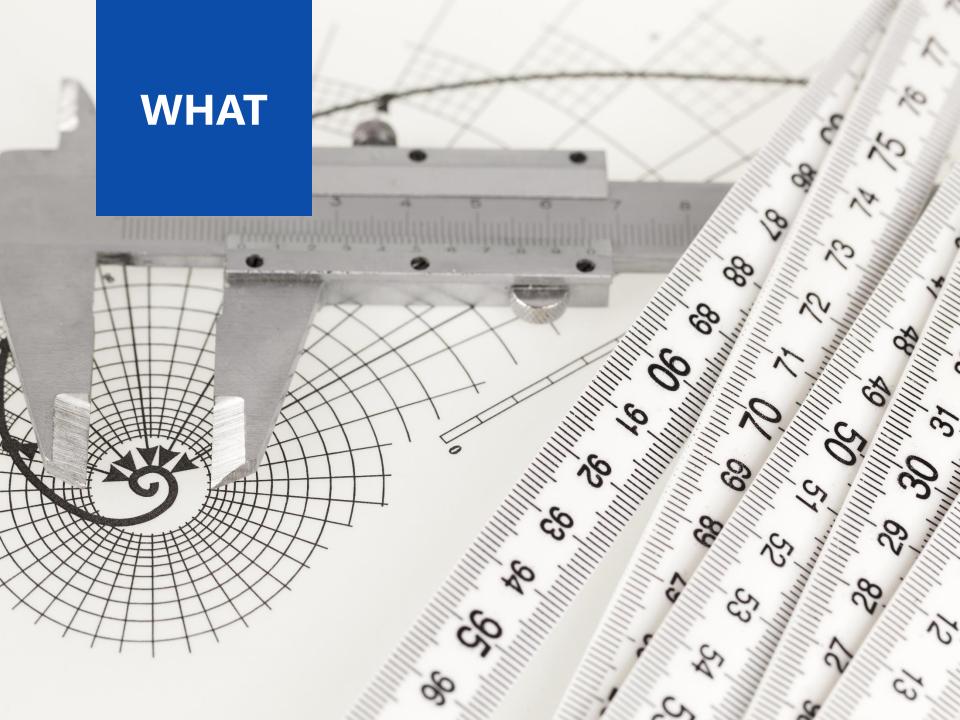


CANADIAN HIGH DIVIDEND EQUITY FACTOR-BASED MODEL PORTFOLIO STRATEGY





Summary

Key Points in a Nutshell



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The Factor-Based Canadian High Dividend Equity Strategy focuses on high-yielding equities, low portfolio turnover and tax-efficiency.



The strategy consists of approximately 25 quality at a reasonable price (QARP) dividend-paying equities with aboveaverage yields and the ability to sustain and grow their dividends.



FACTOR-BASED

The strategy gained an annualized return of 15.8% since January 1st, 2000. It has proven to outperform on a relative basis against the S&P/TSX TR.





Objectives Setting a Way to Achieve Success

The portfolio is targeted towards investors with medium risk tolerance seeking exposure to Canadian dividend-paying equities using a rigorous bottom-up factor-based quantitative approach to stock selection.

1

Provide a steady stream of income by investing in Canadian Equities.

Maximize tax efficiency by having a low portfolio turnover ratio.

3

2

Consistently outperform the S&P/TSX TR Index over a 5-year period.



Comparison of Smart Beta Strategies

	Market Cap Weighted Index	Factor-Based Canadian HD Equity
Risk management goals	None	None
Systematic rebalancing	Quarterly	Quarterly
Human input required	No	Supervised
Use of Leverage	None	None
Systematic Risk	Medium	Medium
Portfolio turnover	Low	Low
Investment process	None	Bottom-Up
Investment style	None	QARP
Market behavior	Trend Following	Relative return

QARP stands for Quality At Reasonable Price. We focus on selecting reasonably priced securities with attractive fundamentals, consistency of dividends and the ability to increase dividends.



