

GLOBAL X ETFs RESEARCH

The Next Big Theme: March 2023



Authored by:

Mayuranki De
Research Analyst

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Topic: **Disruptive Technology, Physical Environment, People & Demographics**



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Artificial Intelligence

The Bet on ChatGPT

Earlier this month, OpenAI launched the ChatGPT and Whisper application programming interfaces (APIs), which are now being integrated into many new company platforms.¹ As AI tools become more widely used, companies like Snap and Shopify are following the trend by incorporating advanced tools such as My AI for Snapchat+ and Shopify's new shopping assistant.² With ChatGPT APIs, Snapchat users can enjoy a chatbot that is highly customizable and offers personalized recommendations and prompts. Similarly, Shop, the Shopify consumer app, is introducing ChatGPT APIs for their own chatbot to assist with the checkout process. On the EdTech side, Duolingo is now able to offer Duolingo Max, which will be powered by the newly released GPT-4.³ Duolingo Max is a new subscription tier that offers learners two new features and exercises: Explain My Answer and Roleplay. Other noteworthy OpenAI-backed projects, such as Spotify's individualized AI DJ and Coca-Cola's revamped marketing efforts, provide only a glimpse of what is yet to come.

Telemedicine & Digital Health

Healthcare At Your Fingertips

The accessibility of healthcare has reached an all-time high with companies like CVS, Walgreens, and Amazon completing mergers and acquisitions with primary care facilities to offer healthcare services at home. Amazon's acquisition of One Medical provides members with 24/7 virtual care and optional in-person care on a subscription basis. One Medical is offering discounted annual memberships for the first year at \$144 instead of the regular \$199.⁴ CVS Health has also expanded its medical services by acquiring Oak Street Health, a technology-based primary care option for elderly patients with over 50% of its patients facing housing, food, or isolation risks.⁵ As healthcare evolves, wearables and digital health technologies are assisting medical professionals in monitoring patients while allowing patient autonomy. Apple is at the forefront of this industry with their noninvasive blood glucose monitoring technology that uses a silicon photonics chip and optical absorption spectroscopy to detect glucose through the Apple Watch. This technology has now reached the Proof-of-Concept stage.⁶

Electric Vehicles

EV Adoption Expands Across America

During Tesla's Investor Day, the company unveiled its plans to decrease manufacturing expenses and expand to an "extreme size." Most notably, Tesla outlined plans to increase sustainability through Master Plan 3. This involves various initiatives such as incorporating renewable energy into the current power grid,



increasing the production of electric vehicles, installing heat pumps in residential and commercial buildings, utilizing high-temperature heat delivery and hydrogen for industrial purposes, and developing environmentally friendly planes and boats.⁷ Additionally, CEO Elon Musk announced the forthcoming construction of a new Gigafactory in Nuevo Leon, Mexico, where the company will produce its next-generation vehicle.⁸ The Gigafactory is projected to cost \$10 billion once fully operational, and will join Tesla's existing factories in Nevada, Texas, New York, Shanghai, and Berlin.⁹ Recently, Tesla reduced the prices of its popular Model 3 and Model Y cars by up to 20%, leading to an increase in consumer demand.¹⁰ In other electric vehicle news, the United States Postal Service (USPS) has revealed plans to purchase 9,250 Ford E-Transit electric vehicles beginning later this year, along with over 14,000 charging stations for deployment at USPS facilities.¹¹ The USPS had previously announced its intention to increase its purchases of electric delivery vehicles, with plans to procure at least 66,000 such vehicles through 2028.¹² In August, Congress allocated \$3 billion to the USPS as part of a \$430 billion climate bill to support the purchase of electric vehicles and charging infrastructure.¹³

U.S. Infrastructure

U.S. Urges Use Of Domestic Materials

Approximately 32% of building materials used in the United States are imported, with top sources including countries in the European Union, China, South Korea, Canada, and Japan.¹⁴ However, the government's new "Buy America" provisions for publicly funded projects will require the use of domestically made construction materials, which may decrease the country's reliance on foreign products. Following President Biden's State of the Union Address, the Office of Management and Budget (OMB) issued additional guidance to implement the Build America, Buy America Act provisions of the Infrastructure Investment and Jobs Act (IIJA), which establishes that a product is considered to be manufactured in the United States if at least 55% of the total cost of all components of the product are mined, produced, or manufactured domestically.¹⁵ The Biden Administration is committed to promoting domestic manufacturing in support of the U.S. supply chain.

