

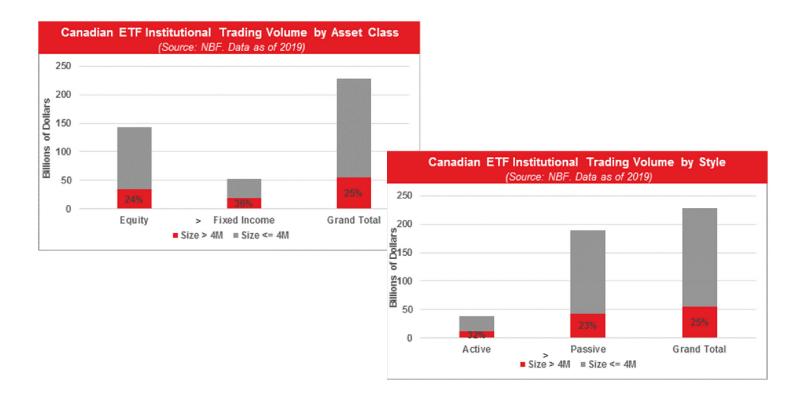
# Challenges in Fixed Income

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. The charts below show Canadian ETF Institutional trading volume by asset class and style.

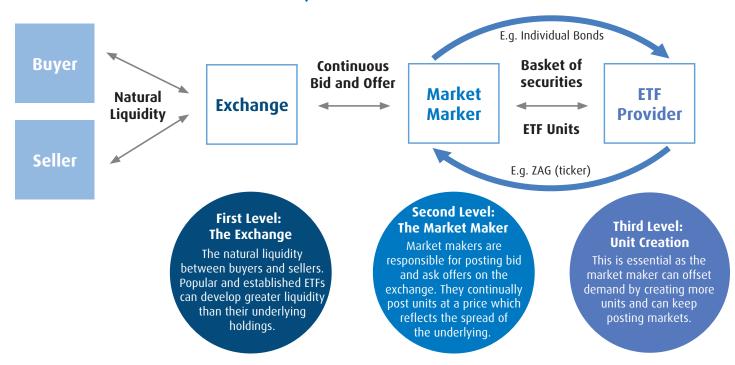


## Benefits of Fixed Income ETFs

# 1. Trading

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

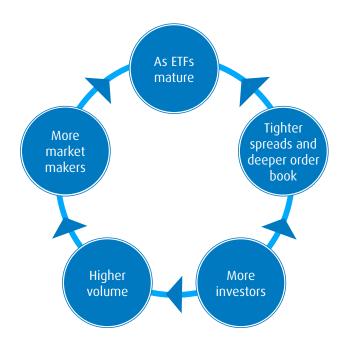
#### **HOW AN ETF TRADES - THREE LEVELS OF LIQUIDITY**



**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**

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)



The chart below shows an Illustration of the additional liquidity on trading activity provided by BMO's fixed income ETFs. For each dollar traded, only a fraction results in subscription or redemption activity as significant trading occurs between buyers and sellers on the exchange.

Ticker	ETF Name	Dollar Traded	Subscription/ Redemption Activity
ZAG	BMO Aggregate Bond Index ETF	\$100	\$56.0
ZCS	BMO Short Corporate Bond Index ETF	\$100	\$66.8
ZHY	BMO High Yield US Corp Bond Hedged to CAD Index ETF	\$100	\$7.7
ZCM	BMO Mid Corporate Bond Index ETF	\$100	\$14.9
ZIC	BMO Mid-Term US IG Corporate Bond Index ETF (CAD)	\$100	\$43.6
ZPR	BMO Laddered Preferred Share Index ETF	\$100	\$29.6

For illustrative purposes only

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.

## 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 ETF
- 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



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, & ETFs.

