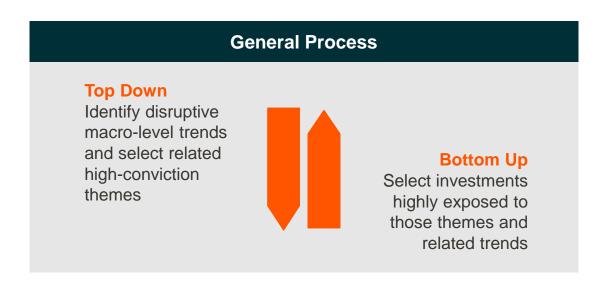


## **Thematic Investing:** Harnessing Disruption in Portfolios

Thematic Investing brings a rigorous and research-driven approach to harnessing structural changes around the world. It seeks to identify powerful macro-level trends and the companies that stand to benefit from the materialization of those trends.



#### **Characteristics**

- Long-term, growth-focused strategies
- Unconstrained by geographies & sectors
- Concentrated, often in tech & new consumer
- Relatable concepts that impact our daily lives

For Informational Purposes Only



## Defining & Categorizing Themes: Global X's Classification System

Category Mega-Theme Theme Sub-Theme

	Disruptive Techr Machine/Deep Learning						
	Cybersecurity						
Big Data	Quantum Computing						
	Cloud/Edge Computing, MarTech	Remote Work					
	Autonomous Vehicles						
Mobility	Electric Vehicles, Charging Infrastructure	Lithium Batteries					
	AR/VR						
Digital	Video Games	E-sports					
Experiences	Social Media						
	Streaming						
	Mobile Payments						
FinTech	Peer-to-Peer Lending						
rincen	Crowdfunding						
	Blockchain						
	Digital Infrastructure						
	5G/Next Gen Networking						
Connectivity	Emerging Markets Internet						
	Internet of Things	Smart Devices/ Smart Cities IoT					
	Space/Satellite Communica	tions					
	Al/Automation						
Robotics	3D Printing						
Drones							

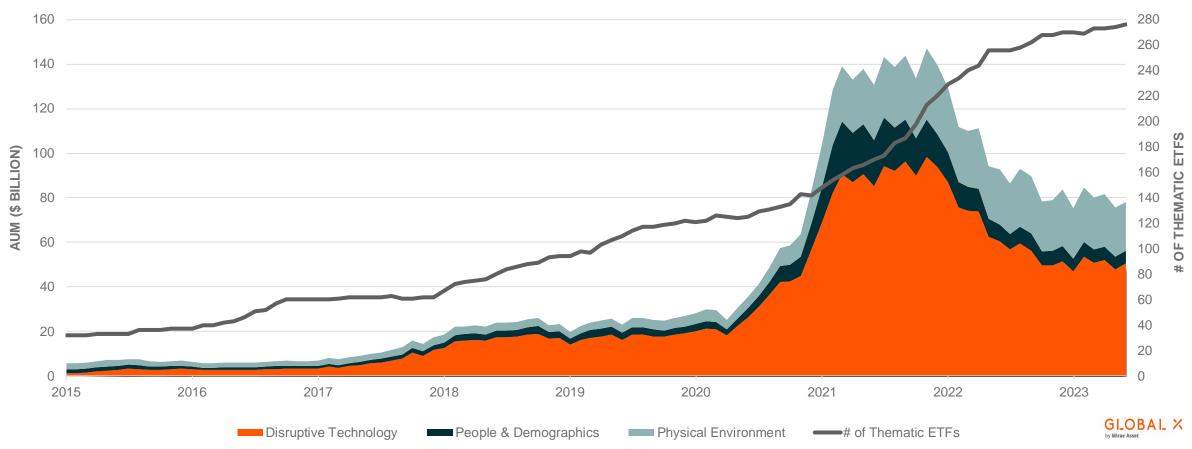
	People & Demo	graphics
	Millennials & Gen Z	
	Emerging Market Consu	mers
	E-Commerce	
New	Education	
Consumers	Sharing/Gig Economy	
Consumers	Safety and Security	
	Cannabis	
	Sports Betting	
	Professional Sports	
	Urbanization	
	Healthcare Innovaton	Telemedicine & Digital Health, Genomics, Immunotherapy, Public Health
Health	Aging Population	Senior Care, Senior Economy
	Health & Wellness	Obesity, Organics
	Emerging Markets Healthcare	
	Alternative Medicine	

	Physical Environ	ment
	Cleantech	
Climate Change	Cleantech Clean & Renewable Energy Resource Scarcity Green Building	Solar, Wind, Hydrogen
Change	Resource Scarcity	Water, Waste/Recycling, Sustainable Food
	Green Building	
Disruptive Materials		
Infrastructure Development		



## Thematic ETF Landscape

At the end of May 2023, there were 276 thematic ETFs totaling \$78.0 billion in assets under management (AUM), up +2.9% from April 2023 and down -15.8% from the same month last year.



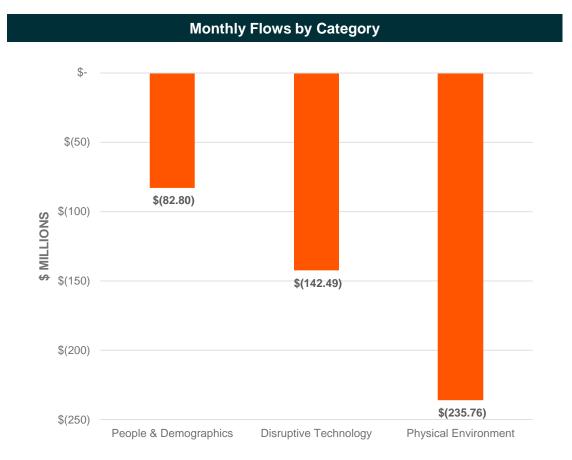
Sources: Global X ETFs with information derived from: Bloomberg, L.P. (n.d.) [Data set]. Data as of May 31, 2023. Note: AUM includes assets of funds closed until the last month of trading activity.



### Thematic ETF Landscape: AUM & Flows

In the month of May, there was an increase in AUM for Disruptive Technology and a decrease in the Physical Environment and People & Demographic Categories. All the Categories experienced outflows during the month.





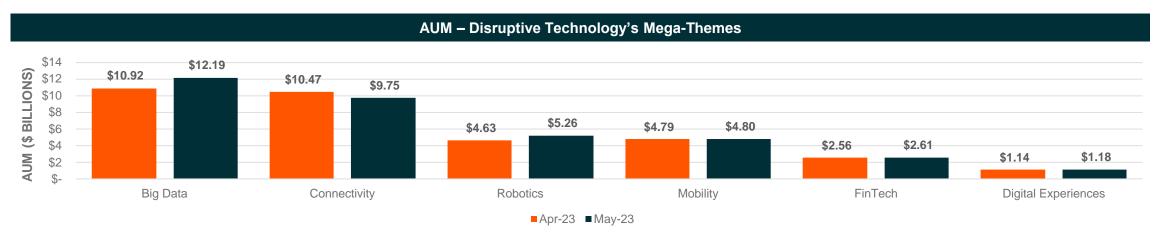
Source: Global X ETFs, Bloomberg. As of May 31, 2023.

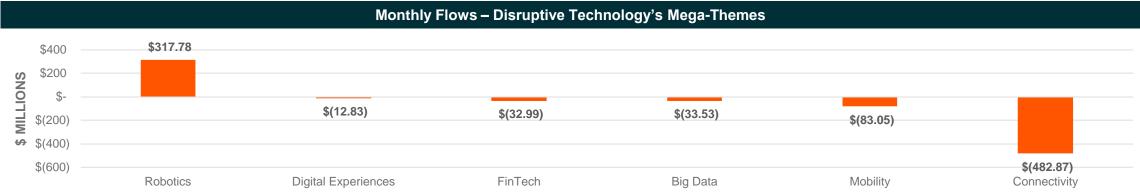
Note: AUM includes assets of funds closed until the last month of trading activity.



### Thematic ETF Landscape: AUM & Flows

Most of the Mega-Themes related to Disruptive Technology experienced an increase in their AUM throughout the month, with the exception of Connectivity, which also had the highest outflows in May (-\$482.9 million).





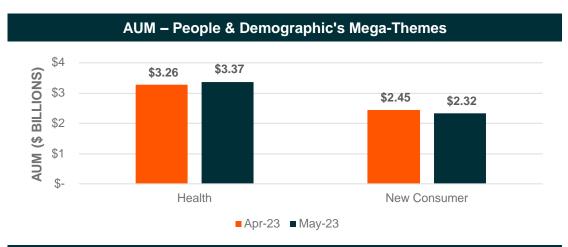
Source: Global X ETFs, Bloomberg. As of May 31, 2023.

Note: Mega-Themes may or may not add up to the Category AUM given that some ETFs considered are broad and are only classified by its Category.