Quantitative Modeling

HOW IT WORKS



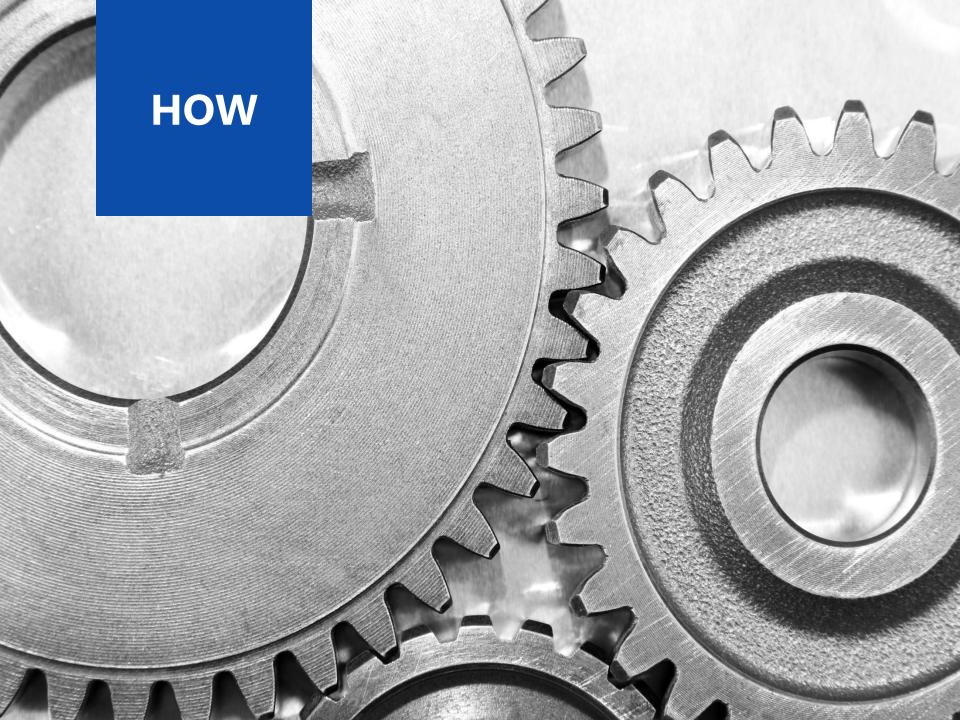
A quantitative model systematically identifies mispriced stocks and attempts to deliver absolute and relative performance. Equities are ranked and sorted from a pre-selected universe of S&P TSX constituents with periodic rebalances and adjustments in the event of fundamental deterioration over time.

WHY IT WORKS

By adhering to a stock selection framework based on a thoroughly tested ranking system, we are able to remove emotion and yield chasing from the investment process. Studies indicate that 80% of portfolio managers do not beat their respective benchmark because they essentially mimic it or their emotions cloud their investment decisions.



PAGE





Factor-Based (FB)

1. QARP (Quality At Reasonable Price)

The end goal is to invest in quality companies trading at attractive multiples that consistently generate wealth for their shareholders.

2. Undexing

Our goal is to beat the market over the long run. We believe the best way to do it is to create a portfolio that looks very different from it.

3. Concentration

We strive to achieve a balance between diversifying to remove specific risk yet not over-diversifying and mimicking the S&P TSX Total Return Index.

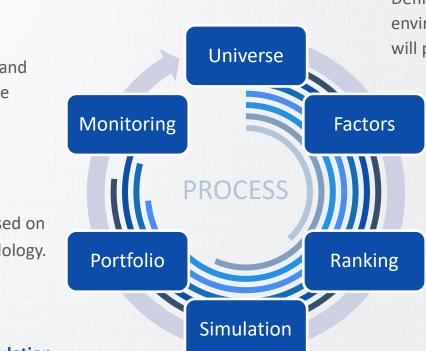
4. Low Turnover

Excessive portfolio turnover increases trading costs and tax-efficiency. It also introduces emotional reactions and a lack of confidence in the process.



