

TPA-RRG Report

- What is hot and what is not.
 TPA-RRG captures the inevitable movement of stocks into and out of favor.
 - Scores and ranking
 Clients can quickly see which stocks are showing the <u>best and worst relative</u>
 strength characteristics. TPA found that using RRG's was very beneficial, but cumbersome, 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 TOP 20 & BOTTOM 20 (table below)

Buy	Prices as of	11/15/24						STOCK	SECTOR	TOTAL
Sell				TOP 20				TPA-RRG	TPA-RRG	TPA-RRG
Code	<u>Name</u>	Last	RRG Ratio	RRG Momentum	Quadrant	Mkt Cap (\$MIL)	TPA Sector	SCORE	SCORE	SCORE
XPO	XPO Inc	145.79	101.59	104.51	Leading	\$16,970	Transportation	5.67	2.01	7.68
wcc	Wesco International Inc.	204.25	100.18	104.51	Leading	\$10,009	Industrial	5.23	2.01	7.23
ODFL	Old Dominion Freight Line Inc.	215.57	100.75	102.84	Leading	\$46,024	Transportation	5.20	2.01	7.21
ETN	Eaton Corporation PLC	358.99	100.63	104.65	Leading	\$141,873	Industrial	4.77	2.01	6.77
SLM	SLM Corp.	24.47	99.45	101.43	Improving	\$5,196	Financial	4.74	2.00	6.74
FLS	Flowserve Corp.	59.23	102.23	103.17	Leading	\$7,781	Industrial	4.66	2.01	6.66
ESAB	ESAB Corp	124.11	103.31	105.52	Leading	\$7,502	Industrial	4.61	2.01	6.62
CRM	Salesforce Inc	325.26	103.34	106.47	Leading	\$310,949	Technology	4.60	2.01	6.61
WHR	Whirlpool Corp.	112.30	101.38	103.36	Leading	\$6,192	Consumer Discretionary	4.58	2.01	6.59
NET	CloudFlare Inc	89.77	102.31	104.73	Leading	\$30,825	Cyber Security	4.51	2.01	6.52
CSL	Carlisle Companies Inc.	445.34	100.19	100.43	Leading	\$20,186	Industrial	4.49	2.01	6.49
MAR	Marriott International Inc	278.78	102.20	105.29	Leading	\$77,471	Consumer Discretionary	4.48	2.01	6.49
MRVL	Marvell Technology Inc	87.83	104.41	105.16	Leading	\$76,078	Semiconductor	4.36	2.01	6.37
FAST	Fastenal Co.	81.85	104.02	104.82	Leading	\$46,891	Industrial	4.36	2.01	6.37
VRT	Vertiv Holdings Co - Ordinary Shares	120.87	109.55	110.64	Leading	\$45,367	Industrial	4.34	2.01	6.35
