

#### Agenda

- > 2022 in a nutshell
- Outlook 2023 : Slippery road ahead
  - Inflation
  - Labor markets
  - Interest rates
  - Recession risks
- Key takeaways



# 2022 in a nutshell

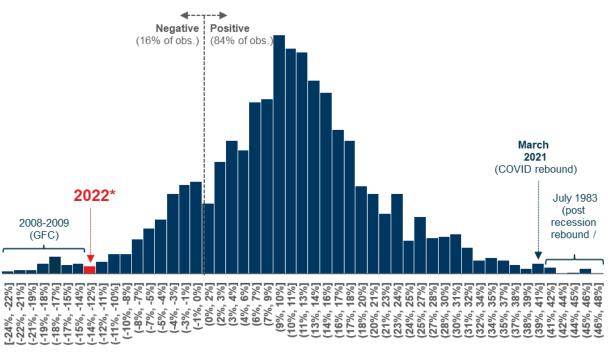
#### 2022: fifty shades of red... and a bit of green

			2022 Total Returns			
Cross Asset	Fixed Income*	S&P/TSX Sectors	S&P 500 Sectors	Equity Regions (C\$)	Canada Factors	US Factors
Commodities	Cash	Energy	Energy	Latin America	Momentum	High Dividend
26.0%	1.4%	30.3%	65.7%	17.5%	3.6%	-3.8%
Cash	Short Term	Consumer Staples	Utilities	Canada	High Dividend	Value
1.4%	-4.0%	10.1%	1.6%	-5.8%	0.6%	-6.2%
Gold	Federal Gov.	Materials	Consumer Staples	EAFE	Value	Low Vol.
-0.7%	-9.2%	1.7%	-0.6%	-7.8%	-0.3%	-14.2%
S&P/TSX	Mid Term	Industrials	Health Care	Europe	Low Vol.	Small Caps
-5.8%	-10.0%	1.4%	-2.0%	-8.3%	-1.1%	-17.2%
CADUSD	Corporate	Comm. Services	Industrials	Japan	Quality	Momentum
-6.8%	-10.1%	-2.6%	-5.5%	-8.7%	-4.8%	-17.4%
Balanced*	High Yield (US)	S&P/TSX	Financials	World	MSCI Canada	MSCI USA
-10.1%	-11.2%	-5.8%	-10.5%	-12.0%	-5.8%	-19.5%
US High Yield	Overall Universe	Consumer Disc.	Materials	United States	Large Caps	Large Caps
-11.2%	-11.5%	-6.0%	-12.3%	-12.2%	-6.2%	-19.7%
Canadian Bonds	Treasuries (US)	Financials	S&P 500	Emerging Markets	Small Caps	Quality
-11.5%	-12.9%	-9.4%	-18.1%	-13.9%	-9.3%	-22.7%
MSCI EAFE	Provi. & Muni.	Utilities	Real Estate	Asia (EM)	Growth	Growth
-14.0%	-13.3%	-10.6%	-26.1%	-15.0%	-14.0%	-32.0%
Can. Pref. Shares	Corporate (US)	Real Estate	Info. Tech.	EMEA (EM)		
-18.1%	-15.4%	-21.5%	-28.2%	-22.8%		
S&P 500	Preferred shares	Info. Tech.	Consumer Disc.			
-18.1%	-18.1%	-52.0%	-37.0%			
MSCI Emerging	Long Term	Health Care	Comm. Services			
-19.7%	-21.5%	-61.6%	-39.9%			



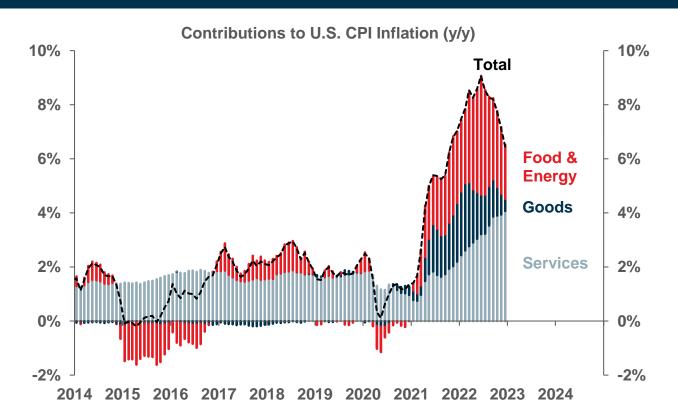
#### One of the worst YoY performance for balanced funds





