

GLOBAL X ETFs RESEARCH

The Next Big Theme: September 2021

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The Next Big Theme: August 2021



Fintech & E-commerce

Buy Now Pay Later Goes Big Tech

Buy now pay later (BNPL) services grew 85% in the past 15 months, and much of that growth can be attributed to industries outside traditional e-commerce and fintech.¹ Affirm recently announced a partnership with Amazon to allow Amazon customers spending \$50 or more access to Affirm's installment payments.² Amazon shoppers will be able to split the cost of transactions into segments, penalty-free. This news followed payment services company Square acquiring Afterpay in a \$29 billion all-stock deal.³ Square is known for its mobile point of sale (POS) system and card acceptance services for micro-merchants through its Cash App platform. The Afterpay acquisition brings BNPL into Square's ecosystem, which should strengthen its omnichannel offering. Additionally, Afterpay consumers will be able to manage transactions and pending installments within the Cash App.

U.S. Infrastructure

The U.S. \$1.2 Trillion Bipartisan Deal Moves Forward

In a step towards approval of the \$1.2 trillion bipartisan deal in late September, House Democrats passed a \$3.5 trillion infrastructure-related budget resolution. The budget resolution essentially allows Democrats to write and approve a massive spending package, and it puts the Senate-passed infrastructure bill on a path for President Biden to sign it into law. Notably, the latest updates to the bill highlight investment in solar energy sources, which will help the U.S. to work towards President Biden's 2035 clean electricity goal while keeping energy costs for consumers and communities low. This commitment to solar energy could add a meaningful number of jobs to an industry that currently employs about 300,000. Other important components of the bill include measures to strengthen transportation and transit, water infrastructure and environmental remediation, digital infrastructure, and cleantech.

Cybersecurity

Corporations Commit to Cybersecurity





T-Mobile's recent data breach is the latest incident to reveal critical vulnerabilities in a major firm's cybersecurity defenses. To address the breach, T-Mobile will partner with cybersecurity firm Mandiant and KPMG consultants. The move comes alongside the Biden Administration's efforts to modernize the nation's cyber defenses as part of its National Security Memorandum on Improving Cybersecurity for Critical Infrastructure Control Systems. In addition, the National Institute of Standards and Technology (NIST) will work with the private sector to bolster general and supply chain security. Apple announced plans to establish a security program with similar objectives. Elsewhere, Google committed to invest \$10 billion and Microsoft \$20 billion over the next five years towards zero-trust programs and open-source security. IBM took a workforce-based approach in vowing to train 150,000 people in cybersecurity skills, similar to Amazon's offer of free security awareness training to the public.

Robotics

Robots Ditch the Warehouse

Robots aren't just for industrial supply chains anymore. Previously, robots were used primarily to automate factory jobs too tedious or dangerous for humans. Now, they're moving to the front of the house as robotics integration becomes more human. For example, salad chain Sweetgreen announced its acquisition of robotic kitchen, Spyce, whose technology should enable Sweetgreen to automate tasks like food assembly and allow its employees to focus on hospitality. Not only are robots increasingly performing human tasks, but they are also beginning to resemble them. Electric vehicle giant Tesla wants roboticists who can build its new humanoid robot, the recently announced Tesla Bot. Coming in at 125 pounds and a walking gait of 5 miles per hour, Tesla Bot will handle automated machines at Tesla factories and some of the hardware and software that powers the automated driver assistance software.⁸

Genomics

Genome Sequencing vs. Virus Variants

With 5.48 billion people vaccinated globally to date, the biggest barrier to a healthier future is how SARS-Cov-2 mutates and reduces vaccine efficacy. In the U.K., rapid genome sequencing and PCR-based genotyping of SARS-CoV-2-positive nose and throat swabs from patients identified potential vaccine-escape variants. The tests identified two cases of a potential vaccine-escape variant from the B.1.621 lineage with a K417N spike mutation, which is associated with vaccine escape in the beta variant first identified in South Africa. The success of pinpointing mutations and the origin sources could encourage others to follow suit. In India, the Government of Delhi asked districts to send all positive samples of COVID-19 for genome sequencing. In the U.S., the Centers For Disease Control and Prevention (CDC) released \$20 million to the New York State Department of Health to help conduct genome sequencing.