Internet of Things & AI

AI Is Chip Producers' Newest Income Generator

OpenAI's ChatGPT is predicted to require over 30,000 graphics cards in the future.¹⁶ This surge of interest is expected to have positive effects on the supply chain for GPUs and AI chips, benefiting all involved parties. For instance, the Generative Pre-Trained Transformer (GPT) that forms the basis of ChatGPT required roughly 120 million training parameters in 2018, which increased to almost 180 billion in 2020.¹⁷ In 2020, around 20,000 GPUs were necessary for the GPT model to handle training data, and it's expected that more than 30,000 GPUs will be needed for the GPT model's commercialization in the future, using NVIDIA's A100 as a starting point for calculations.¹⁸ While Nvidia is one leading supplier of AI accelerators, Intel and AMD also offer similar products in the AI market.

Cybersecurity

Biden Reinforces Cybersecurity Accountability

The new White House National Cybersecurity Strategy, released this month, aims to address ongoing cybersecurity issues by shifting responsibilities to the tech industry and software makers, urging them to take greater accountability in safeguarding their systems against hackers.¹⁹ The strategy also calls for U.S. law enforcement and military agencies to proactively combat the increasing threat of ransomware and digital theft. China and Russia are identified as the most significant cybersecurity risks to the United States. Additionally, the strategy requires federal agencies such as the Department of Defense (DOD), Securities and Exchange Commission (SEC), and Federal Communications Commission (FCC) to use their regulatory



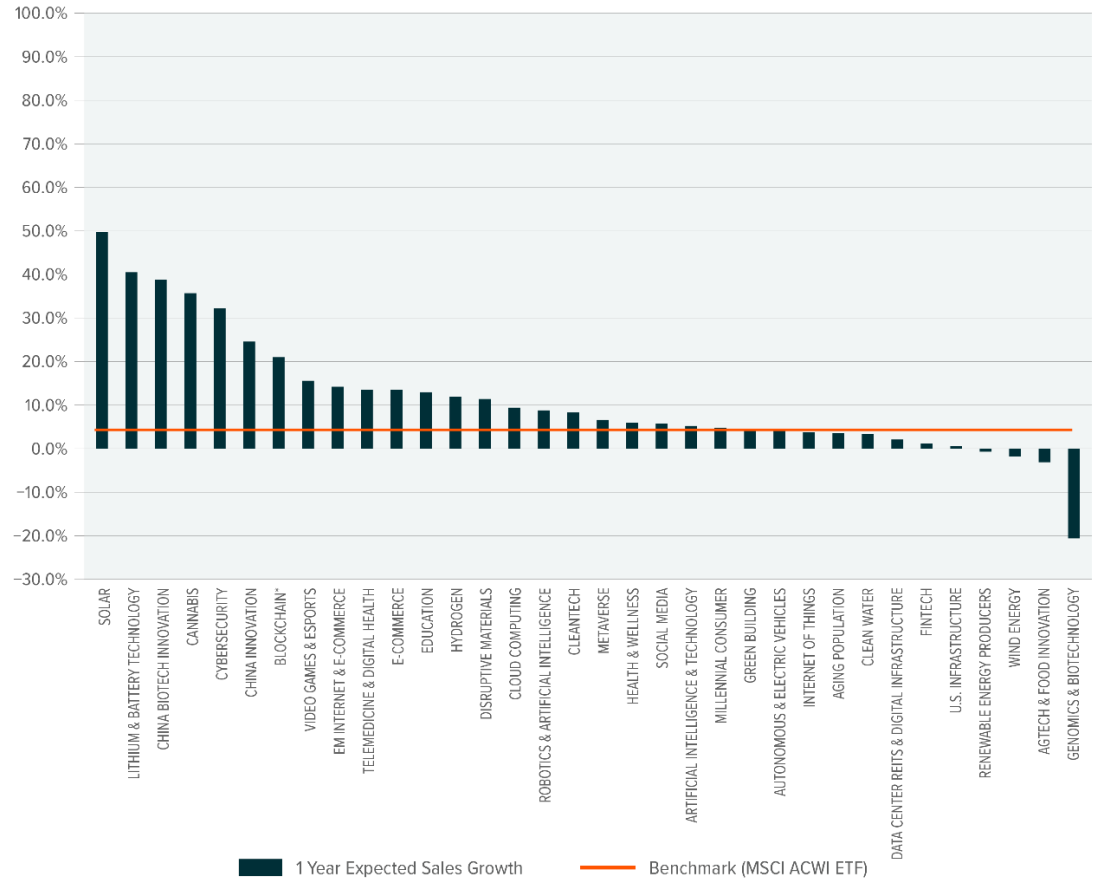
authority to implement mandatory cybersecurity standards for their respective contractors and suppliers.

