

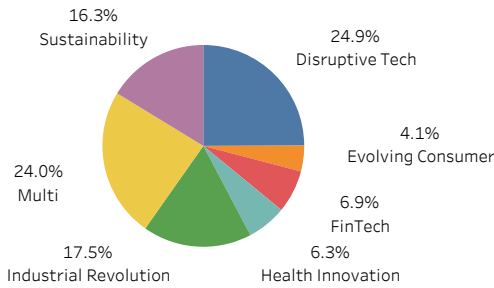


- The ETF All-Stars Thematic Composite Index added 6 companies and dropped 13 companies in the December rebalance bringing the total number of securities to 141
- Notable adds include AutoDesk Inc (ADSK) and Renewable Teradyne Inc (TER)
- NVIDIA (NVDA) and Tesla (TSLA) were both reduced back down to the maximum 5% weight while Enphase Energy (ENPH) was raised 84bps to just over 4% weight
- The Top 10 holdings represent 29.67% of the index

November Fund Launches

Ticker	Fund	Inception	Segment	Thematic Group	AUM	Expense Ratio
GBUY	Goldman Sachs Future Consumer Equity ETF	11/9/2021	Evolving Consumer	Broad-based	\$0M	75
GDOC	Goldman Sachs Future Health Care Equity ETF	11/9/2021	Health Innovation	Broad-based	\$12M	75
IBET	iBET Sports Betting and Gaming ETF	11/16/2021	Evolving Consumer	Casinos & Gaming	\$0M	79
TYNE	Direxion Nanotechnology ETF	11/23/2021	Disruptive Tech	Broad-based	\$2M	65

Thematic AUM Makeup



Changes to Thematic Segments

Segment	Change in # of Funds	Change in AUM
Disruptive Tech	1	(\$511M)
Evolving Consumer	1	(\$436M)
FinTech	0	(\$439M)
Health Innovation	1	(\$1,952M)
Industrial Revolution	0	\$773M
Multi	0	(\$2,168M)
Sustainability	0	(\$355M)
Grand Total	3	(\$5,088M)

30 Day Thematic Group Flows



*Excludes Broad Based thematic segments

Monthly Flow Leaders

Ticker	Fund	1 Mo	AUM
META	Roundhill Ball Metaverse ETF	\$630M	\$257M
LIT	Global X Lithium & Battery Tech ETF	\$443M	\$5,685M
CIBR	First Trust NASDAQ Cybersecurity ETF	\$231M	\$5,614M
DRIV	Global X Autonomous & Electric Vehicles ETF	\$180M	\$1,211M
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure I..	\$135M	\$667M

Monthly Flows Laggards

Ticker	Fund	1 Mo	AUM
ARKG	ARK Genomic Revolution ETF	(\$695M)	\$7,500M
ARKK	ARK Innovation ETF	(\$230M)	\$21,181M
ARKW	ARK Next Generation Internet ETF	(\$223M)	\$5,531M
TAN	Invesco Solar ETF	(\$222M)	\$4,015M
ARKF	ARK Fintech Innovation ETF	(\$188M)	\$3,397M

*Thematic landscape data is represented by ETF universe used for the ETF All-Stars Thematic Composite using the ETF Action Classification System. ETFs classified as Sub-asset class Equity>Thematic composite ETFs>Market U.S. or Global, ex-cannabis. Excludes inverse funds.**Flows delayed one day.



Adds

Ticker	Company	Sector	Industry	Country	New Weight
RBLX	Roblox Corp. Class A	Communication Services	Entertainment	United States	0.37%
ADSK	Autodesk, Inc.	Information Technology	Software	United States	0.27%
2330-TW	Taiwan Semiconductor Manufacturing Co., L.	Information Technology	Semiconductors & Semiconductor Equipment	Taiwan	0.24%
TER	Teradyne, Inc.	Information Technology	Semiconductors & Semiconductor Equipment	United States	0.23%
EXAS	Exact Sciences Corporation	Health Care	Biotechnology	United States	0.21%
DDOG	Datadog Inc Class A	Information Technology	Software	United States	0.21%

Drops

Ticker	Company	Sector	Industry	Country	Old Weight
Z	Zillow Group	Real Estate	Real Estate Management & Development	United States	0.26%
MARA	Marathon Digital Holdings	Information Technology	Software	United States	0.25%
SAIL	Sailpoint Technologies	Information Technology	Software	United States	0.21%
ILMN	Illumina Inc	Health Care	Life Sciences Tools & Services	United States	0.19%
AMT	American Tower Corporation	Real Estate	Equity Real Estate Investment Trusts (REITS)	United States	0.18%
TWOU	2U Inc	Consumer Discretionary	Diversified Consumer Services	United States	0.18%
COUP	Coupa Software Inc	Information Technology	Software	United States	0.18%
REGI	Renewable Energy Group	Energy	Oil Gas & Consumable Fuels	United States	0.18%
FSLY	Fastly Inc	Information Technology	IT Services	United States	0.17%
NVTA	Invitae Corp	Health Care	Biotechnology	United States	0.17%
ATVI	Activision Blizzard Inc	Communication Services	Entertainment	United States	0.16%
EVBG	Everbridge Inc	Information Technology	Software	United States	0.16%
KD	Kyndryl Holdings	Information Technology	IT Services	United States	0.01%