Overview

Our Investment Process



6. Monitoring

Monitor, rebalance and analyze performance attribution.

5. Portfolio

Invest the funds based on the defined methodology.

4. Simulation

Form a strategy resulting from a mix of set rules and filters applied to the ranking system.

1. Universe

Define the investment environment in which we will pick our companies.

2. Factors

Design factors based on academic literature and innovative concepts.

3. Ranking

Create a composite of factors to rank companies from our defined universe.



Universe

Our Investment Environment

1

\$billion of market cap minimum. This is considered large cap equity in Canada compared to the U.S. where \$6 billion is the cut-off. .

10

\$million of average daily
liquidity for the past
month expressed as price
times volume (P x V).



300

Stocks passing the universe filter. All S&P TSX Composite members including real estate investment trusts (REITs).

25 **Stocks** in the portfolio are chosen from the top-ranking decile.

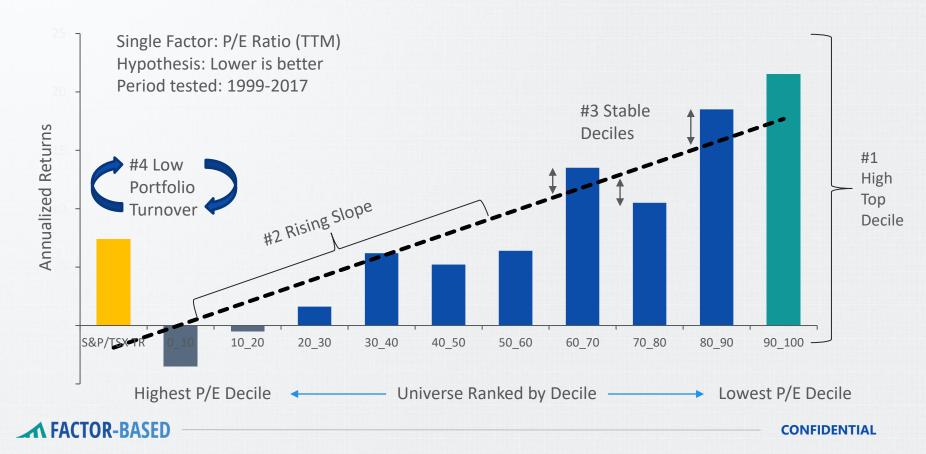


Factor

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Our Selection Method

We backtested our selection universe using hundreds of factors to identify those that generated the most alpha adjusted for risk over the previous two market cycles. We then selected the top factors using the four criteria.



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Ranking

Based on Our Factor Selection



Earnings Quality (EPSQ)

This ratio is calculated as the Operating Cash Flow minus Earnings divided by Total Assets.What: Is the company manipulating accruals in its financial statements?Why: The interpretation of this ratio is that higher is always better.

Dividend Yield (DIVY)



This ratio is calculated as the Projected Dividend divided by the current Price, multiplied by 100.

What: How much Dividends are paid by the company relative to its Price?

Why: The interpretation of this ratio is that higher is always better.

Average True Range (LVOL)

This ratio is a measure of volatility decomposing the entire range of an asset price for a period.

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- What: How volatile are the shares of a company relative to the market?
- Why: The interpretation of this ratio is that lower is always better.

* Volatility could be considered in a factor style of its own but we will include it with quality due to the indirect relationship with it. Stocks that are growth oriented are more difficult to forecast for market participants and tend to be more volatile while for quality companies it is the reverse.





Ranking

Based on Our Factor Selection

Value

Price To Cash Flow Per Share Ratio

This ratio is the current Price divided by Cash Flow Per Share for the trailing twelve months. Cash Flow is defined as Income Before Extraordinary Items plus Depreciation and Amortization.

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What: How much Cash Flow per unit of Price is the company making?

Why: The interpretation of this ratio is that lower is always better.

Discounted Free Cash Flow / EV (FCFV) 1

This ratio is calculated as the output of a Discounted Free Cash Flow model, based on the next five years and using the Mean Long Term Growth as the discount rate, divided by the EV of the company.