THE NUMBERS

The following charts examine returns and sales growth expectations by theme, based on their corresponding ETFs.

THEMATIC EXPECTED SALES GROWTH

Source: Bloomberg, February 28, 2023, Global X ETFs.



Note: Forward looking based on data and analysis from 2/28/2023.
1 year annualized forward sales growth is the consensus analyst expectations for total sales growth in the next 12 months.
*Blockchain reflects figures according to BKCH ETF



FEBRUARY 2023 THEMATIC ETF RETURNS

Source: Bloomberg, February 28, 2023, Global X ETFs.



Note: The performance data quoted represents past performance and does not guarantee future results.
*Blockchain reflects figures according to BKCH ETF

Performance data quoted represents past performance and does not guarantee future results. Investment return and principal value of an investment will fluctuate so that an investors' shares, when sold or redeemed, may be worth more or less than their original cost. Current performance may be higher or lower than the performance quoted. High short-term performance of the fund is unusual and investors should not expect such performance to be repeated. For performance data current to the most recent month end, please call 1-888-493-8631 or visit www.globalxetfs.com.

Standard Performance			Cumulative % Data as of month end (02/28/23)				Avg. Annualized % Data as of quarter end (12/31/22)			
	Expense Ratio		1 Month	3 Month	Since Inception	1 Year	3 Year	5 Year	10 Year	Since Inception
Robotics & Artificial Intelligence Inception Date 9/12/2016	0.68%	NAV	-0.47%	11.62%	63.50%	-42.49%	-1.93%	-2.16%	-	5.87%
		Market Price	-1.09%	9.85%	63.51%	-42.69%	-1.87%	-2.24%	-	5.81%
		Index	-0.41%	11.81%	67.61%	-42.20%	-1.31%	-1.69%	-	6.26%
Fintech Inception Date 9/12/2016	0.68%	NAV	-5.42%	2.50%	47.15%	-52.01%	-12.68%	-1.50%	-	4.82%
		Market Price	-5.72%	1.85%	47.07%	-51.79%	-12.53%	-1.49%	-	4.90%
		Index	-5.43%	2.51%	52.33%	-51.92%	-12.31%	-0.96%	-	5.40%
Internet Of Things Inception Date 9/12/2016	0.68%	NAV	0.59%	6.28%	126.30%	-25.33%	7.71%	9.01%	-	11.95%
		Market Price	0.28%	5.70%	126.30%	-25.78%	7.52%	8.85%	-	11.87%
		Index	0.60%	6.33%	130.91%	-25.17%	8.11%	9.35%	-	12.30%
Cloud Computing Inception Date 4/12/2019	0.68%	NAV	-3.35%	3.28%	17.07%	-39.52%	1.19%	-	-	2.19%
		Market Price	-3.40%	3.34%	17.67%	-39.53%	1.15%	-	-	2.29%
		Index	-3.30%	3.45%	19.92%	-39.10%	1.83%	-	-	2.83%
Social Media Inception Date 11/14/2011	0.65%	NAV	-6.48%	12.38%	134.73%	-42.27%	-3.56%	-1.16%	9.41%	7.08%
		Market Price	-6.64%	11.93%	135.42%	-42.38%	-3.51%	-1.16%	9.39%	7.06%
		Index	-6.42%	12.58%	148.92%	-42.13%	-3.11%	-0.64%	9.94%	7.63%