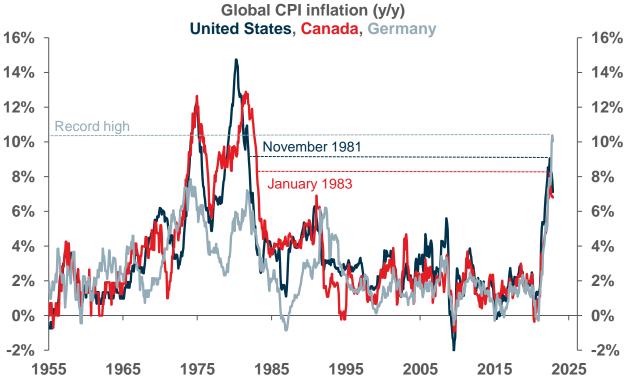


#### A perfect inflationary storm...



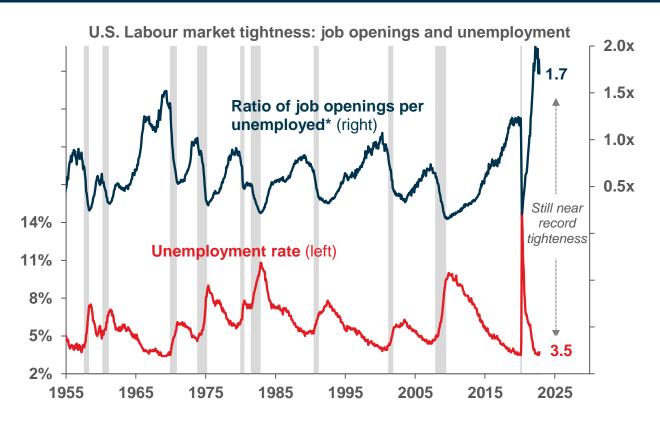


#### ... pushed inflation to record highs...



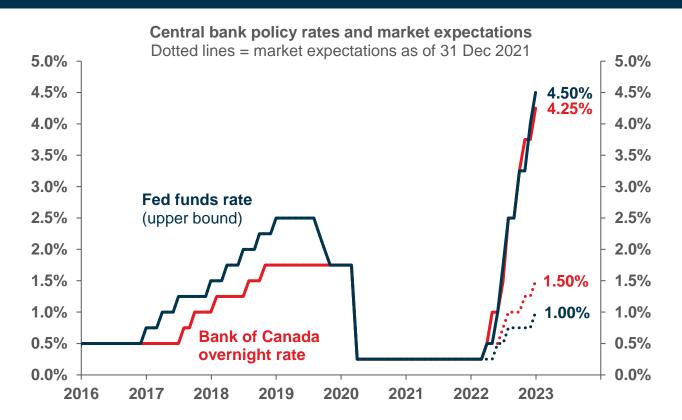


#### ... while overheating risks mounted...



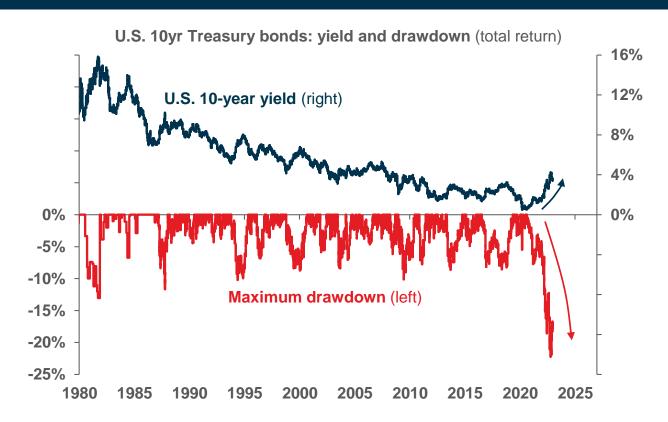


#### ... inciting central banks to tighten policy markedly...



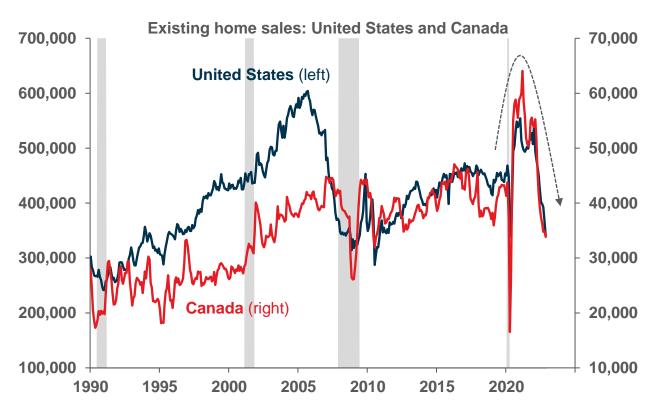


#### ... resulting in steep losses for bonds...



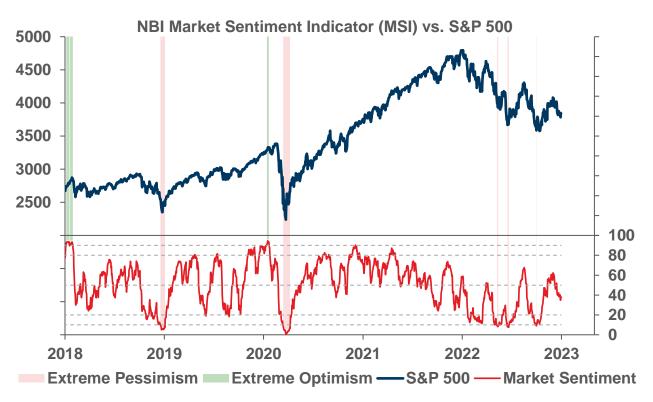


#### ... a significant pullback in real estate...





#### ... increased equity market volatility...





#### ... and a major factor rotation





## Outlook 2023

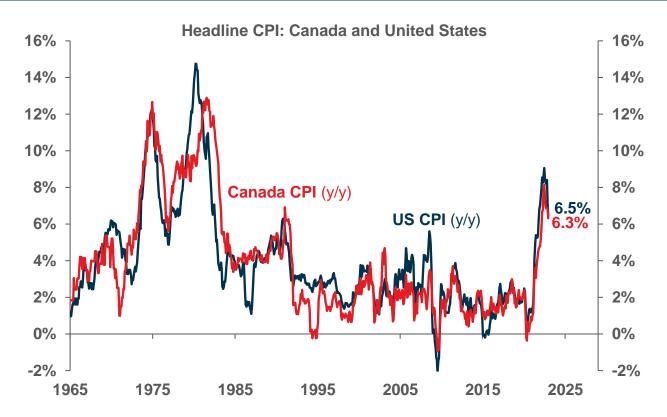


#### Markets off to a good start...



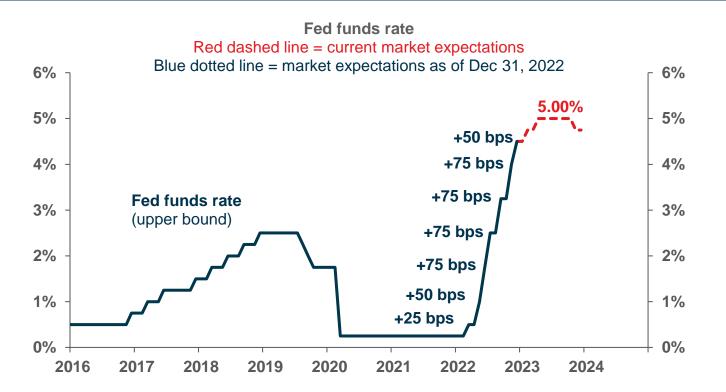


#### ... as inflation finally started to decelerate...





#### ... pushing markets to expect the end of tightening is nigh





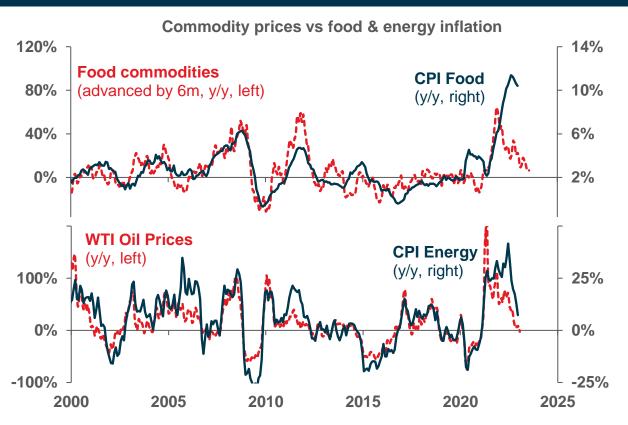
#### Knowing when to start, stop and pivot