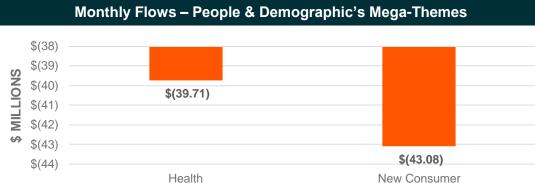


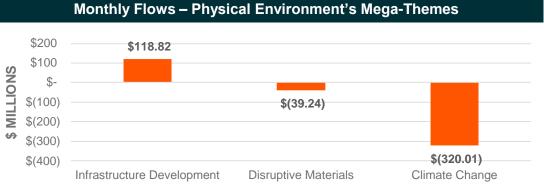
#### Thematic ETF Landscape: AUM & Flows

Stability in AUM was observed in the People & Demographics and Physical Environment Categories. In the former, outflows were observed in both Mega-Themes, while in the latter, inflows were seen in Infrastructure Development (+\$118.8 million).









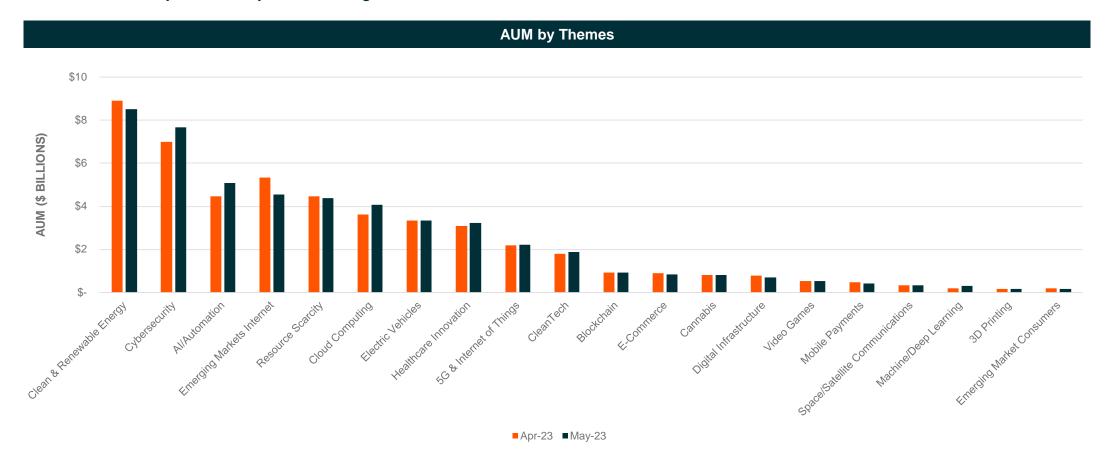
Source: Global X ETFs, Bloomberg. As of May 31, 2023.

Note: Mega-Themes may or may not add up to the Category AUM given that some ETFs considered are broad and are only classified by its Category.



## Thematic ETF Landscape: AUM by Theme

On a theme level, Cybersecurity saw the largest increases in AUM in absolute terms.



Source: Global X ETFs, Bloomberg. As of May 31, 2023.

Note: Themes may or may not add up to the Mega-Themes AUM given that some ETFs considered are broad and are only classified by its Mega-Theme.



## May 2023 Thematic ETFs Recap

#### Top/Bottom AUM by %∆

Ticker	Name	May-23	Apr-23	%∆
WTAI	WisdomTree Artfcl Intllgnc & Innvtn ETF	\$58.81	\$12.00	390%
AIQ	Global X Artificial Intelligence & Tehnology ETF	\$219.74	\$137.97	59%
BLLD	JPMorgan Sustainable Infrastructure ETF	\$14.86	\$10.75	38%
ROBT	First Trust Nasdaq Artificial Intelligence and Robotics ETF	\$304.97	\$233.53	31%
THNQ	ROBO Global® Artificial Intelligence ETF	\$31.34	\$25.02	25%
ECON	Columbia Emerging Markets Consumer ETF	\$67.85	\$82.47	-18%
ANEW	MSCI Transformational Changes ETF	\$10.46	\$13.91	-25%
BFIT	Global X Health & Wellness Thematic ETF	\$16.07	\$21.69	-26%
AGNG	Global X Longevity Thematic ETF	\$47.30	\$65.23	-27%
KEMQ	KraneShares Emerging Markets Consumer Technology Index ETF	\$12.49	\$29.29	-57%

Source: Global X ETFs, Bloomberg. As of May 31, 2023.

Note: Top/bottom ETFs by %∆ are limited to those that started April 2023 with AUM > \$10M and excludes fund closures

#### Top/Bottom AUM by \$Δ (in millions)

Ticker	Name	May-23	Apr-23	\$Δ
ARKK	ARK Innovation ETF	\$7,704.45	\$6,713.96	\$990
BOTZ	Global X Robotics & Artificial Intelligence ETF	\$2,115.75	\$1,704.21	\$412
CIBR	First Trust NASDAQ Cybersecurity ETF	\$4,819.56	\$4,449.81	\$370
SKYY	First Trust Cloud Computing ETF	\$2,749.26	\$2,425.18	\$324
XT	iShares Exponential Technologies ETF	\$3,230.99	\$3,076.83	\$154
IFRA	iShares U.S. Infrastructure ETF	\$1,734.18	\$1,786.69	-\$53
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	\$625.56	\$707.97	-\$82
TAN	Invesco Solar ETF	\$2,033.74	\$2,168.15	-\$134
ICLN	iShares Global Clean Energy ETF	\$4,335.51	\$4,573.36	-\$238
KWEB	KraneShares CSI China Internet ETF	\$4,540.31	\$5,347.99	-\$808



## May 2023 Thematic ETFs Recap

Strategies related to Artificial Intelligence were the common denominator when it comes to inflows, while there is greater themes-diversification in terms of outflows.

#### Top/Bottom MoM Flows by \$Δ (in millions)

Ticker	Name	MoM Flows (\$M)
BOTZ	Global X Robotics & Artificial Intelligence ETF	\$234.82
ARKK	ARK Innovation ETF	\$130.09
PAVE	Global X U.S. Infrastructure Development ETF	\$113.82
AIQ	Global X Artificial Intelligence & Tehnology ETF	\$65.04
ROBT	First Trust Nasdaq Artificial Intelligence and Robotics ETF	\$50.71
LIT	Global X Lithium & Battery Tech ETF	-\$49.57
TAN	Invesco Solar ETF	-\$73.45
CIBR	First Trust NASDAQ Cybersecurity ETF	-\$113.29
ICLN	iShares Global Clean Energy ETF	-\$154.07
KWEB	KraneShares CSI China Internet ETF	-\$350.09

Source: Global X ETFs, Bloomberg. As of May 31, 2023.

Note: Top/bottom ETFs by \$△ are limited to those that started April 2023 with AUM > \$10M and excludes fund closures



## May 2023 Thematic ETF Launches/Closures

Five new thematic ETFs were launched in May. Additionally, two thematic ETFs were delisted during this period.

#### Thematic ETF Launches

Ticker	Name	Issuer	Inception Date
CLIA	Veridien Climate Action ETF	Veridien	05/08/2023
RSHO	Tema American Reshoring ETF	Tema Global	05/11/2023
LUX	Tema Luxury ETF	Tema Global	05/11/2023
BKIV	BNY Mellon Innovators ETF	BNY Mellon	05/17/2023
CHAT	Roundhill Generative AI & Technology ETF	Roundhill	05/18/2023

Source: Global X ETFs, Bloomberg. As of May 31, 2023.

#### Thematic ETF Closures

Ticker	Name	Issuer	Closure Date
DAM	VanEck Digital Assets Mining ETF	VanEck	05/01/2023
SUBS	Fount Subscriptions Economy ETF	Exchange Traded Concepts	05/26/2023

Source: Global X ETFs, Bloomberg. As of May 31, 2023.





The Global X Thematic Classification System is based on the expertise, views, and opinions of the Global X Thematic Classification Committee and are subject to change.

Global X defines thematic investing as the process of identifying powerful disruptive macro-level trends and the underlying investments that stand to benefit from the materialization of those trends. By nature, thematic investing is a long term, growth-oriented strategy, that is typically unconstrained geographically or by traditional sector/industry classifications, has low correlation to other growth strategies, and invests in relatable concepts.

The process of identifying themes consists of three inexorable principles:

- 1) There must be high conviction that the theme will materialize and have a meaningful impact on segments of the economy or markets. Often this is due to observable structural changes in technology, demographics, consumer behavior, or the physical environment, but can also be influenced by other factors.
- 2) A theme must be investable, meaning there are publicly traded companies that provide exposure to the concept. Ideally, the group of companies is broad, have high liquidity, and attribute a substantial portion of their business operations (revenues, assets, research & development) to the theme.
- 3) A theme must be expected to express itself over a medium to long-term time horizon, generally considered to be five years or longer. A longer-term time horizon makes market timing less of a factor in the success of identifying a theme.

