

GLOBAL X ETFs RESEARCH

The Next Big Theme: March 2021

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



Fintech & E-commerce

Buy Now Pay Later Expands with Stripe

Two large names at the intersection of FinTech and E-commerce, Afterpay and Stripe, are teaming up to launch a potentially powerful partnership. Teaming together will allow merchants to offer their customers Afterpay's "buy now pay later" (BNPL) option through Stripe's digital payments platform. This collaboration could be beneficial to all parties by expanding the reach of the BNPL option across thousands of merchants and millions of customers. Afterpay will offer Stripe users the option to pay for an online order in four installments without the liability of loans, interest, or upfront fees.¹ Merchants will be able to accept Afterpay transactions without consumers having to meet any prerequisites. The partnership extends further by allowing any e-commerce platforms integrating Squarespace to offer a BNPL option as well.²

Cloud Computing

Beyond the Clouds

The Mars Rover team at NASA has enlisted the help of Amazon Web Services (AWS) in processing data retrieved from their Perseverance Rover's trip to Mars. Having AWS as an asset in the NASA Jet Propulsion Lab (JPL) allows them to store, process, and distribute large quantities of data and the thousands of images taken from Perseverance's stay on Mars. One of the main highlights of having AWS as a cloud computing server is alleviating the time constraint NASA faces when sending instructions to the rover and giving it visibility when driving. AWS additionally provides a 3D view of Mars from the perspective of the Perseverance Rover. With the integration of cloud computing technology, increased efficiency has permitted Perseverance to travel longer distances and gather more data than previously possible.³

Health & Wellness

At-Home Workouts, Elevated

The stay-at-home economy has been beneficial for companies such as Lululemon who provide the resources for consumers to stay fit at a time when many cannot or will not step foot in gyms. Since the



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holiday season, Lululemon began advertising their recently acquired Mirror, which is an at-home exercise equipment tool incorporating a mirror and TV screen. Mirror costs \$1,500 up front, with additional monthly fees for classes. Traditionally Lululemon has been an athleticwear brand, but its move into equipment places it alongside Peloton as an at-home fitness solution. Although the purchase of Mirror cost the company \$500 million, Lululemon reports that the expected \$150 million in revenue has already been exceeded.⁴ While the pandemic may be coming to a close with greater vaccine distribution, recent inroads by at-home fitness equipment could prove to be an irreversible trend.

Social Media

New Approaches to Monetization

Twitter and Snapchat revealed many upcoming features to be rolled out within their respective platforms following Investor Day. “Super Follows” announced by Twitter will offer users the alternative to charge followers for access to additional content. The content may include bonus tweets, exclusive groups, newsletters, or badges for support. It is being advertised as a package deal for followers to receive monthly perks. This announcement comes following the success of Patreon, Facebook, YouTube, and other direct payment platforms.⁵ Snapchat’s announcements circulated around prospective major ad revenue gains which can already be seen through Stories, Snap Maps, and Spotlight. Snap Maps is starting to add small businesses in a bid to increase ad revenue. Snapchat’s monetization potential was stressed when mentioning that despite having less than 2% of the U.S. digital ad market, the app is reaching almost half of U.S. smartphone users.⁶

Electric Vehicles & Cleantech

Green Act Boosts EV Car Tax Credit

Top selling electric vehicle (EV) manufacturers such as Tesla and GM, previously faced competitive headwinds by exceeding the sales limits that qualify for federal tax credits. Introduced in the GREEN Act of 2021, the new bill proposes to provide U.S. consumers \$7,000 in tax credits for buying a car from manufacturers that already exceeded the 200,000 unit limit.⁷ Tesla buyers stopped receiving tax credits after 2019 as the auto manufacturer entered a two year “phase-out” period due to high sales volumes. The GREEN Act would renew EV tax credits in a bid to reward early adoption of EVs. The credit limit for manufacturers would be raised to 600,000 vehicles, and likely spur faster adoption of EVs in the US.⁸

E-commerce

2020 E-commerce Wrap-Up

Q4 2020 U.S. retail e-commerce sales totaled \$206.7 billion, up 23.56% year-over-year (YoY). Total e-commerce sales for 2020 were estimated at \$791.7 billion, up 32.4% YoY. Comparatively, total retail sales (e-commerce and brick-and-mortar) in 2020 were up 3.4% YoY.⁹ The fastest growing categories for e-commerce expenditure included: groceries, items for leisure activities such as sporting goods and musical instruments, and home improvement tools.¹⁰ The rapid growth of e-commerce is representative of consumers’ embrace of digital technologies amid the pandemic. While it is likely the huge growth in e-commerce seen in 2020 will not remain at such elevated levels as Covid-19 regulations ease, some changes in behavior may be lasting, including curbside pickup and online grocery delivery. Groceries were formerly a niche industry for the online market, making up just 2% of total food and beverage sales in 2019.



