RIVERSIDE ANALYTICS INC
QUANTITATIVE INVESTMENT SOLUTIONS

RIVERSIDE OFFICIAL LAUNCH

OPEN HOUSE

DATE: JULY 7, 2020

RIVERSIDE ANALYTICS INC
Tim Koen, P. Eng, President
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www.riversideanalyticsinc.com

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RIVERSIDE'S LIVE BROADCAST

DISCLAIMER

- **ALL TRADING / INVESTING COMES WITH RISK.**
- **THE INSIGHTS CONTAINED IN THIS PRESENTATION DO NOT CONSTITUTE ADVICE, RATHER ARE MEANT FOR EDUCATIONAL PURPOSES FROM WHICH YOU MAY MAKE MORE EDUCATED DECISIONS TAKING INTO ACCOUNT YOUR INDIVIDUAL RISK PROFILE AND NEEDS FOR RETURN.**
- **AT RIVERSIDE WE ASSESS PROBABILITIES USING SYSTEMATIC QUANTITATIVE METHODOLOGY. WE DO NOT PROVIDE ADVICE. THERE ARE NO GUARANTEES FOR POSITIVE RETURN. ALL INVESTING/TRADING IS AT YOUR OWN RISK.**
- **RIVERSIDE IS ABOUT HELPING ACTIVE AND AFFLUENT INVESTORS LEARN HOW TO MAKE BETTER DECISIONS IN FINANCIAL MARKETS.**
- **ALL CHARTS SHOWN IN THIS BROADCAST HAVE BEEN REFERENCED FROM STOCKCHARTS.COM, AMIBROKER OR ESIGNAL UNLESS OTHERWISE NOTED.**

Good investing is <u>not</u> an "event" like finding the next growth opportunity or catching the next market turn. Rather, good investing is a disciplined process that converts research and training into a well-tested methodology, and then makes a habit of following that approach day after day.

John P. Hussman, Ph.D
President, Hussman Strategic Advisors

TONIGHT'S AGENDA

- Company Background;
- 2020 Year to Date;
- A Brief Overview of Our Tools;
- Bringing Our Data to Life;
- Current Market Conditions;
- Product Offerings;
- Break (5min);
- Question and Answer Period;

Tonight's Webinar is being recorded. The recording and slide deck and will be posted on the Riverside Website. Additional details to follow tonight's session.

COMPANY BACKGROUND

- OUR TEAM
- WHERE WE ARE NOW AND WHERE WE ARE GOING
- WEBSITE DEVELOPMENT

WHO WE ARE

RIVERSIDE ANALYTICS INC TEAM MEMBERS

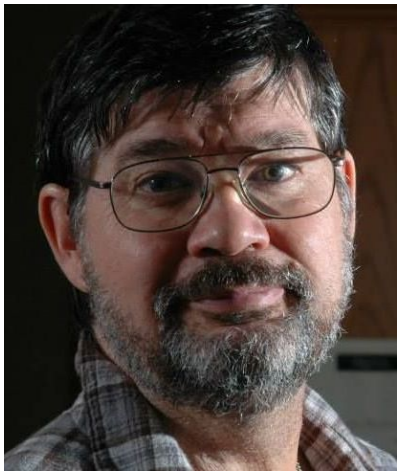
TIM KOEN, P.Eng

President and Chief Executive Officer (CEO)

- Independent Investor and Trader;
- Over 13-years of Investing Experience;
- Member of the Market Technicians Association (MTA);
- Professional Engineer in the Province of Ontario;

WAYNE YEO

Chief Information Officer (CIO)



- Over 30 years of Investing Experience;
- Retired Statistician, 25 years of professional software development;
- Predictive modeling, Metrics, variance, Project/Portfolio Management Methodology, System Development Life Cycle, Issue/Risk Management;

WHERE WE ARE NOW
WHERE WE ARE GOING..

THE RECENT JOURNEY

- We have been busy!! Over the past 7-months have been working around the clock on the following;
  - Building the foundation of our company;
  - Website Development;
  - Tool Development;

OUR GOALS

- Provide Hands On, Self Directed Investors and Swing Traders with a one of a kind, systematic approach to effectively grow and protect their hard earned capital, allowing them to reduce time spent analysing the markets, focus on other life interests while sleeping well at night.

- Provide top quality education and market insight to investors and traders;

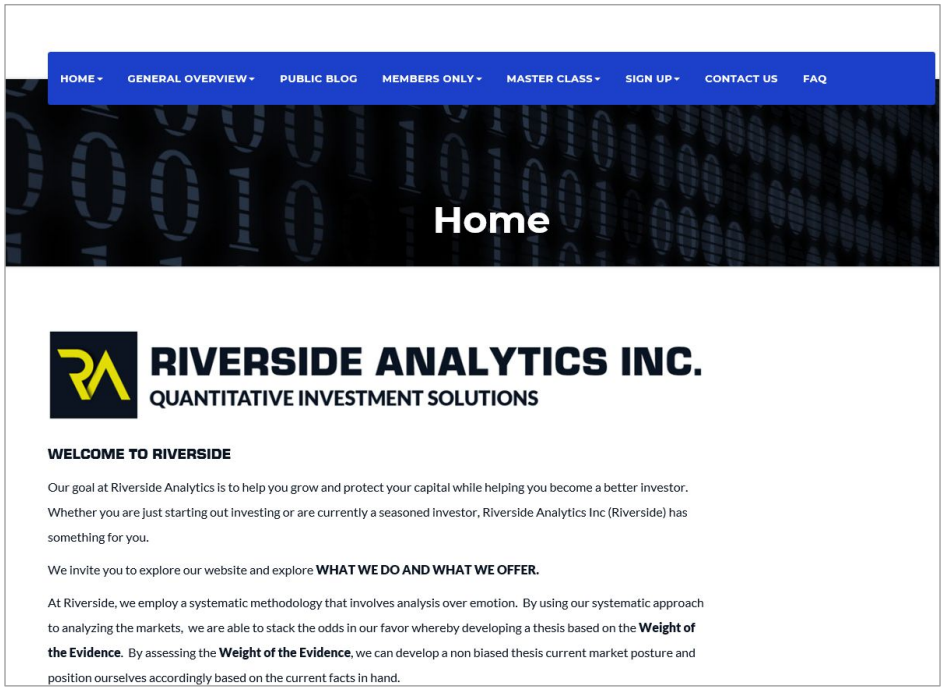
THE JOURNEY YET TO COME

- Organically grow our business. We are in this for the long haul and want to do it right!

- Provide our members with Systematic Strategies that fully utilise our suite of tools;

- Incorporate Fundamental Analysis into our product suite;

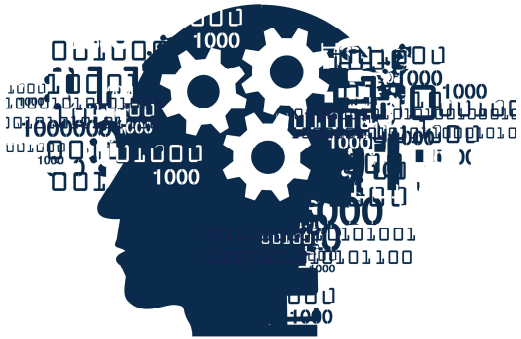
RIVERSIDE'S WEBSITE
VARIOUS HEADINGS AND FEATURES



CURRENT SITE HEADINGS

- Home;
- General Overview;
- Public Blog;
- Members Only;
- Master Class;
- Sign Up;
- Contact Us;
- FAQ;

The website is a work in progress. We will be continuing to work on the website for the foreseeable future. Stay tuned for additional details!

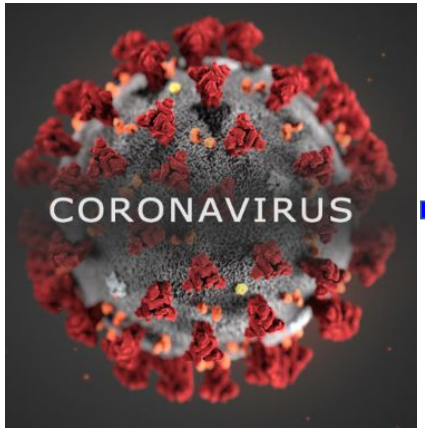


2020 YTD REVIEW

- THE RIDE DOWN
- THE RIDE BACK UP
- WHERE IS THE MARKET NOW?
- WHERE IS THE MARKET HEADED?

THE CALENDAR YEAR 2020

A YEAR OF TURMOIL



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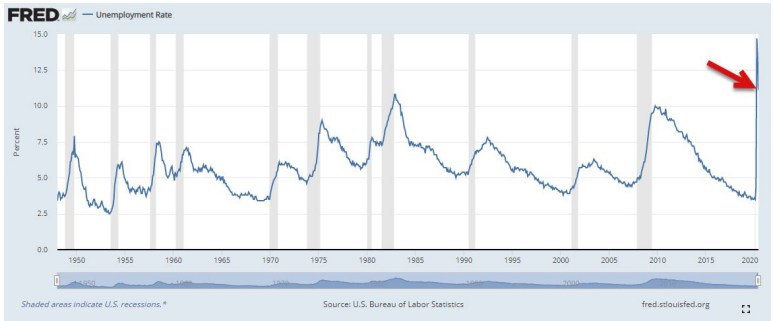
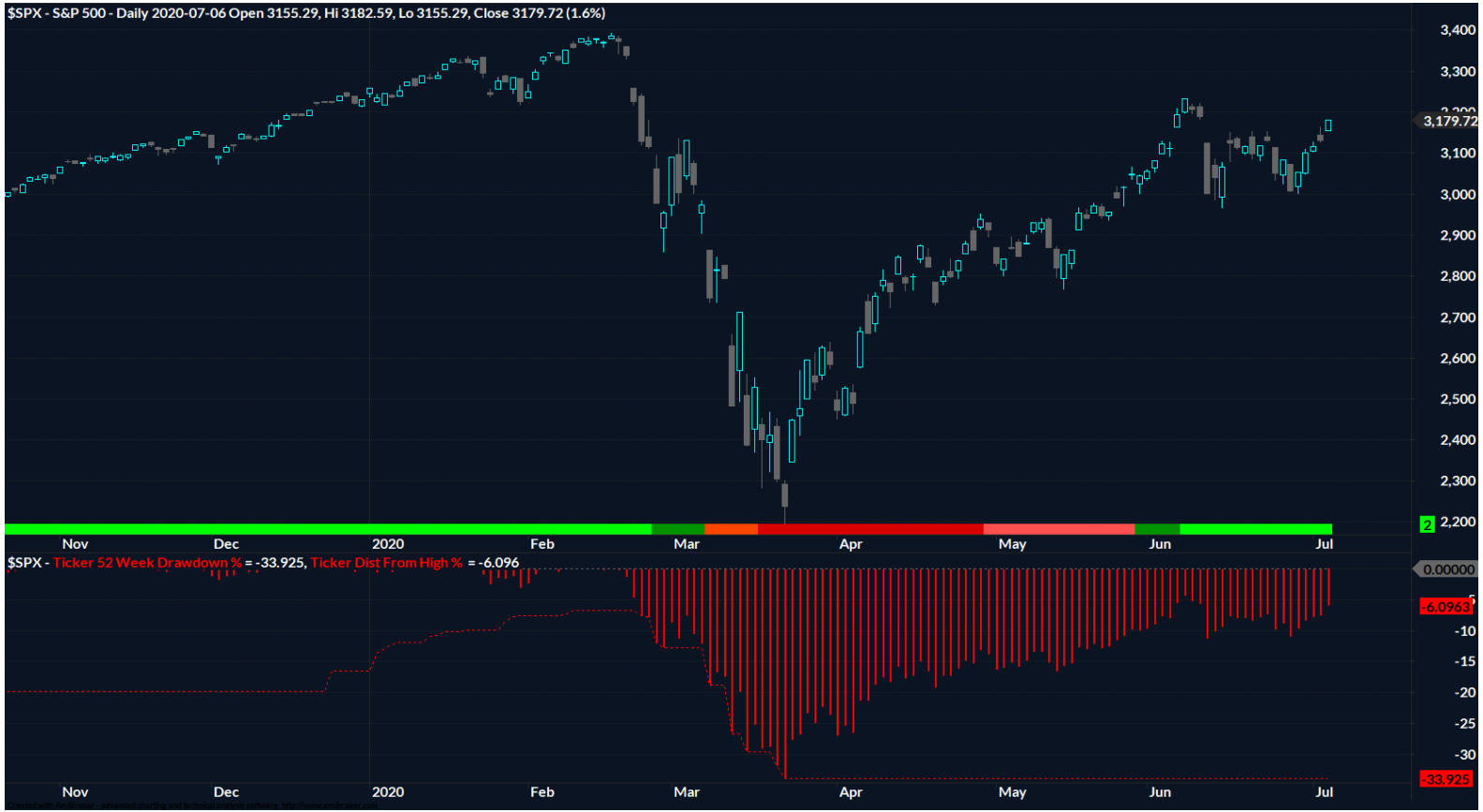