Notably, and taking into consideration the principles above, thematic investing does not consist of ESG, values-based, or policy-driven strategies, unless they otherwise represent a disruptive structural trend (e.g. climate change). Further, funds that adhere to traditional sector or industry classifications, or that are used primarily to gain exposure to cyclical trends (e.g. currencies, valuations, inflation) are not considered thematic. Finally, alternative asset classes, such as listed infrastructure, MLPs, and ubiquitous commodities are not considered thematic. We recognize that these exclusions may differ from other third-party definitions of thematic investing, but it is consistent with, and core to, Global X's thematic classification system and process.

Based on the definition and principles of thematic investing above, Global X has established a thematic classification system that seeks to identify powerful themes and organize them by common traits and drivers. The system consists of four layers of classifications: 1) Categories; 2) Mega-Themes; and 4) Sub-Themes, with each layer becoming sequentially narrower in its focus.

'Categories' is the broadest layer and represents three fundamental drivers of disruption: exponential advancements in technology (Disruptive Technology), changing consumer habits and demographics (People & Demographics), and the evolving physical landscape (Physical Environment). One layer down are 'Mega-Themes,' which serve as a foundation to multiple transformative forces that are causing substantial changes in a common area. Conceptually, Mega-Themes are a collection of more narrowly targeted Themes. For example, Big Data is a Mega-Theme that consists of Machine/Deep Learning, Cybersecurity, Quantum Computing, and Cloud/Edge Computing. Further down, we identify 'Themes' as the specific areas of transformational disruption that are driving technology forward, changing consumer demands, or impacting the environment. 'Sub-Themes' are more niche areas, such as specific applications of themes or upstream forces that are driving themes forward.

The number and categories, mega-themes, themes, and sub-themes is expected to evolve over time as new drivers of structural changes emerge or fade. Such decisions will be made by the Global X Thematic Classification Committee ("the committee") and take into account internal and external research and data about potential themes.



The ETF industry consists of many funds seeking to provide exposure to categories, mega-themes, or sub-themes identified within the thematic classification system. The Global X Thematic Classification Committee first evaluates the entire universe of US-listed ETFs to identify which qualify as thematic ETFs, based on Global X's definition of thematic investing and the stated objectives, methodology, and holdings of each ETF. Next, the committee identifies the best fit for each thematic ETF within the classification system, by further analyzing a fund's methodology, holdings, and stated objectives. When a new ETF launches or an existing ETF changes its strategy, its classification is evaluated promptly by the committee, and any changes are published in the next monthly Thematic ETF Report.

While occasionally an ETF may engage in multiple mega-themes, themes, or sub-themes, its classification is determined based on the definition that most closely describes the true nature of the ETF.

While an ETF may be classified within a certain category, mega-theme, or sub-theme, Global X does not give any assurances that the ETF provides good and accurate exposure to the specific theme it is targeting. For example, an ETF may target a particular theme, but have very broad exposure, including firms that have low relevance or economic exposure to the specified theme.

The thematic classification system is reviewed monthly by the Global X Thematic Classification committee to consider new potential categories, mega-themes, themes, or sub-themes. Changes in the classification will be announced at the time of release of the following monthly Thematic ETF Report.

As a new ETF launches or changes its strategy, its classification is evaluated promptly by the committee, and published at the time of release of the Thematic ETF Report. In the case of change in an ETF strategy/methodology, holdings, or stated objectives, the thematic classification system will promptly incorporate or drop the ETF in regards into its respective classification, maintaining the history of assets under management (AUM) of the Fund.

These materials have been prepared solely for informational purposes based upon information generally available to the public and from sources believed to be reliable. The completeness of the Global X Thematic ETF Report is done on a best efforts basis at the point in time with the data available to Global X as of the time of its publication. The inclusion of a Fund in this framework reflects the view of Global X alone. Global X makes no guarantee that this framework is complete nor inclusive of all ETFs in their view of their respective issuer.

Global X accepts requests for reviews or appeals for any ETFs. Please contact Global X at research@globalxetfs.com, and the appeal will be considered in a timely manner. There are no guarantees that an appeal will result in a change in the ETF's classification.

The Thematic ETF Report, including its thematic classification system, fall under the supervision of the Global X Thematic Classification committee. This committee consists of members from Global X's research and product teams who have extensive knowledge and familiarity with thematic investing and the ETF industry. The objective of the committee is to ensure, in a best efforts basis, a definition, classification, and identification of the universe of thematic ETFs. The committee meets at least monthly to review the classification system, as well as on an ad-hoc basis to review new ETF launches or ETFs that change their strategy.



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For more information on Global X, please contact research@globalxetfs.com. For access to Global X Thematic Classification System – Methodology please click here.

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# GLOBAL X by Mirae Asset

## Appendix

Ticker	Name	May 2023 (\$M)	Apr 2023 (\$M)	MoM Flows (\$M)	Category	Mega-Theme	Theme	Sub-Theme
MRAD	Advertising and Marketing Technology ETF	\$1.15	\$1.11	\$0.00	Disruptive Technology	Big Data	Cloud Computing	MarTech
WFH	Direxion Work From Home ETF	\$31.43	\$28.72	-\$1.14	Disruptive Technology	Big Data	Cloud Computing	Remote Work
SKYY	First Trust Cloud Computing ETF	\$2,749.26	\$2,425.18	-\$25.36	Disruptive Technology	Big Data	Cloud Computing	
WCLD	WisdomTree Cloud Computing Fund	\$668.66	\$590.02	-\$6.38	Disruptive Technology	Big Data	Cloud Computing	
CLOU	Global X Cloud Computing ETF	\$556.62	\$518.68	-\$16.33	Disruptive Technology	Big Data	Cloud Computing	
IWFH	iShares Virtual Work and Life Multisector ETF	\$2.84	\$2.81	\$0.00	Disruptive Technology	Big Data	Cloud Computing	
FCLD	Fidelity Cloud Computing ETF	\$27.82	\$24.40	\$0.00	Disruptive Technology	Big Data	Cloud Computing	
IVES	Wedbush ETFMG Global Cloud Technology ETF	\$22.00	\$21.58	-\$1.58	Disruptive Technology	Big Data	Cloud Computing	
BUG	Global X Cybersecurity ETF	\$784.98	\$657.81	\$31.41	Disruptive Technology	Big Data	Cybersecurity	
HACK	ETFMG Prime Cyber Security ETF	\$1,445.08	\$1,339.52	-\$25.10	Disruptive Technology	Big Data	Cybersecurity	
IHAK	iShares Cybersecurity and Tech ETF	\$564.06	\$508.27	\$0.18	Disruptive Technology	Big Data	Cybersecurity	
CIBR	First Trust NASDAQ Cybersecurity ETF	\$4,819.56	\$4,449.81	-\$113.29	Disruptive Technology	Big Data	Cybersecurity	
WCBR	WisdomTree Cybersecurity ETF	\$32.09	\$27.07	\$0.00	Disruptive Technology	Big Data	Cybersecurity	
FITE	SPDR Kensho Future Security ETF	\$29.37	\$27.45	\$0.00	Disruptive Technology	Big Data	Cybersecurity	
WTAI	WisdomTree Artfcl Intllgnc & Innvtn ETF	\$58.81	\$12.00	\$43.80	Disruptive Technology	Big Data	Machine/Deep Learning	
QTUM	Defiance Quantum ETF	\$139.34	\$115.47	\$11.89	Disruptive Technology	Big Data	Quantum Computing	
AIQ	Global X Artificial Intelligence & Tehnology ETF	\$219.74	\$137.97	\$65.04	Disruptive Technology	Big Data	Machine/Deep Learning	
THNQ	ROBO Global® Artificial Intelligence ETF	\$31.34	\$25.02	\$3.33	Disruptive Technology	Big Data	Machine/Deep Learning	
XDAT	Franklin Exponential Data ETF	\$3.62	\$3.24	\$0.00	Disruptive Technology	Big Data		
DAT	ProShares Big Data Refineres ETF	\$2.69	\$2.32	\$0.00	Disruptive Technology	Big Data		
TRFK	Pacer Data and Digital Revolution ETF	\$1.17	\$1.01	\$0.00	Disruptive Technology	Big Data		
WBAT	WisdomTree Battery Val Chn & Innvt ETF	\$4.96	\$5.04	\$0.00	Disruptive Technology	Mobility	Electric Vehicles	Lithium/Batteries
ZSB	USCF Sustainable Battery Metals Stgy Fd	\$2.11	\$2.19	\$0.00	Disruptive Technology	Mobility	Electric Vehicles	Lithium/Batteries
BATT	Amplify Advanced Battery Metals and Materials ETF	\$143.99	\$152.29	-\$6.79	Disruptive Technology	Mobility	Electric Vehicles	Lithium/Batteries
LITP	Sprott Lithium Miners ETF	\$3.31	\$4.86	-\$2.04	Disruptive Technology	Mobility	Electric Vehicles	Lithium/Batteries
LIT	Global X Lithium & Battery Tech ETF	\$3,132.92	\$3,129.87	-\$49.57	Disruptive Technology	Mobility	Electric Vehicles	Lithium/Batteries
FDRV	Fidelity Electric Vehicles and Future Transportation ETF	\$49.63	\$47.13	\$0.00	Disruptive Technology	Mobility	Electric Vehicles	
DRIV	Global X Autonomous & Electric Vehicles ETF	\$820.26	\$798.69	-\$17.19	Disruptive Technology	Mobility		
CLNR	IQ Cleaner Transport	\$6.43	\$6.19	\$0.00	Disruptive Technology	Mobility		
мото	The SmartETFs Smart Transportation & Technology ETF	\$11.95	\$11.50	\$0.00	Disruptive Technology	Mobility		