Artificial Intelligence & Technology Inception Date 5/11/2018	0.68%	NAV	-1.88%	4.70%	53.49%	-36.18%	4.53%	-	-	7.11%
		Market Price	-1.31%	4.06%	53.97%	-36.45%	4.39%	-	-	7.04%
		Index	-1.84%	4.83%	56.38%	-35.93%	4.98%	-	-	7.53%
Autonomous & Electric Vehicles Inception Date 4/13/2018	0.68%	NAV	-1.35%	2.98%	65.75%	-33.63%	11.27%	-	-	7.66%
		Market Price	-1.60%	2.09%	65.54%	-34.14%	11.01%	-	-	7.50%
		Index	-1.41%	2.94%	67.18%	-33.57%	11.62%	-	-	7.85%
Lithium and Battery Tech Inception Date 7/22/2010	0.75%	NAV	-9.01%	-5.90%	143.91%	-29.69%	29.82%	10.10%	8.81%	6.72%
		Market Price	-9.84%	-7.39%	143.36%	-29.92%	29.70%	9.98%	8.79%	6.68%
		Index	-9.04%	-5.87%	158.84%	-29.28%	30.23%	10.28%	9.32%	7.23%
Genomics and Biotechnology Inception Date 4/5/2019	0.50%	NAV	-7.08%	-6.39%	-17.47%	-36.09%	-6.63%	-	-	-4.86%
		Market Price	-7.00%	-6.44%	-15.66%	-36.27%	-6.74%	-	-	-4.41%
		Index	-7.73%	-6.98%	-16.51%	-35.86%	-6.24%	-	-	-4.41%
Millennial Consumer Inception Date 5/4/2016	0.50%	NAV	-3.41%	1.93%	98.64%	-38.50%	0.55%	6.65%	-	9.18%
		Market Price	-3.34%	2.11%	97.98%	-38.46%	0.50%	6.59%	-	9.11%
		Index	-3.40%	2.05%	105.05%	-38.24%	1.07%	7.20%	-	9.69%
Aging Population Inception Date 5/09/2016	0.50%	NAV	-2.67%	-0.79%	81.00%	-8.52%	4.18%	7.01%	-	9.34%
		Market Price	-2.68%	-1.46%	84.46%	-8.64%	4.14%	6.89%	-	9.65%
		Index	-2.65%	-0.69%	84.14%	-8.36%	4.39%	7.22%	-	9.62%
Health and Wellness Inception Date 5/9/2016	0.50%	NAV	-4.03%	5.26%	57.89%	-23.93%	-0.12%	5.80%	-	6.25%
		Market Price	-4.10%	4.79%	58.31%	-24.64%	-0.59%	5.44%	-	6.19%
		Index	-3.96%	5.35%	62.23%	-23.71%	0.22%	6.16%	-	6.67%
E-Commerce Inception Date 11/27/2018	0.50%	NAV	-10.40%	4.10%	21.48%	-40.77%	-3.51%	-	-	2.40%
		Market Price	-10.37%	4.35%	21.27%	-40.96%	-3.72%	-	-	2.30%
		Index	-10.39%	4.24%	23.74%	-40.55%	-3.13%	-	-	2.84%
Us Infrastructure Development Inception Date 3/6/2017	0.47%	NAV	0.83%	5.06%	102.25%	-7.08%	15.00%	10.39%	-	10.99%
		Market Price	0.86%	5.03%	102.18%	-7.18%	14.92%	10.32%	-	10.98%
		Index	0.88%	5.21%	108.52%	-6.55%	15.62%	10.95%	-	11.55%
Cannabis Inception Date 9/17/2019	0.50%	NAV	-14.49%	-27.69%	-91.68%	-67.42%	-48.25%	-	-	-52.56%
		Market Price	-15.07%	-27.99%	-91.87%	-67.30%	-48.34%	-	-	-52.89%
		Index	-14.93%	-28.60%	-92.93%	-68.38%	-50.54%	-	-	-54.74%
Video Games & Esports Inception Date 10/25/2019	0.50%	NAV	-6.84%	-0.08%	28.78%	-33.52%	5.34%	-	-	7.94%
		Market Price	-7.36%	-1.84%	28.21%	-33.37%	5.25%	-	-	7.89%
		Index	-6.80%	0.03%	30.78%	-33.32%	5.84%	-	-	8.43%
Cybersecurity Inception Date 10/25/2019	0.50%	NAV	2.17%	0.40%	52.55%	-33.68%	8.87%	-	-	11.19%
		Market Price	1.90%	-0.21%	55.01%	-33.67%	8.65%	-	-	11.79%