https://fred.stlouisfed.org/graph/?graph_id=570865&rn=943

https://tickertape.tdameritrade.com/market-news/coronavirus-what-is-quantitative-easing-fed-relief-18025

THE CALENDAR YEAR 2020

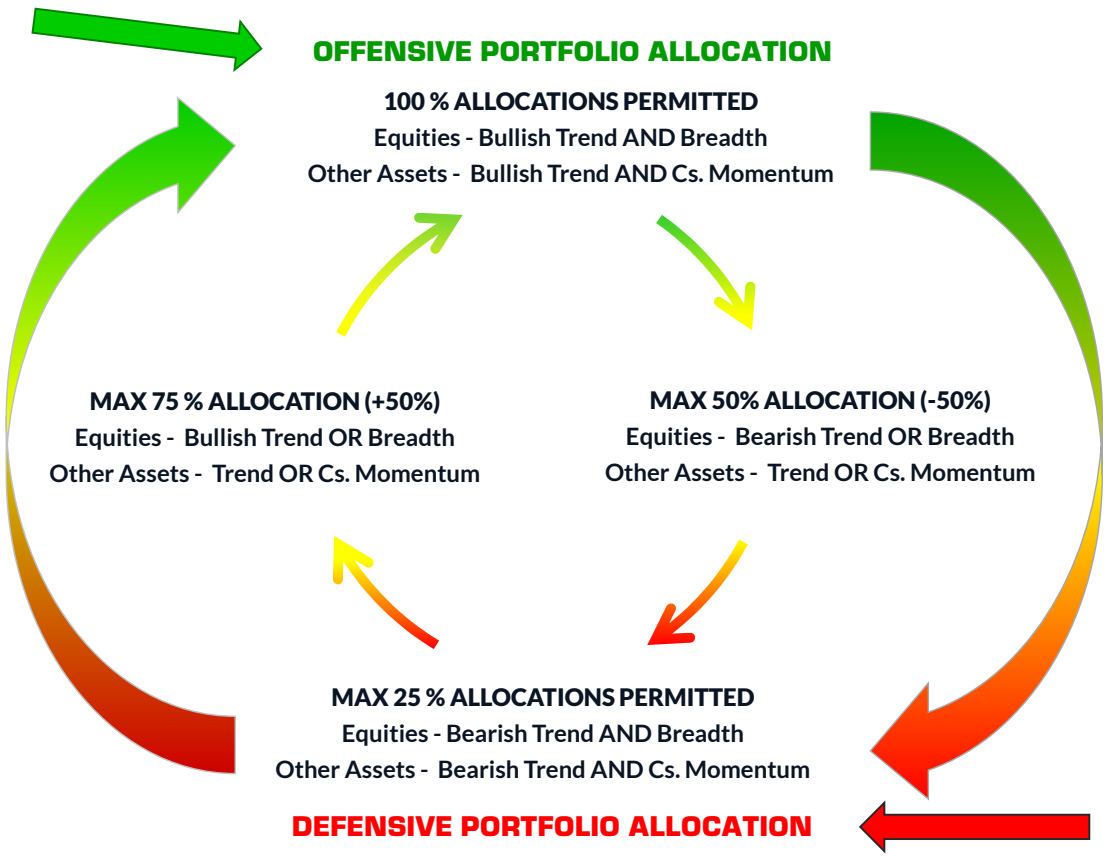
THE RIDE OF THE S&P 500 LARGE CAP INDEX ($SPX)



PORTFOLIO SHIELD

ALLOCATIONS THROUGH MARKET TRANSITIONS
BREADTH AND TREND BASED

L.T AND I.T TREASURIES
CORP BONDS
INTL. BONDS
GOLD AND SILVER
US AND CDN GOLD MINERS
EURO
US HEALTHCARE
US AND CDN TECH
NASDAQ 100
US COMMUNICATIONS
US AND CDN MATERIALS
US LARGE CAP GROWTH
ALL WORD EX US
EMERGING MARKETS



(CONSERVATIVE PORTFOLIO ALLOCATION)
BEAR to BULL Transition

DOW JONES LARGE CAP
S&P 500 LARGE CAP INDEX
TSX
US AND CDN INDUSTRIALS
US MID CAP GROWTH
US AND CDN CYCLICALS
US REITS
EFA MARKETS
S&P 400 MID CAP INDEX
CDN UTILITIES
EMERGING MKT BONDS

(CONSERVATIVE PORTFOLIO ALLOCATION)
BULL to BEAR Transition

S&P 600
HIGH YIELD BONDS
US DOLLAR

ALL OTHER SECTORS NOT LISTED AT THE LEFT SIDE OF THE SHIELD

THE CALENDAR YEAR 2020

THE RIDE OF THE S&P 500 LARGE CAP INDEX ($SPX)

THE PRESSING QUESTION

NOW THAT THE MARKET HAS RISEN TO WHERE IT IS NOW, WHAT CAN WE EXPECT FOR THE REMAINDER OF THE CALENDAR YEAR 2020???

RIVERSIDE'S PRIMARY TOOLS

- A BINARY APPROACH
- HEAT MAP
- BREADTH INDICATORS
- SEASONALITY PROFIT EXPLORER
- HISTORICAL PRICE ANALYSIS

OUR BINARY APPROACH

DATA DEPENDENT

A BINARY QUESTION

- A Binary Question is question that has only two possible outcomes is termed a Binary Question;
- For example: Questions which can have answer like True/False or Yes/No are Binary Questions;

"If you take emotion – would be, could be, should be – out of it, and look at what is, and quantify it, I think you have a big advantage over most human beings."

John Henry of John W. Henry and Company, Inc.

RIVERSIDE'S HEAT MAP

GENERAL OVERVIEW

HEAT MAP GENERAL INFORMATION

The Heat Map is a proprietary color-coded visual tool

The Heat Map has one task;

Detect strength and weakness in the market regardless of where the strength and weakness may lie.