Ticker	Name	May 2023 (\$M)	Apr 2023 (\$M)	MoM Flows (\$M)	Category	Mega-Theme	Theme	Sub-Theme
KARS	KraneShares Electric Vehicles and Future Mobility Index ETF	\$170.86	\$174.49	-\$2.86	Disruptive Technology	Mobility	THEME	ous meme
VCAR	Simplify Volt RoboCar Disruption ETF	\$3.58	\$3.06	\$0.00	Disruptive Technology	Mobility		
HAIL	SPDR Kensho Smart Mobility ETF	\$49.82	\$48.52	-\$0.87	Disruptive Technology	Mobility		
IDRV	iShares Self-Driving EV and Tech ETF	\$401.65	\$401.37	-\$3.71	Disruptive Technology	Mobility		
SOCL	Global X Social Media ETF	\$139.21	\$138.52	-\$0.29	Disruptive Technology	Digltal Experiences	Social Media	
OND	ProShares On-Demand ETF	\$0.55	\$0.54	\$0.00	Disruptive Technology	DigItal Experiences	Streaming	
HERO	Global X Video Games & Esports ETF	\$166.41	\$174.84	-\$4.46	Disruptive Technology	DigItal Experiences	Video Games	Esports
ESPO	Video Gaming and eSports ETF	\$284.03	\$275.12	\$0.00	Disruptive Technology	DigItal Experiences	Video Games	Esports
NERD	Roundhill BITKRAFT Esports & Digital Entertainment ETF	\$25.15	\$25.38	\$0.00	Disruptive Technology	DigItal Experiences	Video Games	Esports
BNGE	First Trust S-Network Strmng & Gmng ETF	\$4.15	\$4.10	\$0.00	Disruptive Technology	Digltal Experiences	Video Games	
GAMR	ETFMG Video Game Tech ETF	\$47.36	\$51.06	-\$2.96	Disruptive Technology	DigItal Experiences	Video Games	
MTVR	Fount Metaverse ETF	\$4.54	\$4.51	\$0.00	Disruptive Technology	DigItal Experiences		
METV	Roundhill Ball Metaverse ETF	\$472.00	\$431.16	-\$5.12	Disruptive Technology	DigItal Experiences		
IVRS	iShares Future Metaverse Tec And Com ETF	\$5.60	\$5.24	\$0.00	Disruptive Technology	DigItal Experiences		
PUNK	Subversive Metaverse ETF	\$0.91	\$0.89	\$0.00	Disruptive Technology	DigItal Experiences		
FMET	Fidelity Metaverse ETF	\$15.00	\$14.00	\$0.00	Disruptive Technology	Digital Experiences		
ARVR	First Trust Indxx Metaverse ETF	\$1.48	\$1.40	\$0.00	Disruptive Technology	Digital Experiences		
VR	Global X Metaverse ETF	\$2.36	\$2.24	\$0.00	Disruptive Technology	Digital Experiences		
ODDS	Pacer BlueStar Digital Entertainment ETF	\$0.79	\$0.79	\$0.00	Disruptive Technology	Digital Experiences		
VERS	ProShares Metaverse ETF	\$6.20	\$5.47	\$0.00	Disruptive Technology	DigItal Experiences		
вксн	Global X Blockchain ETF	\$70.36	\$65.77	-\$1.35	Disruptive Technology	FinTech	Blockchain	
SATO	Invesco Alerian Galaxy Crypto Economy ETF	\$3.77	\$3.57	\$0.00	Disruptive Technology	FinTech	Blockchain	
BLKC	Invesco Alerian Galaxy Blockchain Users and Decentralized Commerce ETF	\$2.33	\$2.30	\$0.00	Disruptive Technology	FinTech	Blockchain	
DAPP	VanEck Vectors Digital Transformation ETF	\$37.01	\$33.20	\$0.54	Disruptive Technology	FinTech	Blockchain	
BITQ	Bitwise Crypto Industry Innovators ETF	\$75.37	\$67.96	\$0.77	Disruptive Technology	FinTech	Blockchain	
KOIN	Innovation Shares NextGen Protocol ETF	\$13.47	\$13.63	\$0.00	Disruptive Technology	FinTech	Blockchain	
BLOK	Amplify Transformational Data Sharing ETF	\$459.15	\$460.80	-\$5.78	Disruptive Technology	FinTech	Blockchain	
LEGR	First Trust Indxx Innovative Transaction & Process ETF	\$114.95	\$116.04	-\$0.01	Disruptive Technology	FinTech	Blockchain	
BLCN	Reality Shares Nasdaq NexGen Economy ETF	\$73.31	\$79.05	-\$4.71	Disruptive Technology	FinTech	Blockchain	
WGMI	Valkyrie Bitcoin Miners ETF	\$9.90	\$9.47	\$0.00	Disruptive Technology	FinTech	Blockchain	



Ticker	Name	May 2023 (\$M)	Apr 2023 (\$M)	MoM Flows (\$M)	Category	Mega-Theme	Theme	Sub-Theme
CRPT	First Trust SkyBridge Crypto Industry and Digital Economy ETF	\$17.40	\$17.04	\$0.00	Disruptive Technology	FinTech	Blockchain	
FDIG	Fidelity Crypto Industry & Digital Payments ETF	\$32.46	\$28.66	\$0.00	Disruptive Technology	FinTech	Blockchain	
IBLC	iShares Blockchain and Tech ETF	\$7.20	\$6.74	\$0.00	Disruptive Technology	FinTech	Blockchain	
STCE	Schwab Crypto Thematic ETF	\$11.23	\$10.78	\$0.00	Disruptive Technology	FinTech	Blockchain	
BCDF	Horizon Kinetics Blockchain Dev ETF	\$2.62	\$2.61	\$0.00	Disruptive Technology	FinTech	Blockchain	
BWEB	Bitwise Web3 ETF	\$0.76	\$0.68	\$0.00	Disruptive Technology	FinTech	Blockchain	
IPAY	ETFMG Prime Mobile Payments ETF	\$423.56	\$457.66	-\$16.42	Disruptive Technology	FinTech	Mobile Payments	
GFOF	Grayscale Future of Finance ETF	\$4.87	\$4.77	\$0.00	Disruptive Technology	FinTech		
FINX	Global X FinTech ETF	\$374.71	\$399.82	-\$22.71	Disruptive Technology	FinTech		
ARKF	Fintech Innovation ETF	\$865.20	\$771.83	\$16.69	Disruptive Technology	FinTech		
BIDS	Amplify Digital and Online Trading ETF	\$0.34	\$0.35	\$0.00	Disruptive Technology	FinTech		
EMFQ	Amplify Emerging Market FinTech ETF	\$2.06	\$2.08	\$0.00	Disruptive Technology	FinTech		
BPAY	BlackRock Future Financial and Tech ETF	\$3.87	\$3.96	\$0.00	Disruptive Technology	FinTech		
VPN	Global X Data Center REITs & Digital Infrastructure ETF	\$29.46	\$29.62	-\$0.78	Disruptive Technology	Connectivity	Digital Infrastructure	
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	\$625.56	\$707.97	-\$48.34	Disruptive Technology	Connectivity	Digital Infrastructure	
GREI	Goldman Sachs FT RL Estt & Infrs Eq ETF	\$23.52	\$24.71	\$0.00	Disruptive Technology	Connectivity	Digital Infrastructure	
BYTE	Roundhill IO Digital Infrastructure ETF	\$2.63	\$2.89	\$0.00	Disruptive Technology	Connectivity	Digital Infrastructure	
WTRE	WisdomTree New Economy Real Estate Fund ETF	\$23.21	\$25.86	-\$1.65	Disruptive Technology	Connectivity	Digital Infrastructure	
KFVG	KraneShares CICC China 5G and Technology leaders Index ETF	\$13.62	\$14.15	\$0.00	Disruptive Technology	Connectivity	5G & Internet of Things	
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	\$765.29	\$729.33	\$24.12	Disruptive Technology	Connectivity	5G & Internet of Things	Smart Cities
SIMS	SPDR Kensho Intelligent Structure ETF	\$22.42	\$24.35	-\$2.67	Disruptive Technology	Connectivity	5G & Internet of Things	Smart Cities
FIVG	Defiance Next Gen Connectivity ETF	\$637.24	\$648.65	-\$40.38	Disruptive Technology	Connectivity	5G & Internet of Things	
NXTG	First Trust Indxx NextG ETF	\$431.75	\$424.48	-\$3.36	Disruptive Technology	Connectivity	5G & Internet of Things	
WUGI	Esoterica NextG Economy ETF	\$20.05	\$16.86	\$0.00	Disruptive Technology	Connectivity	5G & Internet of Things	
SNSR	Global X Internet of Things ETF	\$310.84	\$326.84	-\$30.12	Disruptive Technology	Connectivity	5G & Internet of Things	
KWEB	KraneShares CSI China Internet ETF	\$4,540.31	\$5,347.99	-\$350.09	Disruptive Technology	Connectivity	Emerging Markets Internet	
ROKT	SPDR Kensho Final Frontiers ETF	\$16.69	\$17.02	-\$0.41	Disruptive Technology	Connectivity	Space/Satellite Communications	
UFO	Procure Space ETF	\$47.60	\$47.96	-\$1.40	Disruptive Technology	Connectivity	Space/Satellite Communications	
ARKX	Ark Space Exploration	\$265.75	\$264.00	-\$2.71	Disruptive Technology	Connectivity	Space/Satellite Communications	
PNQI	Invesco NASDAQ Internet ETF	\$542.97	\$528.28	-\$10.25	Disruptive Technology	Connectivity		



