

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> <u>strength</u> 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 Weekly Commentary

Market:

Bullish and not overbought or oversold.

Sectors:

Top ETFs: Industrials and Consumer Discretionary
Bottom ETFs: HealthCare, Consumer Staples, Real Estate

Top 20 & Bottom 20:

Top ETFs: Industrials and Consumer Discretionary

Bottom ETFs: HealthCare, Consumer Staples

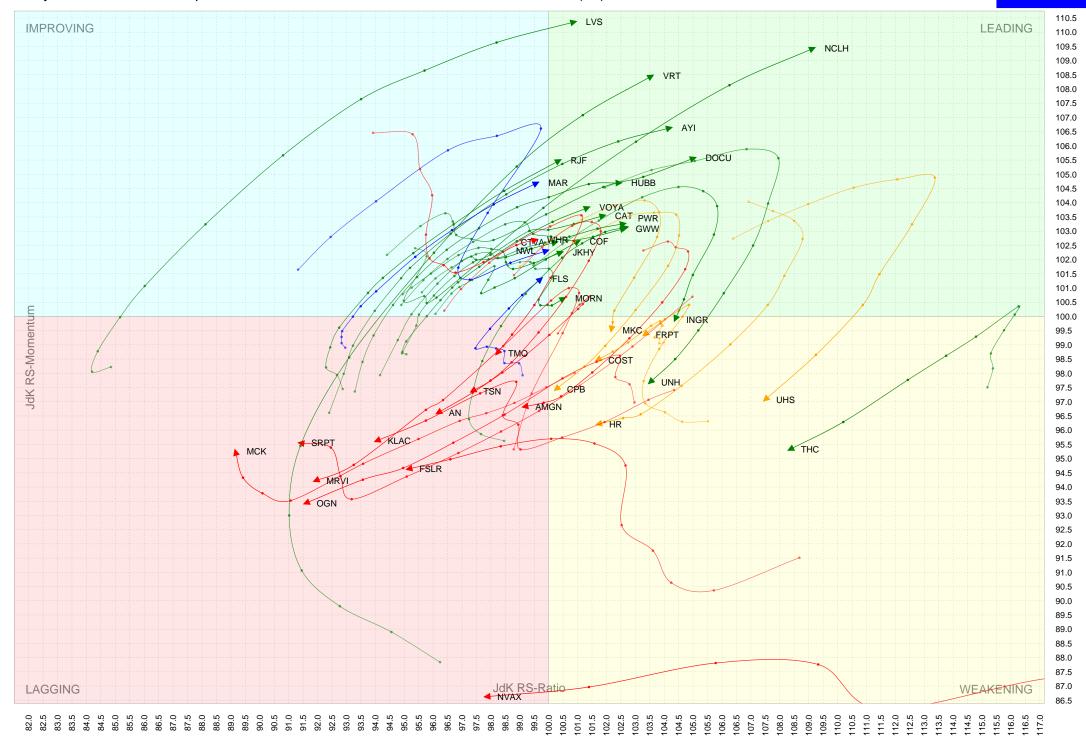
TPA-RRG TOP 20 & BOTTOM 20 (table below)

Buy	Prices as of	11/1/24						STOCK	SECTOR	TOTAL
Sell				TOP 20				TPA-RRG	TPA-RRG	TPA-RRG
<u>Code</u>	Name	<u>Last</u>	RRG Ratio	RRG Momentum	Quadrant	Mkt Cap (\$MIL)	TPA Sector	<u>SCORE</u>	<u>SCORE</u>	<u>SCORE</u>
LVS	Las Vegas Sands Corp	51.73	100.90	110.36	Leading	\$37,506	Consumer Discretionary	4.62	3.01	7.63
VRT	Vertiv Holdings Co - Ordinary Shares	106.90	103.57	108.46	Leading	\$40,123	Industrial	4.54	3.01	7.55
CAT	Caterpillar Inc.	379.63	101.91	103.55	Leading	\$184,082	Industrial	4.53	3.01	7.54
GWW	W.W. Grainger Inc.	1105.07	102.62	103.09	Leading	\$53,956	Industrial	4.46	3.01	7.47
HUBB	Hubbell Inc.	425.70	102.47	104.70	Leading	\$22,848	Industrial	4.44	3.01	7.45
AYI	Acuity Brands Inc.	306.39	104.21	106.63	Leading	\$9,456	Industrial	4.44	3.01	7.45
J	Jacobs Solutions Inc	139.62	102.61	103.26	Leading	\$17,348	Industrial	4.40	3.01	7.41
DOCU	DocuSign Inc	71.11	105.04	105.57	Leading	\$14,433	Tech-Software	4.34	3.02	7.35
PWR	Quanta Services Inc.	303.50	102.69	103.14	Leading	\$44,715	Industrial	4.29	3.01	7.30
NCLH	Norwegian Cruise Line Holdings Ltd	24.88	109.16	109.43	Leading	\$10,940	Consumer Discretionary	4.26	3.01	7.28
FLS	Flowserve Corp.	53.54	99.73	101.33	Improving	\$7,034	Industrial	4.17	3.01	7.18
JKHY	Jack Henry & Associates Inc.	183.06	100.44	102.26	Leading	\$13,348	Technology	5.05	2.00	7.06
NWL	Newell Brands Inc	8.79	99.94	102.32	Improving	\$3,657	Consumer Discretionary	4.01	3.01	7.02
COF	Capital One Financial Corp.	163.90	101.03	102.64	Leading	\$62,586	Financial	4.96	2.01	6.97
MORN	Morningstar Inc	328.41	100.53	100.64	Leading	\$14,084	Financial	4.96	2.01	6.97
RJF	Raymond James Financial Inc.	144.29	100.37	105.49	Leading	\$29,334	Financial	4.92	2.01	6.93
CTVA	Corteva Inc	60.86	100.25	102.61	Leading	\$42,130	Materials	4.78	2.00	6.78
VOYA	Voya Financial Inc	79.97	101.36	103.83	Leading	\$7,863	Financial	4.69	2.01	6.70
MAR	Marriott International Inc	260.57	99.60	104.70	Improving	\$73,356	Consumer Discretionary	3.63	3.01	6.64
WHR	Whirlpool Corp.	104.05	98.89	102.51	Improving	\$5,712	Consumer Discretionary	3.77	3.02	6.79