COF	Capital One Financial Corp.	185.14	104.25	104.46	Leading	\$70,633	Financial	4.33	2.00	6.34
САВО	Cable One Inc	397.64	93.40	101.67	Improving	\$2,235	Communication Services	3.27	3.02	6.29
WBD	Warner Bros. Discovery Inc - Ordina	9.22	99.14	103.28	Improving	\$22,618	Consumer Discretionary	4.25	2.01	6.27
PCTY	Paylocity Holding Corp	197.79	105.97	105.39	Leading	\$11,026	Tech-Software	3.22	3.03	6.25
TDOC	Teladoc Health Inc	9.21	89.82	114.92	Improving	\$1,586	Internet	3.21	3.03	6.24

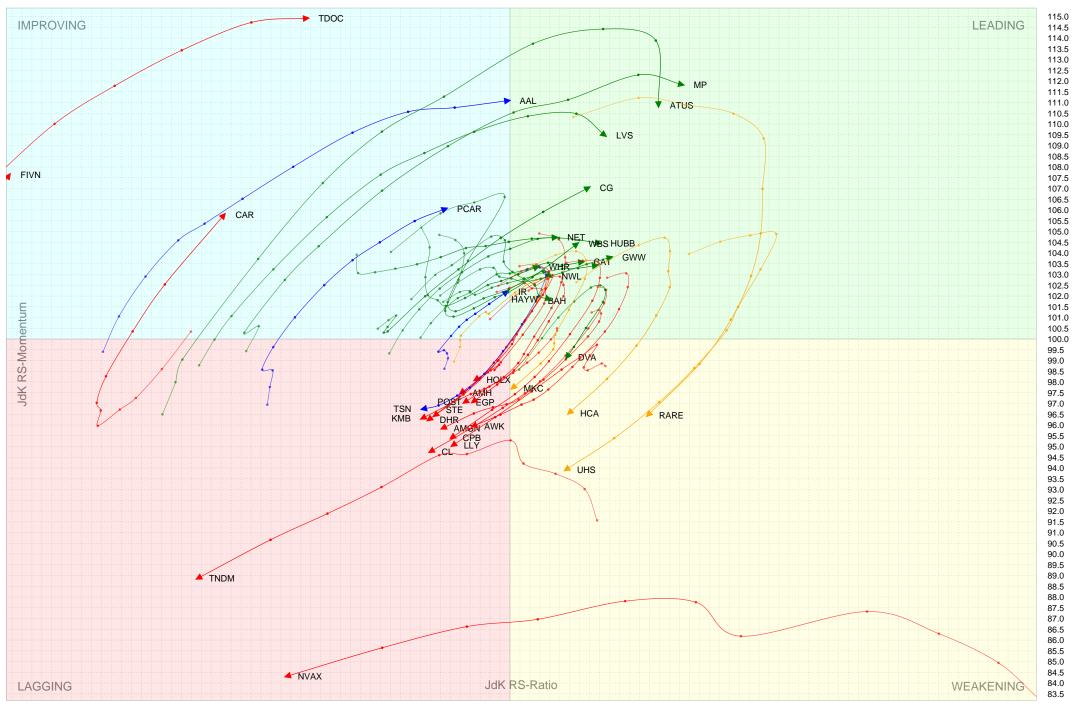
Buy	Prices as o	f 11/15/24						STOCK	SECTOR	TOTAL
Sell			В	MOTTC	20			TPA-RRG	TPA-RRG	TPA-RRG
CERT	Certara Inc	9.96	76.17	98.24	Lagging	\$1,603	Health Care	-2.04	-3.04	-5.08
ним	Humana Inc.	275.67	80.63	90.21	Lagging	\$33,194	Health Care	-2.04	-3.04	-5.08
SUI	Sun Communities Inc.	125.16	100.32	97.37	Weakening	\$15,944	Real Estate	-3.08	-2.03	-5.11
AGNC	AGNC Investment Corp	9.58	97.00	97.66	Lagging	\$8,484	Real Estate	-3.08	-2.03	-5.11
ICUI	ICU Medical Inc.	167.86	119.28	96.60	Weakening	\$4,110	Health Care	-2.10	-3.04	-5.14
REXR	Rexford Industrial Realty Inc	42.01	94.84	95.32	Lagging	\$9,343	Real Estate	-3.12	-2.03	-5.14
WPC	W. P. Carey Inc	55.77	97.47	97.68	Lagging	\$12,205	Real Estate	-3.13	-2.03	-5.15
FSLR	First Solar Inc	190.45	92.14	93.97	Lagging	\$20,389	Solar & Environ	-3.14	-2.02	-5.16
AWK	American Water Works Co. Inc.	134.23	98.14	95.94	Lagging	\$26,161	Utilities	-3.51	-2.01	-5.52
UHS	Universal Health Services Inc.	201.69	102.79	93.92	Weakening	\$13,305	Health Care	-2.48	-3.04	-5.52
HCA	HCA Healthcare Inc	342.96	102.96	96.55	Weakening	\$86,871	Health Care	-2.57	-3.04	-5.61
DTE	DTE Energy Co.	120.09	99.98	97.81	Lagging	\$24,871	Utilities	-3.85	-2.01	-5.86
MDT	Medtronic PLC	87.53	100.87	99.73	Weakening	\$112,256	Health Care	-2.90	-3.04	-5.94
FE	Firstenergy Corp.	41.51	99.70	97.25	Lagging	\$23,923	Utilities	-3.94	-2.01	-5.95
QGEN	Qiagen NV	41.27	95.37	96.55	Lagging	\$9,156	Health Care	-3.06	-3.04	-6.10