		Index	2.20%	0.53%	54.77%	-33.28%	9.39%	-	-	11.67%
Thematic Growth Inception Date 10/25/2019	0.50%	NAV	-7.73%	-2.79%	3.20%	-48.03%	-4.60%	-	-	-1.94%
		Market Price	-6.98%	-2.81%	4.57%	-48.09%	-4.81%	-	-	-1.77%
		Index	-7.73%	-2.83%	2.31%	-48.16%	-4.85%	-	-	-2.20%
Education Inception Date 7/10/2020	0.50%	NAV	-11.56%	-0.58%	-51.80%	-18.37%	-	-	-	-25.34%
		Market Price	-11.38%	-1.17%	-51.96%	-17.95%	-	-	-	-25.36%
		Index	-11.52%	-0.49%	-51.14%	-17.89%	-	-	-	-24.95%
Telemedicine & Digital Health Inception Date 7/29/2020	0.68%	NAV	-6.00%	-3.92%	-22.82%	-29.43%	-	-	-	-10.36%
		Market Price	-6.65%	-4.43%	-23.42%	-29.99%	-	-	-	-10.67%
		Index	-6.31%	-4.20%	-22.02%	-29.07%	-	-	-	-9.85%
China Biotech Innovation Inception Date 9/22/2020	0.65%	NAV	-6.97%	0.72%	-35.27%	-33.21%	-	-	-	-18.05%
		Market Price	-5.87%	0.31%	-35.07%	-33.91%	-	-	-	-18.65%
		Index	-6.97%	0.89%	-34.22%	-32.74%	-	-	-	-17.50%
Cleantech Inception Date 10/27/2020	0.50%	NAV	-7.43%	-4.52%	3.13%	-16.60%	-	-	-	-0.84%
		Market Price	-7.72%	-5.29%	2.99%	-16.82%	-	-	-	-1.12%
		Index	-7.24%	-4.23%	1.58%	-16.22%	-	-	-	-1.66%
Data Center Reits & Digital Infrastructure Inception Date 10/27/2020	0.50%	NAV	-7.81%	-3.84%	-11.33%	-30.47%	-	-	-	-6.16%
		Market Price	-7.47%	-3.25%	-11.32%	-30.97%	-	-	-	-6.29%
		Index	-8.02%	-4.08%	-11.50%	-30.51%	-	-	-	-6.19%
Emerging Markets Internet & E-Commerce Inception Date 11/09/2020	0.65%	NAV	-10.97%	4.00%	-50.60%	-28.05%	-	-	-	-28.73%
		Market Price	-10.84%	4.26%	-50.13%	-28.81%	-	-	-	-29.18%
		Index	-10.94%	4.18%	-49.96%	-27.76%	-	-	-	-28.34%
Renewable Energy Producers Inception Date 05/27/2015	0.65%	NAV	-7.26%	-9.53%	6.90%	-15.06%	-2.25%	3.81%	-	1.66%
		Market Price	-8.07%	-10.59%	5.94%	-15.15%	-2.31%	3.74%	-	1.62%
		Index	-7.28%	-9.49%	10.03%	-14.73%	-1.88%	4.22%	-	2.05%
China Innovation Inception Date 02/22/2021	0.75%	NAV	-10.70%	3.76%	-50.17%	-32.37%	-	-	-	-31.87%
		Market Price	-11.15%	1.48%	-50.49%	-33.05%	-	-	-	-32.39%
		Index	-	-	-	-	-	-	-	-
Clean Water Inception Date 04/08/2021	0.50%	NAV	-2.29%	2.39%	-0.86%	-19.62%	-	-	-	-3.14%
		Market Price	-2.49%	1.89%	-1.07%	-19.81%	-	-	-	-3.18%
		Index	-2.33%	2.40%	-0.34%	-19.38%	-	-	-	-2.83%
Agtech and Food Innovation ETF Inception Date 07/12/2021	0.50%	NAV	-7.93%	-0.85%	-38.19%	-27.09%	-	-	-	-31.72%
		Market Price	-8.11%	-0.72%	-37.92%	-27.23%	-	-	-	-31.62%
		Index	-7.93%	-0.78%	-37.81%	-26.76%	-	-	-	-31.44%
Hydrogen Inception Date 07/12/2021	0.50%	NAV	-9.79%	-1.63%	-51.77%	-46.74%	-	-	-	-42.98%
		Market Price	-10.16%	0.08%	-51.57%	-47.24%	-	-	-	-43.23%
		Index	-9.75%	-1.45%	-51.56%	-46.64%	-	-	-	-42.84%



