

- What is hot and what is not.
 TPA-RRG captures the inevitable movement of stocks into and out of favor.
- Clients can quickly see which stocks are showing the <u>best and worst relative</u>

 <u>strength</u> characteristics. TPA found that using RRG's was very beneficial, but took some time to parse through, so we simplified the process by creating a score for each stock and sector.
- The best of both worlds RRG & TPA
 Now, clients can use <u>TPA-RRG scores and rankings</u> to identify stocks that are not only moving into favor, but are also technically positive.
- TPA-RRG analyzes every stock in the Russell 1000 and 25 major sector & subsector ETFs

Find more in-depth explanations and links to instructional videos below.

THE REPORT

TPA-RRG Weekly Commentary

Top 20-Bottom 20

The charts below show the technical difference between the TOP 20 and the Bottom 20 in the TPA-RRG report. ZBRA is the top stock in the Russell 1000 and NOC is the 3rd worst stock in the Russell 1000. ZBRA has broken out to the upside after a long decline and recent stabilization and NOC has broken down after a long rally. These chart patterns are prevalent in the TOP 20 and the Bottom 20.





Sectors

The sector rankings in the TPA-RRG are heavily skewed to TECH stocks. The top sectors are Cloud, Software, Internet, TECH, and Communications. This has been developing throughout 2023.

TPA-	RRG U.S. SECTOR & SUBSECTOR ETFS		2/17/23			
						TPA-RRG
Code	<u>Name</u>	Last	RRG Ratio	RRG Momentum	Quadrant	<u>SCORE</u>
CLOU	Cloud Computing	18.04	100.66	102.76	Leading	4.55
IGV	Software	284.75	98.64	102.06	Improving	3.52
FDN	Internet	141.75	98.76	102.52	Improving	3.52
XLK	TECH	139.82	98.97	100.84	Improving	3.43
XLC	Communications	55.35	99.68	103.87	Improving	3.41
XLY	Consumer Discretionary	150.57	94.44	100.73	Improving	3.23
HACK	Cyber Security	47.14	97.50	100.35	Improving	3.18

Market

The market once again rewarded risk last week; with Small Cap (Russell 2000) and TECH-heavy Nasdaq outperforming the S&P500.

Relative performance S&P500, NASDAQ, IWM (Russell 2000/Small-cap)



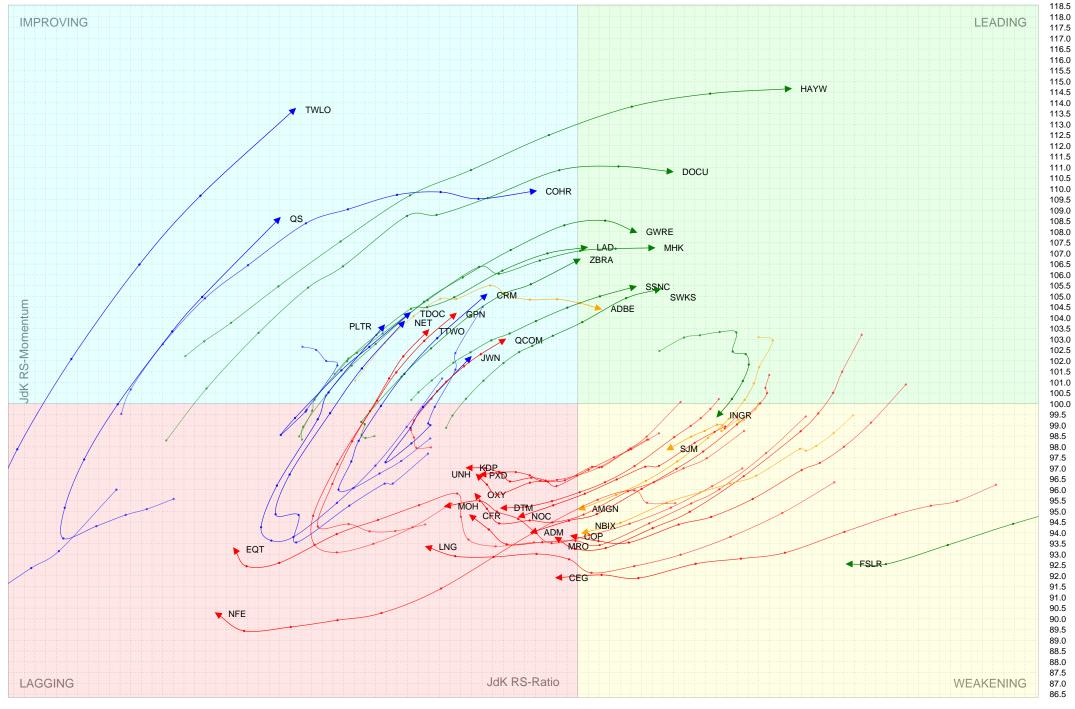
TPA-RRG TOP 20 & BOTTOM 20 (table below)