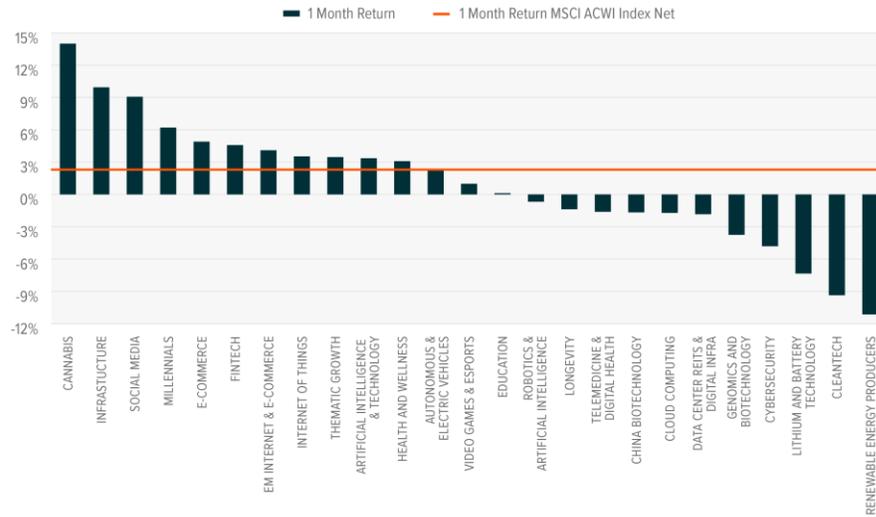
But with the pandemic, online grocery adoption is expected to reach 55% of US consumers by the end of 2024.¹¹

THE NUMBERS

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

FEBRUARY 2021 THEMATIC ETF RETURNS

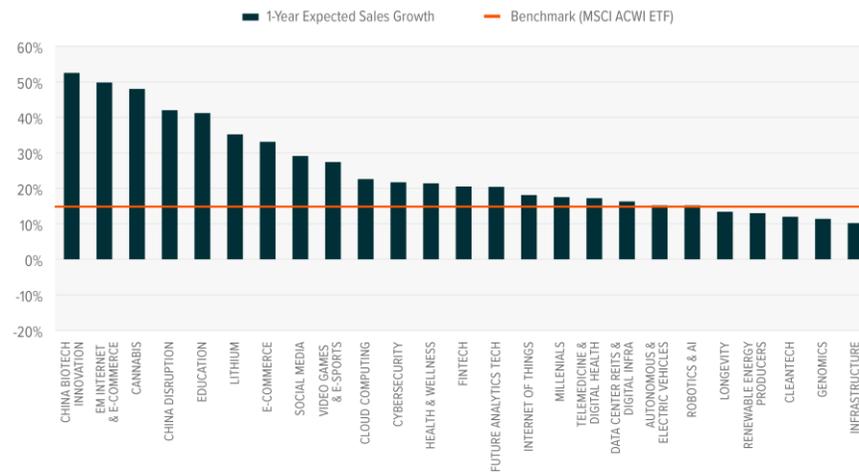
Source: Bloomberg, February 28, 2021, Global X ETFs.



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

THEMATIC SALES GROWTH

Source: Bloomberg, February 28, 2021, Global X ETFs.



