportunity to apply asset allocation across their portfolio.

Historically, investors typically created portfolios of direct bonds, or held an aggregate fixed income fund. ETFs have allowed institutions to better position fixed income instead of focusing only on equity markets. Early in the development of the BMO ETF shelf, we created a unique grid that covers the Canadian investment grade universe, using precise segmentation to create nine ETFs across short-mid-long term crossed with federal-provincial-corporate exposures.

BMO ETFs is a top 10 Global Fixed Income ETF Provider (based on AUM) offering the most precise fixed income suite in Canada.

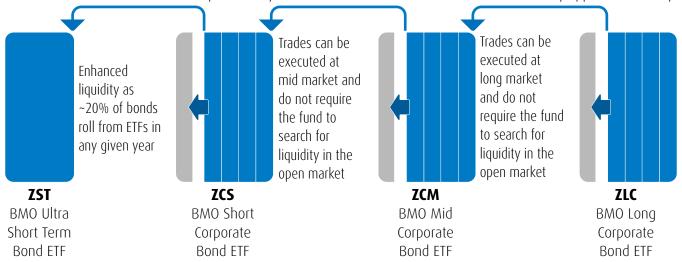
We have solutions covering broad market exposures, targeted and non-traditional exposures. This granularity offered helps portfolio managers build more precise exposures and tactically adjust those portfolios given their market outlooks.

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## Sampling & Scalability Advantage

A unique advantage of the BMO ETF suite is its sampling and scalability advantage which provides an additional liquidity layer on an annual basis, minimizing the necessity to buy bonds in the open market. This gives the current fund a significant amount of room to continue to grow (this is in addition to our ability to go to the Dealer network to source bonds)

BMO ETF bond execution is aided by our ability to move individual issues down the curve as they approach maturity.

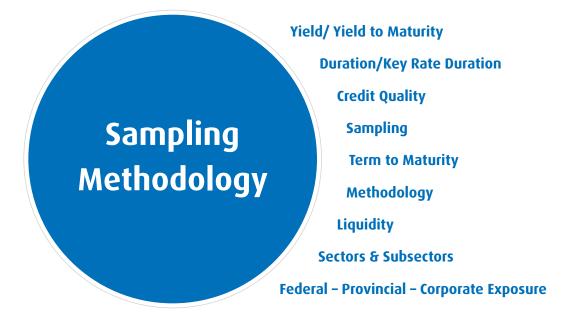


~20% of the short corporate universe will roll under 1yr in any given year.

Consider as an example the Short Corporate Bond ETF being 1.5B \$300MM of supply that the Ultra Short Term Bond ETF can take advantage of

For illustrative purposes only

Liquidity is enhanced further by our sampling methodology where the fixed income delivery basket is updated frequently to ensure we are sampling the most liquid names.



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# BMO ETFs Road Map

## Core Fixed Income Road Man

	Broad	Market				
BMO Ultra Short-Term Bond  ZST  distributing units  Duration: 0.3  Yield to Maturity: 3.5%	BMO Aggregate Bond  ZAG*  Duration: 7.3  Yield to Maturity: 3.6%	BMO Discount B ZDB <sup>*</sup> Duration: 7.3 Yield to Maturity:	ZRR Duration:	BMO Real Return Bond  ZRR  Duration: 13.2  Yield to Maturity†: 3.6%		
	Canadian Segr	nented Market				
BMO Government Bond ZGB  Duration: 7.8  Yield to Maturity: 3.4%	Z( Durati	BMO Corporate Bon  ZCB  Duration: 5.8  Yield to Maturity: 4.0%		BMO Short-Term Bond  ZSB  Duration: 2.7  Yield to Maturity: 3.2%		
		ecise market				
BMO Short Corporate Bo  ZCS* distributing units  Duration: 2.7  Yield to Maturity: 3.7%	5.L ZC	rporate Bond CM on: 6.5 turity: 3.6%	BMO Long Corporate Bond  ZLC*  Duration: 12.5  Yield to Maturity: 4.8%			
BMO Short Provincial Bo  ZPS* distributing units  Duration: 2.9  Yield to Maturity: 3.1%	S.L ing units Durati	ovincial Bond  1P* on: 6.5 turity: 3.6%	BMO Long Provincial Bond  ZPL*  Duration: 14.8  Yield to Maturity: 4.2%			
BMO Short Federal Bon  ZFS* distributing units  Duration: 2.6  Yield to Maturity: 3.0%	S.L ing units Durati	ederal Bond M* on: 6.8 turity: 3.2%	BMO Long Federal Bond  ZFL  Duration: 18.3  Yield to Maturity: 3.4%			
	US/G	ilobal				
BMO Short-Term US Treasury  ZTS unhedged  Duration: 2.6 Yield to Maturity: 4.3%	S.U units ZTM unhedged Durati	JS Treasury Bond  ZTM.U  USD units  on: 6.2 turity: 4.5%	BMO Long-Term US Treasury Bond  ZTL  unhedged  Duration: 16.3  Yield to Maturity: 4.9%			
BMO Ultra Short-Term US E  ZUS.U  USD units  Vield to Maturity: 2.9%  Risk Rating: Low	S.V A Lating units hedged Yield to Ma	GIG Corporate Bond  SU Ho CAD turity: 2.5% ing: Low	BMO Mid-Term US IG Corpo  ZMU* hedged to CAD  Yield to Maturity: 3.0  Risk Rating: Low	ZIC.U hedged USD t		
BMO Ultra Short-Term Bo ZFH* Duration: 0.2 Yield to Maturity: 6.4%	ZJK* unhedged	IS Corporate Bond  ZJK.U* hedged to CAD  on: 3.2 hturity: 7.4%	BMO Emerging Market  ZEF  hedged to CAD  Duration: 4.5  Yield to Maturity: 6.0			

