

GLOBAL X ETFs RESEARCH

The Next Big Theme: January 2021

Authored by:

Pedro Palandrani,
Andrew Little

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Topic: Disruptive
Technology, Physical
Environment, People &
Demographics



Autonomous & Electric Vehicles

Apple Emerges as a Key Player in the AV Industry

Apple has long been coined as a frontrunner in technology. Keeping up with this reputation, efforts to develop their own self-driving car equipped with groundbreaking battery technology may bear some benefits in the next few years. Although it has been long rumored, new updates allow consumers to have a date in mind: 2024. The task has been named “Project Titan” and was initiated in 2014 with minimal progress. In 2019, project manager Doug Field who previously worked at Tesla, reconstructed the team. Features that should set apart Apple’s vehicles include a significantly cheaper monocoell battery with a larger range and lidar sensors, which have already been implemented into iPhone 12 Pro and iPad Pro technology, to scan distances.¹ Apple is considering creating their batteries out of Lithium iron phosphate (LFP) to combat the possibility of the battery overheating.² A company as established as Apple deciding to partake as a newcomer in the industry demonstrates the broadening potential for autonomous vehicles and electric vehicles in disrupting transportation.

Genomics

An Improved Lifestyle with CRISPR Gene-Editing

The first person in the United States has been successfully treated for Sickle Cell Disease, representing a milestone in CRISPR gene-editing technology. Patient Victoria Gray was able to fly on a plane just one year after receiving treatment, despite spending her entire life away from planes due to fears of potential side effects. Her continual improvement is providing evidence of CRISPR gene-editing’s efficacy, a technique that makes very precise changes directly to one’s DNA to treat certain diseases. In addition to Gray, nine other patients received similar treatments, and all are responding well and appear to be fully cured of their diseases.³ The treatment increased protein levels in the bloodstream known as “fetal hemoglobin” through gene-editing and a round of chemotherapy to allow for new cell regeneration.⁴ CRISPR has already been implemented in the treatment of cancer and vision restoration, with plans to extend its applications much more broadly.

Health & Wellness

Peloton Rides Its Way to the Top



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Amidst the pandemic, at-home workout equipment company Peloton was able to quickly become a household name. Now, in an attempt to expand manufacturing capabilities, Peloton Interactive has made a deal to buy fitness-equipment company Precor for \$420 million.⁵ Peloton's difficulties with mass production to meet consumer demand this past year could be rectified following the close of this deal in early 2021. Precor's strength in scaling manufacturing is something Peloton hopes to absorb into its own operations. In addition to warehouse and manufacturing space, Peloton will acquire about 100 Precor R&D engineers.⁶ Precor intends to remain a subsidiary of Peloton. The inability to step foot in gyms amid the pandemic has proven beneficial for Peloton's at-home workout gear and continues to remain a source of growth for the company.

CleanTech

Japan to Join Asia's Clean Energy Initiative

Japan's Prime Minister Yoshihide Suga announced his intentions to reach net-zero carbon emissions by 2050 may prove fruitful for the economy. The annual economic impact of altering existing business models and developing new technologies could reach 90 trillion yen in 2030, and 190 trillion yen in 2050.⁷ A main strategy Japan plans to adopt in its mission is going electric in the transportation and heating segments. Other notable goals for Japan include banning gasoline-only cars by mid-2030s, halving electricity consumption by semiconductors by 2030 and reducing agricultural emissions to zero.⁸

Cloud Computing & Social Media

Twitter Enlists the Help of AWS' Global Cloud

Twitter struck a new multi-year deal with Amazon Web Services (AWS) to serve as Twitter's new public cloud provider. Hoping to improve consumer experience, the use of AWS could enhance Twitter's storage and security. The two companies plan on collaborating to create an infrastructure enabling the social media platform to run with increased reliability. Twitter will adopt AWS Graviton2's processors to enhance its cloud-based programming purposes and AWS container services for the rollout of new features on the platform. In addition to these new upgrades, Twitter intends to continue its previous AWS usage through Amazon CloudFront and Amazon DynamoDB. CloudFront offers Twitter a decreased wait time in data processing while DynamoDB serves as a key-value database processing upwards of 20 million requests per second.⁹