Buy	Prices as of	2/17/23						STOCK	SECTOR	TOTAL
Sell				TOP 20				TPA-RRG	TPA-RRG	TPA-RRG
<u>Code</u>	<u>Name</u>	<u>Last</u>	RRG Ratio	RRG Momentum	Quadrant	Mkt Cap (\$MIL)	TPA Sector	<u>SCORE</u>	<u>SCORE</u>	<u>SCORE</u>
ZBRA	Zebra Technologies Corp.	322.58	100.03	106.69	Leading	\$16,655	Technology	4.88	1.72	6.59
SSNC	SS&C Technologies Holdings Inc	61.74	102.65	105.44	Leading	\$15,553	Tech-Software	4.57	1.76	6.33
МНК	Mohawk Industries Inc.	113.93	103.52	107.25	Leading	\$7,238	Consumer Discretionary	4.48	1.62	6.10
HAYW	Hayward Holdings Inc	13.11	109.93	114.65	Leading	\$2,770	Consumer Discretionary	4.43	1.62	6.05
LAD	Lithia Motors Inc.	269.62	100.36	107.27	Leading	\$7,371	Retail	4.57	1.42	5.99
SWKS	Skyworks Solutions Inc.	115.84	103.80	105.32	Leading	\$18,415	Semiconductor	4.43	1.06	5.49
CRM	Salesforce Inc	165.17	95.66	105.04	Improving	\$165,170	Technology	3.73	1.72	5.45
PLTR	Palantir Technologies Inc - Ordinary	9.20	90.86	103.60	Improving	\$19,137	Tech-Software	3.57	1.76	5.33
TWLO	Twilio Inc - Ordinary Shares Class A	70.67	86.67	113.68	Improving	\$13,027	Technology	3.51	1.72	5.23
COHR	Coherent Corp	44.99	97.96	109.89	Improving	\$6,252	Technology	3.43	1.72	5.15
TDOC	Teladoc Health Inc	30.07	92.06	104.18	Improving	\$4,869	Internet	3.38	1.76	5.14
JWN	Nordstrom Inc.	21.79	94.93	102.13	Improving	\$3,488	Retail	3.72	1.42	5.13
DOCU	DocuSign Inc	64.47	104.38	110.80	Leading	\$12,963	Tech-Software	3.37	1.76	5.13
осом	Qualcomm Inc.	127.72	96.52	102.96	Improving	\$142,408	Technology	3.41	1.72	5.12
GPN	Global Payments Inc.	116.31	94.22	104.15	Improving	\$31,450	Technology	3.41	1.72	5.12
QS	QuantumScape Corp - Ordinary Sha	10.31	85.95	108.60	Improving	\$4,495	Consumer Discretionary	3.47	1.62	5.09
TTWO	Take-Two Interactive Software Inc.	112.51	92.94	103.38	Improving	\$18,978	Tech-Software	3.32	1.76	5.08
ADBE	Adobe Inc	356.85	101.01	104.43	Leading	\$163,366	Technology	3.35	1.72	5.07
GWRE	Guidewire Software Inc	72.94	102.67	108.00	Leading	\$5,972	Tech-Software	3.30	1.76	5.06
NET	CloudFlare Inc	64.45	91.80	103.77	Improving	\$21,153	Cyber Security	3.47	1.59	5.05

Buy	Prices as of	2/17/23						STOCK	SECTOR	TOTAL
Sell			В	OTTOM :	20			TPA-RRG	TPA-RRG	TPA-RRG
KDP	Keurig Dr Pepper Inc	35.67	94.85	97.02	Lagging	\$50,518	Consumer Staples	-2.09	-1.33	-3.42
CEG	Constellation Energy Corporation	84.55	99.06	91.91	Lagging	\$27,659		-3.44		-3.44
INGR	Ingredion Inc	99.07	106.60	99.46	Weakening	\$6,495	Consumer Staples	-2.13	-1.33	-3.46
SJM	J.M. Smucker Co.	149.94	104.27	97.90	Weakening	\$15,990	Consumer Staples	-2.20	-1.33	-3.53
FSLR	First Solar Inc	164.28	112.71	92.55	Weakening	\$17,513	Solar & Environ	-2.06	-1.51	-3.58
NBIX	Neurocrine Biosciences Inc.	103.54	100.28	94.00	Weakening	\$10,001	Health Care	-2.34	-1.24	-3.58
EQT	EQT Corp	31.25	83.88	93.22	Lagging	\$11,470	Oil & Gas E&P	-2.06	-1.60	-3.66
AMGN	AMGEN Inc.	240.53	100.14	95.10	Weakening	\$128,437	Health Care	-2.43	-1.24	-3.67
NFE	New Fortress Energy LLC	37.57	83.05	90.23	Lagging	\$7,844	Oil & Gas E&P	-2.08	-1.60	-3.68
PXD	Pioneer Natural Resources Co.	208.96	95.30	96.66	Lagging	\$49,649	Energy	-3.18	-1.04	-4.22
CFR	Cullen Frost Bankers Inc.	131.30	94.99	94.78	Lagging	\$8,451	Financial	-3.25	-1.00	-4.25
ОХҮ	Occidental Petroleum Corp.	60.73	95.22	95.76	Lagging	\$55,198	Energy	-3.22	-1.04	-4.26
LNG	Cheniere Energy Inc.	144.87	92.94	93.34	Lagging	\$36,023	Energy	-3.23	-1.04	-4.27
MRO	Marathon Oil Corporation	25.86	99.01	93.75	Lagging	\$16,423	Energy	-3.24	-1.04	-4.28
DTM	DT Midstream Inc	51.78	96.47	95.15	Lagging	\$5,010	Energy	-3.27	-1.04	-4.32
СОР	Conoco Phillips	104.12	99.76	93.84	Lagging	\$126,899	Energy	-3.33	-1.04	-4.37
UNH	UnitedHealth Group Inc	499.08	95.50	96.71	Lagging	\$466,315	Health Care	-3.17	-1.24	-4.41
NOC	Northrop Grumman Corp.	470.63	97.30	94.76	Lagging	\$72,031	Aerospace & Defense	-3.41	-1.02	-4.42
МОН	Molina Healthcare Inc	296.07	93.83	95.24	Lagging	\$17,291	Health Care	-3.20	-1.24	-4.44
ADM	Archer Daniels Midland Co.	81.59	97.88	94.03	Lagging	\$44,712	Consumer Staples	-3.45	-1.33	-4.78