Federal Reserve rate-hike cycles since 1972

Fed Chair	First hike		Last hike		First cut	
reu Cilali	Date	Real rate	Date	Real rate	Date	Real rate
Burns	Mar-72	2.0%	Apr-74	0.9%	Jul-74	-2.3%
Miller - Volcker	Aug-77	-0. <mark>6</mark> %	Mar-80	1.7%	Apr-80	1.3%
Volcker	Aug-80	-1. <mark>9</mark> %	May-81	9.2%	Jun-81	9.4%
Volcker	Jun-83	6.4%	Aug-84	7.1%	Sep-84	6.7%
Volcker - Greenspan	Apr-87	2.7%	Sep-87	3.0%	Nov-87	2.3%
Greenspan	Mar-88	2.8%	Feb-89	4.9%	May-89	4.4%
Greenspan	Feb-94	0.7%	Feb-95	3.1%	Jul-95	3.0%
Greenspan	Jun-99	3.0%	May-00	3.3%	Jan-01	1.8%
Bernanke	Jun-04	- <mark>2.</mark> 0%	Jun-06	0.9%	Sep-07	2.0%
Yellen - Powell	Dec-15	-0.2%	Dec-18	0.6%	Jul-19	0.7%
Powell	Mar-22	-8.0%	Current>	-4.5%	?	?
Average		1.3%		3.5%		2.9%

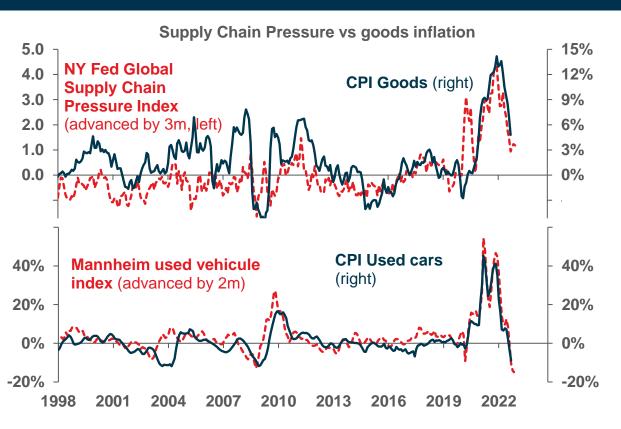


#### Commodity prices on the mend





#### Less pressure on supply chains





#### Inflation in services remains pressured by wage growth...



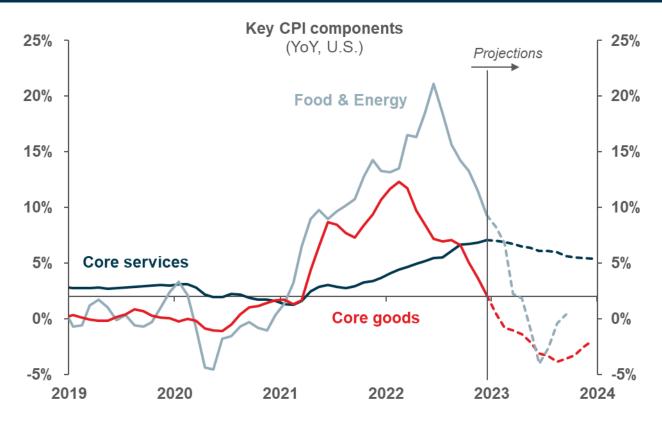


#### ... but peak looming ahead of us



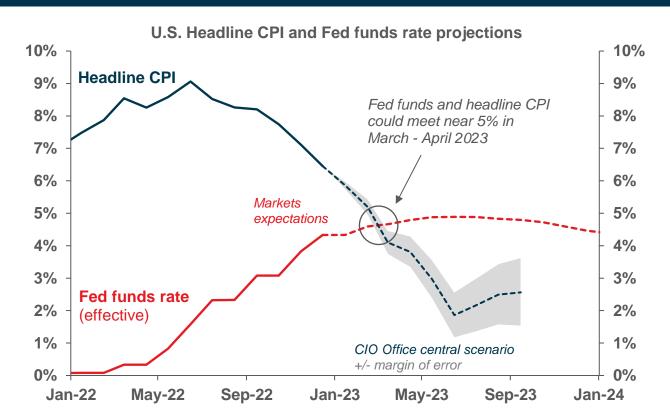


#### Inflation should continue to abate further...





#### ... enabling the Fed to lift its foot off the brake pedal





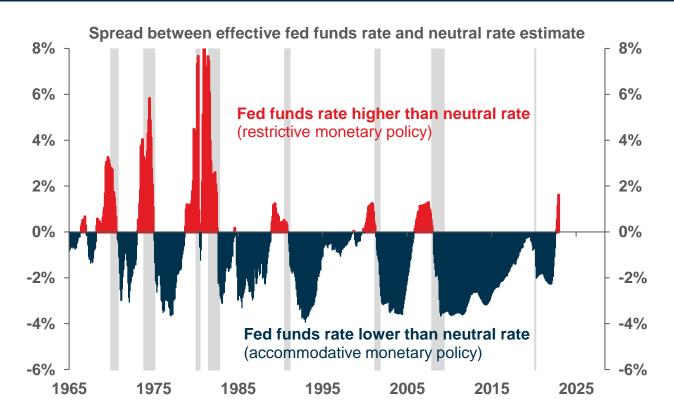
#### But bear market shouldn't be over until they cut rates

Economic and financial conditions during S&P 500 bear market bottoms

Bear market bottom (R = recession)	S&P 500 peak-trough (in %)	S&P 500 peak-trough (in months)	2-yr yields change (past 3m) <sup>1</sup>	Last Fed move	Months since first rate cut <sup>2</sup>	Real policy rate <sup>3</sup>
May-1970 (R)	-36%	17	-175 bps	Cut	0	1.8%
Oct-1974 (R)	-48%	20	-253 bps	Cut	2	-2.8%
Aug-1982 (R)	-27%	20	-87 bps	Cut	13	3.1%
Dec-1987	-34%	3	-5 <mark>4</mark> bps	Cut	1	2.4%
Oct-2002 (R)	-49%	30	-103 bps	Cut	21	-0.3%
Mar-2009 (R)	-57%	17	+11 bps	Cut	16	0.6%
Mar-2020 (R)	-34%	1	-136 bps	Cut	0	- <mark>1.</mark> 3%
Average	<del>-4</del> 1%	15	- <mark>114</mark> bps	-	8	0.5%
October 12, 2022*	<mark>-25</mark> %	9	+124 bps	Hike	-	<del>-4.</del> 5%