Buy	Prices as of	11/1/24						STOCK	SECTOR	TOTAL
Sell			В	OTTOM 2	20			TPA-RRG	TPA-RRG	TPA-RRG
SRPT	Sarepta Therapeutics Inc	123.29	91.40	95.55	Lagging	\$11,758	Health Care	-2.08	-3.02	-5.10
MCK	Mckesson Corporation	526.34	89.16	95.25	Lagging	\$68,254	Health Care	-2.09	-3.02	-5.11
AN	Autonation Inc.	156.25	96.16	96.61	Lagging	\$6,195	Retail	-3.12	-2.01	-5.13
KLAC	KLA Corp.	669.38	94.04	95.62	Lagging	\$89,681	Semiconductor	-3.13	-2.01	-5.14
MKC	McCormick & Co. Inc Ordinary Sha	78.75	102.17	99.52	Weakening	\$21,133	Consumer Staples	-2.15	-3.01	-5.16
INGR	Ingredion Inc	133.77	104.37	99.89	Weakening	\$8,703	Consumer Staples	-2.18	-3.01	-5.19
THC	Tenet Healthcare Corp.	156.13	108.34	95.32	Weakening	\$14,848	Health Care	-2.19	-3.02	-5.21
FRPT	Freshpet Inc	133.69	103.31	99.36	Weakening	\$6,482	Consumer Staples	-2.19	-3.01	-5.21
FSLR	First Solar Inc	204.94	95.13	94.63	Lagging	\$21,941	Solar & Environ	-3.24	-2.01	-5.25
HR	Healthcare Realty Trust Inc - Ordinar	16.92	101.70	96.21	Weakening	\$5,996	Health Care	-2.23	-3.02	-5.25
COST	Costco Wholesale Corp	877.31	101.68	98.46	Weakening	\$388,713	Consumer Staples	-2.27	-3.01	-5.28
UHS	Universal Health Services Inc.	205.26	107.48	97.06	Weakening	\$13,694	Health Care	-2.26	-3.02	-5.28
UNH	UnitedHealth Group Inc	567.56	103.50	97.68	Weakening	\$524,095	Health Care	-2.29	-3.02	-5.31
СРВ	Campbell Soup Co.	46.33	100.25	97.43	Weakening	\$13,789	Consumer Staples	-2.59	-3.01	-5.61
тмо	Thermo Fisher Scientific Inc.	557.92	98.21	98.70	Lagging	\$213,123	Health Care	-2.72	-3.02	-5.74
MRVI	Maravai LifeSciences Holdings Inc - (7.46	91.92	94.22	Lagging	\$1,056	Health Care	-3.06	-3.02	-6.08
TSN	Tyson Foods Inc.	58.36	97.35	97.37	Lagging	\$20,358	Consumer Staples	-3.10	-3.01	-6.12
OGN	Organon & Co.	18.07	91.58	93.43	Lagging	\$4,653	Health Care	-3.11	-3.02	-6.13
AMGN	AMGEN Inc.	319.22	99.15	96.82	Lagging	\$171,526	Health Care	-3.35	-3.02	-6.37
NVAX	Novavax Inc.	9.35	97.83	86.62	Lagging	\$1,497	Health Care	-3.46	-3.02	-6.48

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/EWuMwPRnxX4



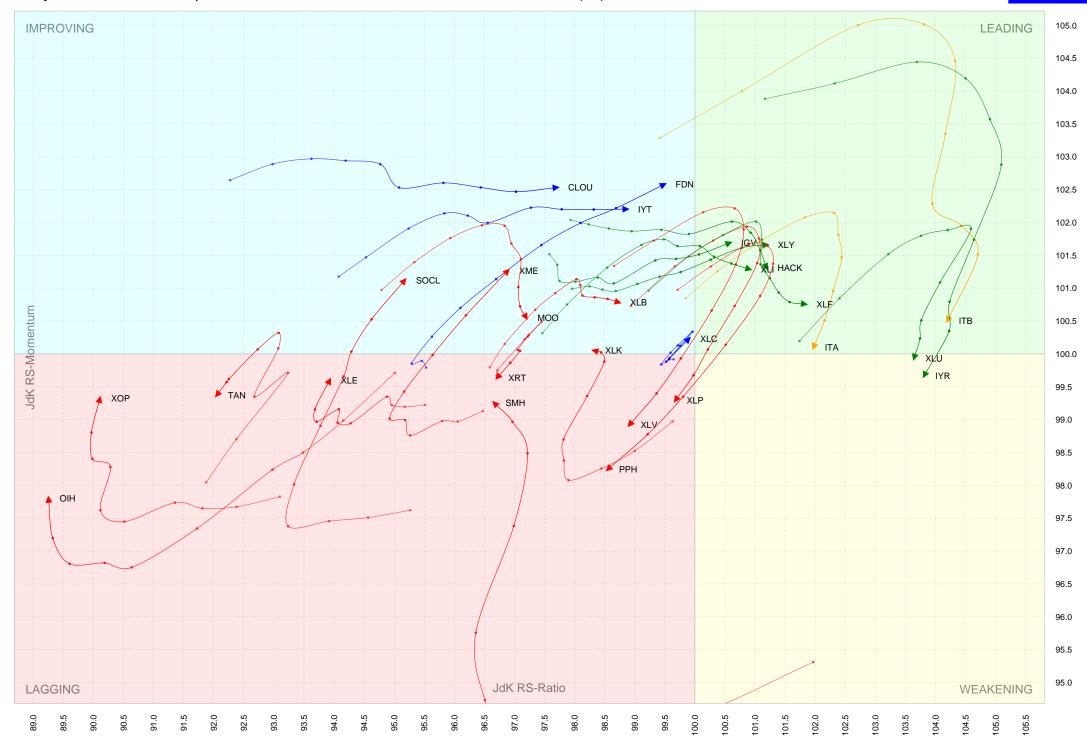
TPA-RRG 25 SECTOR ETFS

TPA-	RRG U.S. SECTOR & SUBSECTOR ETFS		11/3/24			
						TPA-RRG
<u>Code</u>	<u>Name</u>	Last	RRG Ratio	RRG Momentum	Quadrant	<u>SCORE</u>
IGV	Software	92.26	100.58	101.69	55.26	3.02
XLY	Consumer Discretionary	200.09	101.19	101.66	55.72	3.01
XLI	Industrial	134.01	100.91	101.29	42.54	3.01
HACK	Cyber Security	69.33	101.19	101.31	48.27	3.01
ITB	Home Construction	117.15	104.20	100.51	36.93	2.02
XME	Metals & Mining	63.86	96.89	101.27	50.00	2.02
FDN	Internet	222.03	99.49	102.58	65.13	2.02
SOCL	Social Media	41.68	95.18	101.12	47.83	2.02
CLOU	Cloud Computing	21.17	97.71	102.53	64.08	2.01
IYT	Transportation	69.70	98.87	102.20	51.63	2.01
ITA	Aerospace & Defense	144.54	101.97	100.10	33.76	2.01
XLC	Communications	92.40	99.90	100.23	63.68	2.01
XLF	Financials	46.64	101.83	100.76	53.06	2.01
XLB	Materials	93.13	98.74	100.78	39.57	2.00
MOO	Agribusiness	71.48	97.20	100.55	38.01	2.00
XLK	TECH	223.91	98.32	100.05	44.66	2.00
TAN	Solar	39.79	92.05	99.37	52.88	-2.01
XRT	Retail	75.43	96.71	99.64	46.13	-2.01
XLU	Utilities	78.13	103.64	99.93	40.80	-2.01
SMH	SEMI	244.75	96.66	99.25	46.51	-2.01
XLE	Energy	88.03	93.93	99.60	41.46	-2.01
XOP	Oil&Gas E&P	129.34	90.11	99.32	37.88	-2.01
OIH	Oil Services	271.79	89.25	97.80	37.49	-2.01
IYR	Real Estate	97.20	103.81	99.67	36.72	-2.02
XLP	Staples	80.15	99.67	99.29	35.29	-3.01
XLV	Health Care	147.74	98.91	98.92	34.22	-3.02
PPH	Pharma	91.39	98.55	98.24	29.48	-3.03