Passive Foreign Investment Company (PFIC) annual information statements available. † With inflation assumption.

Source: BMO Global Asset Management, as of December 31, 2024.

# Performance

Ticker	Inception Date	YTD	1 Year	3 Year	5 Year	10 Year	Since Inception	
Broad Market								
ZST	28/Jan/11	5.30%	5.30%	3.91%	2.74%	2.17%	2.15%	
ZST.L	9/Feb/17	5.30%	5.30%	3.91%	2.75%	_	2.44%	
ZAG	19/Jan/10	4.15%	4.15%	-0.68%	0.70%	1.85%	2.84%	
ZRR	19/May/10	3.21%	3.21%	-3.84%	0.33%	1.40%	2.67%	
Canadia	Canadian Segmented Market							
ZGB	2/Mar/18	3.18%	3.18%	-1.43%	0.19%	_	1.38%	
ZCB	2/Mar/18	6.56%	6.56%	1.21%	1.99%	_	2.71%	
ZSB	2/Mar/18	5.58%	5.58%	2.00%	2.01%	_	2.15%	
Canadia	n Percise M	arket						
ZCS	20/0ct/09	7.13%	7.13%	2.93%	2.82%	2.59%	2.90%	
ZCS.L	9/Feb/17	7.13%	7.13%	2.93%	2.83%	_	2.62%	
ZCM	19/Jan/10	7.74%	7.74%	1.48%	2.53%	3.08%	4.12%	
ZLC	19/Jan/10	5.00%	5.00%	-1.74%	0.27%	2.83%	4.92%	
ZPS	20/0ct/09	5.01%	5.01%	1.59%	1.67%	1.58%	2.01%	
ZPS.L	9/Feb/17	5.01%	5.01%	1.59%	1.67%	_	1.58%	
ZMP	19/Mar/13	4.63%	4.63%	-0.01%	1.27%	2.04%	2.36%	
ZPL	19/Mar/13	0.56%	0.56%	-5.35%	-2.11%	1.41%	2.13%	
ZFS	20/0ct/09	4.60%	4.60%	1.40%	1.44%	1.22%	1.58%	
ZFS.L	9/Feb/17	4.59%	4.59%	1.39%	1.43%	_	1.25%	
ZFM	29/May/09	3.19%	3.19%	-1.34%	0.16%	1.01%	2.39%	
ZFL	19/May/10	-2.04%	-2.04%	-7.23%	-3.54%	-0.07%	2.31%	

Ticker	Date	YTD	1 Year	3 Year	5 Year	10 Year	Inception	
US/Glob	US/Global Fixed Income							
ZTS	28/Feb/17	11.85%	11.85%	4.81%	2.86%	_	2.36%	
ZTS.U	28/Feb/17	3.11%	3.11%	0.44%	0.79%	_	1.15%	
ZTM	28/Feb/17	8.68%	8.68%	1.08%	1.09%	_	1.72%	
ZTM.U	28/Feb/17	0.18%	0.18%	-3.13%	-0.95%	_	0.57%	
ZTL	28/Feb/17	-0.20%	-0.20%	-9.64%	-4.33%	_	-0.72%	
ZTL.U	28/Feb/17	-8.00%	-8.00%	-13.40%	-6.26%	_	-1.69%	
ZUS.U	15/Feb/19	5.37%	5.37%	3.79%	2.45%	_	2.43%	
ZUS.V	15/Feb/19	5.37%	5.37%	3.79%	2.45%	_	2.43%	
ZMU	20/Mar/13	1.65%	1.65%	-2.18%	-0.10%	2.01%	2.17%	
ZIC	19/Mar/13	11.50%	11.50%	2.99%	2.72%	4.74%	5.46%	
ZIC.U	19/Mar/13	2.79%	2.79%	-1.30%	0.64%	2.52%	2.45%	
ZFH	10/Feb/14	11.47%	11.47%	8.07%	4.86%	5.39%	5.24%	
ZJK	4/0ct/17	16.14%	16.14%	6.64%	5.12%		5.57%	
ZJK.U	12/Feb/21	7.05%	7.05%	2.19%	_	_	2.42%	
ZEF	21/May/10	3.79%	3.79%	-1.95%	-0.46%	1.49%	3.34%	

Performance Data Source: Bloomberg as of December 31, 2024.

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### **Global Asset Management**

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