

December 14, 2022 WEEKLY SECTOR ROTATION Brian T. Hannon, CFA

#### **Retail Sector Rises to Top of Attractiveness Rankings**

Higher catalytic scores, providing an indication of an improved fundamental outlook, have resulted in the retail sector rising to the top of our attractiveness rankings. The ranking for the transportation sector has also moved up due to improved catalytic properties. Moving in the opposite direction, the business services sector has fallen out of the top 5 group due to lower valuations cores. See Tables 5 and 6 for top-ranked names from the most attractive sectors and bottom-ranked names from the least attractive sectors.

Sector	Previous Integrated Rank	Current Integrated Rank	Change In Rank	Behavioral Preference Rank
RETAIL-WHOLESALE	7	1	6	5
TRANSPORTATION	8	2	6	2
HEALTHCARE	2	3	-1	11
AUTO-TIRES-TRUCKS	5	4	1	7
ENERGY	1	5	-4	6
FINANCIALS	4	6	-2	3
INDUSTRIAL PRODUCTS	11	7	4	8
AEROSPACE DEFENSE	9	8	1	15
BUSINESS SERVICES	3	9	-6	16
TECHNOLOGY	6	10	-4	10
CONSUMER STAPLES	10	11	-1	12
BASIC MATERIALS	13	12	1	9
CONSUMER DISCRETIONARY	15	13	2	14
CONSTRUCTION	12	14	-2	1
CONGLOMERATES	16	15	1	4
UTILITIES	14	16	-2	13

## Table 1 – Current Sector Rankings and Change from Last Report (as of December 12, 2022)



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### Table 2 – Current Sector Rankings with Rankings for Absolute-Scale & Relative-Scale Metrics

				Α	BSOLUTE-S	CALE METRICS	5								
Sector	Current Integrated Rank		Behavioral Preference Rank		Technical Outlook Rank	Fundamental Outlook Rank		Current Relative Scale Rank	Valuation Rank	Technical Rank	Catalytic Rank				
RETAIL-WHOLESALE	1	]	5		11	2		5	10	11	2				
TRANSPORTATION	2		2		3	4		4	13	3	5				
HEALTHCARE	3		11		4	1		14	1	4	1				
AUTO-TIRES-TRUCKS	4		7		10	9		8	5	10	9				
ENERGY	5		6		1	12		10	14	1	13				
FINANCIALS	6		3		9	3		2	16	9	3				
INDUSTRIAL PRODUCTS	7		8		12	5		6	7	12	4				
AEROSPACE DEFENSE	8		15		2	8		13	8	2	8				
BUSINESS SERVICES	9		16		6	10		15	2	6	11				
TECHNOLOGY	10		10		13	6		11	4	13	6				
CONSUMER STAPLES	11		12		5	7		16	3	5	7				
BASIC MATERIALS	12		9		8	16		7	12	8	15				
CONSUMER DISCRETIONARY	13		14		14	15		12	6	14	16				
CONSTRUCTION	14		1		16	13		1	9	16	10				
CONGLOMERATES	15		4		15	14		3	11	15	14				
UTILITIES	16		13		7	11		9	15	7	12				