Blockchain

Crypto Gains Legitimacy As a Global Currency

News that the Senate's infrastructure bill anticipates raising \$28 billion in revenue from IRS taxes collected on owed capital gains from sales of Bitcoin, Ethereum, and other digital assets surprised many. Importantly,





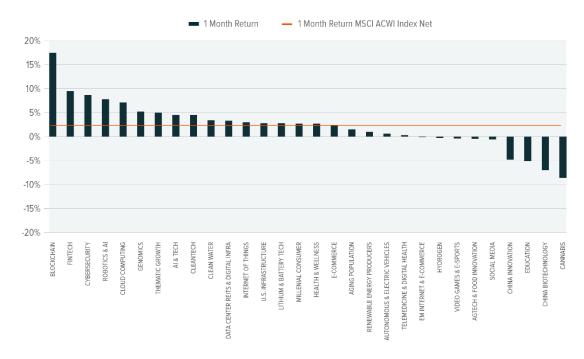
it could be a big step toward the government formally accepting crypto currencies as a legitimate asset and/or form of payment. ¹² Central bank digital currencies (CBDCs) are fast becoming a solution to traditionally underbanked countries. At the intersection of physical currency and digital currencies, CBDCs offer the digital form of preexisting physical currencies using distributed ledger technology. As of August, two central banks spanning five Caribbean countries fully launched CBDCs under The Central Bank of the Bahamas and Eastern Caribbean Central Bank. ¹³ And India's central bank is the latest to announce the possibility of CBDC trials later in the year.

THE NUMBERS

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

AUGUST 2021 THEMATIC ETF RETURNS

Source: Bloomberg, August 31, 2021, Global X ETFs.



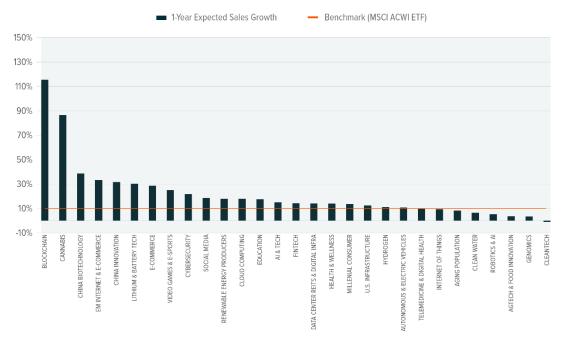
Note: The performance data quoted represents past performance and does not guarantee future results.





THEMATIC SALES GROWTH

Source: Bloomberg, August 31, 2021, Global X ETFs.



Note: Forward looking based on data and analysis from 08/31/2021.

1 year annualized forward sales growth is the consensus analyst expectations for total sales growth in the next 12 months.