Lithium

Tesla Looks to Yahua for Lithium Supply Deal

Yahua Industrial Group signed a deal with electric vehicle manufacturer Tesla to supply battery-grade lithium hydroxide for the next five years. The value of the agreement with Yahua's wholly owned subsidiary Yaan Lithium, procures about 12,600-17,600 tons annually.¹⁰ This past year Yaan Lithium was able to double its production at its lithium hydroxide plant despite the pandemic. Tesla already sources lithium from one of the world's largest lithium producers, China's Ganfeng Lithium, but the deal with Yahua indicates the firm's growing need for lithium supply and a desire to diversify suppliers.¹¹

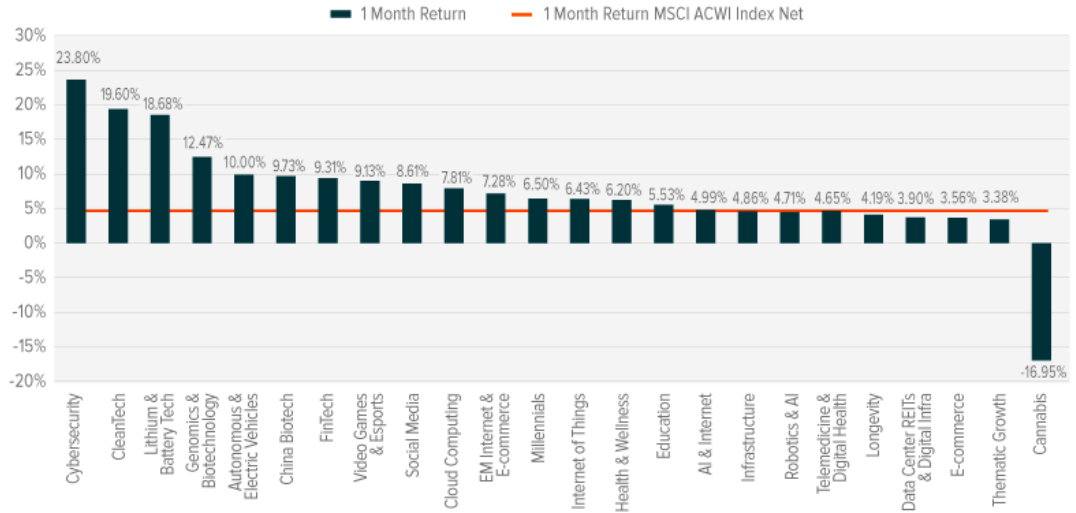


THE NUMBERS

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

DECEMBER 2020 THEMATIC ETF RETURNS

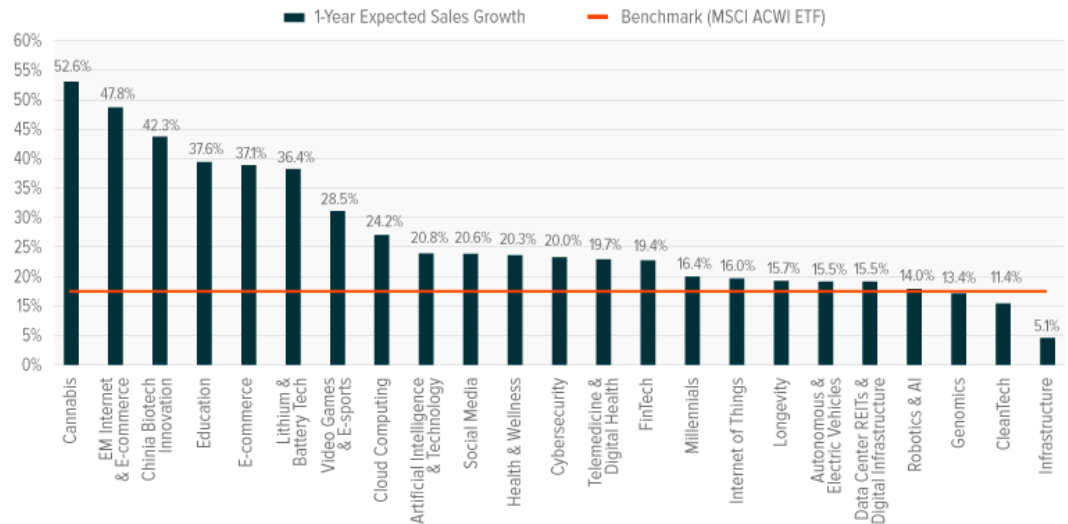
Source: Bloomberg, December 31, 2020, Global X ETFs.



Note: The performance data quoted represents past performance and does not guarantee future results.

