

GLOBAL X ETFs RESEARCH

# The Next Big Theme: November 2020

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Topic: Disruptive  
Technology, Physical  
Environment, People &  
Demographics



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## CleanTech

### *Asia's Mission to Eliminate Carbon Emissions*

South Korea, China, and Japan are taking steps to zero out their carbon footprints. South Korea passed a \$38 billion Green New Deal that aims to triple renewable electricity generation by 2025.<sup>1</sup> If that happens, South Korea could achieve carbon neutrality by 2050. As the world's largest polluter, China's goal of reaching carbon neutrality by 2060 could cost upward of \$15 trillion.<sup>2</sup> As of now, China employs carbon sinks and large-scale carbon capture, utilization, and storage as their primary methods for emissions reduction. China's success is critical to keeping global temperatures from rising by more than 1.5°C above pre-industrial levels by the end of the century, a key benchmark for climate change mitigation.<sup>3</sup> Additionally, Japan recently announced their plan to reach carbon neutrality by 2050, using offshore wind generation and battery storage to reduce emissions.<sup>4</sup>

## FinTech

### *Cryptocurrency Meets Mainstream Digital Payments*

PayPal, a pioneer in the digital payments industry, now offers users the ability to transact with Bitcoin and other cryptocurrencies. The platform's expanded cryptocurrency functionality also allows users to buy, hold, and sell Bitcoin, Bitcoin Cash, Ethereum, and Litecoin.<sup>5</sup> For PayPal, adding new payment options diversifies the types of transactions users can conduct on the platform and can mean increased user monetization. For perspective, the company's average revenue per user (ARPU) in Q3 2020 was \$15.78, a stark contrast from the \$300–500 seen in traditional consumer banks.<sup>6,7</sup> Square and Robinhood are two examples of companies that increased revenue after implementing cryptocurrency services. Square reported that revenue from Bitcoin reached \$875 million in Q2 2020, a 600% year-over-year increase.<sup>8</sup>

## Video Games & Esports

### *Roblox Hits the IPO Button*

Online gaming platform Roblox, that allows users to program games and play games created by other users in an immersive 3-D world, officially announced its plan to go public. According to one estimate, the IPO



could boost the company's valuation to as much as \$8 billion, double the \$4 billion valuation estimated in February of this year.<sup>9</sup> As of July, Roblox had 150 million monthly active users and more than \$140 million annualized revenue. The company's potential capital raise is another sign that the video game industry is on the cusp of a transformational decade, driven by cloud gaming, new consoles and new monetization opportunities.<sup>10</sup>

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## **E-commerce**

### *Prime Time for U.S. E-commerce*

Amazon's Prime Day, which offers Prime users two days of savings and deals from businesses, added further fuel to what is fast becoming a booming e-commerce economy. Taking place from October 13-14<sup>th</sup>, global Prime Day sales totaled \$10.4 billion, up 45.2% from \$7.2 billion in 2019.<sup>11</sup> Moving Prime Day to October from July likely helped, with consumers still shopping online due to the pandemic and starting their holiday gift shopping. While an encouraging sign of greater e-commerce penetration in the U.S., Prime Day still trails Alibaba's Singles' Day event in sales by a wide margin due regional differences in e-commerce penetration. In China, retail e-commerce penetration sits at 25.2%, versus 16.1% in the U.S. However, U.S. e-commerce is rapidly growing – online sales in the U.S. are expected to total \$795 billion in 2020, up 32% year-over-year.<sup>12</sup> Aside from Amazon, other retailers including Walmart, Target, Kohl's and J.C. Penney are hosting their own events and similarly benefitting from heightened e-commerce activity.<sup>13</sup>

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## **Genomics**

### *Nano-Carriers Could Enable Precision Oncology*

Scientists in Germany and Spain developed a synthesized DNA transport system that could change the way we deliver cancer drugs to diseased cells. In summary, the delivery system uses synthetic nano-carriers made up of mucin, glycerol, and synthetic DNA to package therapeutics, which are then only released upon encountering an RNA sequence unique to cancer cells. Thus far, scientists tested the system in tumor models in cell cultures to encouraging results. With further and expanded testing, this drug delivery mechanism could lead to better options than chemotherapy and radiation, which indiscriminately target healthy and damaged cells. Additionally, researchers anticipate being able to apply these concepts to treating other diseases with greater precision.<sup>14</sup>