ARK Net Generation Internet ETF \$124.57 \$1.14.52 \$1.36 Disappive Technology Connectivity    ARK Net Generation Internet ETF   \$14.00 \$18.05 \$1.08   \$18.04   \$2.83 Disappive Technology Connectivity   OGIG   ALPS Oshares (libed Internet Gients ETF   \$14.00 \$18.04   \$2.83 Disappive Technology Connectivity   3D Printing ETF   \$18.61 \$172.72   \$2.16 Disappive Technology Robotics   3D Printing   3									
SPDR SAP Internet ETF	Ticker	Name	May 2023 (\$M)	Apr 2023 (\$M)	MoM Flows (\$M)	Category	Mega-Theme	Theme	Sub-Theme
APS OShares Global Internet Glants ETF			1 , 1 -	* / -	,	1 07			
PRINT   String FF	XWEB		\$21.08	\$19.95	-\$0.66	Disruptive Technology	Connectivity		
ARKA Altonomous Technology & Robotics ETF	OGIG	ALPS OShares Global Internet Giants ETF	\$145.00	\$130.41	-\$2.83	Disruptive Technology	Connectivity		
Size	PRNT	3D Printing ETF	\$168.61	\$172.72	-\$2.16	Disruptive Technology	Robotics	3D Printing	
ROBO         ROBO Global Robotics and Automation Index ETF         \$1,378.97         \$1,388.35         \$8.49         Disruptive Technology         Robotics         Al/Automation           ROBT         First Trust Nasdag Artificial Intelligence and Robotics ETF         \$304.97         \$233.53         \$50.71         Disruptive Technology         Robotics         Al/Automation           IRBO         Share Robotics and Autificial Intelligence DETF         \$338.09         \$303.80         \$50.00         Disruptive Technology         Robotics         Al/Automation           IGM         Franklin Intelligent Machines ETF         \$11.53         \$8.45         \$2.31         Disruptive Technology         Robotics         Al/Automation           IGM         FroShares SaP Kensho Smart Factories ETF         \$18.2         \$1.73         \$0.00         Disruptive Technology         Robotics         Al/Automation           IGM         VarSek Robotics ETF         \$1.82         \$1.73         \$0.00         Disruptive Technology         Robotics         Al/Automation           IAV         Advisor/Shares Drone Technology ETF         \$0.63         \$0.52         \$0.10         Disruptive Technology         Robotics         Drones           BILLD         Pacer Blues/Star Engineering the Future ETF         \$1.65         \$1.57         \$0.00         Disruptive Techn	ARKQ	ARK Autonomous Technology & Robotics ETF	\$934.66	\$864.20	\$4.67	Disruptive Technology	Robotics	Al/Automation	
First Trust Nasdaq Artificial Intelligence and Robotics ETF   \$304.97   \$233.53   \$50.71   Disruptive Technology   Robotics   Al/Automation	BOTZ	Global X Robotics & Artificial Intelligence ETF	\$2,115.75	\$1,704.21	\$234.82	Disruptive Technology	Robotics	Al/Automation	
Shares Robotics and Artificial Intelligence ETF	ROBO	ROBO Global Robotics and Automation Index ETF	\$1,378.97	\$1,338.35	\$9.49	Disruptive Technology	Robotics	Al/Automation	
Franklin Intelligent Machines ETF	ROBT	First Trust Nasdaq Artificial Intelligence and Robotics ETF	\$304.97	\$233.53	\$50.71	Disruptive Technology	Robotics	AI/Automation	
MAXX   ProShares S&P Kensho Smart Factories ETF   \$0.87   \$0.80   \$0.00   Disruptive Technology   Robotics   Al/Automation	IRBO	iShares Robotics and Artificial Intelligence ETF	\$338.09	\$303.60	\$17.85	Disruptive Technology	Robotics	AI/Automation	
Name	IQM	Franklin Intelligent Machines ETF	\$11.53	\$8.45	\$2.31	Disruptive Technology	Robotics	Al/Automation	
AdvisorShares Drone Technology ETF   \$0.63   \$0.52   \$0.10   Disruptive Technology   Robotics   Drones	MAKX	ProShares S&P Kensho Smart Factories ETF	\$0.87	\$0.80	\$0.00	Disruptive Technology	Robotics	Al/Automation	
Pacer BlueStar Engineering the Future ETF   \$1.65   \$1.57   \$0.00   Disruptive Technology   Robotics	IBOT	VanEck Robotics ETF	\$1.82	\$1.73	\$0.00	Disruptive Technology	Robotics	Al/Automation	
Section   Sect	UAV	AdvisorShares Drone Technology ETF	\$0.63	\$0.52	\$0.10	Disruptive Technology	Robotics	Drones	
BRIV   BNY Mellon Innovators ETF   \$10.29   \$0.00   \$0.00   Disruptive Technology	BULD	Pacer BlueStar Engineering the Future ETF	\$1.65	\$1.57	\$0.00	Disruptive Technology	Robotics		
Parabla Innovation ETF   \$0.71   \$0.48   \$0.19   Disruptive Technology	PTEC	Global X Prop Tech ETF	\$2.53	\$2.51	\$0.00	Disruptive Technology	PropTech		
Shares Exponential Technologies ETF	BKIV	BNY Mellon Innovators ETF	\$10.29	\$0.00	\$0.00	Disruptive Technology			
SPDR FactSet Innovative Technology ETF   S90.59   \$81.20 -\$1.11   Disruptive Technology	LZRD	Parabla Innovation ETF	\$0.71	\$0.48	\$0.19	Disruptive Technology			
DTEC         ALPS Disruptive Technologies ETF         \$115.29         \$112.04         -\$2.73         Disruptive Technology           LOUP         Innovator Loup Frontier Tech ETF         \$39.05         \$35.02         \$0.00         Disruptive Technology           ARKK         ARK Innovation ETF         \$7,704.45         \$6,713.96         \$130.09         Disruptive Technology           KOMP         SPDR Kensho New Economies Composite ETF         \$1,681.11         \$1,630.09         \$19.95         Disruptive Technology           IZRL         ARK Israel Innovative Technology ETF         \$96.37         \$92.84         -\$3.50         Disruptive Technology           IETC         Ishares Evolved U.S. Technology ETF         \$140.41         \$127.12         \$0.00         Disruptive Technology           PLAT         WisdomTree Growth Leaders ETF         \$10.96         \$10.35         \$0.00         Disruptive Technology           TECB         Ishares US Tech Breakthrough Multisector ETF         \$367.37         \$355.50         -\$20.39         Disruptive Technology           GINN         Goldman Sachs Innovate Equity ETF         \$325.38         \$319.75         \$0.00         Disruptive Technology           MOON         Direction Moonshot Technologies ETF         \$33.50         \$28.75         \$0.00         Disruptive Technology	XT	iShares Exponential Technologies ETF	\$3,230.99	\$3,076.83	\$0.00	Disruptive Technology			
LOUP         Innovator Loup Frontier Tech ETF         \$39.05         \$35.02         \$0.00         Disruptive Technology           ARKK         ARK Innovation ETF         \$7,704.45         \$6,713.96         \$130.09         Disruptive Technology           KOMP         SPDR Kensho New Economies Composite ETF         \$1,681.11         \$1,630.09         \$19.95         Disruptive Technology           IZRL         ARK Israel Innovative Technology ETF         \$96.37         \$92.84         -\$3.50         Disruptive Technology           IETC         Ishares Evolved U.S. Technology ETF         \$140.41         \$127.12         \$0.00         Disruptive Technology           PLAT         WisdomTree Growth Leaders ETF         \$10.96         \$10.35         \$0.00         Disruptive Technology           TECB         Ishares US Tech Breakthrough Multisector ETF         \$367.37         \$355.50         -\$20.39         Disruptive Technology           GINN         Goldman Sachs Innovate Equity ETF         \$325.38         \$319.75         \$0.00         Disruptive Technology           MOON         Direxion Moonshot Technologies ETF         \$33.50         \$28.75         \$0.00         Disruptive Technology	XITK	SPDR FactSet Innovative Technology ETF	\$90.59	\$81.20	-\$1.11	Disruptive Technology			
ARKK ARK Innovation ETF \$7,704.45 \$6,713.96 \$130.09 Disruptive Technology  KOMP SPDR Kensho New Economies Composite ETF \$1,681.11 \$1,630.09 \$19.95 Disruptive Technology  IZRL ARK Israel Innovative Technology ETF \$96.37 \$92.84 -\$3.50 Disruptive Technology  IETC iShares Evolved U.S. Technology ETF \$140.41 \$127.12 \$0.00 Disruptive Technology  PLAT WisdomTree Growth Leaders ETF \$10.96 \$10.35 \$0.00 Disruptive Technology  TECB iShares US Tech Breakthrough Multisector ETF \$367.37 \$355.50 -\$20.39 Disruptive Technology  GINN Goldman Sachs Innovate Equity ETF \$325.38 \$319.75 \$0.00 Disruptive Technology  MOON Direxion Moonshot Technologies ETF \$33.50 \$28.75 \$0.00 Disruptive Technology	DTEC	ALPS Disruptive Technologies ETF	\$115.29	\$112.04	-\$2.73	Disruptive Technology			
KOMP SPDR Kensho New Economies Composite ETF \$1,681.11 \$1,630.09 \$19.95 Disruptive Technology  IZRL ARK Israel Innovative Technology ETF \$96.37 \$92.84 -\$3.50 Disruptive Technology  IETC iShares Evolved U.S. Technology ETF \$140.41 \$127.12 \$0.00 Disruptive Technology  PLAT WisdomTree Growth Leaders ETF \$10.96 \$10.35 \$0.00 Disruptive Technology  TECB iShares US Tech Breakthrough Multisector ETF \$367.37 \$355.50 -\$20.39 Disruptive Technology  GINN Goldman Sachs Innovate Equity ETF \$3325.38 \$319.75 \$0.00 Disruptive Technology  MOON Direxion Moonshot Technologies ETF \$33.50 \$28.75 \$0.00 Disruptive Technology	LOUP	Innovator Loup Frontier Tech ETF	\$39.05	\$35.02	\$0.00	Disruptive Technology			
IZRL ARK Israel Innovative Technology ETF \$96.37 \$92.84 -\$3.50 Disruptive Technology IETC iShares Evolved U.S. Technology ETF \$140.41 \$127.12 \$0.00 Disruptive Technology PLAT WisdomTree Growth Leaders ETF \$10.96 \$10.35 \$0.00 Disruptive Technology TECB iShares US Tech Breakthrough Multisector ETF \$367.37 \$355.50 -\$20.39 Disruptive Technology GINN Goldman Sachs Innovate Equity ETF \$325.38 \$319.75 \$0.00 Disruptive Technology MOON Direxion Moonshot Technologies ETF \$33.50 \$28.75 \$0.00 Disruptive Technology	ARKK	ARK Innovation ETF	\$7,704.45	\$6,713.96	\$130.09	Disruptive Technology			
IETC iShares Evolved U.S. Technology ETF \$140.41 \$127.12 \$0.00 Disruptive Technology  PLAT WisdomTree Growth Leaders ETF \$10.96 \$10.35 \$0.00 Disruptive Technology  TECB iShares US Tech Breakthrough Multisector ETF \$367.37 \$355.50 -\$20.39 Disruptive Technology  GINN Goldman Sachs Innovate Equity ETF \$325.38 \$319.75 \$0.00 Disruptive Technology  MOON Direxion Moonshot Technologies ETF \$33.50 \$28.75 \$0.00 Disruptive Technology	KOMP	SPDR Kensho New Economies Composite ETF	\$1,681.11	\$1,630.09	\$19.95	Disruptive Technology			
PLAT WisdomTree Growth Leaders ETF \$10.96 \$10.35 \$0.00 Disruptive Technology  TECB iShares US Tech Breakthrough Multisector ETF \$367.37 \$355.50 -\$20.39 Disruptive Technology  GINN Goldman Sachs Innovate Equity ETF \$325.38 \$319.75 \$0.00 Disruptive Technology  MOON Direxion Moonshot Technologies ETF \$33.50 \$28.75 \$0.00 Disruptive Technology	IZRL	ARK Israel Innovative Technology ETF	\$96.37	\$92.84	-\$3.50	Disruptive Technology			
TECB iShares US Tech Breakthrough Multisector ETF \$367.37 \$355.50 -\$20.39 Disruptive Technology  GINN Goldman Sachs Innovate Equity ETF \$325.38 \$319.75 \$0.00 Disruptive Technology  MOON Direxion Moonshot Technologies ETF \$33.50 \$28.75 \$0.00 Disruptive Technology	IETC	iShares Evolved U.S. Technology ETF	\$140.41	\$127.12	\$0.00	Disruptive Technology			
GINN Goldman Sachs Innovate Equity ETF \$325.38 \$319.75 \$0.00 Disruptive Technology MOON Direxion Moonshot Technologies ETF \$33.50 \$28.75 \$0.00 Disruptive Technology	PLAT	WisdomTree Growth Leaders ETF	\$10.96	\$10.35	\$0.00	Disruptive Technology			
MOON Direxion Moonshot Technologies ETF \$33.50 \$28.75 \$0.00 Disruptive Technology	TECB	iShares US Tech Breakthrough Multisector ETF	\$367.37	\$355.50	-\$20.39	Disruptive Technology			
	GINN	Goldman Sachs Innovate Equity ETF	\$325.38	\$319.75	\$0.00	Disruptive Technology			
BTEK BlackRock Future Tech ETF \$12.92 \$11.14 \$0.74 Disruptive Technology	MOON	Direxion Moonshot Technologies ETF	\$33.50	\$28.75	\$0.00	Disruptive Technology			
	BTEK	BlackRock Future Tech ETF	\$12.92	\$11.14	\$0.74	Disruptive Technology			