## Table 3 – Corresponding Model Scores for Current Sector Rankings

			A	ABSOLUTE-S	CALE METRICS	RELATIVE-SCALE METRICS				
Sector	Current Integrated Score	Behavioral Preference Score		Technical Outlook Score	Fundamental Outlook Score	Current Relative Scale Score	Valuation Score	Technical Score	Catalytic Score	
RETAIL-WHOLESALE	0.248	0.174		0.093	0.110	0.299	-0.104	0.021	0.487	
TRANSPORTATION	0.191	0.430		0.319	0.064	0.311	-0.487	0.246	0.459	
HEALTHCARE	0.164	-0.049		0.270	0.118	-0.281	0.532	0.198	0.506	
AUTO-TIRES-TRUCKS	0.092	0.147		0.122	-0.061	0.011	0.174	0.050	0.335	
ENERGY	0.087	0.158		0.711	-0.125	-0.084	-0.516	0.639	0.262	
FINANCIALS	0.060	0.277		0.132	0.104	0.393	-0.792	0.060	0.481	
INDUSTRIAL PRODUCTS	0.032	0.076		0.068	0.042	0.166	0.052	-0.004	0.466	
AEROSPACE DEFENSE	0.003	-0.538		0.325	-0.058	-0.218	-0.013	0.253	0.341	
BUSINESS SERVICES	-0.022	-0.549		0.243	-0.089	-0.395	0.361	0.171	0.294	
TECHNOLOGY	-0.091	0.056		0.028	-0.021	-0.133	0.285	-0.044	0.378	
CONSUMER STAPLES	-0.141	-0.145		0.266	-0.038	-0.448	0.301	0.194	0.364	
BASIC MATERIALS	-0.226	0.061		0.212	-0.257	0.092	-0.203	0.140	0.207	
CONSUMER DISCRETIONARY	-0.238	-0.466		0.022	-0.205	-0.161	0.086	-0.050	0.190	
CONSTRUCTION	-0.307	0.514		-0.326	-0.133	0.433	-0.076	-0.398	0.312	
CONGLOMERATES	-0.411	0.208		-0.110	-0.155	0.320	-0.138	-0.182	0.259	
UTILITIES	-0.491	-0.460		0.230	-0.105	-0.041	-0.632	0.158	0.263	



#### Table 4 – Current versus Historical Sector Rankings (last 12 months)

WEEKLY SECTOR ROTATION

Sector	Current Rank 10/24/2022	Nov 2022	Oct 2022	Sep 2022	Aug 2022	Jul 2022	Jun 2022	May 2022	Apr 2022	Mar 2022	Feb 2022	Jan 2022	Dec 2021	Avg Hist Rank	Curr vs. Hist
RETAIL-WHOLESALE	1	7	14	13	9	8	12	10	10	10	14	1	7	9.6	8.6
HEALTHCARE	3	2	3	10	8	11	16	9	8	12	10	10	11	9.2	6.2
AUTOS-TIRES-TRUCKS	4	5	4	7	5	15	13	15	12	9	16	11	9	10.1	6.1
AEROSPACE DEFENSE	8	8	16	11	13	16	14	4	14	8	15	14	15	12.3	4.3
TRANSPORTATION	2	4	7	4	3	2	3	2	6	11	12	13	4	5.9	3.9
CONSUMER STAPLES	11	11	13	16	11	10	15	12	16	15	13	12	16	13.3	2.3
INDUSTRIAL PRODUCTS	7	10	6	15	10	9	7	6	11	5	3	8	13	8.6	1.6
TECHNOLOGY	10	9	5	14	6	13	10	14	7	14	8	7	14	10.1	0.1
BUSINESS SERVICES	9	6	8	6	7	7	9	11	15	16	6	3	10	8.7	-0.3
ENERGY	5	1	1	1	2	1	8	1	4	2	5	4	1	2.6	-2.4
FINANCIALS	6	3	12	2	4	4	1	5	3	4	1	2	2	3.6	-2.4
CONSUMER DISCRETIONARY	13	14	11	9	15	6	11	13	9	7	11	9	3	9.8	-3.2
BASIC MATERIALS	12	15	9	12	14	3	2	3	5	3	9	6	8	7.4	-4.6
CONGLOMERATES	15	16	10	5	16	12	4	16	1	6	2	16	5	9.1	-5.9
CONSTRUCTION	14	13	15	8	12	14	5	8	2	1	7	5	6	8.0	-6.0
UTILITIES	16	12	2	3	1	5	6	7	13	13	4	15	12	7.8	-8.3