ETF

Costs

Ticker	Maturity	Credit	Institutional Spread	ETF Spread
ZFS	Short	Federal	0.03%	0.07%
ZFM	Mid	Federal	0.07%	0.06%
ZFL	Long	Federal	0.11%	0.12%
ZPS	Short	Provincial	0.05%	0.08%
ZMP	Mid	Provincial	0.09%	0.07%
ZPL	Long	Provincial	0.15%	0.13%
ZCS	Short	Corporate	0.17%	0.07%
ZCM	Mid	Corporate	0.40%	0.13%
ZLC	Long	Corporate	0.70%	0.17%
ZAG	Aggregate	Aggregate	0.30%	0.07%

Source: BMO Global Asset Management. For illustrative purposes only

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.

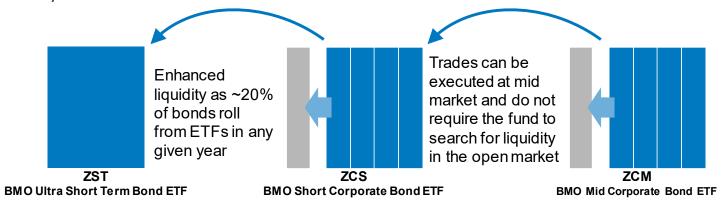
BMO ETFs is a top 10 Global Fixed Income ETF Provider<sup>3</sup> (based on AUM) offering the most precise fixed income suite in Canada.<sup>4</sup>

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.

### **Sampling & Scalability Advantage**

A significant 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.

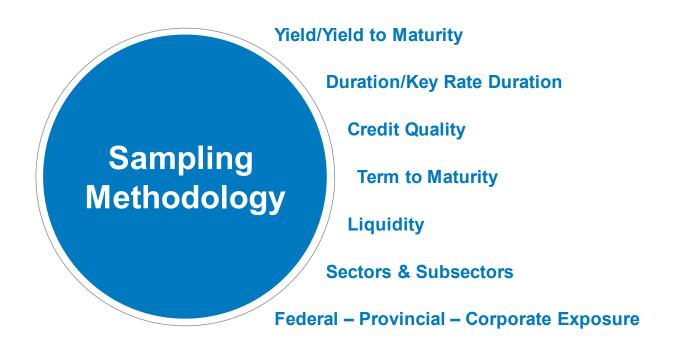


~20% of the short corporate universe will roll under 1yr in any given year.

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.





#### **Contact Us**

bmogam.com

**in** Follow us on Linkedin

This communication is intended for informational purposes only and is not, and should not be construed as, investment, legal or tax advice to any individual. Particular investments and/or trading strategies should be evaluated relative to each individual's circumstances. Individuals should seek the advice of professionals, as appropriate, regarding any particular investment.

BMO Global Asset Management is a brand name that comprises BMO Asset Management Inc., BMO Investments Inc., BMO Asset Management Corp., BMO Asset Management Limited and BMO's specialized investment management firms. Commissions, management fees and expenses (if applicable) all may be associated with investments in exchange traded funds. Please read the ETF Facts or prospectus before investing. The indicated rates of return are the historical annual compounded total returns including changes in unit value and reinvestment of all dividends or distributions and do not take into account sales, redemption, distribution or optional charges or income taxes payable by any unitholder that would have reduced returns. Exchange traded funds are not guaranteed, their values change frequently and past performance may not be repeated. For a summary of the risks of an investment in the BMO ETFs, please see the specific risks set out in the prospectus. BMO ETFs trade like stocks, fluctuate in market value and may trade at a discount to their net asset value, which may increase the risk of loss. Distributions are not guaranteed and are subject to change and/or elimination. BMO ETFs are managed by BMO Asset Management Inc., which is an investment fund manager and a portfolio manager, and a separate legal entity from Bank of Montreal.

<sup>&</sup>lt;sup>1</sup> ETFGI Industry Report – April 2019

<sup>&</sup>lt;sup>2</sup> Bloomberg January 2019

<sup>&</sup>quot;/MRegistered trade-marks/trade-mark of Bank of Montreal, used under licence.All logos and trademarks of other companies are the property of those respective companies.

 $<sup>^{\</sup>circ}$  2020 BMO Global Asset Management. All rights reserved.