THEMATIC SALES GROWTH

Source: Bloomberg, December 31, 2020, Global X ETFs.



Note: Forward looking based on data and analysis from 12/31/2020. 1 year annualized forward sales growth is the consensus analyst expectations for total sales growth in the next 12 months.



Standard Performance				Cumulative % Data as of month end 12/31/20			Avg. Annualized % Data as of quarter end 12/31/20					
				1 Month	3 Month	Since Inception	1 Year	3 Year	5 Year	10 Year	Since Inception	
	Gross Expense Ratio	Net Expense Ratio	Ticker									
Robotics & Artificial Intelligence Inception Date 9/12/2016	0.68%	0.68%	BOTZ	NAV	4.12%	18.94%	128.93%	50.68%	12.73%	-	-	21.24%
				Market Price	4.71%	18.82%	129.28%	51.80%	12.77%	-	-	21.29%
				Index	4.16%	19.14%	131.37%	51.65%	13.15%	-	-	21.52%
FinTech Inception Date 9/12/2016	0.68%	0.68%	FINX	NAV	9.24%	22.99%	210.60%	53.67%	28.87%	-	-	30.16%
				Market Price	9.31%	22.92%	210.67%	53.75%	28.70%	-	-	30.16%
				Index	9.38%	23.24%	219.31%	54.57%	29.74%	-	-	30.96%
Internet of Things Inception Date 9/12/2016	0.68%	0.68%	SNSR	NAV	6.46%	21.65%	120.37%	35.17%	18.53%	-	-	20.17%
				Market Price	6.43%	21.16%	120.16%	34.93%	18.38%	-	-	20.15%
				Index	6.51%	21.83%	123.44%	35.87%	18.90%	-	-	20.54%
Cloud Computing Inception Date 4/12/2019	0.68%	0.68%	CLOU	NAV	7.93%	16.79%	85.28%	77.08%	-	-	-	43.23%
				Market Price	7.81%	16.83%	86.09%	77.03%	-	-	-	43.59%
				Index	8.01%	17.02%	87.19%	78.17%	-	-	-	43.88%
Social Media Inception Date 11/14/2011	0.65%	0.65%	SOCL	NAV	8.83%	27.05%	325.32%	78.18%	23.28%	25.80%	-	17.19%
				Market Price	8.61%	26.21%	324.49%	78.40%	23.27%	25.83%	-	17.16%
				Index	8.88%	27.26%	347.06%	79.26%	24.06%	26.57%	-	17.81%
Artificial Intelligence & Technology Inception Date 5/11/2018	0.68%	0.68%	AIQ	NAV	5.40%	16.39%	84.21%	52.94%	-	-	-	26.07%
				Market Price	4.99%	16.13%	84.35%	52.88%	-	-	-	26.10%
				Index	5.43%	16.56%	85.88%	53.55%	-	-	-	26.43%
Autonomous & Electric Vehicles Inception Date 4/13/2018	0.68%	0.68%	DRIV	NAV	10.07%	42.08%	66.79%	62.21%	-	-	-	20.74%
				Market Price	10.00%	42.04%	67.14%	62.55%	-	-	-	20.84%
				Index	10.14%	42.24%	67.19%	62.71%	-	-	-	20.79%
Lithium & Battery Technology Inception Date 7/22/2010	0.75%	0.75%	LIT	NAV	18.65%	55.63%	132.63%	126.51%	18.75%	27.58%	4.66%	8.42%
				Market Price	18.68%	54.83%	133.46%	127.68%	18.87%	27.74%	4.63%	8.46%
				Index	18.56%	55.40%	143.52%	125.58%	18.54%	27.61%	5.13%	8.89%
Genomics & Biotechnology Inception Date 4/5/2019	0.50%	0.50%	GNOM	NAV	12.43%	31.96%	54.59%	51.62%	-	-	-	28.52%
				Market Price	12.47%	31.62%	57.68%	51.42%	-	-	-	29.99%
				Index	12.43%	32.07%	56.16%	52.38%	-	-	-	29.15%
Millennials Inception Date 5/4/2016	0.50%	0.50%	MILN	NAV	6.29%	20.14%	155.91%	44.92%	25.29%	-	-	22.36%
				Market Price	6.50%	20.20%	155.19%	44.94%	25.25%	-	-	22.29%
				Index	6.32%	20.31%	161.50%	45.76%	25.96%	-	-	22.89%
Longevity Inception Date 5/9/2016	0.50%	0.50%	LNGR	NAV	4.68%	9.41%	91.01%	19.28%	13.97%	-	-	14.96%
				Market Price	4.19%	9.06%	94.34%	18.96%	13.69%	-	-	15.39%
				Index	4.73%	9.53%	93.61%	19.60%	14.21%	-	-	15.27%
Health & Wellness Inception Date 5/9/2016	0.50%	0.50%	BFIT	NAV	6.34%	16.91%	77.47%	18.19%	16.27%	-	-	13.15%
				Market Price	6.20%	16.72%	79.19%	18.06%	16.13%	-	-	13.39%
				Index	6.37%	17.07%	81.11%	18.70%	16.72%	-	-	13.63%
E-Commerce Inception Date 11/27/2018	0.50%	0.50%	EBIZ	NAV	3.34%	17.60%	113.96%	74.38%	-	-	-	43.85%
				Market Price	3.56%	17.60%	114.36%	74.33%	-	-	-	43.98%
				Index	3.39%	17.68%	116.07%	75.12%	-	-	-	44.42%
Infrastructure Inception Date 3/6/2017	0.47%	0.47%	PAVE	NAV	5.12%	26.41%	44.96%	20.10%	8.99%	-	-	10.22%
				Market Price	4.86%	26.21%	44.89%	19.84%	8.87%	-	-	10.20%
				Index	5.18%	26.61%	47.59%	20.67%	9.49%	-	-	10.71%
Cannabis Inception Date 9/7/2019	0.50%	0.50%	POTX	NAV	-17.00%	38.14%	-56.81%	-30.37%	-	-	-	-47.94%
				Market Price	-16.95%	37.36%	-57.68%	-30.58%	-	-	-	-48.75%
				Index	-17.30%	36.84%	-61.12%	-36.13%	-	-	-	-51.91%
Video Games & Esports Inception Date 10/25/2019	0.50%	0.50%	HERO	NAV	9.08%	15.13%	108.37%	90.95%	-	-	-	86.02%
				Market Price	9.13%	15.08%	108.83%	91.15%	-	-	-	86.37%
				Index	9.16%	15.27%	109.58%	92.03%	-	-	-	86.59%
Cybersecurity Inception Date 10/25/2019	0.60%	0.50%*	BUG	NAV	23.84%	29.36%	85.97%	71.17%	-	-	-	68.96%
				Market Price	23.80%	29.83%	89.91%	70.78%	-	-	-	71.99%
				Index	23.82%	29.43%	87.12%	72.34%	-	-	-	69.58%
Thematic Growth Inception Date 10/25/2019	0.50%	0.50%	GXTG	NAV	3.59%	29.84%	74.98%	61.74%	-	-	-	60.48%
				Market Price	3.38%	29.53%	76.38%	61.02%	-	-	-	61.57%
				Index	3.55%	29.80%	74.80%	61.62%	-	-	-	60.12%