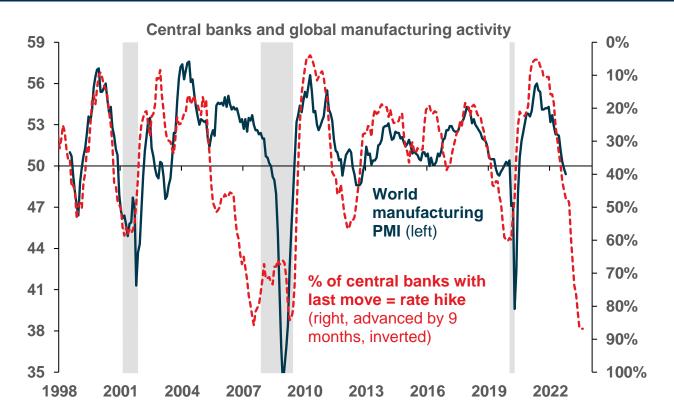


#### Due to restrictive monetary policy...



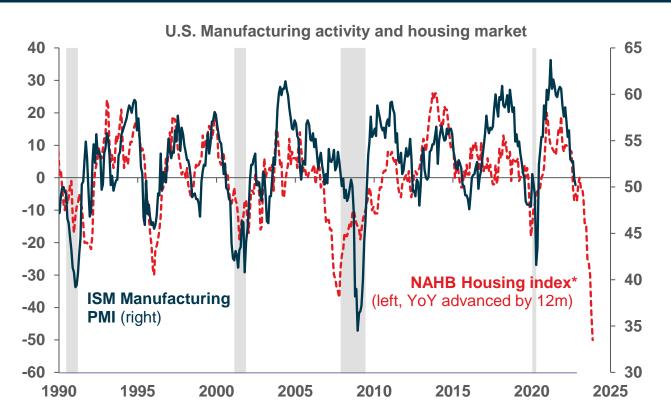


#### ... a global slowdown is underway...



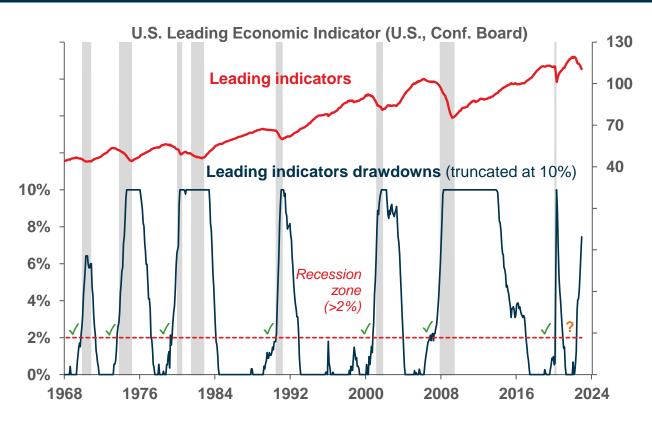


#### ... mostly visible in housing activity for now



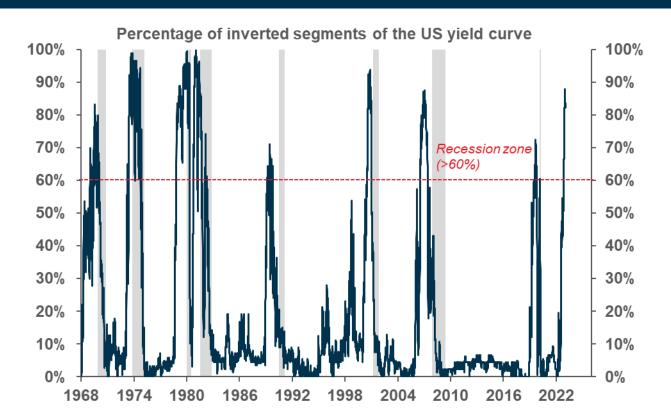


#### Many leading indicators flashing 'red'...



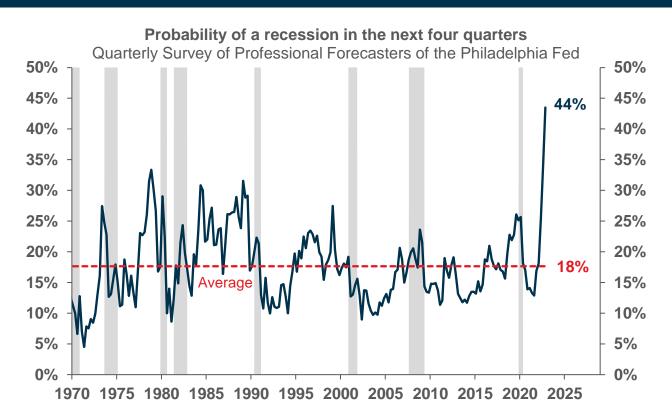


#### ... as the yield curve gets inverted



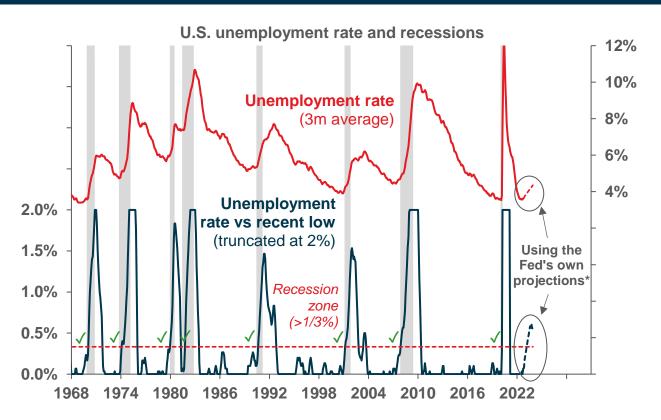


#### The most foreseen slowdown in history...





#### ... still must be confirmed by the labor market





### **Economic scenario** (probability)

	Previous	Current	Key elements and investment implications
Bull case	Sub-trend growth (10%)	Sub-trend → growth (10%)	<ul> <li>Inflation decelerates much faster than anticipated; central banks set the stage for rate cuts in 2023.</li> <li>Labour markets cool down, but without a sharp increase in layoffs: job openings drop, wage pressures ease.</li> <li>Russia and Ukraine resume talks toward a potential conflict resolution.</li> <li>Beijing's retreat from zero-COVID and additional stimulus measures support China's economic recovery.</li> <li>Household consumption proves resilient, supported by solid balance sheets and improving purchasing power.</li> <li>Economic implications: Below-potential but positive real GDP growth.</li> <li>Market implications: ↑Equities ↓Bond yields ↓↓USD ; U.S. &amp; EM &gt; Canada &amp; EAFE</li> </ul>
Base case	Stagnation (50%)	→ Stagnation (50%)	<ul> <li>Inflation slows down thanks to lower goods prices and a gradual moderation in services inflation.</li> <li>Labour markets start softening but remain tight on a historical basis.</li> <li>The Bank of Canada and the Fed keep their monetary policy into restrictive territory.