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## **Robotics & The Internet of Things**

### *Making Work from Home More Convenient*

Tokyo-based robotics company, Telexistence, is on a mission to redefine the concept of work from home. With the company's help, a convenience store in Tokyo Bay now uses a robot for back-end tasks, including taking inventory and stocking shelves. The robot has a boomerang-shaped head and hands capable of grabbing objects with suction and opposable thumbs. But what makes this robot unique is that it's moved by a human performing the actions from a remote location. Similar to a puppeteer, workers determine the robot's movements in real time, rather than through preprogrammed, coded instructions. One reason why Telexistence developed the technology is in response to Japan's chronic labor shortage. Though the technology is still too expensive for mass adoption, it appears to be just the beginning of what could be a



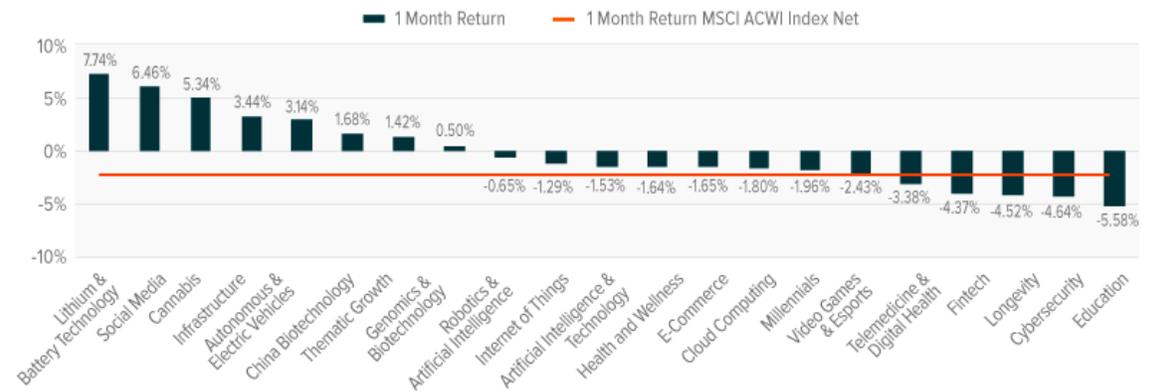
revolutionary long-term project.<sup>16</sup>