# Table 5 – Highlighted Names from Most and Least Attractive Sectors (December 12, 2022)

	Most Attractive Names from the Top-Ranked Sectors		Least Attractive Names from the Bottom-Ranked Sectors							
	Polaris All-Cap Core Universe	<b>;</b>	Polaris All-Cap Core Universe							
	Company	Ticker		Company	Ticker					
	<b>RETAIL-WHOLESALE</b>			UTILITIES						
1	Jumia Tech-Adr	JMIA	1	Southern Co	so					
2	Fiverr Intl Ltd	FVRR	2	Wec Energy Grp	WEC					
3	Rite Aid Corp	RAD	3	Alliant Engy Cp	LNT					
	TRANSPORTATION			CONGLOMERATES						
1	Ardmore Shippin	ASC	1	Icahn Enterpris	IEP					
2	Frontline Ltd	FRO	2	3M Co	ммм					
3	Expeditors Intl	EXPD	3	Danaher Corp	DHR					
	HEALTHCARE			CONSTRUCTION						
1	Surgery Partnrs	SGRY	1	Rayonier Inc	RYN					
2	Inovio Pharmac	INO	2	Louisiana Pac	LPX					
3	Quest Diagnostc	DGX	3	Kb Home	КВН					
	AUTO-TIRES-TRUCKS			CONSUMER DISCRETIONARY						
1	Nikola Corp	NKLA	1	Six Flags Entmt	SIX					
2	Cnh Industrial	CNHI	2	Cedar Fair	FUN					
3	Rivian Automotv	RIVN	3	Fox Corp-A	FOXA					
				-						
	ENERGY			BASIC MATERIALS						
1	Tellurian Inc	TELL	1	Compass Minerls	CMP					
2	Consol Energy	CEIX	2	Rio Tinto-Adr	RIO					
3	Bp Plc	BP	3	Wheaton Prc Mtl	WPM					



 Table 6 – Model Scores for Highlighted Names (December 12, 2022)

#### **SECTOR CODES:**

1-Staples, 2-Discretionary, 3-Retail, 4-Medical, 5-Auto, 6-Materials, 7-Industrials, 8-Construction, 9-Conglomerates, 10-Technology, 11-Aerospace, 12-Energy, 13-Financials, 14-Utilities, 15-Transportation, 16-Business Services

							Behavioral	vioral ABSOLUTE-SCALE METRICS RELATIVE-SCALE METRICS										
	COMPANY	SECTOR	TICKER	PRICE	YIELD	iPSCORE	Preference Factor	ABS	TECH		REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE	CSCORE	MKTCAP	DAYS2TR
1	Jumia Tech-Adr	3	JMIA	3.94	0.00	1.57	1.55	1	-0.35	2.12	4	1.99	0.20	-0.73	-0.14	2.09	393.52	2.95
1	Fiverr Intl Ltd	3	FVRR	31.13	0.00	1.57	1.55	1	-0.35	1.63	4	1.99	-0.03	-1.16	-0.14	1.81	1144.37	1.53
1	Rite Aid Corp	3	RAD	4.55	0.00	1.57	-0.70	1	1.32	2.12	1	1.90	3.38	6.08	1.53	2.09	257.24	2.59
2	Ardmore Shippin	15	ASC	15.19	0.00	1.51	0.48	1	1.56	1.66	3	1.33	0.77	-0.02	1.48	1.39	607.36	1.92
2	Frontline Ltd	15	FRO	14.23	4.22	1.51	0.48	1	1.56	1.66	3	1.33	0.56	-0.49	-0.30	1.39	18026.97	0.12
2	Expeditors Intl	15	EXPD	113.28	1.18	1.51	0.72	1	-0.22	1.51	2	1.33	0.74	0.35	1.48	1.39	3167.92	0.36
3	Surgery Partnrs	4	SGRY	25.41	0.00	1.47	1.11	1	-0.07	1.97	4	2.11	0.42	-0.03	-0.15	1.94	2285.65	0.74
3	Inovio Pharmac	4	INO	1.84	0.00	1.45	1.27	1	-0.07	1.66	4	1.78	0.33	-0.09	-0.15	1.68	459.06	2.62
3	Quest Diagnostc	4	DGX	149.00	1.77	1.45	1.27	1	-0.22	1.51	4	1.78	0.31	-0.01	-0.29	1.68	16969.23	0.17
4	Nikola Corp	5	NKLA	2.34	0.00	1.67	1.30	1	-0.37	1.66	4	1.66	0.10	-0.44	-0.15	2.19	1120.51	1.25
4	Cnh Industrial	5	CNHI	15.98	0.00	1.66	0.24	1	1.57	1.51	3	1.41	0.92	-0.09	1.80	2.19	21484.79	0.42
4	Rivian Automotv	5	RIVN	25.61	0.00	1.64	0.18	1	-0.37	1.63	2	0.97	0.68	0.74	-0.15	2.19	23585.68	0.09
5	Tellurian Inc	12	TELL	2.28	0.00	1.70	1.13	1	1.98	1.66	3	1.52	0.50	-0.66	0.86	1.58	1287.78	1.33
5	Consol Energy	12	CEIX	70.54	5.95	1.70	1.13	1	1.81	1.63	3	1.52	0.44	-0.76	0.69	1.58	2459.83	0.60
5	Bp Plc	12	BP	34.10	4.17	1.70	1.13	1	1.81	1.51	3	1.52	0.39	-0.87	0.69	1.58	105705.30	0.09