STE	STERIS PLC	220.12	96.21	96.44	Lagging	\$21,728	Health Care	-3.14	-3.04	-6.18
кмв	Kimberly-Clark Corp.	134.08	95.59	96.31	Lagging	\$44,714	Consumer Staples	-3.15	-3.03	-6.19
HOLX	Hologic Inc.	78.60	98.25	98.10	Lagging	\$18,257	Health Care	-3.27	-3.04	-6.31
CCI	Crown Castle Inc	103.80	99.97	96.86	Lagging	\$45,111	Real Estate	-4.31	-2.03	-6.34
CL	Colgate-Palmolive Co.	93.56	96.00	94.76	Lagging	\$76,440	Consumer Staples	-3.34	-3.03	-6.38

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://youtu.be/-UoK6knrQYs

TPA-RRG 25 SECTOR ETFS

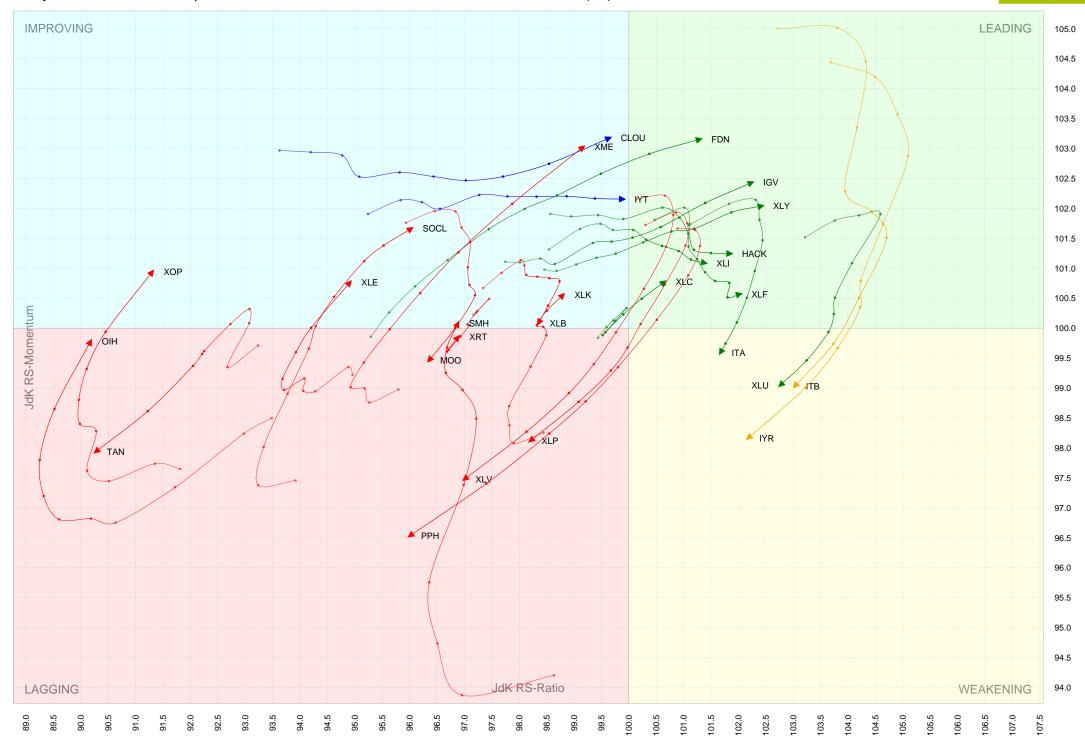
TPA-	RRG U.S. SECTOR & SUBSECTOR ETFS		11/17/24			
						TPA-RRG
Code	<u>Name</u>	Last	RRG Ratio	RRG Momentum	Quadrant	<u>SCORE</u>
FDN	Internet	230.78	101.30	103.16	59.20	3.03
IGV	Software	101.13	102.25	102.43	66.06	3.03
XLC	Communications	95.15	100.65	100.77	60.15	3.02
XME	Metals & Mining	65.05	99.17	103.03	48.55	2.03
XOP	Oil&Gas E&P	140.85	91.31	100.94	59.55	2.03
CLOU	Cloud Computing	22.70	99.65	103.18	63.55	2.02
XLE	Energy	94.73	94.91	100.77	66.22	2.02
SOCL	Social Media	41.24	96.03	101.66	44.02	2.01
XLY	Consumer Discretionary	213.44	102.43	102.04	62.53	2.01
IYT	Transportation	72.98	99.90	102.15	59.66	2.01
SMH	SEMI	239.95	96.88	100.08	40.81	2.01
XLK	TECH	228.71	98.80	100.56	47.34	2.01
HACK	Cyber Security	70.95	101.86	101.24	47.97	2.01
XLB	Materials	91.28	98.35	100.08	34.11	2.01
XLI	Industrial	139.11	101.40	101.09	53.89	2.01
XLF	Financials	49.87	102.03	100.57	68.30	2.00
ITA	Aerospace & Defense	150.09	101.67	99.59	48.42	-2.00
XRT	Retail	78.59	96.89	99.85	55.86	-2.01
XLU	Utilities	79.25	102.76	99.04	50.50	-2.01
MOO	Agribusiness	69.68	96.35	99.46	33.95	-2.01
ITB	Home Construction	117.72	103.03	99.03	42.20	-2.02
TAN	Solar	34.31	90.27	97.94	35.50	-2.02
OIH	Oil Services	292.10	90.18	99.78	52.39	-2.03
IYR	Real Estate	97.80	102.18	98.16	44.52	-2.03
XLP	Staples	79.96	98.20	98.12	40.96	-3.03
XLV	Health Care	141.84	97.00	97.47	25.58	-3.04