	2/2/24	2/9/24	2/16/24	2/23/24	3/1/24	3/8/24	3/15/24	3/22/24	3/29/24	4/5/24	4/12/24	4/19/24	4/26/24	5/3/24	5/10/24	5/17/24	5/24/24	5/31/24	6/7/24	6/14/24
Rank		Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code
2	IYR TAN	SMH TAN	IYT TAN	IYT TAN	IYT TAN	IYT SMH	IYT SMH	OIH XOP	XLI XOP	XLI XOP	XLI OIH	OIH XOP	OIH XOP	TAN SOCL	XLE XOP	XOP XLE	XOP XLE	XLU XME	XOP XLE	XME
3	ITB	IYR	ITB	ITB	SMH	PPH	XLV	SMH	OIH	OIH	XOP	XLE	XLE	XOP	XLB	XLB	XME	XOP	XME	OIH
4	FDN	ITB	SMH	PPH	ITB	FDN	PPH	XLE	XLE	XLE	XLE	XLU	XME	XLU	XLU	OIH	XLB	XLE	XLU	XOP
5	ITA	CLOU	CLOU	SMH	FDN	XLP	FDN	XLV	XLB	TAN	TAN	XME	XLU	OIH	OIH	XLU	TAN	XLB	ITA	XLE
6	SMH	XRT	IYR	XRT	PPH	XLV	XLI	PPH	XRT	XLB	XLU	SMH	MOO	XME	SOCL	SOCL	OIH	TAN	OIH	MOO
7	CLOU	FDN	PPH	FDN	XLP	XLC	XLC	XLI	SMH	MOO	XLB	MOO	SMH	XLE	MOO	TAN	XLU	OIH	XLB	TAN
8	XRT	XLF	FDN	XLC	XLV	XLI	XLP	XLP	XLC	SMH	MOO	XLB	XLP	MOO	XME	MOO	SOCL	SOCL	MOO	XLK
9	IYT	IGV	XLV	XLV	XLC	XLF	XRT	IYT	PPH	PPH	SMH	XLP	XLB	XLB	XLP	XME	M00	M00	SOCL	ITA
10	XME	PPH	HACK	XLP	XLI	XLB	XLK	XLC	IYT	IYT	PPH	XLF	TAN	ITA	TAN	XLI	ITA	ITA	TAN	SOCL
11	XLK	IYT	XRT	XLI	XLF	MOO	XLF	XLF	XLP	XRT	IYT	XLI	PPH	XLP	ITA	XLP	XLI	XLP	XLP	XLP
12	IGV XLY	XLI	XLF XLI	XLF XLK	XLK	XLU	XLB MOO	TAN	ITB XLF	XLP	XLP XLF	TAN PPH	ITA XLI	XLF XLI	XLI	ITA XLF	XLP XLC	XLC XLF	XLC PPH	PPH
14	XLF	HACK	XLP	MOO	XLB MOO	XLK	IGV	XLK	XLV	XLV	XRT	XLC	XLF	XLC	PPH	XLV	XLV	XLY	XLV	XLV
15	XLI	XLK	XLP	XLB	XRT	XRT	XLY	XLY	XLV	ITB	ITA	XLV	XLY	XLY	XLC	PPH	PPH	XLV	XLV	IYR
16	HACK	XLY	XLB	XLU	XLY	HACK	ITB	MOO	SOCL	FDN	XLY	XLY	XLC	FDN	XLV	XLC	XLY	PPH	IYR	XLC
17	XLV	XLP	XLK	IGV	XLU	ITB	HACK	XLU	IYR	SOCL	ITB	IYT	ITB	IYR	IYR	XLY	SMH	XLK	SMH	IGV
18	XLP	XLC	MOO	XLY	IGV	IGV	XLU	ITB	FDN	XLC	XLV	XRT	IYR	XLV	XLY	FDN	XLF	IYR	IGV	HACK
19	PPH	MOO	IGV	XLE	HACK	SOCL	SOCL	FDN	ITA	XLY	XLK	IYR	XLV	PPH	FDN	IYR	IYR	XLI	XLF	CLOU
20	XLC	XLB	XME	HACK	XLE	XLE	XLE	XLB	XLK	IYR	IYR	ITB	XRT	XRT	CLOU	CLOU	FDN	SMH	HACK	SMH
21	MOO	ITA	XLY	XOP	XOP	OIH	IYR	IGV	XLU	ITA	XLC	SOCL	FDN	ITB	XRT	ITB	IGV	HACK	XLK	IYT
22	XLB	XLE	XLU	XME	OIH	XOP	TAN	SOCL	HACK	XLK	FDN	ITA	SOCL	CLOU	ITB	SMH	CLOU	CLOU	XLI	XRT
23	XLU	XLU	ITA	OIH	CLOU	CLOU	OIH	IYR	IGV	IGV	SOCL	FDN	CLOU	SMH	SMH	XLK	ITB	IGV	CLOU	XLF
24	XLE	XOP	XLE	IYR	SOCL	TAN	XOP	HACK	MOO	HACK	HACK	XLK	XLK	XLK	XLK	XRT	XLK	ITB	IYT	FDN
25	XOP	OIH	XOP	CLOU	ITA	ITA	ITA	ITA	TAN	XME	XME	HACK	HACK	HACK	HACK	IGV	HACK	XRT	FDN	XLI
26 27	OIH	XME SOCL	OIH	SOCL	IYR	IYR XME	CLOU	XME	XME	XLU	IGV	IGV	IYT IGV	IGV	IGV	HACK	XRT	FDN	XRT	XLB
				ITA	XME		XME	CLOU	CLOU	CLOU	CLOU	CLOU	IGV	IYT	IYT	IYT	IYT	IYT	ITB	ITB
TPA	-RRG U.	S. SECT	OR & SU	BSECTOR	RETFS -	HISTOR	Y													
	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	11/1/24
Rank	<u>Code</u> XLU																			
1		Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code	Code
		XLK	XLK	XLK	XLK	TAN	IYR	IYR	XLK	<u>Code</u> XLF	Code PPH	ITB	ITB	ITB	Code ITB	<u>Code</u> XLV	<u>Code</u> XLV	<u>Code</u> XLY	<u>Code</u> XLY	Code IGV
2	SOCL	XLK SOCL	XLK SOCL	XLK SOCL	XLK IYR	TAN IYR	IYR TAN	IYR HACK	XLK IYR	Code XLF ITA	Code PPH XLI	ITB IYR	ITB IYR	ITB ITA	Code ITB XLV	Code XLV XLF	Code XLV XLP	Code XLY HACK	Code XLY IGV	Code IGV XLY
3	SOCL XLK	XLK SOCL SMH	XLK SOCL XLU	XLK SOCL XLU	XLK IYR TAN	TAN IYR SMH	IYR TAN XLK	IYR HACK IGV	XLK IYR XLY	Code XLF ITA XLY	PPH XLI XLY	ITB IYR ITA	ITB IYR XLV	ITB ITA XLP	Code ITB XLV XLF	Code XLV XLF XLP	Code XLV XLP HACK	Code XLY HACK XLI	Code XLY IGV HACK	IGV XLY XLI
3 4	SOCL XLK MOO	XLK SOCL SMH XLU	XLK SOCL XLU TAN	XLK SOCL XLU IYR	XLK IYR TAN XLY	TAN IYR SMH XLY	IYR TAN XLK XLV	IYR HACK IGV ITB	XLK IYR XLY XLV	Code XLF ITA XLY TAN	Code PPH XLI XLY OIH	ITB IYR ITA PPH	ITB IYR XLV ITA	ITB ITA XLP XLF	Code ITB XLV XLF PPH	Code XLV XLF XLP ITB	Code XLV XLP HACK XLI	Code XLY HACK XLI IYR	Code XLY IGV HACK XLI	Code IGV XLY XLI HACK
3 4 5	SOCL XLK MOO TAN	XLK SOCL SMH XLU MOO	XLK SOCL XLU TAN SMH	XLK SOCL XLU IYR SMH	XLK IYR TAN XLY IGV	TAN IYR SMH XLY XLK	IYR TAN XLK XLV PPH	IYR HACK IGV ITB CLOU	XLK IYR XLY XLV IGV	Code XLF ITA XLY TAN FDN	Code PPH XLI XLY OIH XLF	ITB IYR ITA PPH XLP	ITB IYR XLV ITA XLP	ITB ITA XLP XLF XLV	Code ITB XLV XLF PPH XLP	Code XLV XLF XLP ITB FDN	Code XLV XLP HACK XLI IYR	Code XLY HACK XLI IYR XLP	Code XLY IGV HACK XLI XME	Code IGV XLY XLI HACK ITB
3 4	SOCL XLK MOO	XLK SOCL SMH XLU	XLK SOCL XLU TAN	XLK SOCL XLU IYR	XLK IYR TAN XLY	TAN IYR SMH XLY	IYR TAN XLK XLV	IYR HACK IGV ITB	XLK IYR XLY XLV	Code XLF ITA XLY TAN	Code PPH XLI XLY OIH	ITB IYR ITA PPH	ITB IYR XLV ITA	ITB ITA XLP XLF	Code ITB XLV XLF PPH	Code XLV XLF XLP ITB	Code XLV XLP HACK XLI IYR	Code XLY HACK XLI IYR	Code XLY IGV HACK XLI	Code IGV XLY XLI HACK