Note: Forward looking based on data and analysis from 02/28/2021. 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 2/28/21			Avg. Annualized % Data as of quarter end 12/31/20					
	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	-1.01%	22.62%	131.70%	50.68%	12.73%	-	-	21.24%
				Market Price	-0.68%	22.16%	132.60%	51.80%	12.77%	-	-	21.29%
				Index	-0.95%	22.85%	134.46%	51.65%	13.15%	-	-	21.52%
FinTech Inception Date 9/12/2016	0.68%	0.68%	FINX	NAV	4.31%	24.05%	212.40%	53.67%	28.87%	-	-	30.16%
				Market Price	4.58%	23.83%	212.99%	53.75%	28.70%	-	-	30.16%
				Index	4.37%	24.32%	221.53%	54.57%	29.74%	-	-	30.96%
Internet of Things Inception Date 9/12/2016	0.68%	0.68%	SNSR	NAV	3.16%	26.17%	132.90%	35.17%	18.53%	-	-	20.17%
				Market Price	3.53%	25.76%	133.53%	34.93%	18.38%	-	-	20.15%
				Index	3.19%	26.31%	136.21%	35.87%	18.90%	-	-	20.54%
Cloud Computing Inception Date 4/12/2019	0.68%	0.68%	CLOU	NAV	-1.78%	17.45%	79.64%	77.08%	-	-	-	43.23%
				Market Price	-1.71%	17.31%	80.35%	77.03%	-	-	-	43.59%
				Index	-1.74%	17.62%	81.62%	78.17%	-	-	-	43.88%
Social Media Inception Date 11/14/2011	0.65%	0.65%	SOCL	NAV	9.46%	25.70%	391.14%	78.18%	23.28%	25.80%	-	17.19%
				Market Price	9.07%	25.83%	391.41%	78.40%	23.27%	25.83%	-	17.16%
				Index	9.51%	25.90%	416.74%	79.26%	24.06%	26.57%	-	17.81%
Artificial Intelligence & Technology Inception Date 5/11/2018	0.68%	0.68%	AIQ	NAV	3.26%	19.62%	93.16%	52.94%	-	-	-	26.07%
				Market Price	3.36%	19.89%	93.70%	52.88%	-	-	-	26.10%
				Index	3.32%	19.70%	95.01%	53.55%	-	-	-	26.43%
Autonomous & Electric Vehicles Inception Date 4/13/2018	0.68%	0.68%	DRIV	NAV	2.59%	48.80%	84.85%	62.21%	-	-	-	20.74%
				Market Price	2.32%	48.81%	84.79%	62.55%	-	-	-	20.84%
				Index	2.58%	49.06%	85.33%	62.71%	-	-	-	20.79%
Lithium & Battery Technology Inception Date 7/22/2010	0.75%	0.75%	LIT	NAV	-7.89%	54.49%	129.69%	126.51%	18.75%	27.58%	4.66%	8.42%
				Market Price	-7.35%	52.27%	129.19%	127.68%	18.87%	27.74%	4.63%	8.46%
				Index	-7.80%	54.28%	140.62%	125.58%	18.54%	27.61%	5.13%	8.89%
Genomics & Biotechnology Inception Date 4/5/2019	0.50%	0.50%	GNOM	NAV	-3.72%	37.13%	56.23%	51.62%	-	-	-	28.52%
				Market Price	-3.75%	37.56%	59.41%	51.42%	-	-	-	29.99%
				Index	-3.68%	37.20%	57.86%	52.38%	-	-	-	29.15%
Millennials Inception Date 5/4/2016	0.50%	0.50%	MILN	NAV	6.25%	22.57%	172.40%	44.92%	25.29%	-	-	22.36%
				Market Price	6.21%	22.93%	171.77%	44.94%	25.25%	-	-	22.29%
				Index	6.29%	22.74%	178.62%	45.76%	25.96%	-	-	22.89%
Longevity Inception Date 5/9/2016	0.50%	0.50%	LNGR	NAV	-1.21%	14.91%	89.31%	19.28%	13.97%	-	-	14.96%
				Market Price	-1.38%	15.38%	93.58%	18.96%	13.69%	-	-	15.39%
				Index	-1.20%	15.02%	91.96%	19.60%	14.21%	-	-	15.27%
Health & Wellness Inception Date 5/9/2016	0.50%	0.50%	BFIT	NAV	2.63%	16.63%	79.14%	18.19%	16.27%	-	-	13.15%
				Market Price	3.09%	17.00%	82.13%	18.06%	16.13%	-	-	13.39%
				Index	2.65%	16.73%	82.82%	18.70%	16.72%	-	-	13.63%
E-Commerce Inception Date 11/27/2018	0.50%	0.50%	EBIZ	NAV	5.12%	25.60%	136.25%	74.38%	-	-	-	43.85%
				Market Price	4.90%	25.74%	136.45%	74.33%	-	-	-	43.98%
				Index	5.16%	25.68%	138.77%	75.12%	-	-	-	44.42%
Infrastructure Inception Date 3/6/2017	0.47%	0.47%	PAVE	NAV	9.86%	19.58%	56.09%	20.10%	8.99%	-	-	10.22%
				Market Price	9.95%	19.65%	56.23%	19.84%	8.87%	-	-	10.20%
				Index	9.98%	19.80%	59.20%	20.67%	9.49%	-	-	10.71%
Cannabis Inception Date 9/7/2019	0.50%	0.50%	POTX	NAV	15.33%	92.72%	-27.15%	-30.37%	-	-	-	-47.94%
				Market Price	14.00%	91.00%	-29.33%	-30.58%	-	-	-	-48.75%
				Index	15.56%	91.06%	-34.41%	-36.13%	-	-	-	-51.91%
Video Games & Esports Inception Date 10/25/2019	0.50%	0.50%	HERO	NAV	1.43%	22.22%	119.82%	90.95%	-	-	-	86.02%
				Market Price	0.99%	22.81%	119.59%	91.15%	-	-	-	86.37%
				Index	1.47%	22.37%	121.25%	92.03%	-	-	-	86.59%
Cybersecurity Inception Date 10/25/2019	0.60%	0.50%*	BUG	NAV	-4.86%	34.54%	74.74%	71.17%	-	-	-	68.96%
				Market Price	-4.81%	34.36%	78.41%	70.78%	-	-	-	71.99%
				Index	-4.80%	34.58%	74.29%	72.34%	-	-	-	69.58%
Thematic Growth Inception Date 10/25/2019	0.50%	0.50%	GXTG	NAV	3.24%	41.83%	100.95%	61.74%	-	-	-	60.48%
				Market Price	3.47%	42.41%	103.48%	61.02%	-	-	-	61.57%
				Index	3.19%	41.72%	100.55%	61.62%	-	-	-	60.12%
Education Inception Date 7/10/2020	0.50%	0.50%	EDUT	NAV	0.26%	24.12%	25.26%	-	-	-	-	18.62%
				Market Price	0.11%	23.64%	25.39%	-	-	-	-	19.28%
				Index	0.31%	24.21%	25.62%	-	-	-	-	18.87%