<b></b>	Name :	M. 0000 (AM)	A 0000 (014)	A4 . A4 . E1 (AA4)	0.1	Maria <b>-</b>	<b>T</b>	0.1.71
Ticker	Name BlackRock Future Innovators ETF	May 2023 (\$M)	. (, ,	MoM Flows (\$M)	Category	Mega-Theme	Theme	Sub-Theme
BFTR		\$6.37	\$6.34	\$0.00	Disruptive Technology			
ANEW	MSCI Transformational Changes ETF	\$10.46	\$13.91	-\$3.46	Disruptive Technology			
TMAT	Main Thematic Innovation ETF	\$84.28	\$78.96	\$2.16	Disruptive Technology			
GGRW	Gabelli Funds' Growth Innovators ETF	\$2.52	\$2.38	\$0.00	Disruptive Technology			
IDAT	iShares Cloud 5G and Tech ETF	\$5.60	\$5.21	\$0.00	Disruptive Technology			
ILDR	First Trust Innovation Leaders ETF	\$3.42	\$3.17	\$0.00	Disruptive Technology			
MVPS	Amplify Thematic All-Stars ETF	\$4.11	\$3.71	\$0.00	Disruptive Technology			
SPRX	Spear Alpha ETF	\$4.85	\$2.76	\$1.12	Disruptive Technology			
JFWD	Jacob Forward ETF	\$2.83	\$2.85	-\$0.17	Disruptive Technology			
GK	AdvisorShares Gerber Kawasaki ETF	\$15.94	\$15.95	-\$0.08	Disruptive Technology			
FFND	The Future Fund Active ETF	\$8.58	\$7.95	\$0.34	Disruptive Technology			
GTEK	Goldman Sachs Future Tech Leaders Equity ETF	\$255.46	\$234.96	\$0.00	Disruptive Technology			
TINY	ProShares Nanotechnology ETF	\$2.80	\$2.45	\$0.00	Disruptive Technology			
KGRO	KraneShares China Innovation ETF	\$1.40	\$1.51	\$0.00	Disruptive Technology			
INNO	Harbor Disruptive Innovation ETF	\$29.28	\$27.31	\$0.00	Disruptive Technology			
втнм	Blackrock Future US Themes ETF	\$4.47	\$4.45	\$0.00	Disruptive Technology			
DGIN	VanEck Digital India ETF	\$1.49	\$1.43	\$0.00	Disruptive Technology			
SAMT	Strategas Macro Thematic Opp ETF	\$67.50	\$71.67	-\$1.80	Disruptive Technology			
TIME	Clockwise Capital Innovation ETF	\$60.40	\$54.32	\$0.48	Disruptive Technology			
KEJI	Global X China Disruption ETF	\$2.00	\$2.14	\$0.00	Disruptive Technology			
GXTG	Global X Thematic Growth ETF	\$41.88	\$42.91	-\$1.49	Disruptive Technology			
FWD	AB Disruptors ETF	\$76.30	\$7.95	\$65.72	Disruptive Technology			
NBDS	Neuberger Berman Disrupters ETF	\$7.31	\$7.90	-\$1.06	Disruptive Technology			
TRFM	AAM Transformers ETF	\$13.31	\$12.24	\$0.00	Disruptive Technology			
MINV	Matthews Asia Innovators Active ETF	\$130.98	\$133.47	\$0.00	Disruptive Technology			
TWEB	SoFi Web 3 ETF	\$1.28	\$1.16	\$0.00	Disruptive Technology			
POTX	Global X Cannabis ETF	\$31.14	\$35.33	\$0.00	People & Demographics	New Consumer	Cannabis	
YOLO	AdvisorShares Pure Cannabis ETF	\$34.57	\$36.71	\$0.00	People & Demographics	New Consumer	Cannabis	
MJUS	ETFMG U.S. Alternative Harvest ETF	\$119.26	\$126.63	-\$6.35	People & Demographics	New Consumer	Cannabis	
MJ	ETFMG Alternative Harvest ETF	\$211.84	\$229.40	\$2.10	People & Demographics	New Consumer	Cannabis	