Markets Analysed: S&P 1500, TSX, US ETF's, Canadian ETF's

RIVERSIDE ANALYTICS INC - CDN ETF ULTIMATE ETF HEAT MAP

			BASIC TICKER INFORMATION													MARKET MODEL RANK				
Rank ALL ETF's	Rank ALL ETF's by Sub Category	Rank Preferred ETF's by Sub Category	ETF Main Category	ETF Sub Category	ETF Sub Category Preferred ETF's Only	Symbol	Date	Posture	Description	GROUP ID	Filter Preferred_ETF_List	Filter GTAA_ETF_List	DIV (%)	YTDx	MMR_0	MMR_5	MMR_10	MMR_15	MMR_20
2	2	1	1	1100	1100	ZQQ-TC	2020-07-02	Offensive	BMO NASDAQ 100 Equity Hedged To CAD Index ETF	Broad Index	1	1	0.47	17.55	86	85	88	86	90
1	1	1	6	6100		XLB-TC	2020-07-02	Defensive	iShares Core Canadian Long Term Bond Index ETF	Fixed Income		1	2.92	9.12	78	77	76	75	65
2	2	3	4	4200	4100	ZUH-TC	2020-07-02	Offensive	BMO Equal Weight US Health Care Hedged to CAD Index ETF	Sector	1	1	0.34	4.59	77	74	76	73	87
1	1	4	6	6400	6100	ZPL-TC	2020-07-02	Defensive	BMO Long Provincial Bond Index ETF	Fixed Income	1	1	2.99	9.26	77	76	75	72	63
9	9	1	6	6500		XIG-TC	2020-07-02	Defensive	iShares U.S. IG Corporate Bond Index ETF (CAD-Hedged)	Fixed Income		1	2.94	4.66	75	73	74	71	74
4	4	4	8	8100	8100	CGL-TC	2020-07-02	Defensive	iShares Gold Bullion ETF	Commodities	1	1		16.81	75	74	72	73	73
14	14	8	6	6100	6100	VBU-TC	2020-07-02	Defensive	Vanguard U.S. Aggregate Bond Index ETF (CAD-hedged)	Fixed Income	1	1	2.23	5.03	72	72	72	70	69
17	17	1	1	1100		XUS-TC	2020-07-02	Offensive	iShares Core S&P 500 Index ETF	Broad Index		1	1.50	1.33	70	70	75	71	83
3	3	4	3	3600	3100	VEE-TC	2020-07-02	Defensive	Vanguard FTSE Emerging Markets All Cap Index ETF	International	1	1	2.84	-3.68	69	69	63	58	49
23	23	1	6	6100		XFR-TC	2020-07-02	Defensive	iShares Floating Rate Index ETF	Fixed Income		1	1.79	-0.15	66	51	53	55	53
24	24	11	6	6100	6100	VBG-TC	2020-07-02	Defensive	Vanguard Global ex-U.S. Aggregate Bond Index ETF (CAD-hedged)	Fixed Income	1	1	2.48	1.62	65	66	54	51	40
25	25	1	6	6100		XEB-TC	2020-07-02	Defensive	iShares J.P. Morgan USD Emerging Markets Bond Index ETF (CAD-H	Fixed Income		1	3.83	-5.64	64	61	58	50	48
15	15	1	6	6400		HTB-TC	2020-07-02	Defensive	Horizons US 7-10 Year Treasury Bond ETF	Fixed Income		1		16.54	64	63	61	58	59
4	4	1	3	3300		VDU-TC	2020-07-02	Defensive	Vanguard FTSE Developed All Cap Ex U.S. Index ETF	International		1	2.59	-6.71	63	64	61	59	59
4	4	7	4	4100	4100	XST-TC	2020-07-02	Defensive	iShares S&P/TSX Capped Consumer Staples Index ETF	Sector	1	1	0.76	0.73	61	59	57	44	43
6	6	1	4	4300		ZMT-TC	2020-07-02	Offensive	BMO Equal Weight Global Base Metals Hedged to CAD Index ETF	Sector		1	3.18	-23.53	58	57	50	51	53
22	22	1	1	1100		XMH-TC	2020-07-02	Offensive	iShares S&P U.S. Mid-Cap Index ETF (CAD-Hedged)	Broad Index		1	0.94	-15.08	57	56	58	63	64
8	8	8	3	3500	3100	ZDM-TC	2020-07-02	Offensive	BMO MSCI EAFE Hedged to CAD Index ETF	International	1	1	3.40	-11.08	56	61	52	49	52
31	31	8	1	1100	1100	XSU-TC	2020-07-02	Offensive	iShares U.S. Small Cap Index ETF (CAD-Hedged)	Broad Index	1	1	1.24	-16.34	55	58	55	56	57
35	35	9	1	1100	1100	ZDJ-TC	2020-07-02	Offensive	BMO Dow Jones Industrial Average Hedged to CAD Index ETF	Broad Index	1	1	1.97	-11.14	50	58	61	60	61
39	39	17	6	6500	6100	ZHY-TC	2020-07-02	Defensive	BMO High Yield US Corporate Bond Hedged to CAD Index ETF	Fixed Income	1	1	7.56	-9.10	44	55	49	47	50
12	12	1	4	4100		ZRE-TC	2020-07-02	Offensive	BMO Equal Weight REITs Index ETF	Sector		1	5.31	-10.73	36	34	35	34	27

RIVERSIDE'S HEAT MAP
MARKET MODEL RANKING (MMR)

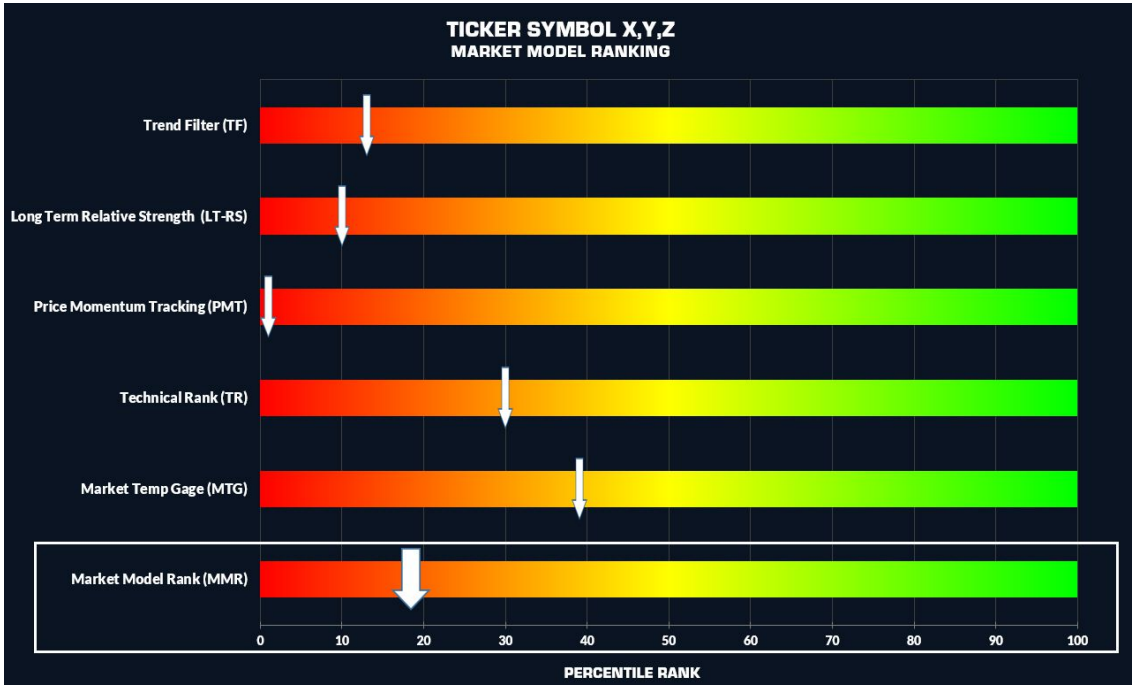
THE WEIGHT OF THE EVIDENCE

The Market Model Ranking is the "Weight of the Evidence" indicator in the Heat Map;

This metric summarizes the various metrics of the Heat Map, based on a top down approach into one concise indicator;

The Market Model ranking has been converted into a percentile ranking from 0 (bearish-red) to 100 (bullish-bright green);

A reading of 50 would be considered Neutral.



RIVERSIDE'S MARKET BREADTH

GENERAL OVERVIEW

BREADTH INDICATORS

In its most basic form, Market Breadth indicators analyze the number of stocks advancing relative to those that are declining or the number of stocks producing new highs vs the number of stocks producing new lows.

We use 8 custom Market Breadth indicators, in various time frames including;

- Advance Decline Percent;
- Volume Advance Decline Percent;
- New High, New Low Percent;
- Percentage of Stocks Above a Moving Average;

Our Breadth Readings are produced in a Binary Format:

- Bullish;
- Neutral;
- Bearish;

RIVERSIDE'S SEASONAL PROFIT EXPLORER (SPE)

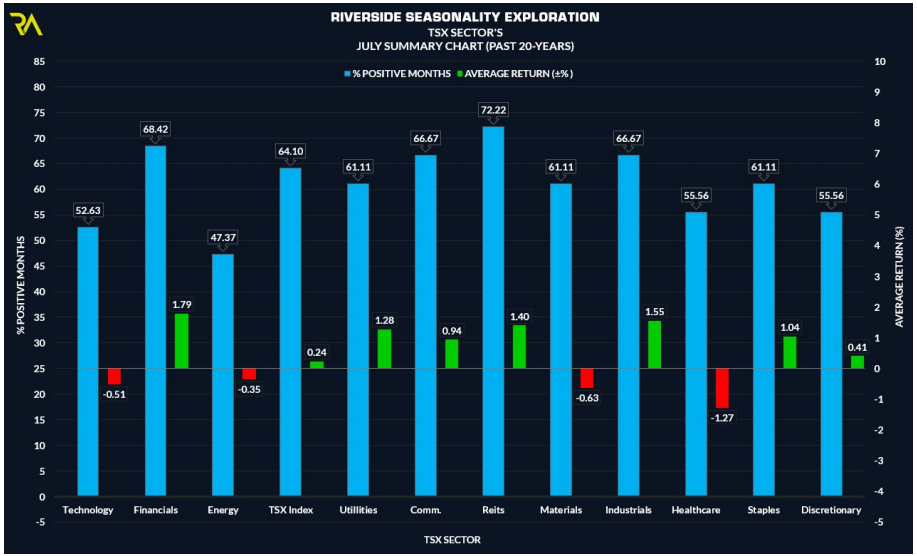
GENERAL OVERVIEW

SEASONALITY PROFIT EXPLORER (SPE)

Seasonality is the tendency for securities to perform better during some time periods and worse during others.

We have developed an algorithm to analyse monthly price data. This algorithm allows us to see the seasonal price fluctuations for all ticker symbols within our database.

We have been able to condense this information into a simple spreadsheet format for Investors and Traders to use. This information can be sorted on a monthly basis to identify ticker symbols that have historically performed well in the past. We believe our Seasonality Profit Explorer is a great addition to our suite of tools whereby illuminating the road ahead and ultimately stacking the odd's in our favor.



RIVERSIDE'S HISTORICAL PRICE ANALYSIS

GENERAL OVERVIEW

Based on a current rare technical signal, what has in the past when this signal has triggered?

What happens to the S&P 500 in the past during US Presidential Election Years from the start of June to the end December?		Period Analysed		1928-2020	Number of Instances		23	Created by Tim Koen, Riverside Analytics Inc	
Ticker	Date/Time	Full name	ROC(20)	Close	1 Days Later	2 Days Later	3 Days Later	4 Days Later	5 Days Later	10 Days Later
^GSPC	1972-06-01	S&P 500 Yahoo		109.69	0.00%	-0.80%	-1.30%	-1.90%	-2.20%	-1.10%
^GSPC	1976-06-01	S&P 500 Yahoo		99.85	0.40%	0.30%	-0.70%	-1.20%	-1.10%	1.60%
^GSPC	1980-06-02	S&P 500 Yahoo		110.76	-0.20%	1.70%	1.80%	2.20%	2.70%	4.80%
^GSPC	1984-06-01	S&P 500 Yahoo		153.24	0.70%	0.30%	1.20%	1.10%	1.30%	-2.70%
^GSPC	1988-06-01	S&P 500 Yahoo		266.69	-0.50%	-0.10%	0.10%	-0.60%	1.80%	2.90%
^GSPC	1992-06-01	S&P 500 Yahoo		417.3	-0.90%	-0.60%	-1.00%	-0.90%	-0.90%	-1.70%
^GSPC	1996-06-03	S&P 500 Yahoo		667.68	0.70%	1.60%	0.80%	0.80%	0.70%	-0.40%
^GSPC	2000-06-01	S&P 500 Yahoo		1448.81	2.00%	1.30%	0.60%	1.60%	0.90%	2.10%
^GSPC	2004-06-01	S&P 500 Yahoo		1121.2	0.30%	-0.40%	0.10%	1.70%	1.90%	1.10%
^GSPC	2008-06-02	S&P 500 Yahoo		1385.67	-0.60%	-0.60%	1.30%	-1.80%	-1.70%	-1.80%
^GSPC	2012-06-01	S&P 500 Yahoo		1278.04	0.00%	0.60%	2.90%	2.90%	3.70%	5.10%
^GSPC	2016-06-01	S&P 500 Yahoo		2099.33	0.30%	0.00%	0.50%	0.60%	0.90%	-1.30%
^GSPC	2020-06-01	S&P 500 Yahoo		3044.31						