Relative Rotation Graph for Top 20 and Bottom 20 is provided below.

Also, use the following link that shows RRG over time - how stocks move in and out of favor over time: https://vimeo.com/manage/videos/800287957/privacy



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TPA Relative Rotation Fund

https://realinvestmentadvice.com/tpa-rrg-report-relative-rotation-graphs-scores-rankings/

(See the explanation and performance comparisons to the S&P500 and a 60/40 Index below.)

Most recent performance:

Since inception





TPA Relative Rotation Fund explanation:

The Relative Rotation Fund is created using the weekly Top and Bottom ranked stocks in the TPA-RRG report. The fund holds 60 stocks; 30 long and 30 short. The portfolio is created by buying the Top 10 and selling short the Bottom 10 ranked stocks each week. Screens are used to ensure that overbought and oversold stocks are not included. Long positions have twice the weight of short positions. This is a nod to history, which has shown that stocks approximately go up twice as much as down on a daily basis. Since new stocks are added each week, each position is held for 3 weeks. Rebalancing occurs as close as possible to Friday's closing prices. Trades and returns are hypothetical.

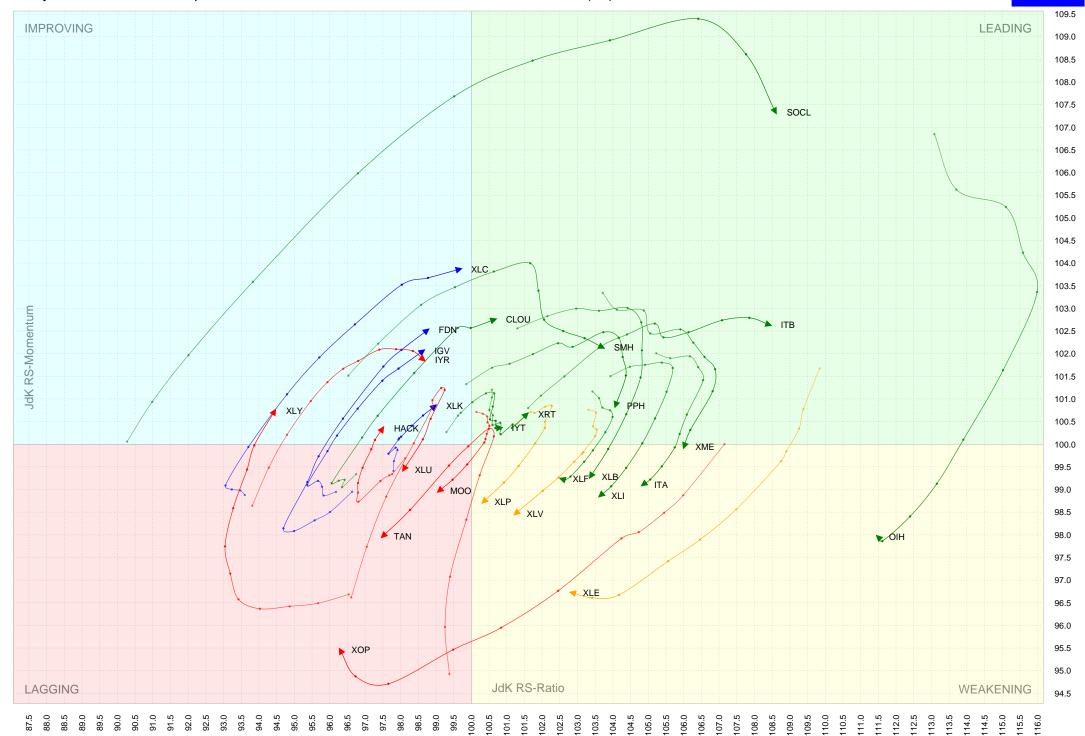
TPA-RRG 27 SECTOR ETFS

TPA-R	RRG U.S. SECTOR & SUBSECTOR ETFS		2/17/23			
						TPA-RRG
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XLY	Consumer Discretionary	150.57	94.44	100.73	Improving	3.23
HACK	Cyber Security	47.14	97.50	100.35	Improving	3.18
IYT	Transportation	234.86	100.82	100.36	Leading	3.11
XRT	Retail	71.23	101.57	100.67	Leading	2.83
SOCL	Social Media	35.51	108.59	107.33	Leading	2.15
PPH	Pharma	78.17	104.07	100.85	Leading	2.15
SMH	SEMI	242.77	103.71	102.14	Leading	2.13
IYR	Real Estate	90.66	98.65	101.86	Improving	2.06
ITB	Home Construction	68.65	108.43	102.64	Leading	2.04
XLU	Utilities	68.48	98.09	99.44	Lagging	-1.58
OIH	Oil Services	312.48	111.48	97.96	Weakening	-1.99
XLF	Financials	36.39	102.55	99.24	Weakening	-2.00
ITA	Aerospace & Defense	116.82	104.85	99.10	Weakening	-2.03
XME	Metals & Mining	56.18	106.01	99.95	Weakening	-2.07
XLI	Industrial	103.03	103.64	98.86	Weakening	-2.08
XLE	Energy	84.49	102.83	96.72	Weakening	-2.09
XLB	Materials	81.30	103.36	99.28	Weakening	-2.21
XLV	Health Care	131.99	101.25	98.47	Weakening	-2.48
XLP	Staples	73.68	100.34	98.72	Weakening	-2.65
TAN	Solar	75.70	97.49	97.97	Lagging	-3.03
ХОР	Oil&Gas E&P	130.62	96.29	95.46	Lagging	-3.20
моо	Agribusiness	89.85	99.08	98.97	Lagging	-3.23