3 4 5 6	SOCL XLK MOO TAN PPH	XLK SOCL SMH XLU MOO XLP	XLK SOCL XLU TAN SMH IYR	XLK SOCL XLU IYR SMH TAN	XLK IYR TAN XLY IGV SMH	TAN IYR SMH XLY XLK IGV	IYR TAN XLK XLV PPH CLOU	IYR HACK IGV ITB CLOU XLV	XLK IYR XLY XLV IGV XLU	Code XLF ITA XLY TAN FDN XLK	Code PPH XLI XLY OIH XLF XLE	ITB IYR ITA PPH XLP	ITB IYR XLV ITA XLP PPH	ITB ITA XLP XLF XLV PPH	Code ITB XLV XLF PPH XLP TAN	Code XLV XLF XLP ITB FDN IYR	Code XLV XLP HACK XLI IYR	Code XLY HACK XLI IYR XLP FDN	Code XLY IGV HACK XLI XME FDN	Code IGV XLY XLI HACK ITB XME
3 4 5 6 7	SOCL XLK MOO TAN PPH XLP	XLK SOCL SMH XLU MOO XLP ITA	XLK SOCL XLU TAN SMH IYR XLY	XLK SOCL XLU IYR SMH TAN XLY	XLK IYR TAN XLY IGV SMH XLV	TAN IYR SMH XLY XLK IGV PPH	IYR TAN XLK XLV PPH CLOU XLY	IYR HACK IGV ITB CLOU XLV PPH	XLK IYR XLY XLV IGV XLU XLU	Code XLF ITA XLY TAN FDN XLK ITB	Code PPH XLI XLY OIH XLF XLE XLU	ITB IYR ITA PPH XLP XLU XLF	ITB IYR XLV ITA XLP PPH XLF	ITB ITA XLP XLF XLV PPH IYR	Code ITB XLV XLF PPH XLP TAN IYR	Code XLV XLF XLP ITB FDN IYR PPH	Code XLV XLP HACK XLI IYR ITB XLU	Code XLY HACK XLI IYR XLP FDN XLU	Code XLY IGV HACK XLI XME FDN SOCL	Code IGV XLY XLI HACK ITB XME FDN
3 4 5 6 7 8	SOCL XLK MOO TAN PPH XLP ITA	XLK SOCL SMH XLU MOO XLP ITA TAN	XLK SOCL XLU TAN SMH IYR XLY	XLK SOCL XLU IYR SMH TAN XLY	XLK IYR TAN XLY IGV SMH XLV PPH	TAN IYR SMH XLY XLK IGV PPH XLP	IYR TAN XLK XLV PPH CLOU XLY IGV	IYR HACK IGV ITB CLOU XLV PPH XLK	XLK IYR XLY XLV IGV XLU XLI ITA	Code XLF ITA XLY TAN FDN XLK ITB XLI	Code PPH XLI XLY OIH XLF XLE XLU ITB	ITB IYR ITA PPH XLP XLU XLF XLU	ITB IYR XLV ITA XLP PPH XLF XLU	ITB ITA XLP XLF XLV PPH IYR XLI	Code ITB XLV XLF PPH XLP TAN IYR FDN	Code XLV XLF XLP ITB FDN IYR PPH HACK	Code XLV XLP HACK XLI IYR ITB XLU PPH	Code XLY HACK XLI IYR XLP FDN XLU CLOU	Code XLY IGV HACK XLI XME FDN SOCL CLOU	Code IGV XLY XLI HACK ITB XME FDN SOCL
3 4 5 6 7 8 9 10	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH	XLK SOCL XLU IYR SMH TAN XLY XLV PPH XRT OIH	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO	XLK IYR XLY XLV IGV XLU XLI ITA XLF TAN XRT	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH	Code PPH XLI XLY OIH XLF XLE ITB HACK XLB XLP	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA	Code XLV XLF XLP ITB FDN IYR PPH HACK CLOU XLY XLU	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV	Code XLY HACK XLI IYR XLP FDN XLU CLOU ITB ITA	Code XLY IGV HACK XLI XME FDN SOCL CLOU IYT ITB	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT
3 4 5 6 7 8 9 10 11	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV XLC	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN	XLK SOCL XLU IYR SMH TAN XLY XLV PPH XRT OIH	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA	XLK IYR XLY XLV IGV XLU XLI ITA XLF TAN XRT XOP	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH CLOU	Code PPH XLI XLY OIH XLF XLE XLU ITB HACK XLB XLP XOP	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU	Code XLV XLF XLP ITB FDN IYR PPH HACK CLOU XLY XLU IYT	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV IYT CLOU	Code XLY HACK XLI IYR XLP FDN XLU CLOU ITB ITA IYT MOO	Code XLY IGV HACK XLI XME FDN SOCL CLOU IYT ITB ITA IYR	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC
3 4 5 6 7 8 9 10 11 12	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV XLC IGV	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA	XLK SOCL XLU IYR SMH TAN XLY XLV PPH XRT OIH IGV XLB	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF	XLK IYR XLY XLV IGV XLU XLI ITA XLF TAN XRT XOP	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH CLOU XOP	Code PPH XLI XLY OIH XLF XLE XLU ITB HACK XLB XLP XOP	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT XLB	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FDN	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB	Code XLV XLF XLP ITB FDN IYR PPH HACK CLOU XLY XLU IYT	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV IYT CLOU TAN	Code XLY HACK XLI IYR XLP FDN XLU CLOU ITB ITA IYT MOO SOCL	Code XLY IGV HACK XLI XME FDN SOCL CLOU IYT ITB ITA IYR MOO	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF
3 4 5 6 7 8 9 10 11 12 13	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV XLC IGV HACK	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU	XLK SOCL XLU IYR SMH TAN XLY XLV PPH XRT OIH IGV XLB HACK	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN OIH	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLB	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF XLB	XLK IYR XLY XLV IGV XLU XLI ITA XLF TAN XRT XOP PPH XLE	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH CLOU XOP	Code PPH XLI XLY OIH XLE XLU ITB HACK XLB XLP XOP IGV XLK	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT XLB HACK	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FDN XLB	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB	Code XLV XLF XLP ITB FDN IYR PPH HACK CLOU XLY XLU IYT ITA	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV IYT CLOU TAN XLY	Code XLY HACK XLI IYR FDN XLU CLOU ITB ITA IYT MOO SOCL IGV	Code XLY IGV HACK XLI XME FDN SOCL CLOU IYT ITB ITA IYR MOO XLU	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF XLB