What: How much Discounted Free Cash Flow per unit of EV is the company making?

Why: The interpretation of this ratio is that higher is always better.



Ranking

Based on Our Factor Selection

Analyst Revisions 1W (REV1)

This ratio is calculated as a scaled difference between Next Fiscal Year EPS Mean of today vs last week.

1

What: Was there any weekly EPS revisions and how large were they?

Why: The interpretation of this ratio is that higher is always better.

Analyst Revisions 4W (REV4)

This ratio is calculated as a scaled difference between Next Fiscal Year EPS Mean of today vs 4 weeks ago.

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What: Was there any monthly EPS revisions and how large were they?

Why: The interpretation of this ratio is that higher is always better.

Trend (TREN)

This ratio is calculated as 20-Day EMA divided by the 200-Day EMA and measures the price slope.

- What: Is the company's price trading in a medium-term uptrend?
- Why: The interpretation of this ratio is that higher is always better.



Simulation

Our Portfolio Rules and Filters



- The model portfolio strategy is long-only with no leverage.
- Approximately 25 stocks are held.
 We allow a max weight deviation of 30% at initial purchase: Avg W: 4.0% | Min W: 2.8% | Max W: 5.2%
- Transactions are recorded at the average high | low of the trade day.
- Rebalancing frequency is quarterly and sent before market open.
- Variable slippage (average daily \$ traded) is taken into account.



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- No stocks trading below \$1.00 are included in the simulation.
- Stocks with stale SEDAR / EDGAR financial statements are excluded from the buy list.
- Only stocks with a dividend yield greater than 2.75% are considered for purchase.
- The maximum weight in a GICS Level 1 Sector is capped at 30%.
- The correlation between the new candidates and existing holdings must be less than 0.67.



- Sell stocks when its rank falls below the third decile.
- Trim stocks weights back to 10% and below if their individual weights in the portfolio goes above 10%.
- We force positions in the universe even if they are replaced inside our universe.



Portfolio

Historical Performance



Key Portfolio Statistics

Annualized Return (%) (S&P/TSX TR = 5.1)	15.8
Maximum Drawdown (%) (S&P/TSX TR = -48.3)	-41.1
Portfolio Turnover (%) (S&P/TSX TR = 6.3)	55.5
Index Correlation (S&P/TSX TR = 1.00)	0.70
Sharpe Ratio (S&P/TSX TR = 0.29)	1.40

Since Inception (January 1st, 2000)

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WHY



Calendar Performance

Yearly

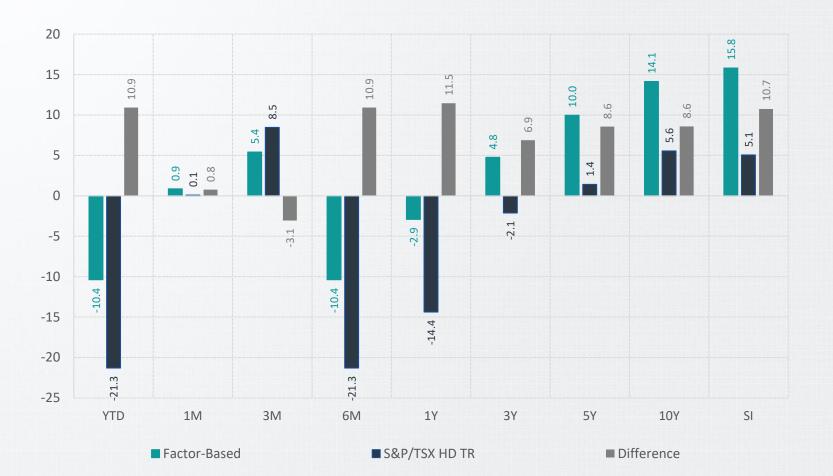
Calendar Returns	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009		
Factor-Based	34.7	13.5	5.9	36.8	27.0	26.6	10.5	12.0	-11.3	32.6	T	he recovery v
S&P/TSX HD TR	7.4	-12.6	-12.4	26.7	14.5	24.1	-1.9	3.4	-25.2	41.5	t	oo strong for
Difference	27.3	26.1	18.3	10.0	12.5	2.5	12.4	8.6	13.8	-8.9	C	ARP strategy
Calendar Returns	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Factor-Based	23.3	17.6	15.4	22.2	14.9	9.9	22.0	12.9	-4.6	29.2	-10.4	
S&P/TSX HD TR	20.6	4.8	7.6	16.0	5.2	-14.6	28.5	7.6	-10.8	25.8	-21.3	
Difference	2.7	12.8	7.8	6.2	9.7	24.4	-6.5	5.2	6.2	3.4	10.9	
Monthly												
Calendar Returns	07-19	08-19	09-19	10-19	11-19	12-19	01-20	02-20	03-20	04-20	05-20	06-20
Factor-Based	0.9	0.3	2.8	0.2	3.8	0.1	5.1	-2.7	-16.8	3.1	1.4	0.9
S&P/TSX HD TR	0.0	0.1	4.4	-1.4	4.0	1.4	1.5	-6.5	-23.5	6.4	1.9	0.1
Difference	0.9	0.2	-1.7	1.6	-0.2	-1.3	3.6	3.7	6.7	-3.3	-0.5	0.8