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Rank	7/25/22 Code	7/31/22 Code	8/8/22 Code	8/15/22 Code	8/22/22 Code	8/29/22 Code	9/5/22 Code	9/12/22 Code	9/19/22 Code	9/26/22 Code	10/3/22 Code	10/10/22 Code	10/17/22 Code	10/24/22 Code	10/28/22 Code	11/4/22 Code	11/11/22 Code	11/18/22 Code	11/25/22 Code	12/2/22 Code
1	HACK	XLK	XLY	XLY	XLK	ITB	IYT	XLY	XLY	XLF	XME	OIH	XLF	OIH	OIH	OIH	XME	PPH	XME	XRT
2	XLK	XLY	XLK	XLK	IYT	XLY	ITB	SMH	XLF	IYT	OIH	XME	OIH	MOO	HACK	PPH	OIH	XLB	XLB	XLB
3	IGV	IGV	HACK	XRT	XLY	XLK	XLF	IYT	IYT	XLY	MOO	XLF	MOO	XME	MOO	XLF	XRT	XRT	MOO	XME
4	XLY	HACK	FDN	FDN	FDN	IYT	XLK	XRT	XRT	XRT	XLF	HACK	XME	XLF	XME	XLB	XLB	XME	XRT	SMH
5	CLOU	FDN	CLOU	CLOU	XRT	FDN	XLY	XLF	XLK	CLOU	XLY	XRT	XLB	HACK	XLF	XLI	PPH	OIH	PPH	ITA
6	FDN	XRT	XRT	HACK	TAN	TAN	TAN	XLK	SMH	XLI	CLOU	MOO	XLC	XLB	CLOU	ITA	HACK	XLV	ITA	XLI
7	SMH	ITB	IGV	ITB	IGV	IGV	FDN	ITB	XLI	ITB	XLI	CLOU	XOP	XLC	XLB	XLV	CLOU	ITA	XLI	ITB
8	ITB	TAN	TAN	TAN	ITB	XRT	SMH	FDN	ITB	XLK	TAN	XLB	XLE	XLE	XLE	XME	ITA	XLI	XLP	PPH
9	TAN	CLOU	ITB	IGV	CLOU	CLOU	XRT	XLI	FDN	FDN	ITB	ITB	ITA	XOP	ITA	XOP	XLV	XLP	OIH	XLP
10	XLV	SMH	SMH	XLC	HACK	SMH	CLOU	IGV	CLOU	SMH	XLK	XOP	XLY	ITA	XLV	XLE	XLI	MOO	XOP	OIH
11	XLC	XLC	SOCL	SMH	XLC	XLC	IGV	CLOU	IGV	IGV	XOP	XLE	XRT	XLY	XOP	MOO	XLF	XLF	XLF	XLV
12 13	XRT SOCL	SOCL	XLC	SOCL	SMH	HACK XLF	HACK XLE	SOCL	OIH	MOO OIH	FDN	XLY FDN	ITB XLI	XLV	XLI FDN	XRT CLOU	MOO XLE	XLE	XLE	XLF XLE
14	IYT	XLF	IYT XLI	XLF	XLF	SOCL	XLU	XOP	MOO	XME	XRT	IYT	HACK	FDN	XLC	HACK	XOP	HACK	ITB	XOP
15	ITA	ITA	XLF	XLI	XLI	XLI	XOP	HACK	XLB	XLB	XLE	XLI	FDN	CLOU	XRT	FDN	FDN	CLOU	HACK	MOO
16	XLF	XLP	ITA	XLP	XLP	XLU	XLI	XLC	XLU	SOCL	IGV	XLC	IYT	XRT	PPH	XLP	SMH	FDN	IYT	HACK
17	PPH	XLU	XLP	ITA	XLU	XOP	XLC	XLE	XLE	HACK	SMH	SOCL	CLOU	PPH	IYT	IYT	ITB	SMH	SMH	IYT
18	XLU	XLV	XLU	XLV	IYR	XLE	SOCL	TAN	XOP	TAN	XLB	XLV	XLP	XLP	XLP	XLC	XLC	ITB	FDN	SOCL
19	XOP	XOP	XLV	XLU	XLV	XLP	ITA	XLU	HACK	XLU	HACK	ITA	XLV	IYT	SOCL	IGV	SOCL	XLC	CLOU	FDN
20	XLE	PPH	PPH	PPH	ITA	ITA	XLP	XLB	XLC	ITA	XLU	SMH	IGV	IGV	SMH	SOCL	IYT	IGV	XLC	CLOU
21	XLP	XLE	XOP	XLE	PPH	XLV	OIH	XLP	SOCL	XOP	ITA	IGV	SMH	SMH	IYR	SMH	IYR	SOCL	SOCL	XLC
22	XME	OIH	XLE	XOP	XLE	PPH	XME	ITA	TAN	XLE	XLV	IYR	SOCL	SOCL	IGV	IYR	IGV	IYT	IGV	IYR
23	MOO	XLI	XME	IYR	XOP	OIH	IYR	XLV	IYR	XLC	SOCL	XLP	IYR	IYR	ITB	TAN	XLP	IYR	IYR	IGV
24	OIH	MOO	IYR	XME	XME	XLB	XLV	IYR	XLP	IYR	XLC	XLU	TAN	TAN	TAN	XLU	TAN	XLK	XLK	XLK
25	XLB	XLB	MOO	MOO	XLB	XME	PPH	MOO	ITA	XLP	IYR	TAN	XLU	XLU	XLU	ITB	XLU	TAN	TAN	TAN
26	XLI	IYR	XLB	XLB	MOO	M00	XLB	OIH	XLV	XLV	XLP	PPH	PPH	ITB	XLY	XLY	XLY	XLU	XLU	XLY
27	IYR	XME	OIH	OIH	OIH	IYR	MOO	PPH	PPH	PPH	PPH	XLK	XLK	XLK	XLK	XLK	XLK	XLY	XLY	XLU
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	12/9/22	12/16/22	12/23/22	12/30/22	1/6/23	1/13/23	1/20/23					Code	Code	<u>Code</u>	Code	<u>Code</u>	<u>Code</u>	<u>Code</u>	<u>Code</u>	<u>Code</u>
<u>Rank</u>	12/9/22 <u>Code</u>	12/16/22 Code	12/23/22 Code	12/30/22 Code	1/6/23 <u>Code</u>	1/13/23 Code	1/20/23 <u>Code</u>	Code	Code	Code	Code	<u>Code</u>	Code	<u>Code</u>	Code	<u>Code</u>	<u>Code</u>	<u>Code</u>	Code	Code
Rank 1	12/9/22 Code MOO	12/16/22 Code PPH	12/23/22 <u>Code</u> PPH	12/30/22 <u>Code</u> IYT	1/6/23 Code IYT	1/13/23 Code SMH	1/20/23 Code SOCL	Code SOCL	Code SOCL	Code FDN	Code CLOU	Code	Code	Code	Code	<u>Code</u>	Code	Code	Code	Code
Rank 1 2 3 4	12/9/22 Code MOO XRT	12/16/22 <u>Code</u> PPH XLB	12/23/22 <u>Code</u> PPH XLB	12/30/22 <u>Code</u> IYT PPH	1/6/23 Code IYT SMH	1/13/23 Code SMH IYT	1/20/23 Code SOCL XLU	Code SOCL CLOU	Code SOCL CLOU	Code FDN XLK	Code CLOU IGV	Code	Code	Code	Code	<u>Code</u>	Code	Code	Code	Code