3 4 5 6 7 8 9 10 11 12 13 14	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV XLC IGV HACK SMH	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU XRT	XLK SOCL XLU IYR SMH TAN XLY XLV PPH XRT OIH IGV XLB HACK	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN OIH	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XXB ITA	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLB MOO	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF XLB	XLK IYR XLY XLV IGV XLLU XLI ITA XLF TAN XRT XOP PPH XLE FDN	Code XLF ITA XLY TAN FDN XLK ITB	Code PPH XLI XLY OIH XLF XLE XLU ITB HACK XLB XLP XOP IGV XLK CLOU	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT XLB HACK XLY	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU HACK	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FDN XLB HACK	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB IYT IGV	Code XLV XLF XLP ITB FDN IYR PPH HACK CLOU XLY XLU IYT ITA XLC XRT	Code XLV XLP HACK XU IYR ITB XLU PPH FDN IGV IYT CLOU TAN XLY ITA	Code XLY HACK XU IYR XLP FDN XLU CLOU ITB ITA IYT MOO SOCL IGV XLF	Code XLY IGV HACK XUI XME FDN SOCL CLOU IYT ITB ITA IYR MOO XLU XLF	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF XLB MOO
3 4 5 6 7 8 9 10 11 12 13 14 15 16	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV IGO HACK SMH CLOU	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU XRT IYT	XLK SOCL XLU IYR SMH TAN XLY XLV PPH XRT OIH IGV XLB HACK IYT CLOU	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN OIH ITA HACK	TAN IYR SMH XLY IGV PPH XLP XLV MOO XLF HACK XLB ITA XRT XLI	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLB MOO XLF	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF XLB XLP	XLK IYR XLY IGV XLU XLI ITA XLF TAN XRT XOP PPH XLE FDN SMH	Code XLF ITA XLY TAN FDN XLK ITB XLI ITB XLI SMH CLOU XOP XRT OIH XLP	Code PPH XLI XLY OIH XLF XLE XLU ITB HACK XLB XLP XOP IGV XLK CLOU SOCL	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT XLB HACK XLY IGV	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU HACK	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FDN XLB HACK	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB IYT IGV XLY	Code XLV XLF XLP ITB FDN IYR PPH HACK CLOU XLY XLU IYT ITA XLC XRT MOO	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV IYT CLOU TAN XLY ITA	Code XLY HACK XU IYR XLP FDN XLU CLOU ITB ITA MOO SOCL IGV XLE XLB	Code XLY IGV HACK XLI XME FDN SOCL CLOU IYT ITB ITA IYR MOO XLU XLF XLB	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLB MOO XLK
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV IGV HACK SMH CLOU IYT	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR IYT	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH ITA CLOU XRT IYT XLP	XLK SOCL XLU IYR SMH TAN XLY PPH XRT OIH IGV XLB HACK IYT CLOU MOO	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN OIH ITA HACK IYT	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA XRT XLI FDN	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLB MOO XLF FDN	IYR HACK IGV ITB CLOU XLV PPH XLK XLV MOO ITA XLF XLB XLP XLL SOCL	XLK IYR XLY IGV XLU XLI ITA XLF TAN XRT XOP PPH XLE FDN SMH XME	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SOP XRT OIH ALP HACK	Code PPH XLI XLY OIH XLF XLE ITB HACK XLB XLP XOP IGV XLK CLOU SOCL	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT XLB HACK XLY IGV XLC	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU HACK IGV XLY	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FDN XLB HACK IGV XLC	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB IYT IGV XLY XLI	Code XLV XLF XLP ITB FDN IYR PPH HACK CLOU XLY XLU IYT ITA XLC XRT MOOO IGV	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV IVT CLOU TAN XLY ITA XLC MOO	Code XLY HACK XU IYR XLP FON XLU CLOU ITB ITA IYT MOO SOCL IGV XLF XLB XRT	Code XLY IGV HACK XLI XME FDN SOCL CLOU IYT ITB ITA IYR MOO XLU XLF XLB XLK	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF XLB MOD XLK TAN