Education Inception Date 7/10/2020	0.50%	0.50%	EDUT	NAV	5.19%	10.55%	18.62%	-	-	-	-	18.62%
				Market Price	5.53%	11.16%	19.28%	-	-	-	-	19.28%
				Index	5.20%	10.66%	18.87%	-	-	-	-	18.87%
Telemedicine & Digital Health Inception Date 7/29/2020	0.68%	0.68%	EDOC	NAV	4.76%	15.01%	26.63%	-	-	-	-	26.63%
				Market Price	4.65%	14.53%	26.63%	-	-	-	-	26.63%
				Index	4.81%	15.21%	26.91%	-	-	-	-	26.91%
China Biotech Inception Date 9/22/2020	0.65%	0.65%	CHB	NAV	9.74%	6.59%	8.22%	-	-	-	-	8.22%
				Market Price	9.73%	5.89%	8.42%	-	-	-	-	8.42%
				Index	9.80%	6.79%	8.44%	-	-	-	-	8.44%
CleanTech Inception Date 10/27/2020	0.50%	0.50%	CTEC	NAV	19.16%	-	50.39%	-	-	-	-	50.39%
				Market Price	19.60%	-	50.79%	-	-	-	-	50.79%
				Index	19.19%	-	50.50%	-	-	-	-	50.50%
Data Center REITs & Digital Infrastructure Inception Date 10/27/2020	0.50%	0.50%	VPN	NAV	3.86%	-	3.65%	-	-	-	-	3.65%
				Market Price	3.90%	-	4.39%	-	-	-	-	4.39%
				Index	3.81%	-	3.64%	-	-	-	-	3.64%
Emerging Markets Internet & E-commerce Inception Date 11/9/2020	0.65%	0.65%	EMBD	NAV	8.63%	-	8.92%	-	-	-	-	8.92%
				Market Price	7.28%	-	8.65%	-	-	-	-	8.65%
				Index	8.69%	--	8.99%	-	-	-	-	8.99%