Rank 1 2 3	12/9/22 Code MOO XRT XLB	12/16/22 <u>Code</u> PPH XLB IYT	12/23/22 Code PPH XLB SMH	12/30/22 Code IYT PPH XLU	1/6/23 Code IYT SMH XLU	1/13/23 Code SMH IYT SOCL	1/20/23 Code SOCL XLU XLC	Code SOCL CLOU XLC	Code SOCL CLOU FDN	Code FDN XLK XLC	Code CLOU IGV FDN	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5	12/9/22 Code MOO XRT XLB IYT SMH PPH	12/16/22 Code PPH XLB IYT SMH MOO SOCL	12/23/22 Code PPH XLB SMH MOO SOCL IYR	12/30/22 <u>Code</u> IYT PPH XLU SMH SOCL IYR	1/6/23 Code IYT SMH XLU SOCL IYR PPH	1/13/23 Code SMH IYT SOCL CLOU XLC XLK	1/20/23 Code SOCL XLU XLC CLOU SMH IYT	Code SOCL CLOU XLC FDN IGV IYR	Code SOCL CLOU FDN XLC IGV XLK	Code FDN XLK XLC IGV SOCL HACK	Code CLOU IGV FDN XLK XLC XLY	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR	Code SOCL CLOU XLC FDN IGV IYR	Code SOCL CLOU FDN XLC IGV XLK IYR	Code FDN XLK XLC IGV SOCL HACK ITB	Code CLOU IGV FDN XLK XLC XLY HACK	Code	Code	Code	Code	Code	Code	Code	Code	Code
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Rank 1 2 3 4 5 6 7 8 9	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT XRT ITA	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT XRT ITA XLI	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT SOCL	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9 10	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XME	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT XRT ITA XLI ITB	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB MOO XLP	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK MOO	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH XME	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT SOCL PPH	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9 10 11	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XME OIH	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT XRT ITA XLI ITB XME	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB XLB	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT MOO	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB MOO XLP ITA	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO XRT	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK MOO XLP	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH XLB	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH XME	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT SOCL PPH SMH	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9 10 11 12 13	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME XOP	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XME OIH XLE	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT XRT ITA XLI ITA XLI XME XLV	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB XLB	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT MOO OIH	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB MOO XLP ITA OIH	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO XRT XLB	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK MOO XLP XRT	Code SOCL CLOU FDN XLC IGV XLK IYR IYR XRT IYT SMH XLB PPH	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH XME IYR PPH	Code CLOU IGV FDN XLK XLC XLY HACK IYT SOCL PPH SMH IYR	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9 10 11 12 13 14	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME XOP OIH	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XME OIH XLE XLF	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT ITA XLI ITB XME XLV OIH	