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV XLC IGV HACK SMH CLOU IYT OIH	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLV XRT XLC HACK CLOU IYR IFT IGV	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU XRT IYT XLP MOO	XLK SOCL XLU IYR SMH TAN XLY XLV PPH SRT OIH IGV XLB HACK IYT CLOU MOO FDN	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLP FDN OIH ITA HACK IYT SOCL	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA XRT XLI FDN OIH	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLB MOO XLF FDN XLP	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF XLB XLP XLI SOCL FDN	XLK IYR XLV IGV XLU XLI ITA XLF TAN XRT XOP PPH XLE FDN SMH HACK	Code XLF ITA XLY TAN FON XLK ITB XLI PPH XLU SMH CLOU XOP XRT OIH XLP HACK IYR	Code PPH XLI XLY OIH XLF XLE XLU ITB HACK XLB XLP XOP IGV IGV XLK CLOU SOCL SMH XLC	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XU XU XLB HACK XLY IGV XLC XRT	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU HACK IGV XLY XLC	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FDN XLB HACK IGV XLC XLY	Code ITB XLV XLF PPH XLP TAN IYR FON CLOU HACK ITA XLU XLI IGV XLY XLI MOO	Code XLV XLF ITB FDN IYR PPH HACK CLOU XLY XLU IYT ITA XLC XRT MOO IGV XLI	Code XLV XLP HACK XLI IYR XLU PPH FDN IGV IYT CLOU TAN XLY ITA XLC MOO XLF	Code XLY HACK XLI IYR XLP FDN XLU CLOU ITB ITA IYT MOO SOCL IGV XLF XLB XRT XOP	Code XLY IGV HACK XLI XME FDN SOCL CLOU IYT ITB ITA IYR MOO XLU XLF XLB XLK TAN	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF XLB MOO XLK TAN XRT
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV XLC IGV HACK SMH CLOU IYT OIH XLE	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR IYT IGV OIH	XLK SOCL XLU TAN SMH I/R XLY XLC XLV HACK PPH FDN ITA CLOU XRT I/YT XLP MOO IGV	XLK SOCL XLU IYR SMH TAN XLY PPH XRT OIH IGV XLB HACK IYT CLOU MOO FEN XLP	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN OIH ITA HACK SOCL CLOU	TAN I'VR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA XXI ITA OIH I'YT	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLU XLU XLU XLE FDN XLF FDN XLP XME	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF XLB XLP XLI SOCL FEDN XLE	XLK IYR XLY IGV XLU IGV XLI ITA XLF TAN XRT XOP PPH XLE FDN SMH XME HACK XLP	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH CLOU XOP XRT OIH XLP HACK IYR	Code PPH XLI XLY OIH XLF XLU ITB HACK XLB XUP XOP IGV XLK CLOU SOCL SMH XLC FDN	ITB IYR ITA PPH XLP XLU CLOU MOO XLI IYT XLB HACK XLY IGV XLC XRT FDN	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU HACK IGV XLY XLC FDN	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU MOO FON XLB HACK IGV XLC XLY XRT	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB IFT IGV XLY XLI MOOO XRT	Code XLV XLF ITB FDN IYR PPH HACK CLOU XLV IYT ITA XLC XRT MOO IGV XLU TAN	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV IYT CLOU TAN XLY ITA XLC MOO XLF XRT	Code XLY HACK XLI IYR XLP FON XLU ITB ITA IYT MOO SOCL IGV XLB XRT XOP XLC	Code XLY IGV HACK XLI XME FDN SOCL CLOU ITT ITB ITA IYR MOO XLU XLF XLB XLK XLB XLK XLL XLC	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF XLB MOO XLK TAN XRT XLU
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	SOCL XLK MOO TAN PPH XLP ITA XLV YLV XLC IGV HACK SMH CLOU I'TT OIH XLE XOP	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR IYT IGV OIH FDN	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU XRT IYT XLP MOO IGV OIH	XLK SOCL IVR SMH TAN XLY XLV PPH SMT OIH IGV XLB HACK IVT CLOU MOO FEDN XLP XLF ITA	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN OIH ITA HACK IYT SOCL CLOU ITB	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA XRT XLI FDN OIH IYT XLU	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLB MOO XLF FDN XLP XLP XLP XLP OIH	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU XLU XLU XLU XLU XLF	XLK IYR XLY IGV XLU XLI ITA XLF TAN XRT XOP PPH XLE FDN SMH XME HACK XLP IYT	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH CLOU XOP XRT OIH XLP HACK IYR SOCL	Code PPH XLI XLY OIH XLF XLU ITB HACK XLB XLP IGV XLK CLOU SOCL SMH XLC FDN ITA	ITB IYR ITA PPH XLP XLU LOU MOO XLI IYT XLB HACK XLY IGV XLC XRT FDN XLE	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU HACK IGV XLY XLC FDN XLE	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FDN XLB HACK IGV XLC XLY XLC XLY XLC XLY XLC XLY XLE	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB IYT IGV XLI MOO XRT XLC	Code XLV XLF ITB FDN IYR PPH HACK CLOU XLY XLU IYT ITA XLC XRT MOO IGV XLI XLB	Code XLV XLP HACK XUI IYR XLU IYR SIGV ITT CLOU TAN XLY ITA XLC MOO XLF XRT XLB	Code XLY HACK XLI IYR XLP FDN XLU CLOU ITB ITA IYT MOO SOCL IGV XLF XRT XOP XLL XLE	Code XLY IGV HACK XLI XME FDN SOCL CLOU IYT ITB ITA IYR MOO XLU XLF XLB XLK TAN XLC XLE	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF XLB MOO XLK TAN XRT XLU SMH