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. *Net expense ratio reflects fees incurred by the Fund after waivers and reimbursements. Fee waivers for BUG are contractual and into effect until at least April 1, 2021.

P/S AND EV/S

Source: Bloomberg, data is as of 12/31/20 and 11/30/20, Global X ETFs.

Ticker	Name	P/S		EV/S	
		12/31/20	11/30/20	12/31/20	11/30/20
GNOM	Global X Genomics & Biotechnology ETF	14.46	12.84	14.17	12.34
CLOU	Global X Cloud Computing ETF	10.48	9.73	11.05	10.24
BUG	Global X Cybersecurity ETF	9.68	7.75	9.46	7.52
CHB	Global X China Biotech Innovation ETF	9.45	8.63	9.94	9.06
FINX	Global X FinTech ETF	8.74	8.02	9.86	9.08
SOCL	Global X Social Media ETF	6.49	5.99	7.39	6.79
HERO	Global X Video Games & Esports ETF	5.64	5.17	5.64	5.12
EWEB	Global X Emerging Markets Internet & E-commerce ETF	5.46	5.01	5.40	4.46
EDOC	Global X Telemedicine & Digital Health ETF	5.46	5.41	7.04	6.91
VPN	Global X Data Center REITs & Digital Infrastructure ETF	5.41	5.23	7.35	7.15
POTX	Global X Cannabis ETF	4.66	5.66	5.57	6.77
AIQ	Global X Future Analytics Tech ETF	4.57	4.34	4.78	4.53
EDUT	Global X Education ETF	4.30	4.07	4.69	4.43
LNGR	Global X Longevity Thematic ETF	4.22	3.99	4.82	4.62
BOTZ	Global X Robotics & Artificial Intelligence ETF	3.32	3.18	3.44	3.30
MILN	Global X Millennials Thematic ETF	3.10	2.92	3.74	3.55
LIT	Global X Lithium and Battery Tech ETF	2.85	2.48	3.17	2.82
SNSR	Global X Internet of Things ETF	2.83	2.66	3.53	3.39
SPX	S&P 500 Index	2.79	2.65	3.20	3.06
EBIZ	Global X E-commerce ETF	2.64	2.54	2.58	2.35
CTEC	Global X Cleantech ETF	2.43	2.05	2.93	2.53
ACWI	ACWI Index	2.09	2.00	2.56	2.46
BFIT	Global X Health & Wellness Thematic ETF	1.65	1.56	1.95	1.84
PAVE	Global X U.S. Infrastructure Development ETF	1.30	1.23	1.61	1.54
DRIV	Global X Autonomous & Electric Vehicles ETF	1.25	1.14	1.48	1.35

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 12/31/20 and 11/30/20, Global X ETFs.