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB XLB XME OIH	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT MOO OIH	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR IYR ITB MOO XLP ITA OIIH PPH	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO XRT XLB OIH	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK MOOO XLP XRT XLB	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH XLB PPH XME	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH XME IYR PPH XRT	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT SOCL PPH IYR ITB	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME XOP OIH XLF	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XME OIH XLE ITA	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT XRT ITA XLI ITB XME XLU OIH XLE	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB XLB XMB XMB ITA	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB ITB XLP XRT MOO OIH ITA	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB MOO XLP ITA OIH XLB	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO XRT XLB OIH XLI	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK MOO XLP XRI XLB	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH XLB PPH XME XLU	COde FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH XME IYR PPH XRT XLU	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT SOCL PPH SMH IYR ITB XLU	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME XOP OIH XLF XLV	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP SME OIH XLE XLI ITA XLV	12/23/22 Code PPH XLB SMH MOO SOCL IYR ITT XRT ITA XLI ITB XME XLV OIH XLE XLF	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB XLB XME OIH ITA	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT MOO OIH ITA XLV XLF	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB MOO XLP ITA OIH PPH XLB XLI	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO XRT XLB OIH XLI ITA	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK MOO XLP XRT XLB XLI PPH	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH XLB PPH XME XLU HACK	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH XME IYR PPH XRT XLU XLY	Code CLOU IGV FDN XLK XLC XLY HACK IYT SOCL PPH SMH IYR ITB XLU OIH	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME XOP OIH XLI XLE XLE	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XME OIH XLE XLF ITA XLV IYR	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT XRT ITA XLI ITB XML XLI UB XML XLI XLI XLI XLI XLI XLI XLI XLI XLI XL	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB XLB XME OIH ITA XLF XLV	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT MOO OIH ITA XLV XLF XLI	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB MOO XLP ITA OIH PPH XLB XLI XLF	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO XRT XLB OIH XLI ITA	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK MOO XLP XRT XLB XLI	COde SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH XLB PPH XME XLU HACK XLY	COde FDN XLK XLC IGV SOCL HACK ITB ITB ITT CLOU SMH XME IYR PPH XRT XLU XLY XLF	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT SOCL PPH IYR ITB XLU OIH XLF	Code	Code	Code	Code	Code	Code	Code	Code	Code