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV XLC IGV HACK SMH CLOU IYT OIH XLE	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR IYT IGV OIH	XLK SOCL XLU TAN SMH I/R XLY XLC XLV HACK PPH FDN ITA CLOU XRT I/YT XLP MOO IGV	XLK SOCL XLU IYR SMH TAN XLY PPH XRT OIH IGV XLB HACK IYT CLOU MOO FEN XLP	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN OIH ITA HACK SOCL CLOU	TAN I'VR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA XXI ITA ITA OIH I'YT	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLU XLU XLU XLE FDN XLF FDN XLP XME	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF XLB XLP XLI SOCL FEDN XLE	XLK IYR XLY IGV XLU IGV XLI ITA XLF TAN XRT XOP PPH XLE FDN SMH XME HACK XLP	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH CLOU XOP XRT OIH XLP HACK IYR	Code PPH XLI XLY OIH XLF XLU ITB HACK XLB XUP XOP IGV XLK CLOU SOCL SMH XLC FDN	ITB IYR ITA PPH XLP XLU CLOU MOO XLI IYT XLB HACK XLY IGV XLC XRT FDN	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU HACK IGV XLY XLC FDN	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU MOO FON XLB HACK IGV XLC XLY XRT	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB IFT IGV XLY XLI MOOO XRT	Code XLV XLF ITB FDN IYR PPH HACK CLOU XLV IYT ITA XLC XRT MOO IGV XLU TAN	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV IYT CLOU TAN XLY ITA XLC MOO XLF XRT	Code XLY HACK XLI IYR XLP FON XLU ITB ITA IYT MOO SOCL IGV XLB XRT XOP XLC	Code XLY IGV HACK XLI XME FDN SOCL CLOU ITT ITB ITA IYR MOO XLU XLF XLB XLK XLB XLK XLL XLC	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF XLB MOO XLK TAN XRT XLU
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV XLC IGV HACK SMH CLOU IYT OIH XLE XOP XLF	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR IGV OIH FON XLF	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH ITA CLOU XRT IYT XLF MOO IGV OIGV XLF	XLK SOCL XLU IYR SMH TAN XLY XLV YPH XRT OIH IGV XLB HACK IYT CLOU MOO FON XLP ITB	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FOIH ITA HACK IYT SOCL CLOU IIB XLU	TAN I'VR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA XRT XLI FDN OIH I'VT XLU CLOU	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLU XLU XLU XLD XLF FDN XLP COIH XLE XOP	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLB XLP XLB XLP XLI SOCL FDN XLE IYT OIH	XLK IYR XLY IGV XLU ITA XLI ITA XRT XOP PPH XLE FDN SMH HACK XLP IYT SOCL	Code XLF ITA XLY TAN FDN XLK ITB XLI SMH CLOU XOP XRT OIH XLP HACK IYR SOCL XLV IYT	Code PPH XLI XLY OIH XLE XLE XLE XLI TB HACK XLB XLP XOP IGV XLK CLOU SOCL SMH XLC FEN ITA XRT	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT XLB HACK XLY IGV XLC XRT FEN XLE XME	ITB IYR XLV ITA XLP PPH XLF XLU XLI IYT XLB MOO XRT CLOU HACK IGV XLY XLC FDN XLE XME	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FON XLB HACK IGV XLC XLY XRT XLE XOP	Code ITB XLV XLF PPH XLP TAN IYR FON CLOU HACK ITA XLU XLB IYT IGV XLI MOO XRT XLC XME	Code XLV XLF XLP ITB FEDN IYR PPH HACK CLOU XLY XLU IYT ITA XLC XRT MOO IGV XLI TAN XLB XLE	Code XLV XLP HACK XLI IYR ITB XLU IYR FDN IGV IVT CLOU TAN XLY ITA XLC MOO XLF XRT XLB XLE	Code XLY HACK XUI IYR TDN XLU CLOU ITB ITA MOO SOCL IGV XLE XLE XLE XRT XOP XLC XLE	Code XLY IGV HACK XLI HACK XLI FDN SOCL CLOU IYT ITB ITA IYR MOO XLU XLF XLB XLK TAN XLC XLE XRT	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF XLB MOO XLK TAN XRT XLU SMH XLE
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLC IGV HACK SMH CLOU IYT COIH XLE XOP XLF XRT	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR IYT IGV OIH FDN XLF XLI	XLK SOCL XLU TAN SMH IYR XLY XLC Y HACK PPH FDN ITA CLOU XRT IYT XLP MOO IGV OIH XLE XLB	XLK SOCL XLU IYR SMM TAN XLY XLV PPH XRT OIH IGV XLB HACK IYT CLOU MOO FDN XLP ITA ITB XME	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FDN OIH ITA HACK IYT SOCL CLOU ITB XLU XME	TAN IYR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA XRT XLI FON OIH IYT XLU CLOU SOCL	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLB MOO XLF FDN XLP XME OIM XLE	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF XLB XLP XLI SOCL FFDN XLE IYT OIH XRT	XLK IYR XLY ISV XLU XUI ITA XLF TAN XRT XOP PPH XLE FDN SMH XME HACK XLP IYT SOCL XLB	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH CLOU XOP XRT OIH XLP HACK IYR SOCL XLV IYT XME	Code PPH XLI XLY OIH XLF XLE XLU ITB HACK XLB XLP XOP IGV XCL SOCL SMH XLC FDN ITA XRT XLV	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT XLB HACK XLY IGV XLC XRT FDN XLE XME SOCL	ITB IYR XLV ITA XLP PPH XLF XLU IYT XLB MOO XRT CLOU HACK IGV XLY XLS XLY XLC FON XLE XME XOP	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FDN XLB HACK IGV XLC XLY XRT XLE XLO XOH OH	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB IYT IGV XLY XLI MOO XRT XLC XME SOCL	Code XLV XLF TIB FDN IYR PPH HACK CLOU XLY XLU ITA XLC XRT MOO IGV XLI XLB XLE XME	Code XLV XLP HACK XLI IYR ITB XLU PPH IGV ITA CLOU TAN XLY ITA XLC MOO XLF XRT XLB XLE OIH	Code XLY HACK XU IYR XLP FDN XLU CLOU ITB ITA IYT MOO SOCL IGV XLE XRT XOP XLE OIH XLE OIH XLL	Code XLY IGV HACK XUI FDN SOCL CLOU IYT ITB ITA IYR MOO XUI XLF XLB XLL XLF XLD XLC	Code IGV XLY XLI HACK ITB XME FDN SOCL CLOU IYT ITA XLC XLF MOO XLK TANN XRT XLU SMH XLE XOP