</li> <li>Corporate earnings are under pressure from rising wages, higher borrowing costs and weakening consumer demand.</li> <li>Strong household balance sheets limit the extent of the economic slowdown.</li> <li>Economic implications: Stagnation; zero GDP growth and moderate increase in unemployment.</li> <li>Market implications: ↓Equities ↑Bond yields ↑USD; Canada &amp; U.S. &gt; EM &amp; EAFE</li> </ul>
Bear case	Recession (40%)	→ Recession (40%)	<ul> <li>Headline inflation decelerates, but core components and wage growth remain stubbornly high.</li> <li>Major central banks keep their monetary policy deeper into restrictive territory.</li> <li>Geopolitical tensions escalate, leading to renewed commodity disruptions.</li> <li>Chinese growth falters as zero-COVID retreat leads to a major contagion wave.</li> <li>Facing elevated inflation and still rising interest rates, consumers tighten their belt and cut discretionary spending.</li> <li>Unknown financial markets fragilities are revealed, puting pressure on monetary and fiscal policy makers.</li> </ul> Economic implications: Recession; GDP contraction, job losses, sharp increase in unemployment. NATIONAL BANK Market implications: \$\psi\$ Equities \$\psi\$ Bond yields \$\psi\$ USD; Canada & U.S. > EM & EAFE

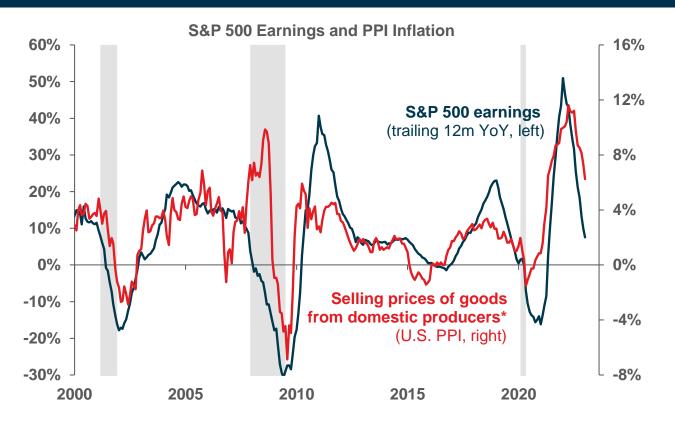
#### Three key takeaways





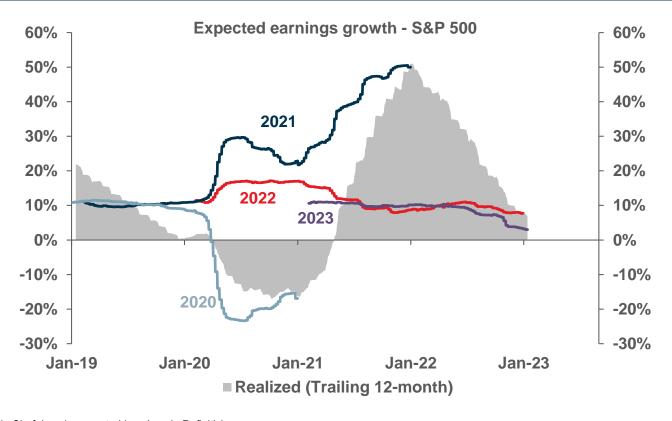
### **Questions?**

#### Lower inflation would impact earnings...





#### ... which should continue to be revised lower



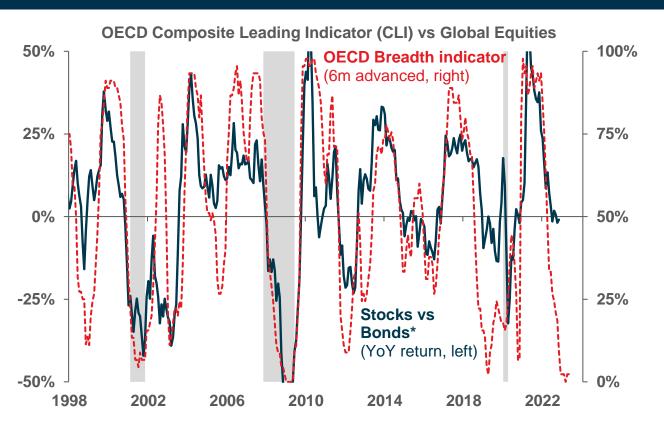


#### **US** markets are still expensive



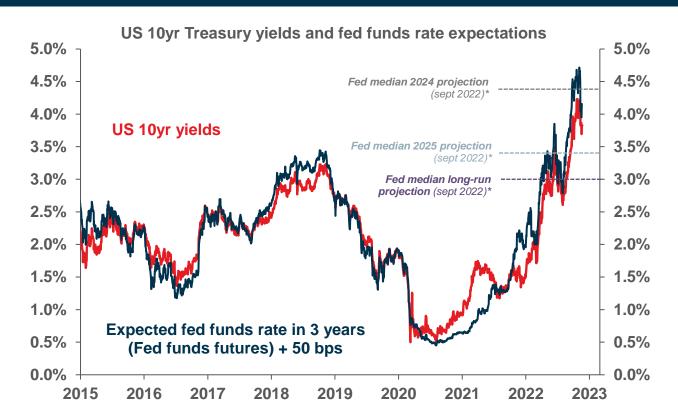


# **Environment favorable to bond outperformance**





#### Bond yields could increase a little further...





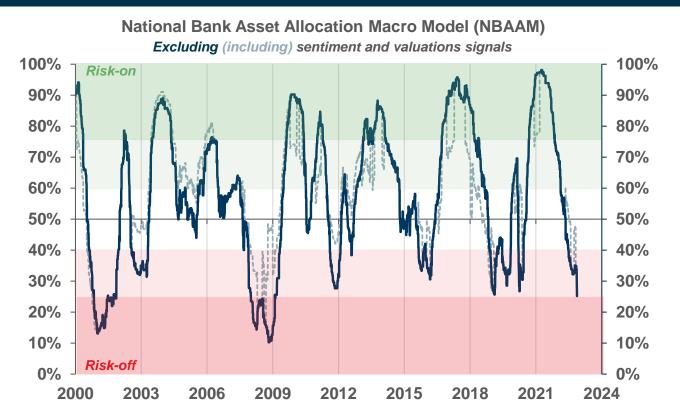
#### ... but the worst is likely behind us