## THE NUMBERS

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

### OCTOBER 2020 THEMATIC ETF RETURNS

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



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

### THEMATIC SALES GROWTH

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



Note: Forward looking based on data and analysis from 10/31/2020. 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 10/31/20			Avg. Annualized % Data as of quarter end 10/31/20					
	Gross Expense Ratio	Net Expense Ratio	Ticker		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%	0.68%	BOTZ	NAV	-0.83%	8.79%	90.88%	40.30%	9.57%	-	-	17.55%
				Market Price	-0.65%	9.40%	91.72%	39.88%	9.60%	-	-	17.62%
				Index	-0.78%	8.92%	92.69%	41.30%	9.69%	-	-	17.80%
FinTech Inception Date 9/12/2016	0.68%	0.68%	FINX	NAV	-4.40%	1.28%	141.43%	31.84%	22.49%	-	-	25.70%
				Market Price	-4.37%	1.51%	141.70%	31.85%	22.39%	-	-	25.73%
				Index	-4.36%	1.44%	147.81%	32.57%	23.29%	-	-	26.49%
Internet of Things Inception Date 9/12/2016	0.68%	0.68%	SNSR	NAV	-1.22%	0.62%	78.94%	29.69%	13.09%	-	-	15.80%
				Market Price	-1.29%	1.01%	79.36%	30.02%	13.16%	-	-	15.89%
				Index	-1.19%	0.73%	81.22%	30.04%	13.42%	-	-	16.15%
Cloud Computing Inception Date 4/12/2019	0.68%	0.68%	CLOU	NAV	-1.84%	3.44%	55.72%	62.86%	-	-	-	36.98%
				Market Price	-1.80%	3.44%	56.41%	63.08%	-	-	-	37.35%
				Index	-1.76%	3.61%	57.15%	63.85%	-	-	-	37.62%
Social Media Inception Date 11/14/2011	0.65%	0.65%	SOCL	NAV	6.65%	10.55%	257.02%	51.97%	16.35%	23.20%	-	14.58%
				Market Price	6.46%	10.94%	258.05%	52.97%	16.49%	23.26%	-	14.64%
				Index	6.69%	10.71%	274.79%	52.90%	17.05%	23.96%	-	15.19%
Artificial Intelligence & Technology Inception Date 5/11/2018	0.68%	0.68%	AIQ	NAV	-1.20%	4.66%	56.38%	47.97%	-	-	-	21.21%
				Market Price	-1.53%	4.66%	56.31%	48.05%	-	-	-	21.36%
				Index	-1.13%	4.80%	57.68%	48.49%	-	-	-	21.55%
Autonomous & Electric Vehicles Inception Date 4/13/2018	0.68%	0.68%	DRIV	NAV	3.15%	12.20%	21.09%	29.39%	-	-	-	6.73%
				Market Price	3.14%	12.39%	21.37%	29.50%	-	-	-	6.83%
				Index	3.12%	12.31%	21.21%	29.69%	-	-	-	6.76%
Lithium & Battery Technology Inception Date 7/22/2010	0.75%	0.75%	LIT	NAV	7.91%	18.97%	61.31%	64.65%	4.97%	18.67%	2.28%	4.02%
				Market Price	7.74%	20.04%	62.46%	66.61%	5.09%	18.98%	2.32%	4.11%
				Index	7.95%	18.86%	69.15%	64.39%	4.86%	18.77%	2.74%	4.50%
Genomics & Biotechnology Inception Date 4/5/2019	0.50%	0.50%	GNOM	NAV	1.01%	2.73%	18.32%	44.01%	-	-	-	11.24%
				Market Price	0.50%	2.32%	20.40%	44.34%	-	-	-	12.93%
				Index	1.03%	2.89%	19.46%	44.91%	-	-	-	11.90%
Millennials Inception Date 5/4/2016	0.50%	0.50%	MILN	NAV	-1.80%	3.73%	109.18%	26.02%	20.57%	-	-	18.72%
				Market Price	-1.96%	3.66%	108.15%	25.97%	20.55%	-	-	18.63%
				Index	-1.74%	3.90%	113.57%	26.69%	21.21%	-	-	19.24%
Longevity Inception Date 5/9/2016	0.50%	0.50%	LNGR	NAV	-4.48%	-3.16%	66.76%	21.83%	11.15%	-	-	13.53%
				Market Price	-4.52%	-3.05%	70.14%	20.87%	10.92%	-	-	14.06%
				Index	-4.44%	-3.07%	68.92%	22.11%	11.38%	-	-	13.83%
Health & Wellness Inception Date 5/9/2016	0.50%	0.50%	BFIT	NAV	-1.41%	5.98%	49.66%	9.48%	12.66%	-	-	9.97%
				Market Price	-1.64%	6.55%	51.00%	9.35%	12.71%	-	-	10.25%
				Index	-1.37%	6.10%	52.58%	9.93%	13.08%	-	-	10.43%
E-Commerce Inception Date 11/27/2018	0.50%	0.50%	EBIZ	NAV	-1.65%	1.52%	78.93%	59.22%	-	-	-	38.40%
				Market Price	-1.65%	1.63%	79.26%	59.23%	-	-	-	38.54%
				Index	-1.60%	1.59%	80.66%	59.87%	-	-	-	39.03%
Infrastructure Inception Date 3/6/2017	0.47%	0.47%	PAVE	NAV	3.62%	10.80%	18.83%	4.53%	3.80%	-	-	3.91%
				Market Price	3.44%	10.74%	18.76%	4.66%	3.75%	-	-	3.95%
				Index	3.66%	10.93%	20.83%	4.99%	4.27%	-	-	4.38%
Cannabis Inception Date 9/7/2019	0.50%	0.50%	POTX	NAV	4.83%	-25.15%	-67.22%	-63.13%	-	-	-	-67.44%
				Market Price	5.34%	-24.51%	-67.54%	-63.23%	-	-	-	-67.90%
				Index	4.55%	-25.99%	-70.29%	-66.50%	-	-	-	-70.23%
Video Games & Esports Inception Date 10/25/2019	0.50%	0.50%	HERO	NAV	-2.03%	8.82%	77.32%	-	-	-	-	80.99%
				Market Price	-2.43%	8.65%	77.06%	-	-	-	-	81.47%
				Index	-1.99%	8.99%	78.19%	-	-	-	-	81.81%
Cybersecurity Inception Date 10/25/2019	0.60%	0.50%*	BUG	NAV	-5.05%	-6.64%	36.50%	-	-	-	-	43.76%
				Market Price	-4.64%	-6.36%	39.49%	-	-	-	-	46.28%
				Index	-5.00%	-6.50%	37.33%	-	-	-	-	44.57%