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Rank 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME XOP OIH XLF XLV XLE IYR	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XMP XME OIH XLE XLF XLV IYR XLV IYR XLK HACK	12/23/22 Code PPH XLB SMIH MOO SOCL IYR IYT XRT ITA XLI ITB XME XLV OIH XLE XLF XLP XLU XLK	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB XLB XME OIH ITA XLF	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT MOO OIH ITA XLV XLF XLI XLC TAN	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR ITB MOO XLP ITA OIH PPH XLB XLI XLI XLE XLI XLE XLI XLI XLI XLI XLI XLI XME	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO XRT XLB OIH XLI ITA ITB XLP XME	Code SOCL CLOU XLC FDN IGV IYT SMH ITB XLK MOO XLP XRT XLB XLI PPH XME XLU TAN	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH XLB PPH XME XLU HACK XLV OIH	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH XME IYR PPH XRT XLU XLY XLF OIH ITA	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT SOCL PPH SMH IYR ITB XLU OIH XLF XME	Code	Code	Code	Code	Code	Code	Code	Code	Code
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Rank 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME XOP OIH XLF XLV XLE IYR HACK CLOU FDN IGV XLC	12/16/22 Code PPH PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XME OIH XLE XLF ITA XLV IYR XLV IYR XLK HACK FDN IGV XLC XLU IGV XLC XLU IGV XLC XLU XLC	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYT XRT ITA XLI ITB XME XLV OIH XLE XLF XLP XLU XLK CLOU TAN FON XLC HACK	12/30/22 Code IYT PPH XLU SMH SOCL IYR MOO XLI XLP ITB XLB XME OIH ITA XLF XLF XLV XLF XLV	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT MOO OIH ITA XLV XLF XLI XLC TAN HACK XLK IGV CLOU XLE	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB MOO XLP ITA OIH PPH XLB XLI XLF XLI XLF XLI XLF XLI XME FON IGV TAN HACK XLY	1/20/23 Code SOCL SULU XLU XLC CLOU SMH IYT IFR IGV PPH XLK MOO XRT XLB OIH XLI ITA ITB XLP XME TAN HACK XLV XLY	Code SOCL CLOU XLC FDN IGV IYR IYT SMH ITB XLK MOO XLP XRT XLB XLI YAT XLB XLI YAT XLB XLI YPH XME XLU TAN XLI HACK ITA OIH	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH XLB PPH XME XLU HACK XLY OIH ITA XLI XLF XLV XLE	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH IYR PPH XRT XLU XLY OIH ITA XLE XLI XLB XLV XLP	Code CLOU IGV FDN XLK XLC XLY HACK IYT XRT SOCL PPH SMH IYR ITB XLU OIH ITA XME XLI XLE XLB XLV	Code	Code	Code	Code	Code	Code	Code	Code	Code
Rank 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	12/9/22 Code MOO XRT XLB IYT SMH PPH SOCL ITA XLI ITB XLP XME XOP OIH XLF XLV XLE XLV XLE XLV XLE TYR HACK CLOU FDN IGV	12/16/22 Code PPH XLB IYT SMH MOO SOCL XRT XLI ITB XLP XME OIH XLE XLE XLE XLE XLE XLE XLE ITA LV IYR XLK HACK FDN CLOU IGV XLC	12/23/22 Code PPH XLB SMH MOO SOCL IYR IYR IYT XRT ITA XLI ITB XLV OH VLE XLF XLP XLP XLU XLR CLOU TAN FDN XLC	12/30/22 Code IYT PPH XLU SMH SOCL IYR XRT MOO XLI XLP ITB XLB XME OITA ITA XLF XLV TAN HACK FON CLOU XLC	1/6/23 Code IYT SMH XLU SOCL IYR PPH XLB XME ITB XLP XRT MOO OIH ITA XLV XLF XLI XLC TAN HACK XLK IGV CLOU	1/13/23 Code SMH IYT SOCL CLOU XLC XLK IYR XRT ITB MOO XLP ITA OIH PH XLB XLI XLF XLU XME FEN IGV TAN HACK	1/20/23 Code SOCL XLU XLC CLOU SMH IYT IYR IGV PPH XLK MOO XRT XLB OIH XLI ITB XLP XMP XMP XMP XMP XMP XMP XMP XMP XMP XM	Code SOCL CLOU XLC FDN IGV IYR IYR ITB XLK MOO XLP XRI XLI PPH XME XLU TAN XLV HACK ITA	Code SOCL CLOU FDN XLC IGV XLK IYR ITB XRT IYT SMH XLB PPH XLU HACK XLU HACK XLY OIH ITA XLI XLY XLY XLE	Code FDN XLK XLC IGV SOCL HACK ITB IYT CLOU SMH IYR PPH XRT XLU XLY OIH ITA XLE XLI XLE XLI XLE XLI XLV	Code CLOU IGV FDN XLK XLY HACK IYT XRT SOCL PPH SMH IYR ITB XLU OIH XLF ITA XME XLU XLE XLB XLU XLE XLB	Code	Code	Code	Code	Code	Code	Code	Code	Code