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLV IGV HACK SMH CLOU IYT OH XLE XOP XLF XRT XLB	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLV XLC HACK CLOU IYR IYT IGV OIH FDN XLF XLI XLB	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU XRT IYT XLP MOO IGV OIH XLF XLB XLI	XLK SOCL XLU IYR SMH TAN XLY XLV YR YE YE YE YE YE YE YE YE Y XLI Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP XLB FFDN OIH ITA HACK IYT SOCL CLOU ITB XLU XLM XLU XLM XLV XLE XLC XLC XLE XLC XLE XLC XLE	TAN I'VR SMH XLY XLK IGV PPH XLP XLV MOO XLF HACK XLB ITA XRT XLI FDN OIH I'VT XLU CLOU SOCL ITB	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLB MOO XLF FON XLP XLP XME XLE XLE XLE XLE XLE XLE XLE XLE XLE XL	IYR HACK IGV ITB CLOU XLV PPH XLK XLV MOO ITA XLF XLB XLP XU SOCL FON XLE IYT OIH XRT XOP	XLK IYR XLY IGV XLU IGV XLI ITA XLF TAN XRT XOP PPH XLE FON XME HACK XME HACK XLV XLB IVT SOCL XLB OIH	Code XLF ITA XLY TAN FEN XLK ITB XLI PPH XLU SMH CLOU XOP ART OIH XLP IYR SOLU IYR SALV IYR SALV IYT XME XLB	Code PPH XLI XLY OIH XLF XLE XLU ITB HACK XLB XLP XOP IGV XLK CLOU SOCL SMH XLC FDN ITA XRT XLV IYR	ITB IYR ITA PPH XLP XLV XLF XLV CLOU MOO XLI IYT XLB HACK XLY IGV XLC XRT FDN XLE XME SOCL XOP	ITB IYR XLV ITA XLP PPH XLF XLU IYT XLI IYT XLB MOO XRT CLOU HACK IGV XLY XLC FDN XLE XME XOP SOCL	ITB ITA XLP XLF XLV PPH IYR XLI IYT XLU CLOU MOO FON XLB HACK IGV XLC XLY XRT XLE XOP OIH XME	Code ITB XLV XLF PPH XLP TAN IYR FON CLOU HACK ITA XLU XLB IYT IGV XLI MOO XXI XXLL XXLL XXLL XXLL XXLL XXLL XXL	Code XLV XLF ITB FDN IYR PPH HACK CLOU XLV IVT ITA XLC XRT MOO IGV XLI XLI XLL XLI XLL XLL XLI XLL XLL XLL	Code XLV XLP HACK XLI IYR ITB XLU PPH FDN IGV IYT CLOU TAN XLY ITA XLC MOO XLF XRT XLB XLE OIH XME	Code XLY HACK XU IYR KLP FDN XLU ITB ITA MOO SOCI IGV XLF XLF XLP XCP XLE OIH XLL XLR	Code XLY IGV HACK XLI HACK XLI FDN SOCL IYT ITB ITA IYR MOO XLU XLF XLB XLK TAN XLC XLC XLC XLC XLC XLC XCD OIH	Code IGV XLV HACK ITB SOCL CLOU ITA XLC XLF MOO XLK TAN XRT XLU SMH XLE XOP OIH
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	SOCL XLK MOO TAN PPH XLP ITA XLY IYR XLC IGV HACK SMH CLOU IYT OIH XLE XOP XLF XRT XLB XLI	XLK SOCL SMH XLU MOO XLP ITA TAN PPH XLV XRT XLY XLC HACK CLOU IYR IYT IGV OIH FON XLI XLB XLI XLB XLI	XLK SOCL XLU TAN SMH IYR XLY XLC XLV HACK PPH FDN ITA CLOU XRT IYT XLP MOO IGV OIH XLF XLB XLI XME	XLK SOCL XLU IYR SMH TAN XLY XLV PPH XRT OIH IGV XLB HACK IYT CLOU MOO FON XLP ITA ITB XME XLC XLF	XLK IYR TAN XLY IGV SMH XLV PPH XRT MOO XLP FDN OIH ITA HACK IYT SOCL CLOU ITB ILU XME XLC XLF	TAN I'RR SMH XLY XLK IGV PPH XLP MOO XLF HACK XLB ITA XRT XLI FDN OIH I'TT XLU CLOU SOCL ITB	IYR TAN XLK XLV PPH CLOU XLY IGV HACK XRT ITA XLI XLU XLB MOO XLF FDN XME OIH ALE XOP IYT	IYR HACK IGV ITB CLOU XLV PPH XLK XLY XLU MOO ITA XLF XLB XLP XLI SOCL FFON XLE IYT OIH XRT XOP	XLK IYR XLY XLV IGV XU XU XU ITA XLF TAN XRT XOP PPH XLE FON SMH XME HACK XLP IYT SOCL XLB OIH ITB	Code XLF ITA XLY TAN FDN XLK ITB XLI PPH XLU SMH CLOU XOP XRT OIH XLF IYR SOCL XLV IYT XME XLE XLE	Code PPH XLI XLY OIH XLF XLE XLU ITB HACK XLB XLP XOP IGV XLK CLOU SOCL SMH XLC FDN ITA XRT XLV IYT	ITB IYR ITA PPH XLP XLU XLF XLV CLOU MOO XLI IYT XLB HACK XLY IGV XLC XRT FDN XLE XME SOCL XOP TAN	ITB IYR XLV ITA XLP PPH XLF XLU IYT XLI IYT XLB MOO XRT CLOU HACK IGV XLV XLC FDN XLE XME XOP SOCL	ITB ITA XLP XLF XLF YEPH IYR XLI IYT XLU CLOU MOO FDN XLB HACK IGV XLC XLY XRT XLE XOP OIH XMB	Code ITB XLV XLF PPH XLP TAN IYR FDN CLOU HACK ITA XLU XLB IYT IGV XLY XLI MOO XRT XLC XME SOCL XLE XOP	Code XLV XLF XLP ITB FEN IYR PPH HACK CLOU XLY XLU IYT ITA XLC XRT MOO IGV XLI TAN XLB XLE XME XLE XME XLC	Code XLV XLP HACK XU ITB XLU PPH FDN IGV IVT CLOU TAN XLY ITA XLC MOO XLF XRT XLB XRT XLB XLE OIH XME XCP	Code XLY HACK XU IYR KLP FEN XLU CLOU ITB ITA IYT MOO SOCL IGV XLF XLB XRT XOP XLC XLE XLB XRT XOP XLC XLE XLR	Code XLY IGV HACK XUI XME FDN SOCL CLOU IYT ITB ITA IYR MOO XLU XLF XLB XLL XLL XLL XLC XLC XLC XLC XLC XLC XLC	Code IGV XLI HACK IF TON SOCL CLOU IYT ITA XLC XLF XLB MOO XLK TAN XRT XLU SMH XLE XOP OIH IYR

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/Jw4ii2uV2Rk



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.