Blockchain Inception Date 07/12/2021	0.50%	NAV	-4.57%	22.40%	-78.96%	-85.23%	-	-	-	-74.42%
		Market Price	-5.77%	20.79%	-79.09%	-85.16%	-	-	-	-74.33%
		Index	-4.82%	21.54%	-79.50%	-85.50%	-	-	-	-74.78%
Solar Inception Date 09/08/2021	0.50%	NAV	-7.99%	-4.49%	-12.88%	-12.44%	-	-	-	-12.13%
		Market Price	-8.93%	-5.49%	-13.17%	-13.31%	-	-	-	-12.23%
		Index	-7.86%	-4.25%	-12.07%	-11.95%	-	-	-	-11.65%
Wind Energy Inception Date 09/08/2021	0.50%	NAV	-6.08%	0.61%	-28.53%	-22.26%	-	-	-	-21.31%
		Market Price	-7.36%	-1.75%	-28.97%	-22.94%	-	-	-	-21.58%
		Index	-6.04%	0.70%	-28.00%	-21.90%	-	-	-	-20.93%
Disruptive Materials Inception Date 01/24/22	0.59%	NAV	-10.07%	-3.20%	-13.68%	-	-	-	-	-
		Market Price	-10.38%	-3.92%	-13.21%	-	-	-	-	-
		Index	-10.04%	-3.09%	-13.23%	-	-	-	-	-
Green Building Inception Date 04/11/22	0.45%	NAV	-3.66%	3.77%	-13.68%	-	-	-	-	-
		Market Price	-3.97%	3.29%	-13.84%	-	-	-	-	-
		Index	-3.66%	3.87%	-13.74%	-	-	-	-	-
Metaverse Inception Date 04/26/22	0.50%	NAV	-3.20%	7.60%	-12.71%	-	-	-	-	-
		Market Price	-3.89%	6.29%	-13.05%	-	-	-	-	-
		Index	-3.19%	7.69%	-12.44%	-	-	-	-	-