#### MOST ATTRACTIVE STOCKS FROM MOST ATTRACTIVE SECTORS

### LEAST ATTRACTIVE STOCKS FROM LEAST ATTRACTIVE SECTORS

							Behavioral	ABSOLUTE-SCALE METRICS				REL						
	COMPANY	SECTOR	TICKER	PRICE	YIELD	iPSCORE	Preference Factor	ABS DCOORD	TECH OUTLK	FUNDA OUTLK	REL DCOORD	rPSCORE	VTCAVG	VSCORE	TSCORE	CSCORE	МКТСАР	DAYS2TR
1	Southern Co	14	SO	71.03	3.83	-1.07	-0.34	16	0.45	-1.24	7	-2.20	-0.70	-1.28	0.18	-0.47	14200.30	0.37
1	Wec Energy Grp	14	WEC	97.87	2.97	-1.07	-0.34	16	0.45	-1.24	7	-2.20	-0.62	-1.07	0.18	-0.81	30871.58	0.18
1	Alliant Engy Cp	14	LNT	56.57	3.02	-1.04	-0.45	16	0.45	-1.24	7	-1.46	-0.14	-0.14	0.18	-0.81	77328.42	0.08
2	Icahn Enterpris	9	IEP	50.55	15.83	-0.97	1.08	15	-0.80	-0.97	8	-0.88	-1.29	-1.62	-0.87	0.00	199090.52	0.04
2	3M Co	9	MMM	126.85	4.70	-0.72	0.55	14	-1.38	-0.32	6	-0.67	-0.37	0.74	-1.16	-1.02	70115.44	0.08
2	Danaher Corp	9	DHR	273.49	0.37	-0.70	0.95	14	-1.09	0.14	4	-0.39	-1.50	-2.89	-0.58	-2.05	17059.31	0.92
3	Rayonier Inc	8	RYN	35.04	3.25	-1.19	-0.22	16	0.08	-0.78	7	-1.50	-0.47	-1.96	0.45	-0.74	2711.31	0.92
3	Louisiana Pac	8	LPX	64.95	1.35	-1.19	-0.85	16	0.23	-0.97	5	-1.42	-0.07	0.40	0.45	-0.74	4656.62	0.45
3	Kb Home	8	КВН	31.68	1.89	-1.17	-0.99	16	0.23	-1.05	5	-1.00	0.03	1.08	0.30	-0.74	5130.70	2.05
4	Six Flags Entmt	2	SIX	21.87	0.00	-1.23	-2.02	16	0.34	-0.97	1	-1.51	0.14	0.05	0.41	0.00	1818.63	0.71
4	Cedar Fair	2	FUN	40.45	2.97	-1.23	-2.02	16	0.07	-0.97	1	-1.51	0.10	0.21	0.14	0.00	2199.77	2.62
4	Fox Corp-A	2	FOXA	31.53	1.59	-1.23	-2.02	16	0.07	-0.78	1	-1.51	0.05	0.02	0.14	0.00	17111.13	0.35
5	Compass Minerls	6	CMP	43.92	1.37	-1.25	0.13	16	-1.35	-1.50	6	-1.93	-0.74	0.55	0.43	-0.68	88869.92	0.11
5	Rio Tinto-Adr	6	RIO	71.13	7.49	-1.25	-1.52	16	0.64	-1.01	5	-1.75	0.35	0.77	0.00	-0.68	17671.75	0.34
5	Wheaton Prc Mtl	6	WPM	39.10	1.53	-1.25	-1.52	16	0.21	-0.97	5	-1.75	0.15	0.70	-1.56	-1.69	1500.35	1.69