#### **Expected 1-year Total Return from Interest Rate Changes**

			_		
Rate Change	U.S. 10-year Bond	U.S. 30-year Bond	Canada 10-year Bond	Canadian Corporate*	Canadian Universe*
100bps	-4.6%	-15.0%	-5.3%	-0.4%	-3.2%
80bps	-3.0%	-11.4%	-3.7%	0.7%	-1.8%
60bps	-1.3%	-7.8%	-2.0%	1.9%	-0.3%
40bps	0.3%	-4.1%	-0.3%	3.0%	1.2%
20bps	1.9%	-0.5%	1.4%	4.2%	2.6%
0bps	3.5%	3.1%	3.1%	5.3%	4.1%
-20bps	5.2%	6.7%	4.7%	6.5%	5.6%
-40bps	6.8%	10.3%	6.4%	7.7%	7.0%
-60bps	8.4%	13.9%	8.1%	8.8%	8.5%
-80bps	10.1%	17.5%	9.8%	10.0%	10.0%
-100bps	11.7%	21.1%	11.5%	11.1%	11.4%

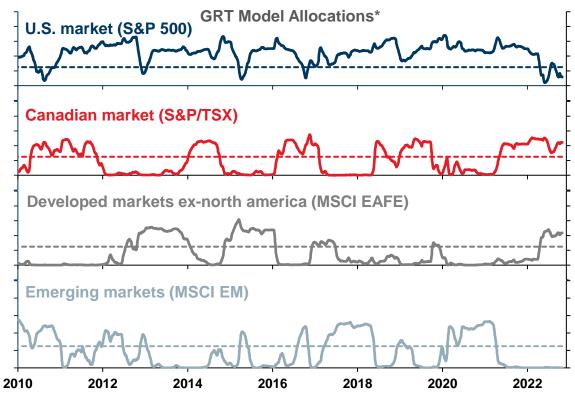


### **NBAAM** model shies away from equities



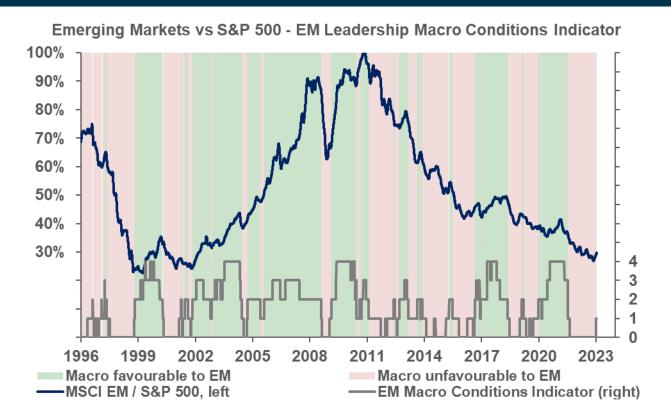


# Relative momentum still in Canadian equities





#### Too early for a sustained rally in EM?





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# National Bank Investments

#### Our structure of

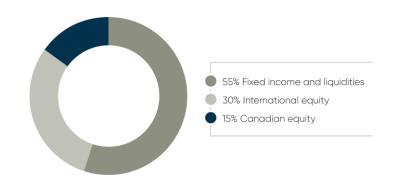
#### open architecture

National Bank Investments is a top-tier investment fund management firm committed to manufacturing and distributing investment solutions and services designed to help investors meet their financial goals.

As a reputable top-tier asset manager, NBI selects first-rate investment talent from top global management firms.

NBI aims to be an accelerator promoting the growth and development of investment solutions and services with the objective of positively impacting the lives of investors.

#### Over \$74 billion in assets under management



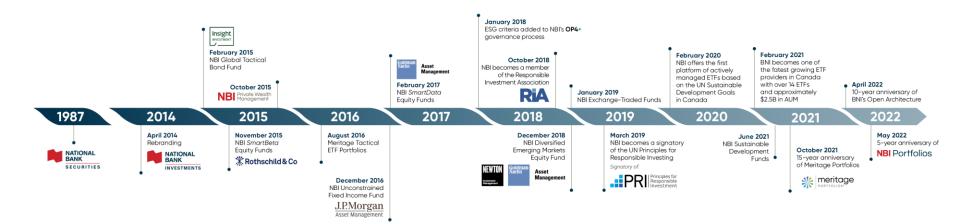
As at September 30, 2022





# A unique approach

# to investing



42 elite portfolio managers

**85** proven portfolio management teams

Over **175** in-person oversight meetings with portfolio managers annually



#### Our OP4+ criteria for excellence

# in portfolio management

#### More than 25 well-defined criteria rganization Organizational culture Access to equity for employees Strong organization with top-tier Financial stability Experience of senior managers and analysts Kev staff stability/Clear succession plan › Alignment of manager's and analysts' financial interests Stable team of investment professionals > Enough analysts to thoroughly cover the investment universe Diversity within the investment team (gender, origin and experience) > The managers are able to establish the competitive advantage of their products > The process is clear and repeatable, but flexible to adapt to structural market changes > Accountability in the decision-making process > Debate investment ideas in committee Proven management processes to select securities, > The sell or revision process is well-defined build portfolios and manage risk > Risk management is an integral part of the portfolio construction process Learn from past mistakes Performance monitoring by an observer external to the investment team. ortfolio Coherence between the process and the actual portfolio Sound diversification Optimized portfolio construction > Current size of the portfolio and liquidity of the positions that follows the investment process Diligent use of cash in hand and ensures sound diversification erformance The portfolio behaves as anticipated in different market conditions Strong and predictable risk-adjusted returns Competitive pricing Signatory of the United Nations Principles for Responsible Investment (or similar organizations) > Incorporation of ESG factors for value creation and risk management Resources dedicated to responsible investment Integration of Environmental, Social > Proxy voting and engagement in line with investment objectives and Governance factors > Measure of portfolio footprint and targets Stewardship activities



#### **NBI's responsible investment**

#### approach

#### The approaches adopted by our portfolio managers

Responsible investing (RI) is part of our research and portfolio construction work. Most of the investment solutions that make up our platform incorporate RI considerations.