Telemedicine & Digital Health Inception Date 7/29/2020	0.68%	0.68%	EDOC	NAV	-1.71%	26.13%	32.28%	-	-	-	-	26.63%
				Market Price	-1.61%	25.92%	32.35%	-	-	-	-	26.63%
				Index	-1.68%	26.34%	32.65%	-	-	-	-	26.91%
China Biotech Inception Date 9/22/2020	0.65%	0.65%	CHB	NAV	-2.54%	11.58%	11.99%	-	-	-	-	8.22%
				Market Price	-1.67%	10.63%	13.25%	-	-	-	-	8.42%
				Index	-2.47%	11.76%	12.33%	-	-	-	-	8.44%
CleanTech Inception Date 10/27/2020	0.50%	0.50%	CTEC	NAV	-9.79%	75.10%	57.23%	-	-	-	-	50.39%
				Market Price	-9.36%	73.43%	58.02%	-	-	-	-	50.79%
				Index	-9.76%	75.12%	57.33%	-	-	-	-	50.50%
Data Center REITs & Digital Infrastructure Inception Date 10/27/2020	0.50%	0.50%	VPN	NAV	-2.85%	9.99%	2.71%	-	-	-	-	3.65%
				Market Price	-1.84%	9.33%	3.52%	-	-	-	-	4.39%
				Index	-2.83%	9.97%	2.77%	-	-	-	-	3.64%
Emerging Markets Internet & E-commerce Inception Date 11/9/2020	0.65%	0.65%	EMBD	NAV	3.77%	-	21.10%	-	-	-	-	8.92%
				Market Price	4.10%	-	21.97%	-	-	-	-	8.65%
				Index	3.79%	-	21.32%	-	-	-	-	8.99%
Renewable Energy Producers Inception Date 5/27/2015	0.65%	0.65%	RNRG	NAV	-10.95%	23.31%	35.92%	25.31%	17.38%	15.93%	-	7.79%
				Market Price	-11.14%	23.65%	35.88%	26.21%	17.60%	15.88%	-	7.90%
				Index	-10.87%	23.37%	38.80%	25.62%	17.81%	16.37%	-	8.16%
China Disruption Inception Date 2/22/2021	0.75%	0.75%	KEJI	NAV	-	-	-10.16%	-	-	-	-	-
				Market Price	-	-	-9.80%	-	-	-	-	-
				Index	-	-	-5.94%	-	-	-	-	-

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 2/28/21 and 1/31/21, Global X ETFs.