PPH	Pharma	86.59	96.00	96.53	21.63	-3.05



	6/21/24	6/28/24	7/5/24	7/12/24	7/19/24	7/26/24	8/2/24	8/9/24	8/16/24	8/23/24	8/30/24	9/6/24	9/13/24	9/20/24	9/27/24	10/4/24	10/11/24	10/18/24	10/25/24	11/1/2
ank	Code	Code	Code	7/12/24 Code	7/19/24 Code	7/26/24 Code	Code	Code	6/16/24 Code	6/23/24 Code	6/30/24 Code	9/6/24 Code	9/13/24 Code	9/20/24 Code	Code	Code	Code	Code	Code	Code
1	XLU	XLK	XLK	XLK	XLK	TAN	IYR	IYR	XLK	XLF	PPH	ITB	ITB	ITB	ITB	XLV	XLV	XLY	XLY	IGV
2	SOCL	SOCL	SOCL	SOCL	IYR	IYR	TAN	HACK	IYR	ITA	XLI	IYR	IYR	ITA	XLV	XLF	XLP	HACK	IGV	XLY
3	XLK	SMH	XLU	XLU	TAN	SMH	XLK	IGV	XLY	XLY	XLY	ITA	XLV	XLP	XLF	XLP	HACK	XLI	HACK	XLI
4	моо	XLU	TAN	IYR	XLY	XLY	XLV	ITB	XLV	TAN	OIH	PPH	ITA	XLF	PPH	ITB	XLI	IYR	XLI	HACK
5	TAN	MOO	SMH	SMH	IGV	XLK	PPH	CLOU	IGV	FDN	XLF	XLP	XLP	XLV	XLP	FDN	IYR	XLP	XME	ITB
6	PPH	XLP	IYR	TAN	SMH	IGV	CLOU	XLV	XLU	XLK	XLE	XLU	PPH	PPH	TAN	IYR	ITB	FDN	FDN	XME
7	XLP	ITA	XLY	XLY	XLV	PPH	XLY	PPH	XLI	ITB	XLU	XLF	XLF	IYR	IYR	PPH	XLU	XLU	SOCL	FDN
8	ITA	TAN	XLC	XLV	PPH	XLP	IGV	XLK	ITA	XLI	ITB	XLV	XLU	XLI	FDN	HACK	PPH	CLOU	CLOU	SOCL
9	XLY	PPH	XLV	PPH	XRT	XLV	HACK	XLY	XLF	PPH	HACK	CLOU	XLI	IYT	CLOU	CLOU	FDN	ITB	IYT	CLOU
10	IYR	XLV	HACK	XRT	MOO	MOO	XRT	XLU	TAN	XLU	XLB	MOO	IYT	XLU	HACK	XLY	IGV	ITA	ITB	IYT
11	XLV	XRT	PPH	OIH	XLP	XLF	ITA	MOO	XRT	SMH	XLP	XLI	XLB	CLOU	ITA	XLU	IYT	IYT	ITA	ITA
12	XLC	XLY	FDN	IGV	XLB	HACK	XLI	ITA	XOP	CLOU	XOP	IYT	MOO	MOO	XLU	IYT	CLOU	M00	IYR	XLC
13	IGV	XLC	ITA	XLB	FDN	XLB	XLU	XLF	PPH	XOP	IGV	XLB	XRT	FDN	XLB	ITA	TAN	SOCL	MOO	XLF
14	HACK	HACK	CLOU	HACK	OIH	ITA	XLB	XLB	XLE	XRT	XLK	HACK	CLOU	XLB	IYT	XLC	XLY	IGV	XLU	XLB
15	SMH	CLOU	XRT	IYT	ITA	XRT	MOO	XLP	FDN	OIH	CLOU	XLY	HACK	HACK	IGV	XRT	ITA	XLF	XLF	MOO
16	CLOU	IYR	IYT	CLOU	HACK	XLI	XLF	XLI	SMH	XLP	SOCL	IGV	IGV	IGV	XLY	MOO	XLC	XLB	XLB	XLK
17	IYT	IYT	XLP	MOO	IYT	FDN	FDN	SOCL	XME	HACK	SMH	XLC	XLY	XLC	XLI	IGV	MOO	XRT	XLK	TAN
18	OIH	IGV	MOO	FDN	SOCL	OIH	XLP	FDN	HACK	IYR	XLC	XRT	XLC	XLY	MOO	XLI	XLF	XOP	TAN	XRT