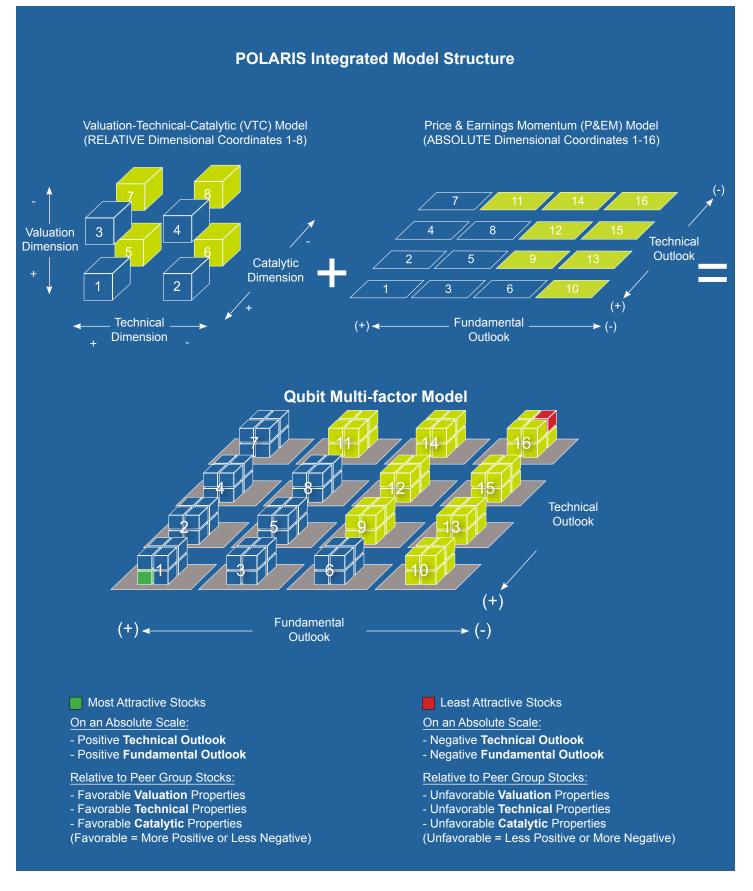


## **Description of Table 6 Report Headings**

iPSCORE	Composite multi-factor score based on integrated relative-scale and absolute-scale metrics. Positive (+) or negative (-) number indicates standard deviation units above or below peer group average.
Behavioral Preference	Behavioral preference factor for stock based on investor behavior pattern recognition. Positive (+) or negative (-) number indicates expected favor or disfavor towards stock expressed in standard deviation units.oup average.
ABS DCOORD	Absolute-scale dimensional coordinate (1-16) based on combined measures of fundamental outlook and technical outlook. for each stock. (1 = most attractive, 16 = least attractive)
TECH OUTLK	Technical outlook for stock based on proprietary price oscillator and money flow factors. Positive (+) or negative (-) number indicates standard deviation units above or below peer group average.
FUNDA OUTLK	Fundamental outlook for stock based on proprietary measure of earnings expectations. Positive (+) or negative (-) number indicates standard deviation units above or below peer group average.
REL DCOORD	Relative-scale dimensional coordinate (1-8) based on 3-dimensional positioning of stock indicated by valuation, technical and catalytic scores. Also used to determine qualitative characterizations of stocks
rPSCORE	Composite multi-factor score based on relative-scale valuation, technical and catalytic scores. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
VTCAVG	Sector-specific, optimally-weighted average of relative-scale valuation, technical and catalytic scores. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
VSCORE	Sector-specific composite score based on optimal combination of various VALUATION factors. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
TSCORE	Composite multi-factor score based on optimal combination of various TECHNICAL factors. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
CSCORE	Composite multi-factor score based on optimal combination of various CATALYTIC factors. Positive (+) or negative (-) number indicates standard deviation units above or below peer group median.
DAYS2TR	Days-to-Trade - A standardized liquidity measure indicating the number of trading days required to trade a \$25 million position at the average daily trading volume for the stock.



December 14, 2022





## Characterizations based on Relative-Scale Dimensional Coordinates

1	Cheap with Positive Catalytic and Positive Technical properties = "Ideal Overweight" Expensive with Negative Catalytic and Negative Technical properties = "Ideal Underweight"	Vitation Dimension + + + + + - - - - - - - - - - - - - -