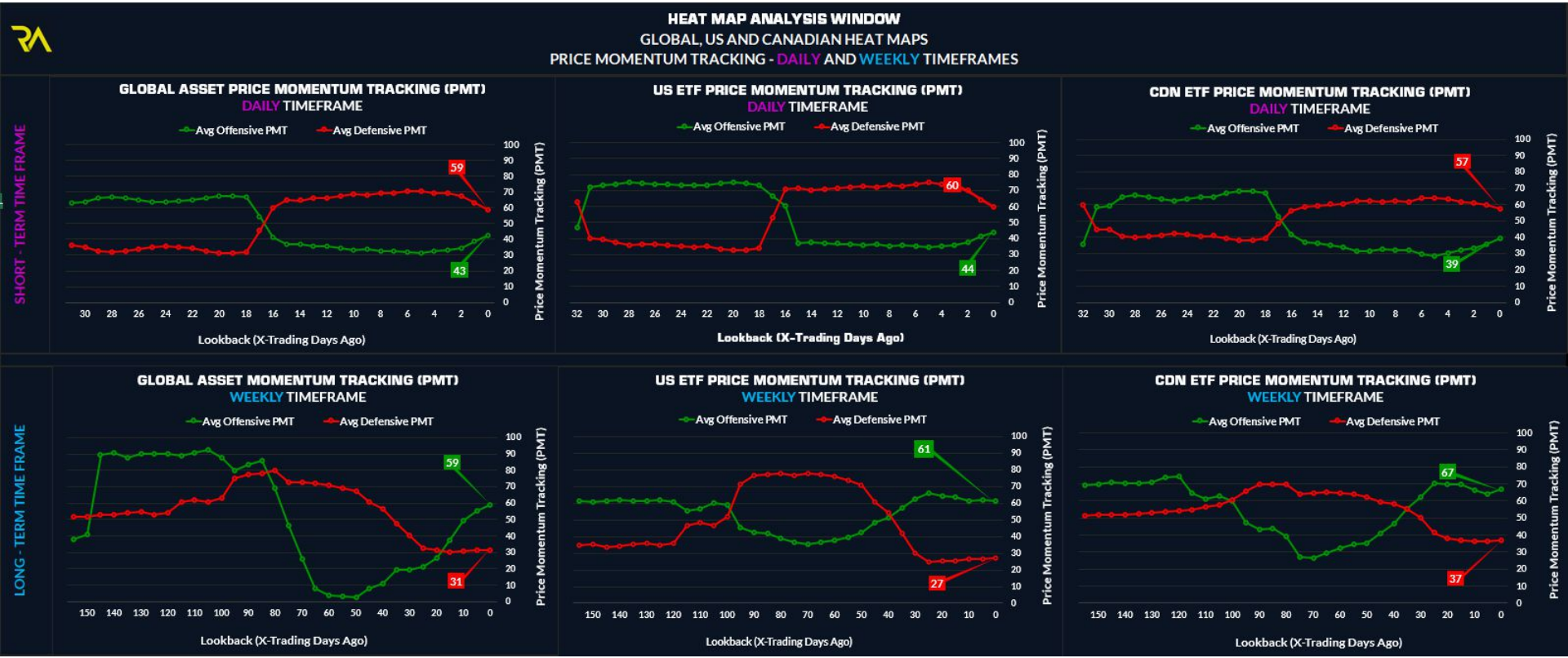
What happens to the S&P 500 in the past during US Presidential Election Years from the start of June to the end December?								
	Ticker Symbol being Tested ^GSPC	No. of Cases	23	23	23	23	23	23
		No. Positive Cases	12	10	15	13	13	14
		% Positive Cases	52%	43%	65%	57%	57%	61%
	Analysis Period = 1928 - 2020	Average Return (%)	0.37%	0.57%	0.87%	0.75%	0.50%	1.83%
		Median Return(%)	0.10%	-0.10%	0.50%	0.80%	0.70%	1.70%
		Min Return(%)	-1.30%	-1.10%	-2.00%	-2.30%	-3.50%	-6.60%
		Max Return(%)	5.50%	11.10%	15.20%	10.20%	3.90%	16.40%

BRINGING OUR DATA TO LIFE

- HEAT MAP ANALYSIS WINDOW
- LONG VS SHORT ETF'S – PRICE MOMENTUM TRACKING
- NEW TOOLS

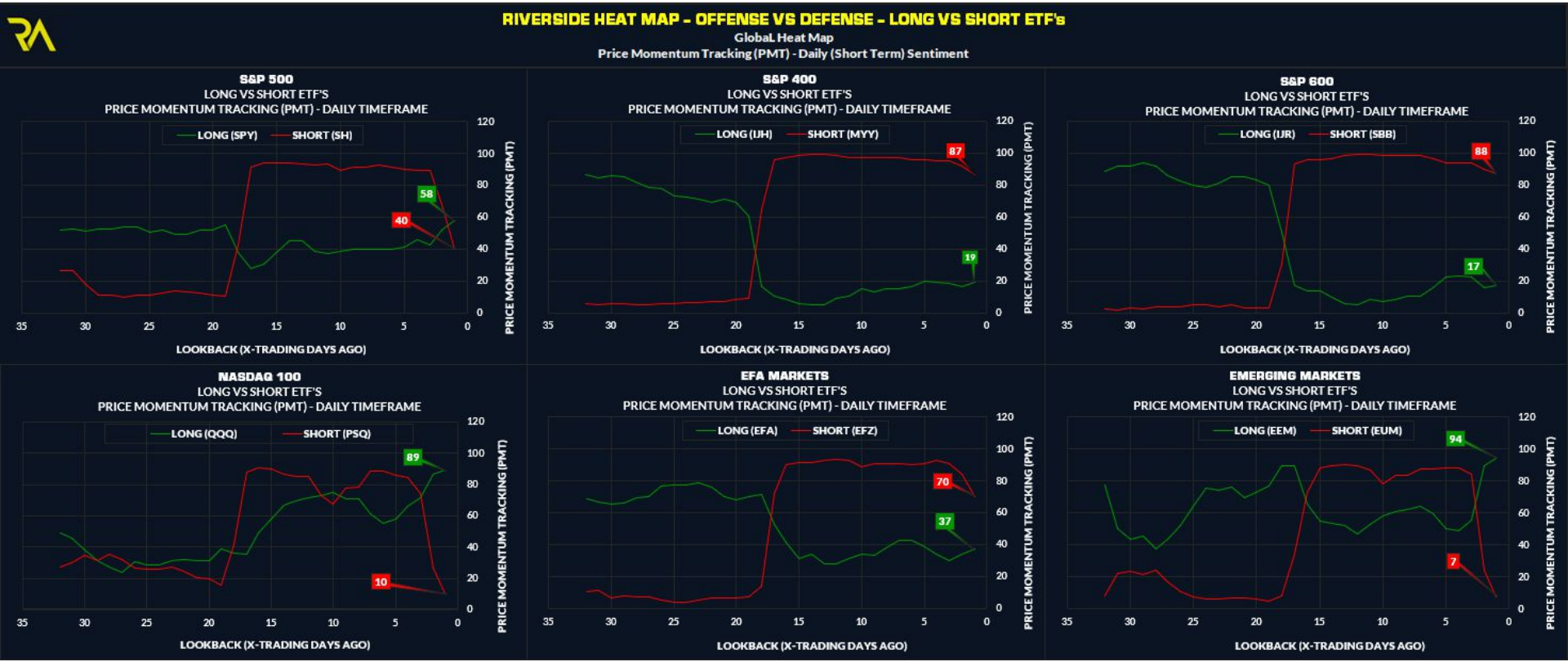
RIVERSIDE'S HEAT MAP ANALYSIS WINDOW

OFFENSE VS DEFENSE



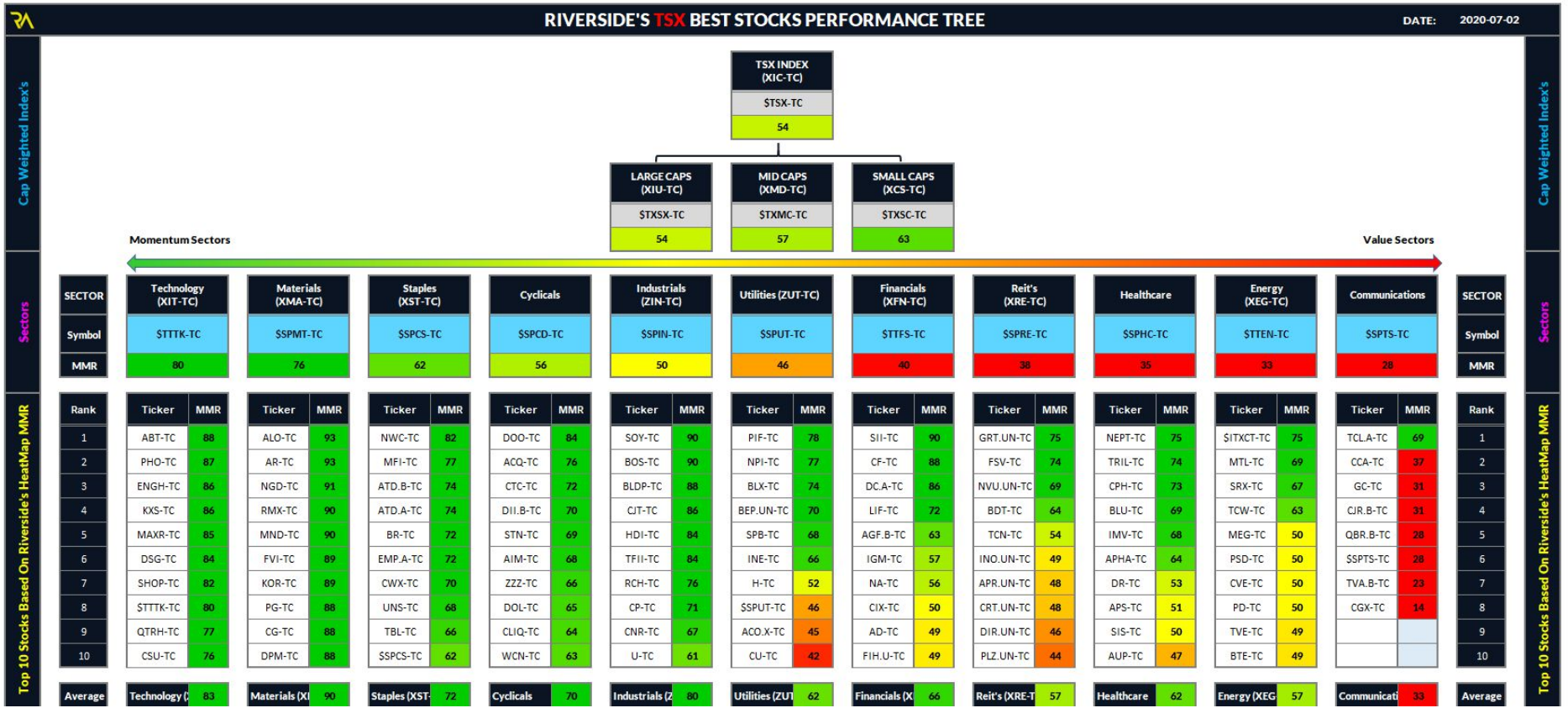
LONG VS SHORT ETF'S USING PRICE MOMENTUM TRACKING (PMT)