Exclusion	ESG investing	Best-in-class	Sustainable portfolio creation
Involves excluding companies, sectors or even countries that are not compatible with an investor's mission or values.	Involves incorporating data on environmental, social and governance criteria into the investment processes.	Involves investing in leading securities based on environmental, social and governance criteria.	Involves investing in securities that contribute to the achievement of one or more of the United Nations (UN) Sustainable

# Integrating the UN Sustainable Development Goals (SDGs) at NBI

- NBI offers the first platform of actively managed ETFs based on the UN SDGs in Canada.
- As part of our open architecture structure, portfolio managers who are responsible for subadvising our sustainable investment solutions must ensure that they invest in securities that contribute to achieving one or more of the SDGs.

The 17 SDGs are as follows:





#### Setting ourselves apart with our

#### large network of expert

Empowerment, agility and complicity are at the heart of our mission and at the service of your clients' assets.

Being the leading open architecture provider in Canada, NBI is committed to providing diversified investment solutions to meet evolving client needs through our reputable partners.





#### **Fully invested**

#### in a culture of excellence

Our investment resources draw on talented teams to continuously optimize our open architecture structure. To innovate and grow, we leverage human interactions and capabilities in order to deliver optimal risk-return investment solutions.

#### **Our teams**

#### **Portfolio Construction Committee**

- > Research initiatives
- ) Portfolio construction

#### **Portfolio Solutions**

NBI Investment Solutions and Business Strategies Team

#### **CIO Office**

- > Fundamental analysis
- Strategic & Tactical asset allocation
- Communications

# **Development and Alternative Investments**

> NBI Strategy and Reseach Team

#### **Risk and Performance Management**

- NBI Risk and Execution Management Team
- > OP4+ Research

#### **Research Teams**

- NBCFM ETF and Financial Product Research Team
- NBC Economy and Strategy Team



# CIO office

#### The CIO Office Team



MARTIN LEFEBVRE
Chief Investment
Officer & Strategist



LOUIS LAJOIE, CFA Director,

Director, Investment Strategy



SIMON-CARL DUNBERRY, CFA

Director, Portfolio Strategy



NICOLAS CHARLTON

Director, Quantitative Strategy



MIKHAEL DEUTSCH-HENG

Associate, Investment Strategy



ZAID SHOUFAN

Associate, Portfolio Strategy



VACANT

Analyst, Quantitative Strategy

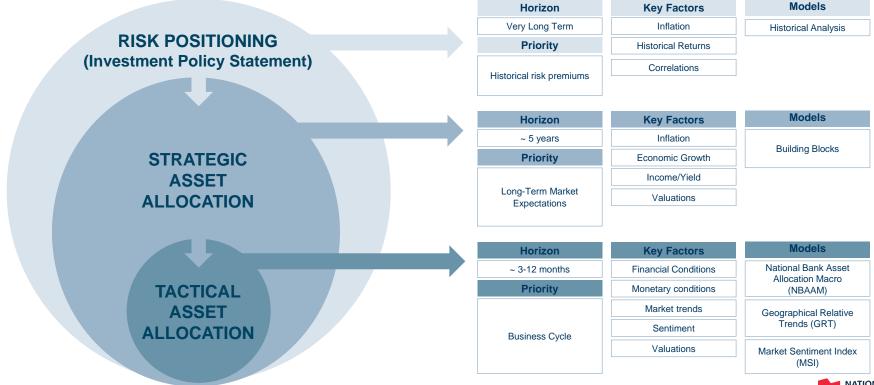


DIEGO PINOCHET-LAPOINTE

Analyst, Investment Strategy



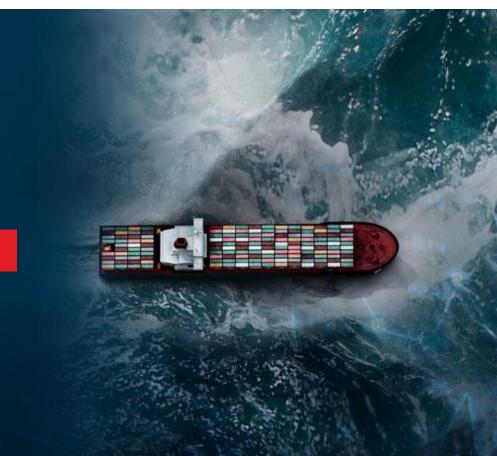
#### **Our Asset Allocation Process**



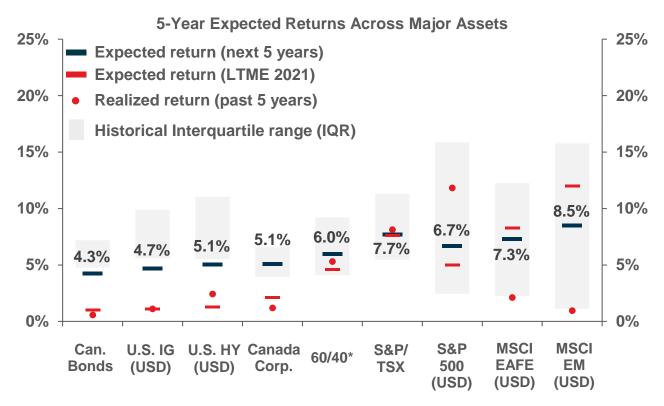


# **Long-term Market Expectations 2022-2027**

**Navigating troubled waters** 

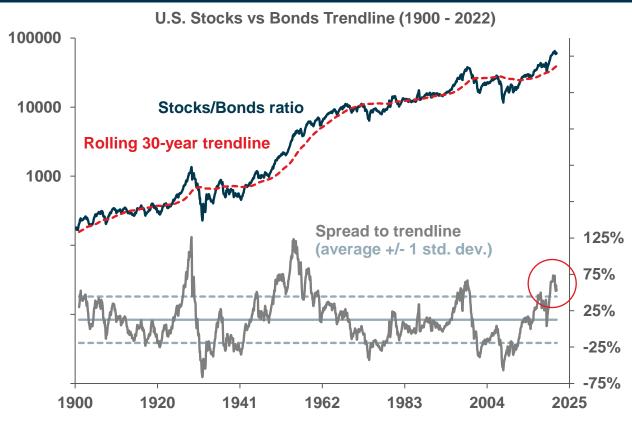


#### Significant improvement in the outlook for bonds





# Equity outperformance looks stretched on a secular basis





# Four key takeaways for investors

- 1 <u>Inflation</u>: Persistently higher, certainly more volatile
- Bonds: Significant improvement in return prospects; deterioration in diversification effects.
- Equities: Narrowing differences between stock market regions; North American markets exhibit attractive properties.
- Balanced portfolios: Better performance, higher volatility; Large equity vs. bond overweight appear less attractive.