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Trailing Performance







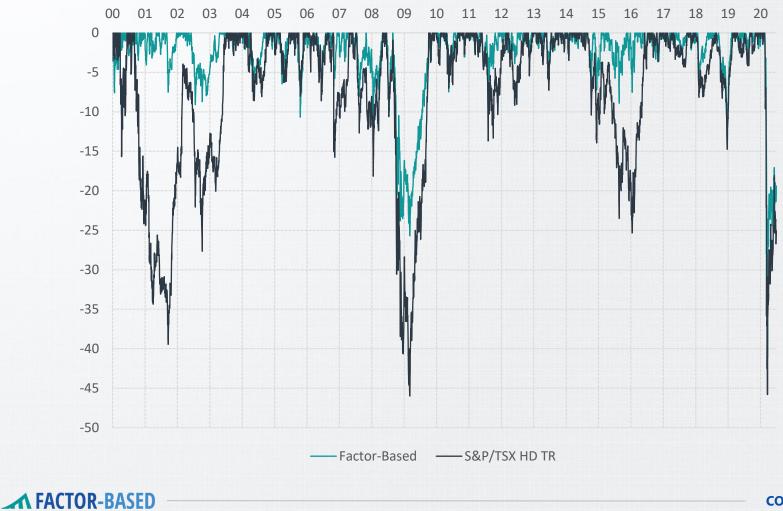
Return & Risk Measurements

Trailing 3 Year	Factor-Based	S&P/TSX TR	Difference
Annualized Return (%)	4.8	-2.1	6.9
Standard Deviation (%)	13.4	17.2	-3.9
Max Drawdown (%)	-41.1	-45.8	4.7
Portfolio Turnover	55.5	6.3	49.2
Sharpe Ratio	0.31	-0.10	0.41
Sortino Ratio	0.34	-0.11	0.45
Index Correlation	0.93	1.00	-0.07
R-Squared	0.87	1.00	-0.13
Beta	0.72	1.00	-0.28
Alpha (%) (Annualized)	6.89	0.00	6.89
Since Inception	Factor-Based	S&P/TSX TR	Difference
Since Inception Annualized Return (%)	Factor-Based 15.8	S&P/TSX TR 5.1	Difference 10.7
Annualized Return (%)	15.8	5.1	10.7
Annualized Return (%) Standard Deviation (%)	15.8 9.4	5.1 13.9	10.7 -4.4
Annualized Return (%) Standard Deviation (%) Max Drawdown (%)	15.8 9.4 -41.1	5.1 13.9 -48.3	10.7 -4.4 7.2
Annualized Return (%) Standard Deviation (%) Max Drawdown (%) Portfolio Turnover	15.8 9.4 -41.1 55.5	5.1 13.9 - 48.3 6.3	10.7 -4.4 7.2 49.2
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Annualized Return (%) Standard Deviation (%) Max Drawdown (%) Portfolio Turnover Sharpe Ratio Sortino Ratio	15.8 9.4 -41.1 55.5 1.40 1.79	5.1 13.9 -48.3 6.3 0.29 0.36	10.7 -4.4 7.2 49.2 1.11 1.43
Annualized Return (%) Standard Deviation (%) Max Drawdown (%) Portfolio Turnover Sharpe Ratio Sortino Ratio Index Correlation	15.8 9.4 -41.1 55.5 1.40 1.79 0.70	5.1 13.9 -48.3 6.3 0.29 0.36 1.00	10.7 -4.4 7.2 49.2 1.11 1.43 -0.30