OFFENSE VS DEFENSE



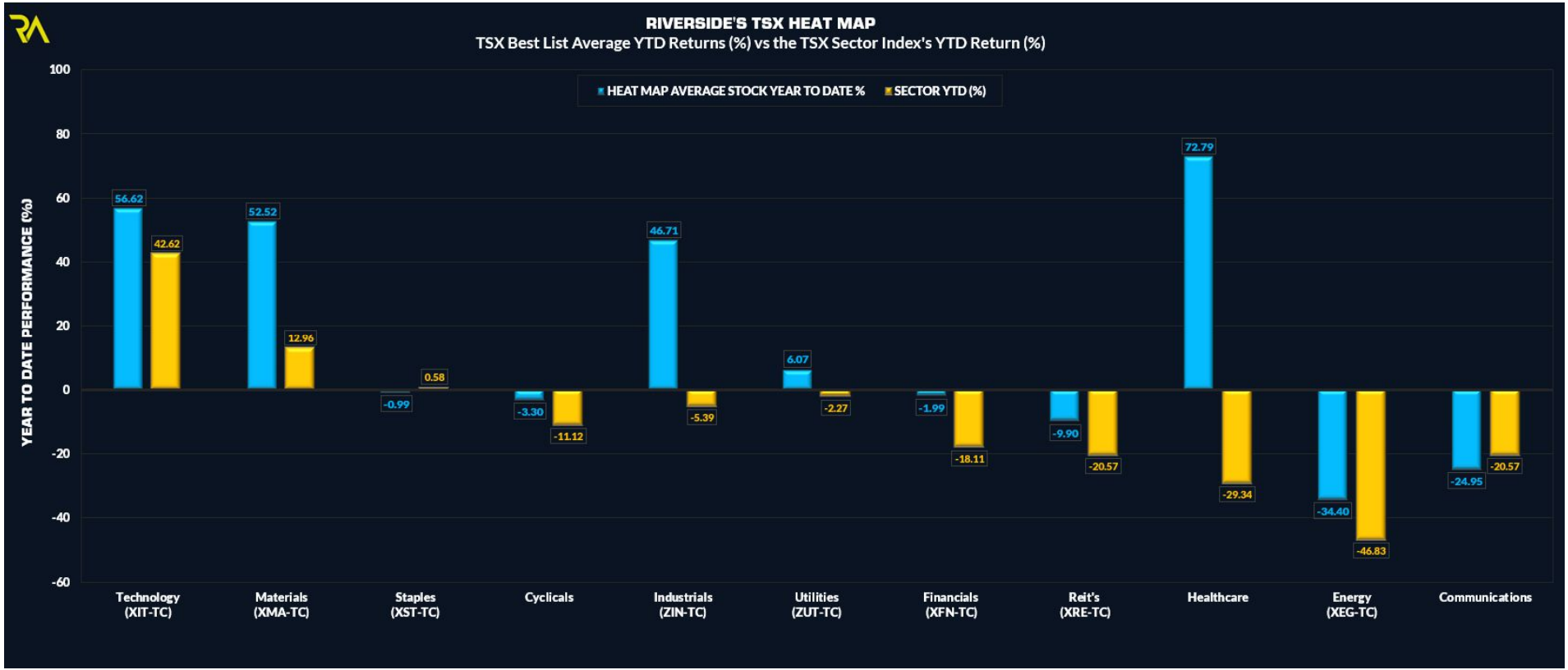
"BEST" STOCKS – PERFORMANCE TREE'S

S&P 1500 AND TSX INDEX'S



“BEST” STOCKS – PERFORMANCE TREE’S

DO THESE LISTS ACTUALLY WORK???? THE RESULTS ARE IN….



OUR NEW TOOLS
BRINGING OUR DATA TO LIFE

OUR GOALS FOR BRINGING OUR DATA TO LIFE

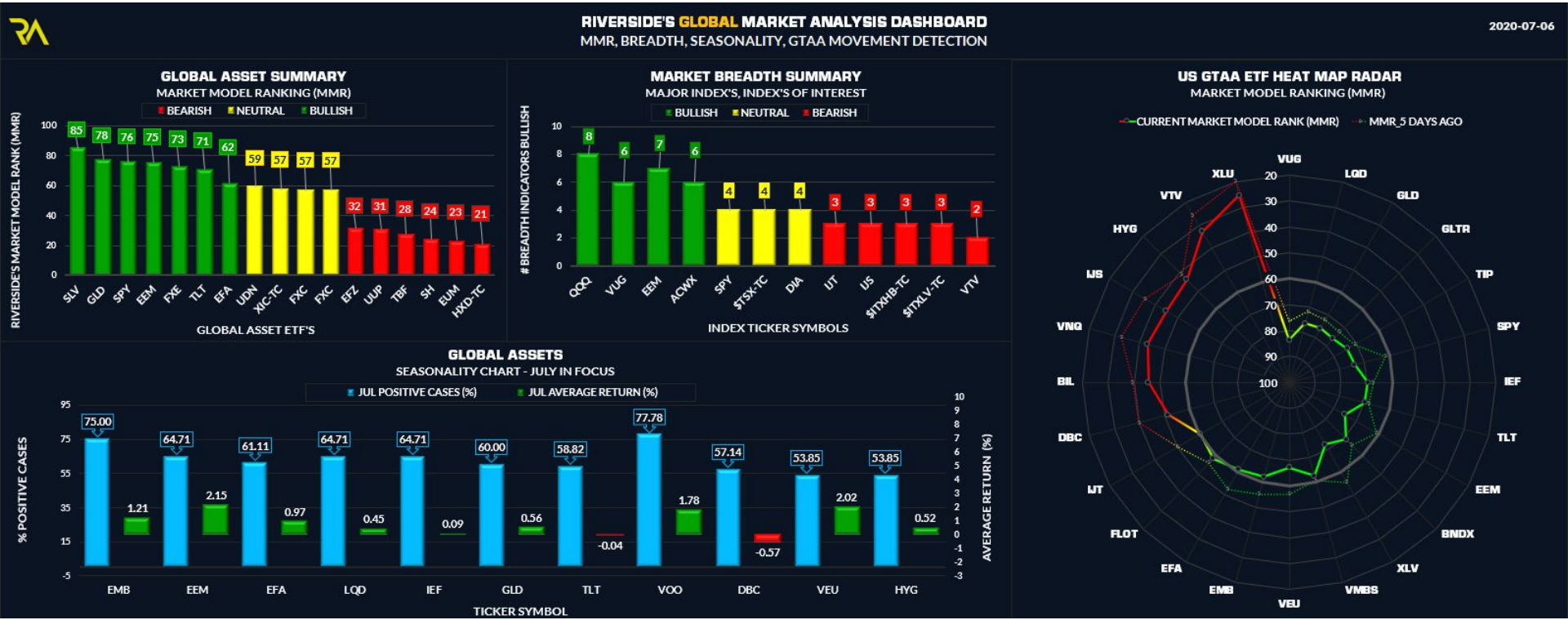
Keep it Super Simple (KISS)
Provide clear insights
Provide a “one stop” shop for Investors
Show the true power of the data we produce

To do all of the above….we starting thinking outside the box.