# Tactical Asset Allocation

# **Our Philosophy**

1 Keep it simple



Stocks / bonds / cash / geo can generate significant VA with large deviations

2 Stay rational



Allocations are discretionary but supported by quantitative models acting as a reference point

3 Stay focused



Position for the next <u>3 to 12 months</u> balancing all five macro pillars; accept to be wrong from one day/week to the other.

4 Don't overtrade

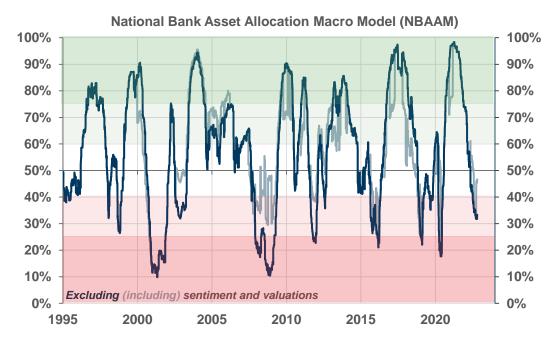


~ 4 to 10 changes per year (cyclical outlook shouldn't change every month)



#### NBAAM (National Bank Asset Allocation Macro) Model

National Bank Asset Allocation Macro Model (NBAAM)									
Indicator name	Level	Week chg							
NBAAM									
Cyclical conditions		_							
U.S. Economy									
Global Economy									
Financial Markets									
Monetary conditions									
Quantity of money									
Cost of money									
Momentum									
Valuations	neutral								
Sentiment									



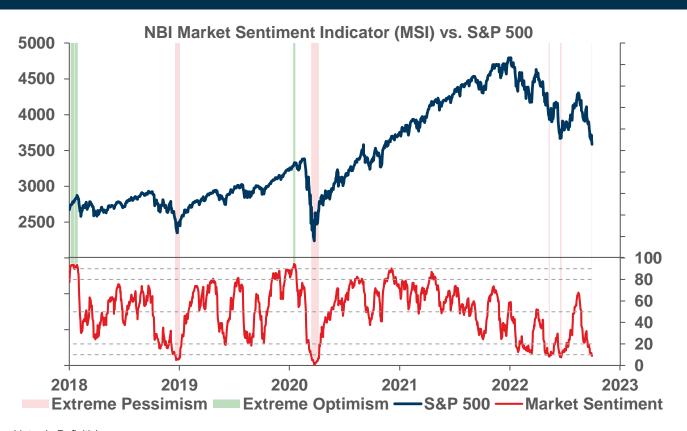


### NBAAM Model (National Bank Asset Allocation Macro Model)



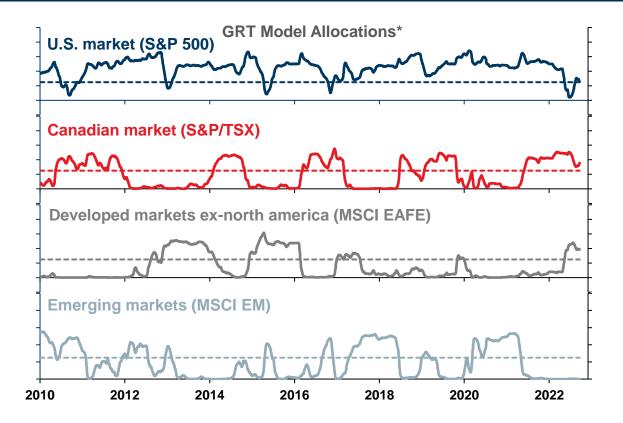


#### **NBI Market Sentiment Indicator**



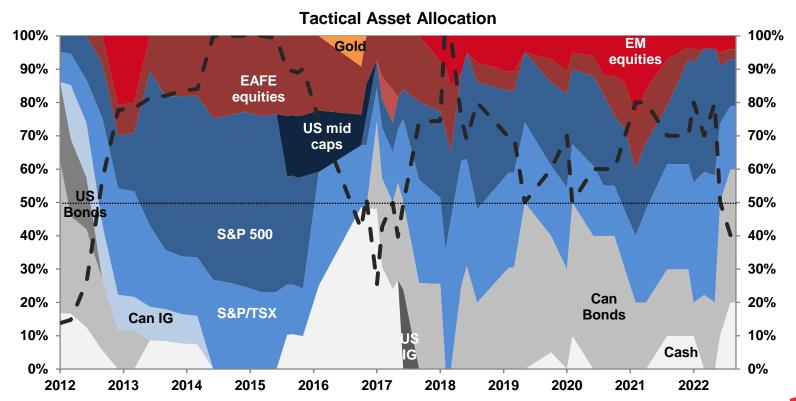


#### **NBI** Geographical Relative Trend (GRT) Model



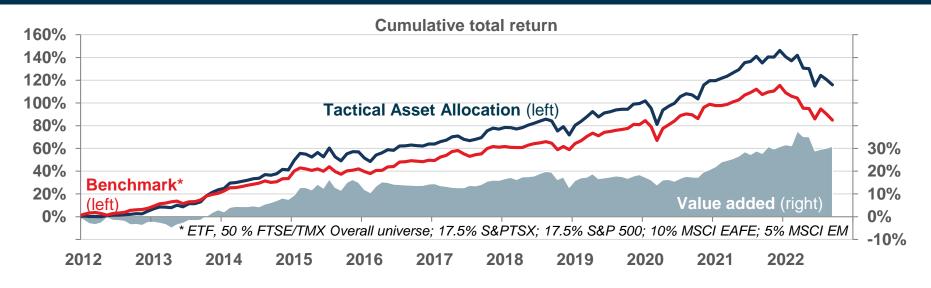


## **Dynamic asset allocation**





#### Our track record



Performance (September 2022)															
	3-mth	YTD	1 year	3 years	5 years	Start	2021	2020	2019	2018	2017	2016	2015	2014	2013
TAA*	0.5%	-12.3%	-8.2%	3.6%	5.0%	7.6%	12.1%	10.1%	16.0%	-2.9%	8.0%	4.4%	11.3%	14.1%	17.9%
ETF Benchmark	-0.5%	-14.1%	-10.8%	1.5%	3.6%	5.8%	8.3%	9.9%	13.8%	-1.3%	7.6%	5.4%	6.4%	10.7%	12.3%
Value added	0.98%	1.80%	2.59%	2.02%	1.39%	1.75%	3.81%	0.21%	2.20%	-1.62%	0.34%	-0.99%	4.95%	3.41%	5.64%