TICKER THCX TOKE CNBS	Name The Cannabis ETF	May 2023 (\$M)	Apr 2023 (\$M)	MoM Flows (\$M)				
TOKE			C47.40		Category	Mega-Theme	Theme	Sub-Theme
	0 1 0 1 575	\$14.72	\$17.18	\$0.00	People & Demographics	New Consumer	Cannabis	
ICNRS	Cambria Cannabis ETF	\$10.02	\$11.19	-\$0.30	People & Demographics	New Consumer	Cannabis	
	Amplify Seymour Cannabis ETF	\$24.32	\$25.50	\$0.00	People & Demographics	New Consumer	Cannabis	
MSOS	AdvisorShares Pure US Cannabis ETF	\$343.39	\$331.03	\$10.21	People & Demographics	New Consumer	Cannabis	
PSDN	AdvisorShares Poseidon Dynamic Cnnbs ETF	\$3.04	\$3.07	\$0.00	People & Demographics	New Consumer	Cannabis	
WEED	Roundhill Cannabis ETF	\$2.11	\$1.52	\$0.61	People & Demographics	New Consumer	Cannabis	
BUYZ	Franklin Disruptive Commerce ETF	\$9.62	\$9.48	\$0.00	People & Demographics	New Consumer	E-Commerce	
IBUY	Amplify Online Retail ETF	\$185.27	\$191.59	\$0.00	People & Demographics	New Consumer	E-Commerce	
ONLN	ProShares Online Retail ETF	\$93.78	\$96.41	-\$2.14	People & Demographics	New Consumer	E-Commerce	
EBIZ	Global X E-commerce ETF	\$39.85	\$44.43	-\$2.49	People & Demographics	New Consumer	E-Commerce	
EWEB	Global X Emerging Markets E-commerce & Internet ETF	\$2.40	\$2.54	\$0.00	People & Demographics	New Consumer	E-Commerce	
EMQQ	Emerging Markets Internet & Ecommerce ETF	\$479.17	\$524.45	-\$13.44	People & Demographics	New Consumer	E-Commerce	
FMQQ	The Next Frontier Internet & Ecommerce ETF	\$16.69	\$16.64	\$0.00	People & Demographics	New Consumer	E-Commerce	
EDUT	Global X Education ETF	\$2.79	\$3.09	-\$0.19	People & Demographics	New Consumer	Education	
KEMQ	KraneShares Emerging Markets Consumer Technology Index ETF	\$12.49	\$29.29	-\$16.06	People & Demographics	New Consumer	Emerging Market Consumers	
ECON	Columbia Emerging Markets Consumer ETF	\$67.85	\$82.47	-\$13.00	People & Demographics	New Consumer	Emerging Market Consumers	
INCO	Columbia India Consumer ETF	\$81.27	\$75.19	\$2.46	People & Demographics	New Consumer	Emerging Market Consumers	
INQQ	India Internet & Ecommerce ETF	\$2.07	\$1.63	\$0.31	People & Demographics	New Consumer	Emerging Market Consumers	
MILN	Global X Millennials Thematic ETF	\$96.43	\$100.25	-\$0.89	People & Demographics	New Consumer	Millennials & Gen Z	
GENY	Principal Millennials Index ETF	\$28.07	\$29.12	\$0.00	People & Demographics	New Consumer	Millennials & Gen Z	
NBCC	Neuberger Brmn Nxt Gnrtn Cnnctd Cnsm ETF	\$5.14	\$5.35	\$0.00	People & Demographics	New Consumer	Millennials & Gen Z	
KPOP	KPOP and Korean Entertainment ETF	\$2.97	\$2.81	\$0.00	People & Demographics	New Consumer	Millennials & Gen Z	
вуов	SoFi Gig Economy ETF	\$6.86	\$6.63	\$0.00	People & Demographics	New Consumer	Sharing/Gig Economy	
iBET	iBet Sprts Betting & Gaming ETF	\$0.87	\$1.27	-\$0.30	People & Demographics	New Consumer	Sports Betting	
BETZ	Roundhill Sports Betting & iGaming ETF	\$128.92	\$133.12	\$0.00	People & Demographics	New Consumer	Sports Betting	
LUX	Tema Luxury ETF	\$5.19	\$0.00	\$4.11	People & Demographics	New Consumer		
GBUY	Goldman Sachs Future Consumer Equity ETF	\$142.74	\$143.29	\$0.68	People & Demographics	New Consumer		
AWAY	ETFMG Travel Tech ETF	\$116.51	\$129.42	-\$8.39	People & Demographics	New Consumer		
AGNG	Global X Longevity Thematic ETF	\$47.30	\$65.23	-\$15.40	People & Demographics	Health	Aging Population	
HLGE	The Hartford Longevity Economy ETF	\$8.33	\$8.36	\$0.00	People & Demographics	Health	Aging Population	