Let’s start with our NEW our Global Asset Dashboard

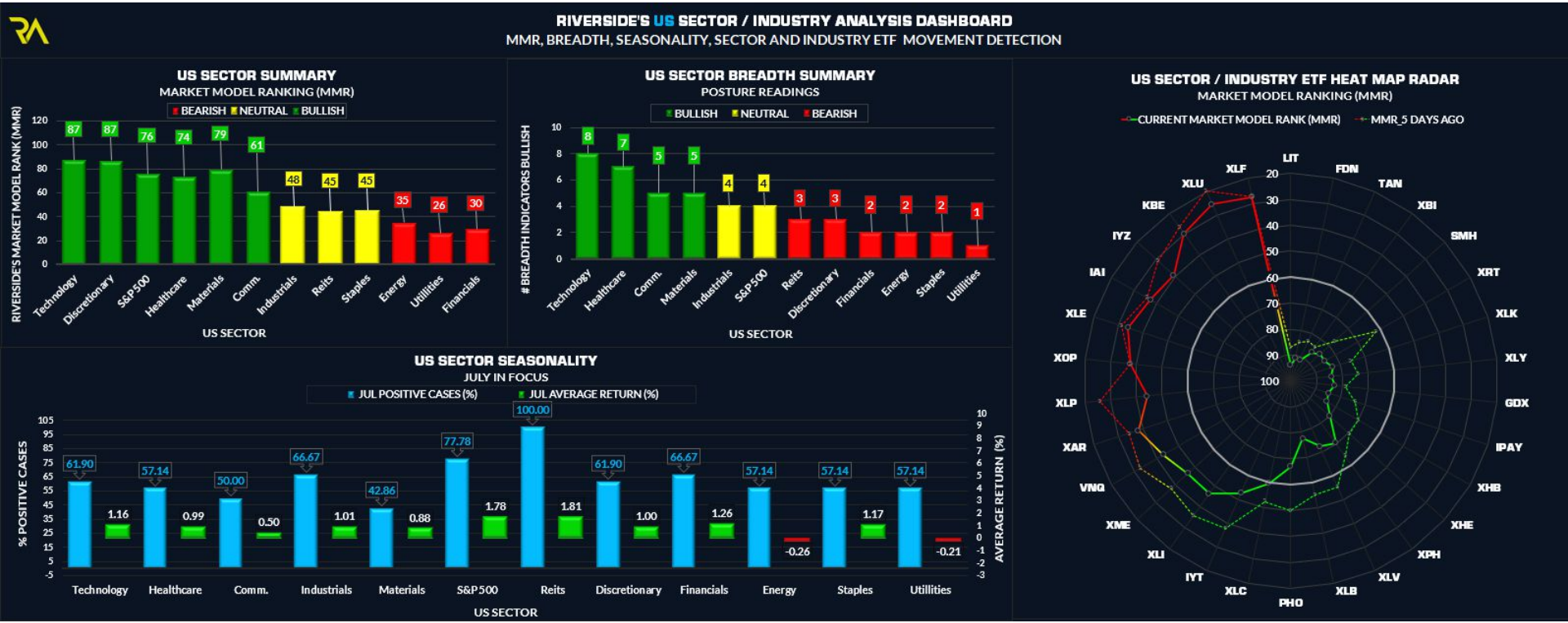
RIVERSIDE'S GLOBAL MARKET ANALYSIS DASHBOARD

BRINGING OUR DATA TO LIFE



RIVERSIDE'S US SECTOR ANALYSIS DASHBOARD

BRINGING OUR DATA TO LIFE



RIVERSIDE'S TSX SECTOR / INDUSTRY GROUP ANALYSIS DASHBOARD

MMR RANKING, BREADTH, VALUE, VOLATILITY, MOVEMENT DETECTION AND SEASONALITY

TSX SECTOR SUMMARY

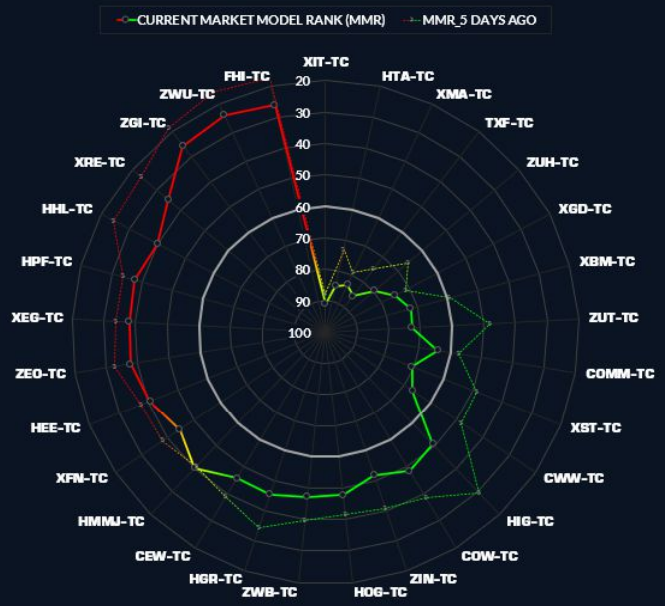
MARKET MODEL RANKING (MMR)

TSX SECTOR BREADTH SUMMARY

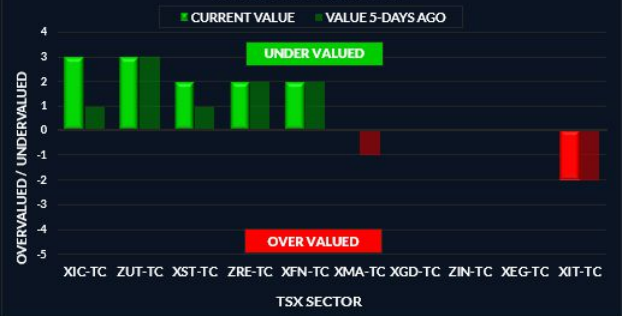
POSTURE READINGS

CDN SECTOR / INDUSTRY ETF HEAT MAP RADAR

MARKET MODEL RANKING (MMR)



TSX SECTOR VALUE CHART



TSX SECTOR VOLATILITY

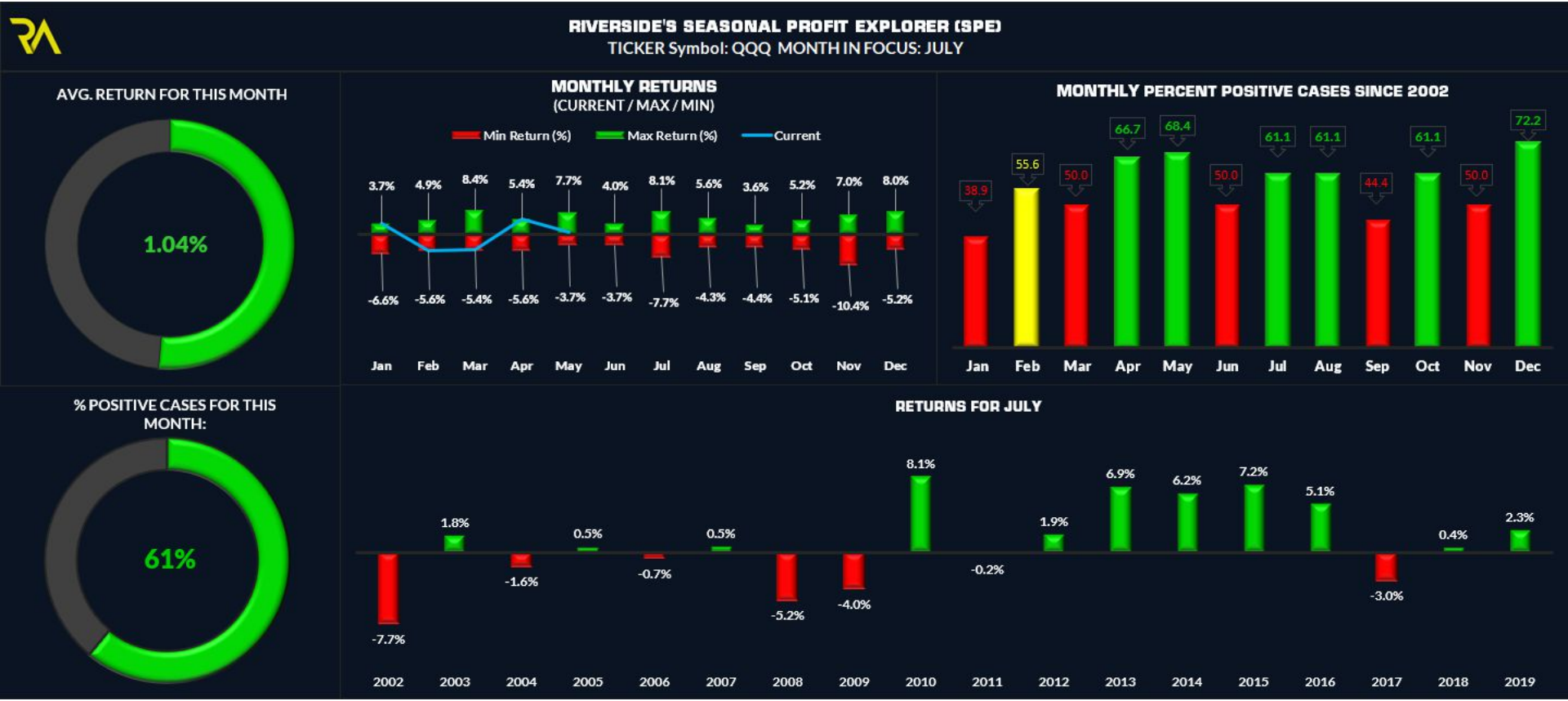
SHORT TERM (VLT)

TSX SECTOR SEASONALITY

JULY IN FOCUS

RIVERSIDE'S SEASONALITY PROFIT EXPLORER (SPE)

BRINGING OUR DATA TO LIFE



RIVERSIDE'S HISTORICAL PRICE ANALYSIS

BRINGING OUR DATA TO LIFE

2020 is a US Presidential Election Year……..

There have been 23 Election Years from 1928 to 2016….

RIVERSIDE'S HISTORICAL PRICE ANALYSIS

BRINGING OUR DATA TO LIFE

The "Old" View

= A lot of Numbers

= Hard to Understand

= zzzzzzzzzz…….

Next slide please….

What happens to the S&P 500 in the past during US Presidential Election Years from the start of June to the end December?		Period Analysed		1928-2020	Number of Instances		23	Created by Tim Koen, Riverside Analytics Inc		1 Month	2 Months	3 Months	6 Months	9 Months	1-Year
Ticker	Date/Time	Full name	BLANK	Close	1 Days Later	2 Days Later	3 Days Later	4 Days Later	5 Days Later	10 Days Later	20 Days Later	40 Days Later	60 Days Later	120 Days Later	180 Days Later	250 Days Later
^GSPC	1948-06-01	S&P 500 Yahoo		16.74	0.10%	-0.10%	-0.90%	-1.20%	0.50%	1.90%	-0.30%	-3.30%	-4.50%	-9.30%	-12.00%	-13.30%
^GSPC	1952-06-02	S&P 500 Yahoo		23.8	-0.10%	0.60%	1.30%	1.90%	2.40%	2.10%	4.90%	6.10%	4.30%	6.80%	7.70%	1.80%
^GSPC	1956-06-01	S&P 500 Yahoo		45.58	0.60%	0.60%	0.10%	0.90%	-1.00%	1.70%	3.00%	7.50%	4.60%	-2.00%	-4.60%	4.10%
^GSPC	1960-06-01	S&P 500 Yahoo		55.89	0.40%	0.60%	1.80%	2.80%	3.60%	3.00%	1.90%	-2.40%	3.40%	0.10%	11.50%	19.10%
^GSPC	1964-06-01	S&P 500 Yahoo		80.11	-0.50%	-0.80%	-1.80%	-1.40%	-1.80%	-0.20%	1.90%	3.40%	1.70%	7.60%	6.90%	9.60%
^GSPC	1968-06-03	S&P 500 Yahoo		99.99	0.40%	-0.10%	0.70%	1.30%	1.40%	0.00%	2.00%	-2.00%	1.30%	3.80%	1.10%	-3.10%
^GSPC	1972-06-01	S&P 500 Yahoo		109.69	0.00%	-0.80%	-1.30%	-1.90%	-2.20%	-1.10%	-2.60%	-2.10%	0.90%	5.90%	4.60%	-5.30%
^GSPC	1976-06-01	S&P 500 Yahoo		99.85	0.40%	0.30%	-0.70%	-1.20%	-1.10%	1.60%	4.00%	3.20%	2.20%	2.10%	1.20%	-2.80%
^GSPC	1980-06-02	S&P 500 Yahoo		110.76	-0.20%	1.70%	1.80%	2.20%	2.70%	4.80%	3.10%	10.50%	12.70%	26.80%	16.00%	19.70%
^GSPC	1984-06-01	S&P 500 Yahoo		153.24	0.70%	0.30%	1.20%	1.10%	1.30%	-2.70%	0.00%	-2.00%	8.60%	7.10%	18.50%	22.50%
^GSPC	1988-06-01	S&P 500 Yahoo		266.69	-0.50%	-0.10%	0.10%	-0.60%	1.80%	2.90%	1.60%	-0.30%	-2.80%	-0.10%	10.30%	20.60%
^GSPC	1992-06-01	S&P 500 Yahoo		417.3	-0.90%	-0.60%	-1.00%	-0.90%	-0.90%	-1.70%	-2.00%	0.10%	-1.40%	1.30%	4.00%	8.70%
^GSPC	1996-06-03	S&P 500 Yahoo		667.68	0.70%	1.60%	0.80%	0.80%	0.70%	-0.40%	1.20%	-4.90%	-0.20%	11.40%	22.30%	26.40%
^GSPC	2000-06-01	S&P 500 Yahoo		1448.81	2.00%	1.30%	0.60%	1.60%	0.90%	2.10%	-0.40%	-2.00%	4.00%	-7.30%	-10.20%	-13.90%
^GSPC	2004-06-01	S&P 500 Yahoo		1121.2	0.30%	-0.40%	0.10%	1.70%	1.90%	1.10%	1.80%	-1.90%	-1.40%	4.40%	8.00%	6.90%
^GSPC	2008-06-02	S&P 500 Yahoo		1385.67	-0.60%	-0.60%	1.30%	-1.80%	-1.70%	-1.80%	-7.60%	-8.80%	-8.20%	-41.80%	-43.10%	-33.70%
^GSPC	2012-06-01	S&P 500 Yahoo		1278.04	0.00%	0.60%	2.90%	2.90%	3.70%	5.10%	6.60%	8.40%	10.40%	10.30%	17.60%	28.40%
^GSPC	2016-06-01	S&P 500 Yahoo		2099.33	0.30%	0.00%	0.50%	0.60%	0.90%	-1.30%	-1.40%	3.40%	3.50%	3.90%	11.80%	14.90%
^GSPC	2020-06-01	S&P 500 Yahoo		3044.31												