Ticker	Name	P/S		EV/S	
		2/28/21	1/31/21	2/28/21	1/31/21
GNOM	Global X Genomics & Biotechnology ETF	14.41	15.15	14.03	14.96
CLOU	Global X Cloud Computing ETF	9.85	10.33	10.40	10.90
CHB	Global X China Biotech Innovation ETF	9.80	10.07	10.34	10.64
BUG	Global X Cybersecurity ETF	8.89	9.55	8.71	9.33
FINX	Global X FinTech ETF	8.52	8.49	9.69	9.64
SOCL	Global X Social Media ETF	7.83	6.61	7.74	7.40
VPN	Global X Data Center REITs & Digital Infrastructure ETF	6.52	5.52	9.13	7.44
POTX	Global X Cannabis ETF	6.49	6.83	16.03	8.44
KEJI	Global X China Disruption ETF	6.17	-	6.48	-
EWEB	Global X Emerging Markets Internet & E-commerce ETF	5.87	5.85	5.82	5.76
EDOC	Global X Telemedicine & Digital Health ETF	5.84	5.80	6.53	7.73
HERO	Global X Video Games & Esports ETF	5.63	5.84	5.67	5.96
EDUT	Global X Education ETF	4.55	4.40	4.96	5.36
AIQ	Global X Future Analytics Tech ETF	4.19	4.61	4.35	4.81
LNGR	Global X Longevity Thematic ETF	4.04	4.23	4.67	4.85
RNRG	Global X Renewable Energy Producers ETF	3.78	3.02	6.12	5.06
MILN	Global X Millennials Thematic ETF	3.41	3.11	3.92	3.74
BOTZ	Global X Robotics & Artificial Intelligence ETF	3.33	3.41	3.27	3.53
SNSR	Global X Internet of Things ETF	2.92	2.91	3.56	3.65
SPX	S&P 500 Index	2.83	2.77	3.22	3.17
EBIZ	Global X E-commerce ETF	2.78	2.70	2.87	2.73
LIT	Global X Lithium and Battery Tech ETF	2.76	3.03	3.14	3.40
CTEC	Global X Cleantech ETF	2.53	2.81	3.16	3.42
ACWI	ACWI Index	2.13	2.08	2.58	2.54
BFIT	Global X Health & Wellness Thematic ETF	1.65	1.63	1.97	1.93
PAVE	Global X U.S. Infrastructure Development ETF	1.61	1.28	1.95	1.59
DRIV	Global X Autonomous & Electric Vehicles ETF	1.32	1.36	1.55	1.61

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 2/28/21 and 1/31/21, Global X ETFs.