P/S AND EV/S

Source: Bloomberg, data is as of 2/28/23 and 1/31/23, Global X ETFs.

Ticker	Name	P/S		EV/S	
		2/28/23	1/31/23	2/28/23	1/31/23
GNOM	Global X Genomics & Biotechnology ETF	6.43	6.57	6.48	6.09
BUG	Global X Cybersecurity ETF	5.60	5.62	5.51	5.55
HYDR	Global X Hydrogen ETF	5.39	6.23	4.48	5.19
CHB	Global X China Biotech Innovation ETF	5.15	5.54	4.70	5.08
VR	Global X Metaverse ETF	4.07	4.06	3.90	3.92
BOTZ	Global X Robotics & Artificial Intelligence ETF	3.92	3.98	3.87	3.86
CLOU	Global X Cloud Computing ETF	3.85	4.18	4.09	4.41
AGNG	Global X Aging Population ETF	3.66	3.76	4.34	4.38
VPN	Global X Data Center REITs & Digital Infrastructure ETF	3.58	3.12	5.24	4.46
HERO	Global X Video Games & Esports ETF	3.06	3.17	3.03	3.09
SOCL	Global X Social Media ETF	3.00	3.19	2.80	3.01
FINX	Global X FinTech ETF	3.00	3.07	3.68	3.83
EDOC	Global X Telemedicine & Digital Health ETF	2.88	3.13	2.92	3.17
AIQ	Global X Artificial Intelligence & Technology ETF	2.88	2.98	2.92	3.04
SNSR	Global X Internet of Things ETF	2.72	2.72	2.99	2.99
KEJI	Global X China Innovation ETF	2.51	2.79	1.92	2.25
RNRG	Global X Renewable Energy Producers ETF	2.42	2.69	4.45	4.66
AQWA	Global X Clean Water ETF	2.30	2.40	3.15	3.26
EWEB	Global X Emerging Markets Internet & E-commerce ETF	2.27	2.53	2.09	2.49
RAYS	Global X Solar ETF	2.27	2.46	2.77	3.00
SPX	S&P 500 Index	2.26	2.34	2.53	2.62
LIT	Global X Lithium and Battery Tech ETF	2.02	2.29	2.06	2.27
MILN	Global X Millennial Consumer ETF	1.95	2.04	2.24	2.33
POTX	Global X Cannabis ETF	1.92	2.42	2.14	2.60
BKCH	Global X Blockchain ETF	1.90	1.85	2.48	2.42
WNDY	Global X Wind Energy ETF	1.86	2.15	3.17	3.12
EDUT	Global X Education ETF	1.79	2.01	1.86	2.17
GRNR	Global X Green Building ETF	1.76	1.86	3.12	3.34
ACWI	MSCI ACWI Index	1.75	1.81	1.99	2.05
DMAT	Global X Disruptive Materials ETF	1.59	1.71	1.80	1.92
PAVE	Global X U.S. Infrastructure ETF	1.44	1.39	1.72	1.66
CTEC	Global X Cleantech ETF	1.34	1.47	1.64	1.79
BFIT	Global X Health & Wellness ETF	1.27	1.33	1.46	1.51
KROP	Global X AgTech & Food Innovation ETF	1.24	1.35	1.60	1.70
EBIZ	Global X E-commerce ETF	1.06	1.25	1.14	1.16
DRIV	Global X Autonomous & Electric Vehicles ETF	0.94	0.90	1.03	0.96

Note: P/S and EV/S refer to price-to-sales and enterprise value-to-sales, respectively.



F12M SALES GROWTH, PSG, AND EVSG

Source: Bloomberg, data is as of 2/28/23 and 1/31/23, Global X ETFs.