2	Cheap with Positive Catalytic properties, but has Negative Technical properties = "Early/Late Value Stock" (has Timing Risk) Expensive with Negative Catalytic properties, but has Positive Technical properties = "Momentum Stock"	Validion Validion Validion + + + + + + - - - - - - - - - - - - -
3	Expensive but has Positive Catalytic and Positive Technical properties = "Timely Growth Stock" Cheap but has Negative Catalytic and Negative Technical properties = "Value Trap Stock"	Vitation Umaricin + + + - - - - - - - - - - - - -
4	Expensive with Positive Catalytic properties but has Negative Technical properties = "Early/Late Growth Stock" (has Timing Risk) Cheap with Negative Catalytic properties but has Positive Technical properties = "Mean Reversion Stock"	Velution Dimension + Technical + Dimension



### Brian T. Hannon, CFA Founder, Director of Quantitative Equity Research Qubit Research, LLC

With an academic background in engineering and economics, Brian Hannon began his career in the chemicals industry at the Dupont Company where he held various positions in research & development, project management, and corporate finance. An early indication of his innovative nature occurred while in R&D; as Brian was awarded a patent for his role in the development of a reverse osmosis process for purifying chemicals used in the production of semiconductor devices (Patent# 4,879,043: Manufacture of High Purity Hydrogen Peroxide by Using Reverse Osmosis").



Pursuing his interest in the stock market, Brian made the transition to the investment management profession as a research analyst covering chemicals industry companies at the DuPont Pension Fund. He subsequently joined ASB Capital Management where he originated the unique approach to structuring multi-factor models that Polaris is based on. Brian moved on to Macquarie Investments (formerly Delaware Investment Management) where he produced an exceptional track record while serving as a senior portfolio manager on the institutional large-cap value team. After Brian left Macquarie, he founded Qubit Investments, LLC to launch an equity market neutral fund. The fund utilized an updated version of the Polaris multi-factor model, integrated with a systematic portfolio construction algorithm that Brian developed. He later became the director of equity research at Sturdivant & Co. and then Quoin Capital, LLC, which was prior to his current role as founder of Qubit Research, LLC, an independent equity research boutique. Brian holds a BS degree in chemical engineering and a BS in economics from Carne-gie-Mellon University. He is also a CFA charter holder.

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