What happens to the S&P 500 in the past during US Presidential Election Years from the start of June to the end December?	Ticker Symbol being Tested ^GSPC	No. of Cases	23	23	23	23	23	23	23	23	23	23	23	23
		No. Positive Cases	12	10	15	13	13	14	15	12	17	18	19	17
		% Positive Cases	52%	43%	65%	57%	57%	61%	65%	52%	74%	78%	83%	74%
	Analysis Period = 1928 - 2020	Average Return (%)	0.37%	0.57%	0.87%	0.75%	0.50%	1.83%	1.41%	3.12%	6.67%	6.64%	7.79%	13.90%
		Median Return(%)	0.10%	-0.10%	0.50%	0.80%	0.70%	1.70%	1.90%	0.10%	3.40%	4.40%	8.00%	9.60%
		Min Return(%)	-1.30%	-1.10%	-2.00%	-2.30%	-3.50%	-6.60%	-7.60%	-8.80%	-8.20%	-41.80%	-43.10%	-33.70%
		Max Return(%)	5.50%	11.10%	15.20%	10.20%	3.90%	16.40%	8.30%	33.00%	87.70%	63.00%	36.40%	147.50%

PERCENT POSITIVE CASES

1-DAY TO 1-YEAR FOLLOWNG THE ORIGINAL SIGNAL

MIN / MAX RETURNS

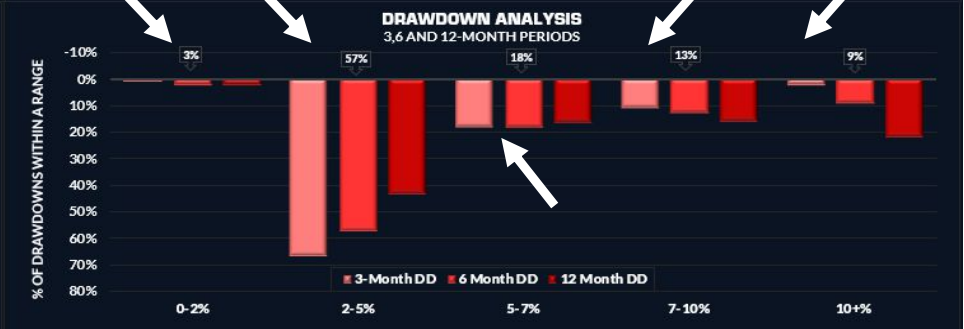
1-DAY TO 1-YEAR FOLLOWNG THE ORIGINAL SIGNAL

MEDIAN RETURN ANALYSIS

1-DAY TO 1-YEAR FOLLOWNG THE ORIGINAL SIGNAL

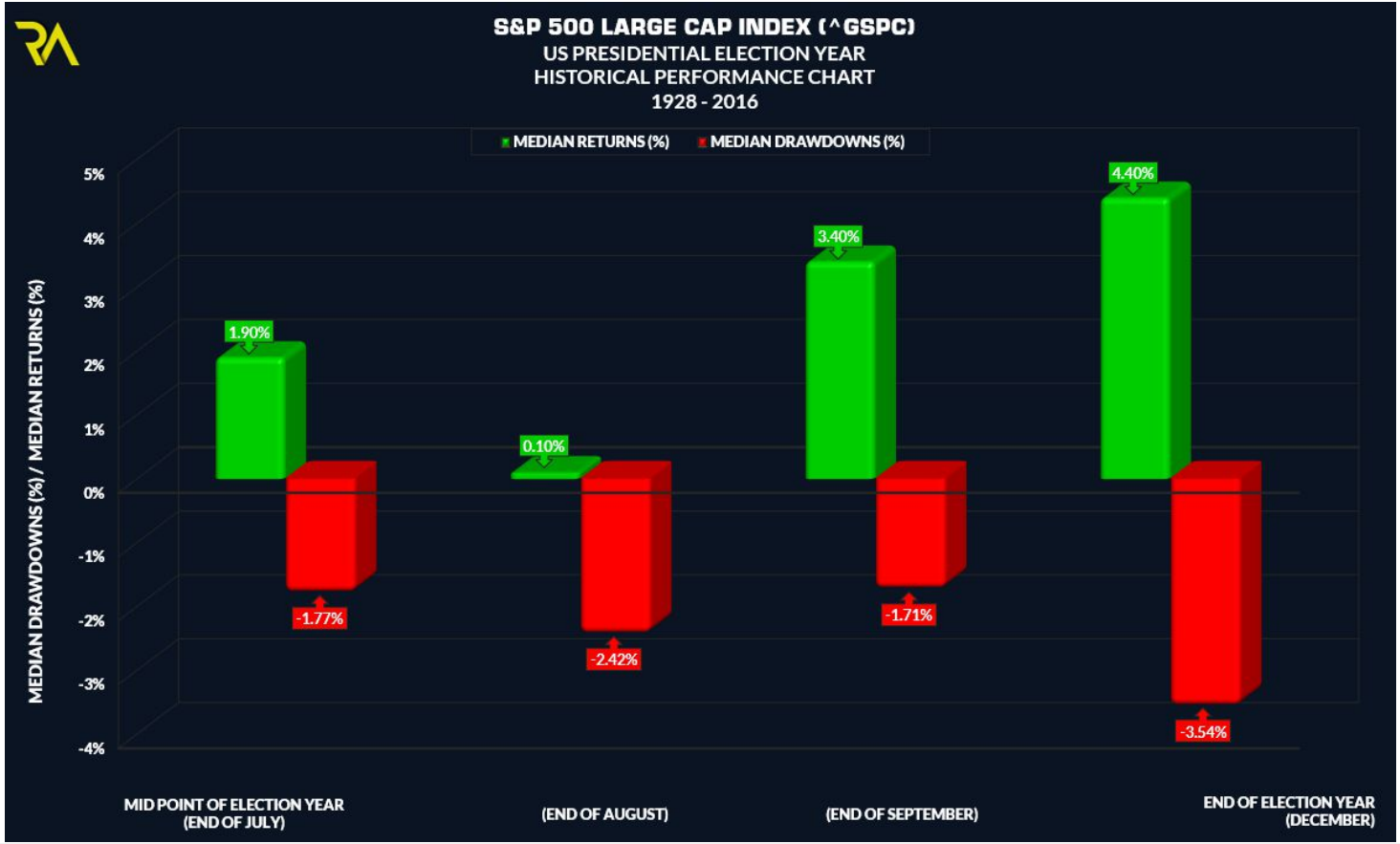
DRAWDOWN ANALYSIS

3,6 AND 12-MONTH PERIODS



RIVERSIDE'S HISTORICAL PRICE ANALYSIS

BRINGING OUR DATA TO LIFE



S&P 500 LARGE CAP INDEX ($SPX)

HISTORICAL PRICE ANALYSIS – DIRECT CHART VISUALISATION

The following chart of the S&P 500 illustrates the results of various Historical Price Analysis to visualise potential price levels into the end of 2020;

These price levels are NOT a forecast for future price direction;

Rather, these price levels are provided to illustrate a range of possibilities based on past price behaviour;

Results of the following historical price analysis have been based on the following;

- **Analysis #1 - $SPX-Weekly ROC (10) cross above -5% - May 8, 2020;**
- **Analysis #2 - $SPX-$BPNYA Daily ROC (3) cross below -30% - May 14, 2020;**
- **Analysis #3 - $SPX - $SPXA50R cross above 90% - May 26, 2020;**
- **Analysis #4 - $SPX - US Presidential Election year (June to December) – May 29, 2020;**