Ticker	Name	F12M Sales (%)		PSG		EVSG	
		2/28/21	1/31/21	2/28/21	1/31/21	2/28/21	1/31/21
CHB	Global X China Biotech Innovation ETF	52.5%	49.7%	0.19	0.20	0.20	0.21
EWEB	Global X Emerging Markets Internet & E-commerce ETF	49.8%	52.1%	0.12	0.11	0.12	0.11
POTX	Global X Cannabis ETF	48.0%	57.7%	0.14	0.12	0.33	0.15
KEJI	Global X China Disruption ETF	42.0%	-	0.15	-	0.15	-
EDUT	Global X Education ETF	41.2%	39.3%	0.11	0.11	0.12	0.14
LIT	Global X Lithium and Battery Tech ETF	35.2%	36.5%	0.08	0.08	0.09	0.09
EBIZ	Global X E-commerce ETF	33.1%	39.2%	0.08	0.07	0.09	0.07
SOCL	Global X Social Media ETF	29.1%	25.5%	0.27	0.26	0.27	0.29
HERO	Global X Video Games & Esports ETF	27.4%	32.5%	0.21	0.18	0.21	0.18
CLOU	Global X Cloud Computing ETF	22.6%	25.8%	0.44	0.40	0.46	0.42
BUG	Global X Cybersecurity ETF	21.7%	22.0%	0.41	0.43	0.40	0.42
BFIT	Global X Health & Wellness Thematic ETF	21.4%	21.0%	0.08	0.08	0.09	0.09
FINX	Global X FinTech ETF	20.5%	23.9%	0.41	0.36	0.47	0.40
AIQ	Global X Future Analytics ETF	20.4%	21.3%	0.21	0.22	0.21	0.23
SNSR	Global X Internet of Things ETF	18.1%	19.2%	0.16	0.15	0.20	0.19
MILN	Global X Millennials Thematic ETF	17.5%	17.6%	0.20	0.18	0.22	0.21
EDOC	Global X Telemedicine & Digital Health ETF	17.2%	20.9%	0.34	0.28	0.38	0.37
YPN	Global X Data Center REITs & Digital Infrastructure ETF	16.3%	17.1%	0.40	0.32	0.56	0.43
DRIV	Global X Autonomous & Electric Vehicles ETF	15.2%	16.8%	0.09	0.08	0.10	0.10
BOTZ	Global X Robotics & Artificial Intelligence ETF	15.2%	14.8%	0.22	0.23	0.22	0.24
ACWI	ACWI Index	14.4%	14.0%	0.15	0.15	0.18	0.18
LNGR	Global X Longevity Thematic ETF	13.4%	16.1%	0.30	0.26	0.35	0.30
SPX	S&P 500 Index	13.4%	13.4%	0.21	0.21	0.24	0.24
RNRG	Global X Renewable Energy Producers ETF	13.0%	19.4%	0.29	0.16	0.47	0.26
CTEC	Global X Cleantech ETF	12.0%	8.3%	0.21	0.34	0.26	0.41
GNOM	Global X Genomics & Biotechnology ETF	11.4%	14.0%	1.26	1.08	1.23	1.07
PAVE	Global X U.S. Infrastructure Development ETF	10.2%	7.4%	0.16	0.17	0.19	0.21

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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- **Disruptive Technology:** [Future Analytics Tech ETF \(AIQ\)](#), [Robotics & Artificial Intelligence ETF \(BOTZ\)](#), [Cybersecurity ETF \(BUG\)](#), [Cloud Computing ETF \(CLOU\)](#), [Autonomous & Electric Vehicles ETF \(DRIV\)](#), [FinTech ETF \(FINX\)](#), [Video Games & Esports ETF \(HERO\)](#), [Lithium and Battery Tech ETF \(LIT\)](#), [Internet of Things ETF \(SNSR\)](#), [Social Media ETF \(SOCL\)](#), [China Biotech Innovation ETF \(CHB\)](#), [Data Center REITs & Digital Infrastructure ETF \(VPN\)](#), [Emerging Markets Internet & E-Commerce ETF \(EWEB\)](#), [China Disruption ETF \(KEJI\)](#)
- **People and Demographics:** [Cannabis ETF \(POTX\)](#), [Millennials Thematic ETF \(MILN\)](#), [Health & Wellness Thematic ETF \(BFIT\)](#), [E-Commerce ETF \(EBIZ\)](#), [Genomics & Biotechnology ETF \(GNOM\)](#), [Longevity Thematic ETF \(LNGR\)](#), [Telemedicine & Digital Health ETF \(EDOC\)](#), [Education ETF \(EDUT\)](#)
- **Physical Environment:** [U.S. Infrastructure Development ETF \(PAVE\)](#), [CleanTech ETF \(CTEC\)](#), [Renewable Energy Producers \(RNRG\)](#)
- **Multi-Theme:** [Thematic Growth ETF \(GXTG\)](#)

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2. Retail Dive, "Afterpay to offer installment payments to Stripe, Squarespace", Feb 25, 2021.
3. ZDNet, "Cloud computing is helping to keep NASA's Perseverance Mars rover on track", Feb 23, 2021.
4. Yahoo! Finance, "Lululemon is in the 'early innings' of growth: CEO", Feb 5, 2021.
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9. U.S. Census Bureau News, "QUARTERLY RETAIL E-COMMERCE SALES 4TH QUARTER 2020", Feb 19, 2021.
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