19	XLE	OIH	IGV	XLP	CLOU	IYT	XME	XLE	XLP	SOCL	FDN	FDN	FDN	XRT	XRT	TAN	XRT	XLC	XLC	XLU
20	XOP	FDN	OIH	ITA	ITB	XLU	OIH	IYT	IYT	XLV	ITA	XLE	XLE	XLE	XLC	XLB	XLB	XLE	XLE	SMH
21	XLF	XLF	XLF	ITB	XLU	CLOU	XLE	OIH	SOCL	IYT	XRT	XME	XME	XOP	XME	XLE	XLE	OIH	XRT	XLE
22	XRT	XLI	XLB	XME	XME	SOCL	XOP	XRT	XLB	XME	XLV	SOCL	XOP	OIH	SOCL	XME	OIH	XLK	XOP	XOP
23	XLB	XLB	XLI	XLC	XLC	ITB	IYT	XOP	OIH	XLB	IYR	XOP	SOCL	XME	XLE	XLK	XME	TAN	OIH	OIH
24	XLI	ITB	XME	XLF	XLF	XLC	SOCL	XME	ITB	XLE	IYT	TAN	OIH	TAN	XOP	XOP	XOP	XME	SMH	IYR
25	FDN ITB	XME	ITB	XLI	XLI	XME	ITB	SMH	XLC	XLC	TAN	OIH	TAN	SOCL	OIH	SOCL	XLK	XLV	XLP	XLP
26 27	XME	XOP	XLE XOP	XLE XOP	XLE	XLE	SMH XLC	TAN XLC	CLOU	IGV MOO	MOO XME	SMH XLK	XLK SMH	XLK SMH	XLK SMH	OIH SMH	SOCL	SMH PPH	XLV PPH	XLV PPH
								ALC	IVIOU	MOO	XIVIE	ALK	SIVITI	SIVIE	SIVITI	SIVITI	SIVITI	PPH	PPH	PPH
PA.				BSECTOF																
	6/21/24	6/28/24	7/5/24	11/8/24		11/22/24				12/20/24		1/3/25	1/10/25	1/17/25	1/24/25	1/31/25	2/7/25	2/14/25	2/21/25	2/28/2
Rank	Code	Code	Code	<u>Code</u>	<u>Code</u>	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	<u>Code</u>	Code	Code
1	XLU	XLK	XLK	FDN	FDN															
2	SOCL	SOCL	SOCL																	
3	XLK	SMH		IGV	IGV															
5	MOO	VII.11	XLU	XLY	XLC															
		XLU	TAN	XLY XLC	XLC XME															
	TAN	MOO	TAN SMH	XLY XLC XLI	XLC XME XOP															
6	PPH	MOO XLP	TAN SMH IYR	XLY XLC XLI XME	XLC XME XOP CLOU															
6 7	PPH XLP	MOO XLP ITA	TAN SMH IYR XLY	XLY XLC XLI XME CLOU	XLC XME XOP CLOU XLE															
6 7 8	PPH XLP ITA	MOO XLP ITA TAN	TAN SMH IYR XLY XLC	XLY XLC XLI XME CLOU MOO	XLC XME XOP CLOU XLE SOCL															
6 7 8 9	PPH XLP ITA XLY	MOO XLP ITA TAN PPH	TAN SMH IYR XLY XLC XLV	XLY XLC XLI XME CLOU MOO IYT	XLC XME XOP CLOU XLE SOCL XLY															
6 7 8 9	PPH XLP ITA XLY IYR	MOO XLP ITA TAN PPH XLV	TAN SMH IYR XLY XLC XLV HACK	XLY XLC XLI XME CLOU MOO IYT XLE	XLC XME XOP CLOU XLE SOCL XLY IYT															