Thematic Growth Inception Date 10/25/2019	0.50%	0.50%	GXTG	NAV	1.83%	1.95%	37.23%	-	-	-	-	34.77%
				Market Price	1.42%	1.63%	38.09%	-	-	-	-	36.17%
				Index	1.84%	1.98%	37.15%	-	-	-	-	34.67%
Education Inception Date 7/10/2020	0.50%	0.50%	EDUT	NAV	-6.19%	-0.78%	0.66%	-	-	-	-	7.30%
				Market Price	-5.58%	-0.32%	1.32%	-	-	-	-	7.30%
				Index	-6.14%	-0.69%	0.83%	-	-	-	-	7.42%
Telemedicine & Digital Health Inception Date 7/29/2020	0.68%	0.68%	EDOC	NAV	-3.10%	4.97%	6.70%	-	-	-	-	10.11%
				Market Price	-3.38%	4.70%	6.83%	-	-	-	-	10.57%
				Index	-3.06%	5.07%	6.79%	-	-	-	-	10.16%
China Biotech Inception Date 9/22/2020	0.65%	0.65%	CHB	NAV	1.44%	-	2.98%	-	-	-	-	1.52%
				Market Price	1.68%	-	4.11%	-	-	-	-	2.39%
				Index	1.50%	-	3.07%	-	-	-	-	1.54%
CleanTech Inception Date 10/27/2020	0.50%	0.50%	CTEC	NAV	-	-	-0.46%	-	-	-	-	-
				Market Price	-	-	0.53%	-	-	-	-	-
				Index	-	-	-	-	-	-	-	-
Data Center REITs & Digital Infrastructure Inception Date 10/27/2020	0.50%	0.50%	VPN	NAV	-	-	-3.87%	-	-	-	-	-
				Market Price	-	-	-3.54%	-	-	-	-	-
				Index	-	-	-3.83%	-	-	-	-	-

The 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 investor's 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. Returns for periods greater than one year are annualized. Market price returns are based upon the midpoint of the bid/ask spread at the close of the exchange and do not represent the returns you would receive if you traded shares at other times. For performance data current to the most recent month end, please call 1-888-493-8631, or visit [www.globalxetfs.com](http://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 10/31/20 and 9/30/20, Global X ETFs.