Largest Weight Changes

Ticker	Company	Sector	Industry	Country	Change (%)
ENPH	Enphase Energy, Inc.	Information Technology	Semiconductors & Semiconductor Equipment	United States	0.84%
MSFT	Microsoft Corporation	Information Technology	Software	United States	0.30%
FB	Meta Platforms Inc. Class A	Communication Services	Interactive Media & Services	United States	0.28%
TWLO	Twilio, Inc. Class A	Information Technology	IT Services	United States	0.23%
GOOGL	Alphabet Inc. Class A	Communication Services	Interactive Media & Services	United States	0.19%
PYPL	PayPal Holdings, Inc.	Information Technology	IT Services	United States	-0.14%
ALB	Albemarle Corporation	Materials	Chemicals	United States	-0.22%
ZS	Zscaler, Inc.	Information Technology	Software	United States	-0.27%
TSLA	Tesla Inc	Consumer Discretionary	Automobiles	United States	-0.31%
NVDA	NVIDIA Corporation	Information Technology	Semiconductors & Semiconductor Equipment	United States	-1.45%

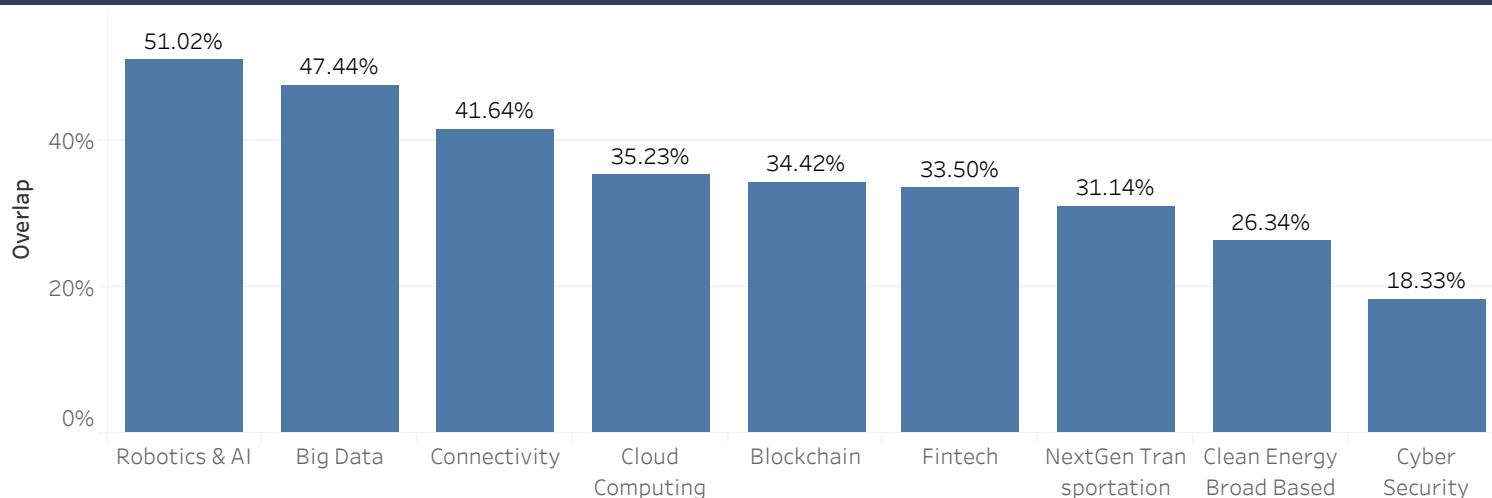
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Top 10 Holdings

Ticker	Country	Sector	Industry	Country	Weight
NVDA	NVIDIA Corporation	Information Technology	Semiconductors & Semiconductor Equipment	United States	5.00%
TSLA	Tesla Inc	Consumer Discretionary	Automobiles	United States	5.00%
ENPH	Enphase Energy, Inc.	Information Technology	Semiconductors & Semiconductor Equipment	United States	4.03%
SQ	Square, Inc. Class A	Information Technology	IT Services	United States	2.72%
SEDG	SolarEdge Technologies, Inc.	Information Technology	Semiconductors & Semiconductor Equipment	Israel	2.57%
GOOGL	Alphabet Inc. Class A	Communication Services	Interactive Media & Services	United States	2.50%
AMZN	Amazon.com, Inc.	Consumer Discretionary	Internet & Direct Marketing Retail	United States	2.18%
MSFT	Microsoft Corporation	Information Technology	Software	United States	2.05%
SHOP	Shopify, Inc. Class A	Information Technology	IT Services	Canada	1.87%
COIN	Coinbase Global, Inc. Class A	Financials	Capital Markets	United States	1.75%

All-Stars Aggregate Exposure by Select Thematic ETFs*



*Aggregate exposure is the sum of all companies held within the Thematic All-Stars Composite Index that are also held in select ETFs that represent individual thematic segments

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