Ticker	Name	F12M Sales (%)		PSG		EVSG	
		12/31/20	11/30/20	12/31/20	11/30/20	12/31/20	11/30/20
POTX	Global X Cannabis ETF	52.6%	49.8%	0.09	0.11	0.11	0.14
EWEB	Global X Emerging Markets Internet & E-commerce ETF	47.8%	42.8%	0.11	0.12	0.11	0.10
CHB	Global X China Biotech Innovation ETF	42.3%	37.3%	0.22	0.23	0.24	0.24
EDUT	Global X Education ETF	37.6%	35.8%	0.11	0.11	0.12	0.12
EBIZ	Global X E-commerce ETF	37.1%	32.0%	0.07	0.08	0.07	0.07
LIT	Global X Lithium and Battery Tech ETF	36.4%	31.7%	0.08	0.08	0.09	0.09
HERO	Global X Video Games & Esports ETF	28.5%	25.6%	0.20	0.20	0.20	0.20
CLOU	Global X Cloud Computing ETF	24.2%	22.6%	0.43	0.43	0.46	0.45
AIO	Global X Future Analytics ETF	20.8%	19.0%	0.22	0.23	0.23	0.24
SOCL	Global X Social Media ETF	20.6%	18.9%	0.31	0.32	0.36	0.36
BFIT	Global X Health & Wellness Thematic ETF	20.3%	17.4%	0.08	0.09	0.10	0.11
BUG	Global X Cybersecurity ETF	20.0%	20.4%	0.48	0.38	0.47	0.37
EDOC	Global X Telemedicine & Digital Health ETF	19.7%	20.9%	0.28	0.26	0.36	0.33
FINX	Global X FinTech ETF	19.4%	15.6%	0.45	0.51	0.51	0.58
MILN	Global X Millennials Thematic ETF	16.4%	15.0%	0.19	0.19	0.23	0.24
SNSR	Global X Internet of Things ETF	16.0%	13.5%	0.18	0.20	0.22	0.25
LNGR	Global X Longevity Thematic ETF	15.7%	14.3%	0.27	0.28	0.31	0.32
DRIV	Global X Autonomous & Electric Vehicles ETF	15.5%	13.9%	0.08	0.08	0.10	0.10
VPN	Global X Data Center REITs & Digital Infrastructure ETF	15.5%	13.1%	0.35	0.40	0.47	0.55
BOTZ	Global X Robotics & Artificial Intelligence ETF	14.0%	13.1%	0.24	0.24	0.25	0.25
GNOM	Global X Genomics & Biotechnology ETF	13.4%	13.0%	1.08	0.99	1.05	0.95
ACWI	ACWI Index	13.4%	11.9%	0.16	0.17	0.19	0.21
SPX	S&P 500 Index	12.6%	11.2%	0.22	0.24	0.25	0.27
CTEC	Global X Cleantech ETF	11.4%	6.3%	0.21	0.33	0.26	0.40
PAVE	Global X U.S. Infrastructure Development ETF	5.1%	2.4%	0.26	0.50	0.32	0.63

Note: F12 Sales Growth refers to the consensus analyst expectations for total sales growth in the next 12 months. 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 \(GXTG\)](#)

1. Reuters, "Exclusive: Apple targets car production by 2024 and eyes 'next level' battery technology", Dec 21, 2020.
2. Ibid
3. NPR, "1st Patients To Get CRISPR Gene-Editing Treatment Continue To Thrive", Dec 15, 2020.
4. Ibid
5. Bloomberg, "Peloton Makes Biggest Purchase With \$420 Million Precor Deal", Dec 21, 2020.
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7. Bloomberg Green, "Japan's Green Push Seen Sparking \$1.8 Trillion Windfall by 2050", Dec 24, 2020.
8. Ibid
9. Fierce Telecom, "Twitter jumps on public cloud with AWS to strengthen its user feeds", Dec 15, 2020.
10. S&P Global, "Tesla indicates scope of lithium demand with latest supply deal, analysts say", Dec 31, 2020.
11. Reuters, "China's Yuhua agrees five- year deal to supply lithium to Tesla", Dec 29, 2020.

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Information Technology companies can be affected by rapid product obsolescence, and intense industry competition. Risks include disruption in service caused by hardware or software failure; interruptions or delays in service by third-parties; security breaches involving certain private, sensitive, proprietary and confidential information managed and transmitted; and privacy concerns and laws, evolving Internet regulation and other foreign or domestic regulations that may limit or otherwise affect the operations. Healthcare, Genomics, Biotechnology and Medical



Device companies can be affected by government regulations, expiring patents, rapid product obsolescence, and intense industry competition. CleanTech Companies typically face intense competition, short product lifecycles and potentially rapid product obsolescence. These companies may be significantly affected by fluctuations in energy prices and in the supply and demand of renewable energy, tax incentives, subsidies and other governmental regulations and policies. The risks related to investing social media companies include disruption in service caused by hardware or software failure, interruptions or delays in service by third-parties, security breaches involving certain private, sensitive, proprietary and confidential information managed and transmitted by social media companies, and privacy concerns and laws, evolving Internet regulation and other foreign or domestic regulations that may limit or otherwise affect the operations of such companies. There are additional risks associated with investing in lithium and the lithium mining industry.

Carefully consider the Funds' investment objectives, risk factors, charges, and expenses before investing. This and additional information can be found in the Funds' summary or full prospectus, which may be obtained by calling 1.888.493.8631, or by visiting globalxetfs.com. Please read the prospectus carefully before investing.

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