6 7 8 9 10 11	PPH XLP ITA XLY IYR XLV	MOO XLP ITA TAN PPH XLV XRT	TAN SMH IYR XLY XLC XLV HACK PPH	XLY XLC XLI XME CLOU MOO IYT XLE XLB	XLC XME XOP CLOU XLE SOCL XLY IYT SMH															
6 7 8 9 10 11	PPH XLP ITA XLY IYR XLV XLC	MOO XLP ITA TAN PPH XLV XRT XLY	TAN SMH IYR XLY XLC XLV HACK PPH FDN	XLY XLC XLI XME CLOU MOO IYT XLE XLB SOCL	XLC XME XOP CLOU XLE SOCL XLY IYT SMH XLK															
6 7 8 9 10 11 12	PPH XLP ITA XLY IYR XLV XLC IGV	MOO XLP ITA TAN PPH XLV XRT XLY XLC	TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA	XLY XLC XLI XME CLOU MOO IYT XLE XLB SOCL HACK	XLC XME XOP CLOU XLE SOCL XLY IYT SMH XLK HACK															
6 7 8 9 10 11 12 13 14	PPH XLP ITA XLY IYR XLV XLC	MOO XLP ITA TAN PPH XLV XRT XLY	TAN SMH IYR XLY XLC XLV HACK PPH FDN	XLY XLC XLI XME CLOU MOO IYT XLE XLB SOCL	XLC XME XOP CLOU XLE SOCL XLY IYT SMH XLK															
6 7 8 9 10 11 12 13 14	PPH XLP ITA XLY IYR XLV XLC IGV HACK	MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK	TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU	XLY XLC XLI XME CLOU MOO IYT XLE XLB SOCL HACK XLK	XLC XME XOP CLOU XLE SOCL XLY IYT SMH XLK HACK XLB															
6 7 8 9 10 11 12 13 14 15	PPH XLP ITA XLY IYR XLV XLC IGV HACK SMH	MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK	TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU XRT	XLY XLC XLI XME CLOU MOO IYT XLE XLB SOCL HACK XLK XLF	XLC XME XOP CLOU XLE SOCL XLY IYT SMH XLK HACK XLB XLI															
6 7 8 9 10 11 12 13 14 15 16	PPH XLP ITA XLY IYR XLV XLC IGV HACK SMH CLOU	MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR	TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU XRT IYT	XLY XLC XLI XME CLOU MOO IYT XLE XLB SOCL HACK XLK XLF	XLC XME XOP CLOU XLE SOCL XLY IYT SMH XLK HACK XLB XLI XLF															
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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://youtu.be/-UoK6knrQYs



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.