Median upside price projections have been illustrated by green dashed lines

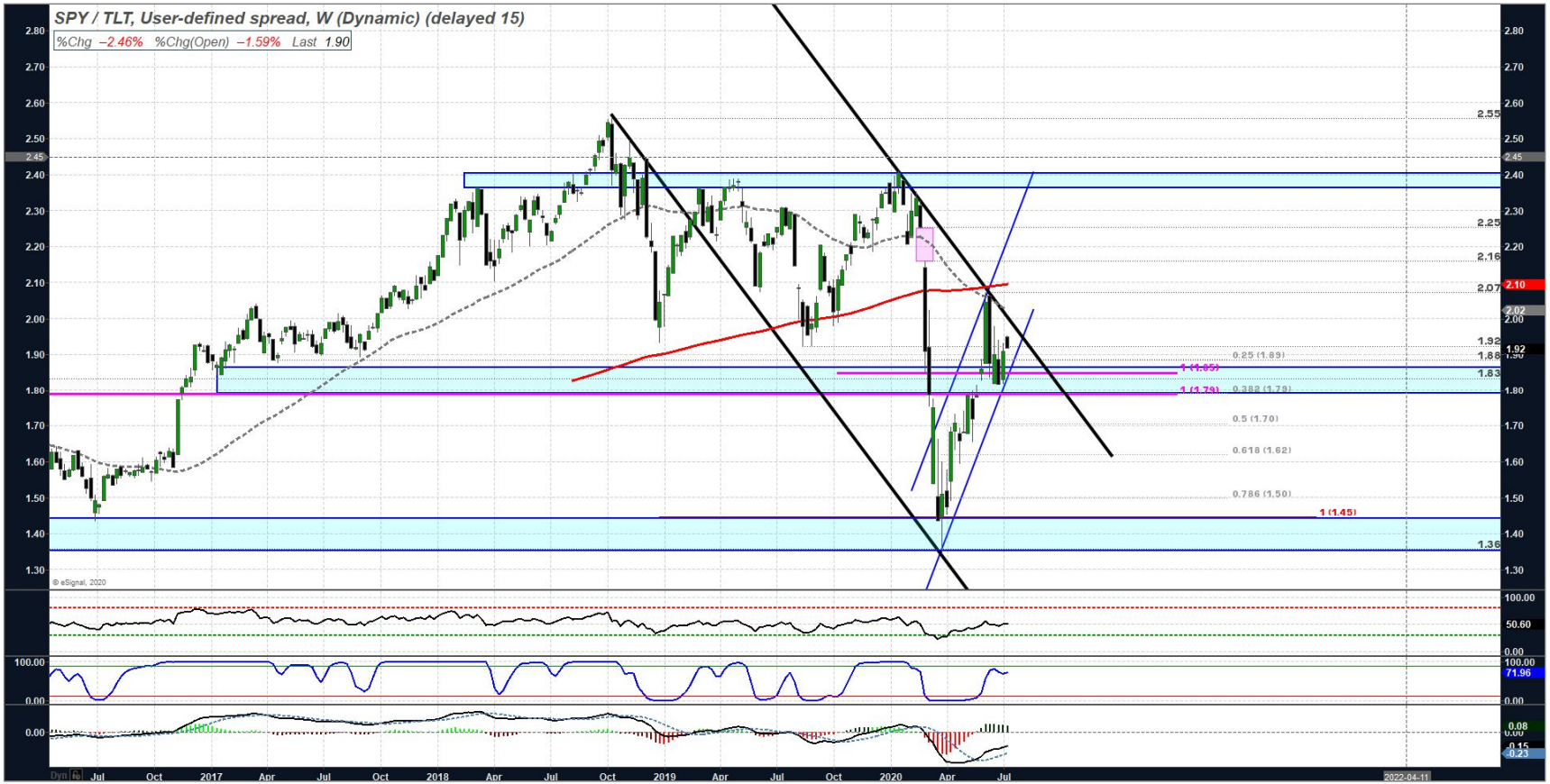
Average/median drawdowns have been illustrated by red dashed lines

S&P 500 LARGE CAP INDEX ($SPX)

HISTORICAL PRICE ANALYSIS– DIRECT CHART VISUALISATION

OFFENSE VS DEFENSE

S&P 500 LARGE CAP INDEX ETF (SPY) vs LT. TREASURIES (TLT) – WEEKLY RATIO ANALYSIS



PRODUCT OFFERINGS

- INVESTOR MASTER CLASS
- STANDARD MEMBERSHIP
- PREMIUM MARKET BREADTH
- SEASONALITY PROFIT EXPLORER
- ULTIMATE MEMBERSHIP

RIVERSIDE'S INVESTORS MASTER CLASS
PRODUCT OFFERING

RIVERSIDE'S INVESTORS MASTER CLASS

Our goal at Riverside Analytics, is to not only help grow and protect your capital but to help you become a better investor. Whether you are just starting your investment career or are currently a seasoned investor, the Riverside Analytics Educational Series has something for you. The intention of the Investor Master Class is to outline the framework of methodology we use at Riverside Analytics on a week to week basis and show you how you can create your own personal Trading/Investment Plan to suit your needs. From this class you will be able to navigate the markets much more efficiently and use the Weight of the Evidence to your advantage.

Riverside's Investor Master Class contains 16+ hours of content geared towards helping investors create and implement a defined Investment Plan. This class is a Premium feature at Riverside and add on to Annual or Quarterly Membership structure.

- ❖ Module #1 – Investor Psychology, Getting To Know The Investor In You;
- ❖ Module #2 – Portfolio Methodology Overview;
- ❖ Module #3 – Technical Indicator Overview;
- ❖ Module #4 – Building Your Investment Plan;

Annual Registration = $995
(registrants may sit in and take the class as many times as it's offered in the calendar year they have purchased the course)

Renewal= $99/year
(if a previous member has taken the class in the past, the renewal fee will be applied provided they can provide a proof of receipt of the class)

RIVERSIDE'S STANDARD MEMBERSHIP

PRODUCT OFFERING

RIVERSIDE'S STANDARD MEMBERSHIP INCLUDES THE FOLLOWING;

The Standard Membership content is Investment geared and focused on the Global Markets (Equities, Bonds, Currencies and Commodities). The standard Riverside Membership has flexible quarterly and annual membership billing cycles that include the following;

- Monthly Strategy and Allocation Review;
- Monthly Macro Indicator Review;
- Weekly and Monthly Portfolio Shield review using Riverside's proprietary indicators;
- Weekly Market Sentiment Review;
- Member ticker symbol analysis review;
- Access to the Riverside's Standard Heat Map issued twice each week. The Heat Map may be downloaded in Microsoft excel format to download for your personal use;
- Access to Riverside's Market Radar Detection;
- Weekly Major Index and Sector Market Breadth Analysis (Binary);
- Access to the Riverside Blog;
- Access to various backtests (Strategies, Historical price behavior);
- Access to Weekly Broadcasts. Broadcasts are held Tuesday Evenings 7- p.m.. Video recordings and associated slide decks will be available for download following each session for your records and to watch at your leisure;
- Weekly Strategy Asset Alerts;
- Access to Riverside's private social media pages;
- Detailed weekly Technical Analysis of Strategy assets;

Standard Membership Annual Membership = $550
Standard Membership Quarterly Membership = $165

The first 60 members pay no tax for the first year

RIVERSIDE'S PREMIUM MARKET BREADTH MEMBERSHIP

STAND ALONE PRODUCT OFFERING

RIVERSIDE'S PREMIUM BREADTH MEMBERSHIP INCLUDES THE FOLLOWING;

- ✓ Market Breadth Metrics include the following;
  - ❖ US Market
    - ➢ Major Index's, Sectors and Industry Groups
  - ❖ TSX Markets
    - ➢ Major Index's, Sectors
  - ❖ Global Markets (ACWX);
  - ❖ EAFE Markets (EFA);
  - ❖ EEM Markets (EEM);
- ✓ Binary Breadth Metrics (Bullish, Neutral, Bearish Breadth Postures)
- ✓ Breadth Summation Metrics (# of Breadth Index's on a Bullish, Neutral, Bearish Breadth Postures);
- ✓ Breadth Indicator Summary – This summary illustrates the specific posture of all of our breadth indicators including;
  - ❖ Advance Decline Percent Thrust Indicator;
  - ❖ New High – New Low Percent Thrust Indicator;
  - ❖ % Stocks Above the 20-day EMA;
  - ❖ % Stocks Above the 50-day EMA;
  - ❖ % Stocks Above the 200-day EMA;
  - ❖ 20-day New High – New Low Indicator;
  - ❖ 65-day New High – New Low Indicator;
  - ❖ 252-day New High – New Low Indicator;
- ✓ Direct Link to Riverside's Portfolio Shield and MMR Rankings);
- ✓ Monthly Breadth Commentary
  - ❖ Assets that are gaining strength;
  - ❖ Assets that are weakening;
  - ❖ Sector and Industry spotlight
  - ❖ Select Breadth Charts;
  - ❖ Additional Charts available on request
- ✓ Updates include an Market Breadth spreadsheet;
- ✓ Market Breadth updates will be provided at the end of each week;

LIVE DEMONSTRATION

Annual Membership = $300
Quarterly Membership = $90

The first 60 members pay no tax for the first year

RIVERSIDE'S SEASONALITY PROFIT EXPLORER (SPE)

STAND ALONE PRODUCT OFFERING

RIVERSIDE'S SEASONALITY PROFIT EXPLORER

Currently our Seasonality Profit Explorer (SPE) provides the following monthly metrics for all ticker symbols;

- ❖ Look back periods of 20-year periods;
- ❖ Calculated Monthly returns;
- ❖ Number of Cases (i.e. months);
- ❖ Number of Positive Cases;
- ❖ Percentage of Positive Cases;
- ❖ Average Return (%);
- ❖ Minimum Return (%);
- ❖ Maximum Return;

PRODUCT OFFERING

Our Seasonality Profit Explorer (SPE) membership includes the following;

- ❖ Updates include an SPE spreadsheet for the S&P 1500, TSX, US and Canadian ETF's for the following month;
- ❖ Seasonality Profit Explorer (SPE) updates will be provided at the end of the 2nd week of each month;
- ❖ This provides up to two weeks of advanced notice for the following month (i.e. on June 15th the SPE spreadsheets will be provided for the month of July);
- ❖ Stock ticker symbols may be sorted based on sectors and SPE parameters;
- ❖ ETF ticker symbols may be sorted based on sectors and SPE parameters;

LIVE DEMONSTRATION

Seasonality Profit Explorer Annual Registration = $300
Seasonality Profit Explorer Quarterly Registration = $ 90

The first 60 members pay no tax for the first year

RIVERSIDE'S ULTIMATE MEMBERSHIP
PRODUCT OFFERING

We have been asked……"What if I want everything????"

For those investors and traders that are looking for our full suite of tools, we have created a product just for you!

Our Ultimate Membership has been created to bundle our various memberships and with a unique added feature. Our Ultimate Membership includes the following;

- Standard Membership;
- Premium Market Breadth Membership;
- Seasonality Profit Explorer Membership;
- and……
- Our flagship tool…..our **Ultimate Heat Map**.

LIVE DEMONSTRATION

Seasonality Profit Explorer Annual Registration = $750
Seasonality Profit Explorer Quarterly Registration = $ 225

The first 60 members pay no tax for the first year

TIME TO STRETCH THE LEGS

BREAK TIME

We will be back in 5min to start our question and answer period

https://towardsdatascience.com/how-to-create-your-own-question-answering-system-easily-with-python-2ef8abc8eb5

QUESTION AND ANSWER PERIOD

- QUESTIONS RECEIVED TO DATE
- ADDITIONAL QUESTIONS

YOUR QUESTIONS
OUR ANSWERS

QUESTIONS RECEIVED TO DATE

- Is it possible to include the chat with the recordings?
- When(day of the week & time) do you intend to hold the Weekly Market Review?
- Will both the recording and the slide decks used during the broadcast will be available for review at a later date, how much later?
- Will there be a blog for members only where members can exchange information and/or ask questions?
- Do members who were previously enrolled in the Master Class need to pay once more the initial entry fee of $995, or just the $99/year renewal fee?
- Will you be would be providing an index of topics discussed/covered by recordings & slides for members?
- Heat Map Updates during vacations. Is there a way to continue to receive Heat Map Updates while you are on vacation?
- Vacation Scheduling: How much notice would you be able to provide?

THAT'S IT FOR TODAY!

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RIVERSIDE ANALYTICS INC
SLIDE DECK

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