Ticker	Name	F12M Sales (%)		PSG		EVSG	
		2/28/23	1/31/23	2/28/23	1/31/23	2/28/23	1/31/23
RAYS	Global X Solar ETF	46.5%	49.8%	0.05	0.05	0.06	0.06
LIT	Global X Lithium and Battery Tech ETF	36.6%	38.8%	0.06	0.06	0.06	0.06
CHB	Global X China Biotech Innovation ETF	35.5%	35.7%	0.15	0.16	0.13	0.14
POTX	Global X Cannabis ETF	27.5%	40.5%	0.07	0.06	0.08	0.06
BUG	Global X Cybersecurity ETF	27.4%	32.2%	0.20	0.17	0.20	0.17
KEJI	Global X China Innovation ETF	24.7%	24.6%	0.10	0.11	0.08	0.09
BKCH	Global X Blockchain ETF	24.2%	21.0%	0.08	0.09	0.10	0.12
HERO	Global X Video Games & Esports ETF	14.5%	15.6%	0.21	0.20	0.21	0.20
EWEB	Global X Emerging Markets Internet & E-commerce ETF	12.8%	14.2%	0.18	0.18	0.16	0.18
EDOC	Global X Telemedicine & Digital Health ETF	12.6%	11.9%	0.23	0.26	0.23	0.27
EBIZ	Global X E-commerce ETF	11.1%	13.0%	0.10	0.10	0.10	0.09
EDUT	Global X Education ETF	11.0%	13.5%	0.16	0.15	0.17	0.16
HYDR	Global X Hydrogen ETF	9.1%	13.5%	0.59	0.46	0.49	0.39
DMAT	Global X Disruptive Materials ETF	8.7%	3.4%	0.18	0.50	0.21	0.56
CLOU	Global X Cloud Computing ETF	8.7%	8.8%	0.44	0.48	0.47	0.50
BOTZ	Global X Robotics & Artificial Intelligence ETF	7.7%	5.2%	0.51	0.77	0.50	0.75
CTEC	Global X Cleantech ETF	7.3%	11.4%	0.18	0.13	0.22	0.16
VR	Global X Metaverse ETF	6.9%	6.6%	0.59	0.61	0.57	0.59
BFIT	Global X Health & Wellness ETF	6.5%	8.3%	0.19	0.16	0.22	0.18
SOCL	Global X Social Media ETF	6.1%	4.4%	0.49	0.72	0.46	0.68
AIQ	Global X Artificial Intelligence & Technology ETF	6.1%	5.8%	0.47	0.51	0.48	0.52
MILN	Global X Millennial Consumer ETF	5.8%	6.0%	0.34	0.34	0.39	0.39
GRNR	Global X Green Building ETF	5.5%	9.4%	0.32	0.20	0.56	0.35
DRIV	Global X Autonomous & Electric Vehicles ETF	5.5%	4.2%	0.17	0.21	0.19	0.23
SPX	S&P 500 Index	5.2%	4.1%	0.43	0.57	0.48	0.64
SNSR	Global X Internet of Things ETF	4.8%	3.6%	0.56	0.76	0.62	0.84
AGNG	Global X Aging Population ETF	4.2%	3.8%	0.88	1.00	1.04	1.17
AQWA	Global X Clean Water ETF	3.9%	4.8%	0.58	0.50	0.80	0.68
ACWI	MSCI ACWI Index	3.8%	3.7%	0.47	0.50	0.53	0.56
VPN	Global X Data Center REITs & Digital Infrastructure ETF	2.9%	0.6%	1.24	4.94	1.81	7.07
FINX	Global X FinTech ETF	-0.2%	2.1%	-17.59	1.44	-21.54	1.79
PAVE	Global X U.S. Infrastructure Development ETF	-0.7%	-1.8%	-2.16	-0.78	-2.57	-0.93
RNRG	Global X Renewable Energy Producers ETF	-0.7%	-0.7%	-3.48	-3.79	-6.41	-6.57
WNDY	Global X Wind Energy ETF	-1.2%	-3.1%	-1.55	-0.69	-2.64	-1.01
KROP	Global X AgTech & Food Innovation ETF	-1.3%	1.2%	-0.94	1.10	-1.21	1.38
GNOM	Global X Genomics & Biotechnology ETF	-18.5%	-20.6%	-0.35	-0.32	-0.35	-0.30

Note: F12 Sales Growth refers to the consensus analyst expectations for total sales growth in the next 12 months.

*Please note that month-over-month variations in F12M Sales may be the result of Bloomberg coverage and estimates of underlying securities.

PSG and EVSG refer to Price-to-Sales over F12 Sales Growth and Enterprise Value over F12 Sales Growth, respectively. N/As reflect a negative growth number in the denominator and similar to traditional PEG ratios aren't typically displayed as such (hence the N/A).

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- **Multi-Theme:** [Thematic Growth ETF \(GXTG\)](#), [China Innovation ETF \(KEJI\)](#)

Footnotes

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