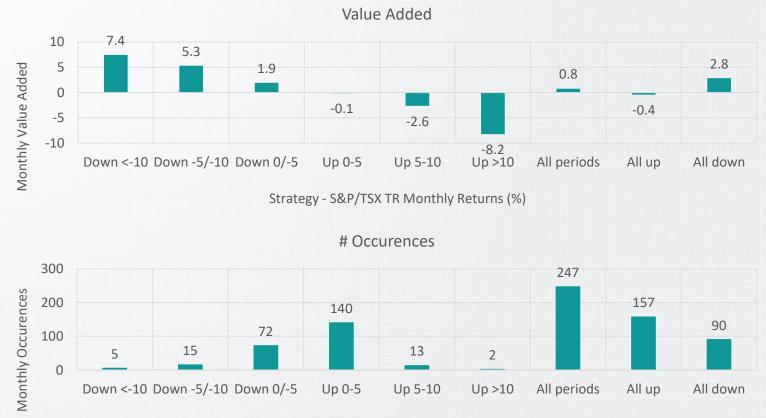


Rolling Maximum Drawdown





Outperformance in Different Market Conditions



S&P/TSX TR Monthly Returns (%)



Characteristics

Top Ten Holdings & Fundamentals

Ticker	Weight (%)	Sector
BEP.UN:CN	6.1	Utilities
NPI:CN	5.5	Utilities
EMA:CN	5.3	Utilities
RNW:CN	4.8	Utilities
CHP.UN:CN	4.5	Real Estate
X:CN	4.4	Financials
BLX:CN	4.3	Utilities
BIP.UN:CN	4.3	Utilities
OTEX:CN	4.1	Info Tech
MSI:CN	3.9	Industrials

Median	Factor-Based	S&P/TSX TR
Market Cap (\$B)	22.6	2.4
Price / Earnings	16.3	15.0
Price / Book	1.9	1.6
Price / Sales	2.1	1.9
Price / Cash Flow	8.0	9.0
Return on Equity	11.8	7.2
Dividend Yield	4.1	1.6
5Y EPS Growth	7.8	10.0
Debt / Equity	2.4	0.8
5Y Beta	0.75	1.00







Sector Weights & Benchmark Deviations

Weights	Factor-Based	S&P/TSX TR		Deviations
Utilities	37.3	5.0	32.2	
Real Estate	8.0	3.1	4.8	
Staples	6.6	4.3	2.4	
Telecom	6.8	5.4	1.3	
Health Care	0.0	1.1	-1.1	
Financials	25.9	28.9		-2.9
Discretionary	0.0	3.4		-3.4
Industrials	7.5	11.5		-3.9
Info Tech	4.1	10.3		-6.2
Energy	3.5	12.4		-8.9
Materials	0	15		-14.7



WHO

Who We Are

Factor-Based (FB)



IN A NUTSHELL...

Factor-Based (FB) is a financial research firm that specializes in equities and bonds for investment advisors and institutional clients. We are dedicated to produce exceptional risk adjusted returns for our investors by strictly adhering to factor-based investing methods.





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