Ticker	Name	P/S		EV/S	
		10/31/20	9/30/20	10/31/20	9/30/20
GNOM	Global X Genomics & Biotechnology ETF	12.15	12.78	11.87	12.38
CLOU	Global X Cloud Computing ETF	10.27	10.62	10.75	11.20
CHB	Global X China Biotech Innovation ETF	9.03	9.65	9.42	10.10
BUG	Global X Cybersecurity ETF	7.53	7.99	7.30	7.78
FINX	Global X FinTech ETF	6.93	7.24	7.94	8.26
SOCL	Global X Social Media ETF	5.79	5.55	6.23	5.88
EDOC	Global X Telemedicine & Digital Health ETF	5.24	5.64	6.30	6.94
VPN	Global X Data Center REITs & Digital Infrastructure ETF	5.04	N/A	6.98	N/A
HERO	Global X Video Games & Esports ETF	4.96	5.22	4.95	5.18
AIQ	Global X Future Analytics Tech ETF	3.98	4.05	4.15	4.20
LNGR	Global X Longevity Thematic ETF	3.66	3.93	4.32	4.57
EDUT	Global X Education ETF	3.59	3.85	3.95	4.27
POTX	Global X Cannabis ETF	3.16	3.06	3.79	3.67
BOTZ	Global X Robotics & Artificial Intelligence ETF	2.76	2.77	2.85	2.75
MILN	Global X Millennials Thematic ETF	2.51	2.56	3.10	3.15
SNSR	Global X Internet of Things ETF	2.48	2.51	2.98	3.02
SPX	S&P 500 Index	2.45	2.46	2.89	2.87
LIT	Global X Lithium and Battery Tech ETF	2.28	2.12	2.65	2.48
EBIZ	Global X E-commerce ETF	2.23	2.29	2.17	2.25
ACWI	ACWI Index	1.77	1.81	2.21	2.26
CTEC	Global X Cleantech ETF	1.65	N/A	2.18	N/A
BFIT	Global X Health & Wellness Thematic ETF	1.40	1.42	1.60	1.63
PAVE	Global X U.S. Infrastructure Development ETF	1.06	1.01	1.37	1.32
DRIV	Global X Autonomous & Electric Vehicles ETF	0.91	0.88	1.12	1.09

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



## F12M SALES GROWTH, PSG, AND EVSG

Source: Bloomberg, data is as of 10/31/20 and 9/30/20, Global X ETFs.

Ticker	Name	F12M Sales (%)		PSG		EVSG	
		10/31/20	9/30/20	10/31/20	9/30/20	10/31/20	9/30/20
POTX	Global X Cannabis ETF	59.0%	56.9%	0.05	0.05	0.06	0.06
EDUT	Global X Education ETF	41.7%	41.6%	0.09	0.09	0.09	0.10
CHB	Global X China Biotech Innovation ETF	36.8%	41.1%	0.25	0.23	0.26	0.25
LIT	Global X Lithium and Battery Tech ETF	34.2%	31.1%	0.07	0.07	0.08	0.08
EBIZ	Global X E-commerce ETF	30.4%	30.8%	0.07	0.07	0.07	0.07
HERO	Global X Video Games & Esports ETF	23.9%	25.7%	0.21	0.20	0.21	0.20
EDOC	Global X Telemedicine & Digital Health ETF	22.9%	23.8%	0.23	0.24	0.28	0.29
CLOU	Global X Cloud Computing ETF	22.3%	24.1%	0.46	0.44	0.48	0.47
BUG	Global X Cybersecurity ETF	19.2%	19.1%	0.39	0.42	0.38	0.41
SOCL	Global X Social Media ETF	18.0%	18.2%	0.32	0.30	0.35	0.32
AIQ	Global X Future Analytics ETF	17.3%	16.9%	0.23	0.24	0.24	0.25
BFIT	Global X Health & Wellness Thematic ETF	15.2%	13.0%	0.09	0.11	0.11	0.13
LNGR	Global X Longevity Thematic ETF	14.0%	16.2%	0.26	0.24	0.31	0.28
GNOM	Global X Genomics & Biotechnology ETF	13.7%	19.2%	0.88	0.67	0.86	0.65
MILN	Global X Millennials Thematic ETF	13.6%	13.4%	0.18	0.19	0.23	0.23
BOTZ	Global X Robotics & Artificial Intelligence ETF	13.2%	10.9%	0.21	0.26	0.22	0.25
SNSR	Global X Internet of Things ETF	12.6%	9.6%	0.20	0.26	0.24	0.31
FINX	Global X FinTech ETF	12.4%	5.3%	0.56	1.36	0.64	1.55
VPN	Global X Data Center REITs & Digital Infrastructure ETF	11.8%	-	0.43	-	0.59	-
ACWI	ACWI Index	11.2%	9.6%	0.16	0.19	0.20	0.24
DRIV	Global X Autonomous & Electric Vehicles ETF	11.0%	8.0%	0.08	0.11	0.10	0.14
SPX	S&P 500 Index	10.9%	10.3%	0.23	0.24	0.27	0.28
CTEC	Global X Cleantech ETF	4.7%	-	0.35	-	0.46	-
PAVE	Global X U.S. Infrastructure Development ETF	-0.7%	-1.8%	-	-	-	-

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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