Relative Rotation Graph for 27 major sector & subsector ETFs provided below.

Also, use the following link that shows RRG over time - how sectors & subsectors move in and out of favor over time: https://vimeo.com/manage/videos/800282964/privacy



Click **HERE** for the entire Russell 1000 TPA-RRG Score and Rank Report.

What are RRG's?

Julius de Kempenaer developed Relative Rotational Graphs (RRG) in 2004 and thousands of investors use RRG's. "Relative Rotation Graphs, commonly referred to as RRGs, are a unique visualization tool for relative strength analysis. Chartists can use RRGs to analyze the relative strength trends of several securities against a common benchmark, and against each other. The real power of this tool is its ability to plot relative performance on one graph and show true rotation. We have all heard of sector and asset class rotation, but it is hard to visualize this "rotation" sequence on linear charts. RRGs use four quadrants to define the four phases of a relative trend. True rotations can be seen as securities move from one quadrant to the other over time." - Stockcharts

What are TPA-RRG scores?

TPA recognizes the power of RRG's to highlight stocks and sectors moving in and out of favor, but also notes the shortcoming of having to examine many RRG's to decide where to invest. TPA has developed TPA-RRG Scores to be able to rank stocks and sectors in terms of relative strength. TPA-RRG scores are constructed to focus on stocks and sectors as they move from negative to positive and positive to negative. Scoring also allows ranking so investors can focus on the best and worst areas of the market.

How are TPA-RRG scores created?

TPA uses not only the **RS Ratio** and **RS Momentum** of each stock to make its forecast, TPA also uses certain characteristics on each stock's RS to calcultate its score. The following measures are used to calculate the TPA-RRG score:

- 1. **RRG ANGLE** Represents the current position of the security on the RRG chart based on the points of the compass:
 - 0-90 Degrees = Leading Quadrant
 - 90-180 Degrees = Weakening Quadrant
 - ➤ 180-270 Degrees = Lagging Quadrant
 - 270-360 Degrees = Improving Quadrant
- 2. RRG DISTANCE. This number represents how far away the security is from the centre of the RRG chart (ie the benchmark). One of the observations is that higher alpha comes from those components that make bigger arcs around the benchmark. We will ignore those closest to the centre.
- 3. **RRG ANGLE ROC** The Angle Rate of Change measures the distance of the angle of the current data point of a security, to the previous data point. The greater the value, the larger the distance between the two data points.
- 4. **RRG HEADING** This is the direction that the arrow is pointing to (where the RS is headed), again based on the points of the compass, and is one of the most useful measures:

- > 0 degrees = North (up) positive
- 45 degrees = Northeast less positive
- > 90 degrees = East (right) positive
- ➤ 180 degrees = South (down) negative
- > 270 degrees = West (left) negative
- 5. **RRG VELOCITY** This is the vector difference or distance between the last two data points on the line; with the longest having the highest relative momentum:

How investors can use TPA-RRG

- 1. The Sector analysis lets clients focus on the best and avoid the worst areas of the market
- 2. TPA-RRG ranks the entire Russell 1000 and provides the Top 20 and Bottom 20 stocks so investors can see the best and worst stocks to make sure they are <u>taking advantage of</u> opportunities and not getting into trouble.
- 3. We also look at the top and bottom stocks through a standard technical analysis to <u>avoid stocks</u> that are overbought, oversold or at other technical trouble spots.
- 4. Finally, we provide TPA-RRG Scores and rankings for the stocks in the most used 25 sector and subsector ETFs. This analysis is especially helpful for investors who are focused on <u>specific areas</u> of the market.

You can learn more about RRG's with these links:

Relative Rotation Graphs (RRG) – explanation video

RRG – written explanation

Included in the Weekly TPA-RRG Report

- 1. The weekly TPA RRG Report will provide RRG Scores, Rankings, RRG's and a RRG Video for:
 - 25 Major Sector and Subsector ETFs
 - Top 20 & Bottom 20 stocks in the Russell 1000 based on TPA's RRG and Trend-Range analysis
- 2. The report will also include:
 - TPA RRG scores and rankings for the focus stocks in the 11 major sectors ETFs and 14 major subsectors ETFs. Provided in a separate PDF
- 3. Finally, TPA will provide a weekly commentary on TPA-RRG Scores and Rankings

Turning Point Analytics Disclaimer

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which to base an investment decision. Investors should not rely on technical analysis alone while making an investment decision. Before making an investment decision, investors should consider reviewing all publicly available information regarding the security in question, including, but not limited to, the underlying fundamentals of the security and other information which is available in filings with the Securities and Exchange Commission. The information and analysis contained in reports provided by TPA are copyrighted and may not be duplicated or redistributed for any reason without the express written consent of TPA. The information in this communication is for institutional or sophisticated investors only. By accepting this communication, the recipient agrees not to forward, and/or copy the information to any other person, except as permitted, or required by law. TPA does not quarantee accuracy or completeness. TPA is a publisher of technical research and has no investment banking or advisory relationship with any company mentioned in any report. Reports are neither a solicitation to buy nor an offer to sell securities. Past performance is in no way indicative of future results. Opinions expressed are subject to change without notice. TPA will provide, upon request, the details of any past recommendations. TPA's analysis and recommendations should not be used as the sole reason to buy or sell any security. TPA may compensate brokers and intermediaries for sales and marketing services. You understand and acknowledge that there is a very high degree of risk involved in trading securities and/or currencies. The Company, the authors, the publisher, and all affiliates of Company assume no responsibility or liability for your trading and investment results. It should not be assumed that the methods, techniques, or indicators presented will be profitable or that they will not result in losses. Statements, data, and analysis made by TPA or in its publications, are made as of the date stated and are subject to change without notice. TPA and/or its officers and employees may, from time to time acquire, hold, or sell a position in the securities mentioned herein. Upon request, TPA will furnish specific information in this regard. TPA will not be held liable for losses caused by conditions and/or events that are beyond TPA's control, including, but not limited to, war, strikes, natural disasters, new government restrictions, market fluctuations, and communications disruptions.