Tieleen	Name	M 2002 (CM)	A 0000 (CBA)	Mana Flance (CNA)	0-1	Mana Thama	Thomas	Sub-Theme
Ticker CHNA	Name Loncar China BioPharma ETF	May 2023 (\$M) \$4.55	Apr 2023 (\$M) \$5.05	MoM Flows (\$M) \$0.00	Category	Mega-Theme Health	Theme EM Healthcare	Sub-Tneme
PSIL		\$6.18	\$5.05 \$5.91	\$0.00	People & Demographics	Health	Healthcare Innovation	Alternative Medicine
	AdvisorShares Psychedelics ETF	***	*	* * * * * * * * * * * * * * * * * * * *	People & Demographics			
ARKG	Genomic Revolution ETF	\$2,015.21	\$1,865.54	-\$27.11	People & Demographics	Health	Healthcare Innovation	Genomics
GNOM	Global X Genomics & Biotechnology ETF	\$194.51	\$194.08	\$1.38	People & Demographics	Health	Healthcare Innovation	Genomics
XDNA	Kelly CRISPR & Gene Editing Tech ETF	\$2.48	\$2.24	\$0.24	People & Demographics	Health	Healthcare Innovation	Genomics
IDNA	iShares Genomics Immunology and Healthcare ETF	\$147.13	\$144.43	\$0.00	People & Demographics	Health	Healthcare Innovation	Genomics
PBE	Invesco Dynamic Biotechnology & Genome ETF	\$239.60	\$251.66	-\$3.10	People & Demographics	Health	Healthcare Innovation	Genomics
HELX	Franklin Genomic Discovery ETF	\$10.32	\$10.45	\$0.00	People & Demographics	Health	Healthcare Innovation	Genomics
CNCR	Loncar Cancer Immunotherapy ETF	\$13.33	\$15.83	-\$3.36	People & Demographics	Health	Healthcare Innovation	Immunotherapy
VIRS	Pacer BioThreat ETF	\$3.70	\$3.67	\$0.00	People & Demographics	Health	Healthcare Innovation	Public Health
EDOC	Global X Telemedicine & Digital Health ETF	\$117.17	\$125.81	-\$1.85	People & Demographics	Health	Healthcare Innovation	Telemedicine & Digital Health
FDHT	Fidelity Digital Health ETF	\$9.48	\$10.13	\$0.00	People & Demographics	Health	Healthcare Innovation	Telemedicine & Digital Health
EKG	First Trust Nasdaq Lux Digital Health Solutions ETF	\$0.84	\$0.87	\$0.00	People & Demographics	Health	Healthcare Innovation	Telemedicine & Digital Health
SYNB	Putnam Biorevolution ETF	\$4.71	\$4.80	\$0.00	People & Demographics	Health	Healthcare Innovation	
GDOC	Goldman Sachs Future Health Care EQ ETF	\$106.73	\$109.63	\$0.00	People & Demographics	Health	Healthcare Innovation	
PINK	The Simplify Health Care ETF	\$58.10	\$51.27	\$13.13	People & Demographics	Health	Healthcare Innovation	
WDNA	WisdomTree BioRevolution ETF	\$2.76	\$2.76	\$0.00	People & Demographics	Health	Healthcare Innovation	
HART	IQ Healthy Hearts ETF	\$8.26	\$8.52	\$0.00	People & Demographics	Health	Healthcare Innovation	
СНВ	Global X China Biotech Innovation ETF	\$2.22	\$2.46	\$0.00	People & Demographics	Health	Healthcare Innovation	
GERM	ETFMG Treatments, Testing and Advancements ETF	\$17.51	\$18.78	-\$1.05	People & Demographics	Health	Healthcare Innovation	
SBIO	ALPS Medical Breakthroughs ETF	\$113.82	\$108.73	\$0.81	People & Demographics	Health	Healthcare Innovation	
BTEC	Principal Healthcare Innovators Index ETF	\$54.27	\$53.16	\$0.00	People & Demographics	Health	Healthcare Innovation	
HTEC	ROBO Global Healthcare Technology & Innovation	\$93.92	\$98.30	\$0.00	People & Demographics	Health	Healthcare Innovation	
BMED	BlackRock Future Health ETF	\$5.65	\$5.83	\$0.00	People & Demographics	Health	Healthcare Innovation	
IBRN	iShares Neuroscience and Healthcare ETF	\$4.84	\$4.94	\$0.00	People & Demographics	Health	Healthcare Innovation	
BFIT	Global X Health & Wellness Thematic ETF	\$16.07	\$21.69	-\$3.59	People & Demographics	Health	Health & Wellness	
SURI	Simplify Propel Opportunities ETF	\$62.17	\$64.23	\$0.00	People & Demographics	Health		
UPWD	JPMorgan Social Advancement ETF	\$11.84	\$12.12	\$0.00	People & Demographics			
HYDR	Global X Hydrogen ETF	\$32.19	\$35.49	\$0.45	Physical Environment	Climate Change	Clean & Renewable Energy	Hydrogen
HJEN	Direxion Hydrogen ETF	\$29.40	\$31.91	\$0.00	Physical Environment	Climate Change	Clean & Renewable Energy	Hydrogen
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EBLU Ecofin Global Water ESG Fund \$46.54 \$47.87 \$0.00 Physical Environment Climate Change Resource Scarcity	Water
PHO Invesco Water Resources ETF \$1,742.19 -\$10.40 Physical Environment Climate Change Resource Scarcity	Water
CGW Invesco S&P Global Water Index ETF \$938.60 \$976.14 -\$11.81 Physical Environment Climate Change Resource Scarcity	Water



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Ticker	Name	May 2023 (\$M)	Apr 2023 (\$M)	MoM Flows (\$M)	Category	Mega-Theme	Theme	Sub-Theme
FIW	First Trust Water ETF	\$1,292.54	\$1,284.10	\$16.73	Physical Environment	Climate Change	Resource Scarcity	Water
PIO	Invesco Global Water ETF	\$267.66	\$281.23	-\$5.28	Physical Environment	Climate Change	Resource Scarcity	Water
IWTR	iShares MSCI Water Management Multisector ETF	\$5.56	\$5.68	\$0.00	Physical Environment	Climate Change	Resource Scarcity	Water
OCEN	IQ Clean Oceans ETF	\$5.17	\$5.31	\$0.00	Physical Environment	Climate Change	Resource Scarcity	
CIRC	JPMorgan Sustainable Consumption ETF	\$11.19	\$11.51	\$0.00	Physical Environment	Climate Change	Resource Scarcity	
ccso	Carbon Collective Climate Solutions U.S. Equity ETF	\$17.68	\$17.16	\$0.43	Physical Environment	Climate Change		
ETEC	iShares Breakthrough Environmental Solutions ETF	\$3.87	\$3.94	\$0.00	Physical Environment	Climate Change		
NVIR	Horizon Kinetics Energy Remediation ETF	\$2.31	\$2.42	\$0.00	Physical Environment	Climate Change		
NZRO	Strategy Shares Halt Climate Change ETF	\$1.06	\$1.04	\$0.00	Physical Environment	Climate Change		
GCLN	Goldman Sachs Bloomberg Cln Enrgy Eq ETF	\$9.12	\$9.40	\$0.00	Physical Environment	Climate Change		
KGRN	KraneShares MSCI China Environment ETF	\$80.74	\$87.32	-\$2.64	Physical Environment	Climate Change		
GSFP	Goldman Sachs Future Planet Equity ETF	\$156.39	\$161.99	-\$0.79	Physical Environment	Climate Change		
BECO	BlackRock Future Climate and Sustainable Economy ETF	\$4.16	\$4.33	\$0.00	Physical Environment	Climate Change		
ENRG	SoFi Smart Energy ETF	\$2.22	\$2.56	-\$0.36	Physical Environment	Climate Change		
TEMP	JPMorgan Climate Change Solutions ETF	\$21.23	\$21.57	\$0.00	Physical Environment	Climate Change		
NBCT	Neuberger Berman Crbn Trnstn & Infrs ETF	\$24.81	\$24.59	\$0.00	Physical Environment	Climate Change		
RNEW	VanEck Green Infrastructure ETF	\$1.22	\$1.22	\$0.00	Physical Environment	Climate Change		
CLIA	Veridien Climate Action ETF	\$2.54	\$0.00	\$0.51	Physical Environment	Climate Change		
DMAT	Global X Disruptive Materials ETF	\$5.13	\$5.53	\$0.00	Physical Environment	Disruptive Materials		
REMX	VanEck Vectors Rare Earth/Strategic Metals ETF	\$580.93	\$619.27	-\$38.10	Physical Environment	Disruptive Materials		
GMET	VanEck Green Metals ETF	\$23.00	\$25.26	\$0.00	Physical Environment	Disruptive Materials		
TINT	ProShares Smart Materials ETF	\$1.55	\$1.61	\$0.00	Physical Environment	Disruptive Materials		
CRIT	Optica Rare Earths & Critical Materials ETF	\$2.16	\$2.35	\$0.00	Physical Environment	Disruptive Materials		
ION	ProShares S&P Global Cor Btty Mtls ETF	\$2.67	\$2.83	\$0.00	Physical Environment	Disruptive Materials		
SETM	Sprott Energy Transition Materials ETF	\$5.49	\$6.86	-\$1.34	Physical Environment	Disruptive Materials		
NIKL	Sprott Nickel Miners ETF	\$1.60	\$1.53	\$0.20	Physical Environment	Disruptive Materials		
PAVE	Global X U.S. Infrastructure Development ETF	\$4,004.11	\$3,943.71	\$113.82	Physical Environment	Infrastructure Development		
IFRA	iShares U.S. Infrastructure ETF	\$1,734.18	\$1,786.69	-\$0.01	Physical Environment	Infrastructure Development		
AIRR	First Trust RBA American Industrial Renaissance ETF	\$304.96	\$295.03	\$0.18	Physical Environment	Infrastructure Development		
OBOR	KraneShares MSCI One Belt One Road ETF	\$4.26	\$4.53	\$0.00	Physical Environment	Infrastructure Development		





Ticker	Name	May 2023 (\$M)	Apr 2023 (\$M)	MoM Flows (\$M)	Category	Mega-Theme	Theme	Sub-Theme
SUPL	ProShares Supply Chain Logistics ETF	\$1.86	\$1.91	\$0.00	Physical Environment	Infrastructure Development		
SHPP	Pacer Industrial and Logistics ETF	\$0.98	\$1.01	\$0.00	Physical Environment	Infrastructure Development		
RBLD	First Trust Alerian US NextGen Infrastructure ETF	\$7.29	\$7.48	\$0.00	Physical Environment	Infrastructure Development		
EFRA	iShares Environmental Infras & IndstrETF	\$4.26	\$4.41	\$0.00	Physical Environment	Infrastructure Development		
RSHO	Tema American Reshoring ETF	\$5.99	\$0.00	\$4.84	Physical Environment	Infrastructure Development		
BLLD	JPMorgan Sustainable Infrastructure ETF	\$14.86	\$10.75	\$4.67	Physical Environment			





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