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 8/31/21			Avg. Annualized % Data as of quarter end 6/30/21					
	Gross Expense Ratio		1 Month	3 Month	Since Inception	1 Year	3 Year	5 Year	10 Year	Since Inception		
Robotics & Artificial		NAV	8.20%	7.24%	154.33%	46.52%	17.60%	-	-	20.24%		
Intelligence	0.68%	Market Price	7.82%	7.25%	154.13%	46.66%	17.74%	-	-	20.24%		
Inception Date 9/12/2016		Index	8.29%	8.03%	158.63%	47.25%	17.85%	-	-	20.55%		
Finant		NAV	9.41%	14.09%	242.52%	44.08%	22.56%	-	-	27.20%		
Fintech	0.68%	Market Price	9.52%	13.96%	242.13%	43.54%	22.41%	-	-	27.18%		
Inception Date 9/12/2016		Index	9.45%	14.21%	253.55%	45.04%	23.35%	-	-	28.02%		
	0.68%	NAV	2.82%	9.70%	163.41%	48.09%	23.66%	-	-	20.81%		
Internet Of Things		Market Price	2.97%	10.05%	164.17%	47.68%	23.54%	-	-	20.76%		
Inception Date 9/12/2016		Index	2.88%	9.68%	167.78%	48.74%	24.06%	-	-	21.20%		
		NAV	6.93%	16.86%	103.09%	33.16%	-	-	-	33.48%		
Cloud Computing	0.68%	Market Price	7.07%	16.93%	104.03%	33.10%	-	-	-	33.72%		
Inception Date 4/12/2019		Index	7.00%	16.96%	106.01%	34.04%	-	-	-	34.23%		
		NAV	-0.83%	-1.89%	353.63%	69.11%	26.72%	28.60%	-	18.15%		
Social Media	0.65%	Market Price	-0.59%	-1.84%	353.97%	68.74%	26.70%	28.58%	-	18.13%		
Inception Date 11/14/2011		Index	-0.77%	-2.12%	378.47%	70.11%	27.46%	29.35%	-	18.78%		
Artificial Intelligence		NAV	4.27%	9.89%	115.23%	48.08%	27.65%	-	-	26.11%		
& Technology	0.68%	Market Price	4.49%	10.18%	116.11%	48.17%	27.52%	-	-	26.09%		
Inception Date 5/11/2018		Index	4.33%	9.70%	117.92%	48.78%	28.11%	-	-	26.53%		
Autonomous &		NAV	0.63%	3.97%	100.67%	95.05%	26.97%	-	-	23.60%		
Electric Vehicles	0.68%	Market Price	0.60%	4.08%	100.81%	95.12%	26.90%	-	-	23.64%		
Inception Date 4/13/2018		Index	0.71%	4.16%	101.82%	95.87%	27.16%	-	-	23.75%		
Liabinos And Dettern Teels		NAV	3.35%	29.38%	222.44%	130.26%	32.73%	26.71%	7.82%	9.66%		
Lithium And Battery Tech	0.75%	Market Price	2.75%	28.86%	222.94%	129.52%	32.79%	26.34%	7.82%	9.63%		
Inception Date 7/22/2010		Index	3.41%	26.83%	238.92%	130.27%	32.68%	26.78%	8.17%	10.14%		



		NAV	5.20%	11.90%	57.80%	41.84%	-	_	_	24.39%
enomics And Biotechnology	0.50%	Market Price	5.19%	12.19%	61.01%	42.01%		-		25.49%
Inception Date 4/5/2019	0.5070	Index	5.28%	12.03%	59.86%	42.44%			-	25.02%
		NAV	2.44%	8.77%	207.17%	57.19%	25.35%	22 70%	-	23.44%
Millennial Consumer	0.50%	Market Price	2.69%	9.02%	206.76%	57.50%				23.44%
Inception Date 5/4/2016	0.50/6								-	
		Index	2.46%	8.91%	214.99%	58.10%			-	24.01%
Aging Population	0.500/	NAV	1.58%	5.98%	110.88%		14.63%	15.28%	-	15.31%
Inception Date 5/10/2016	0.50%	Market Price	1.54%	6.25%	115.88%		14.58%	15.29%	-	15.81%
		Index	1.59%	5.76%	114.00%		14.88%	15.61%	-	15.63%
Health And Wellness		NAV	2.37%	4.64%	113.20%	54.90%		16.39%	-	15.85%
Inception Date 5/9/2016	0.50%	Market Price	2.68%	4.24%	115.36%	54.99%	18.08%	16.28%	-	15.97%
inception Date 5/5/2010		Index	2.41%	4.81%	118.08%	55.54%	18.73%	16.87%	-	16.33%
F. C		NAV	2.33%	-3.30%	118.74%	46.97%	-	-	-	38.19%
E-Commerce	0.50%	Market Price	2.40%	-3.22%	118.60%	46.78%	-	-	-	38.24%
Inception Date 11/27/2018		Index	2.38%	-3.19%	121.60%	47.49%	-	-	-	38.85%
Us Infrastucture		NAV	2.91%	3.03%	86.31%	69.54%	17.37%			14.00%
Development	0.47%	Market Price	2.79%	2.92%	86.24%	69.34%	17.36%	-		14.02%
Inception Date 3/6/2017	0.4770	Index	2.96%	3.18%	90.51%	70.54%	17.97%	-		14.55%
inception bate 3/0/2017		NAV			-53.94%	37.94%	17.57 /6			
Cannabis	0. E40/		-9.38%	-31.33%			-	-	-	-24.51%
Inception Date 9/17/2019	0.51%	Market Price		-30.95%	-54.93%	38.12%	-	-	-	-25.35%
,		Index	-9.93%	-32.01%	-59.08%	33.57%	-	-	-	-29.02%
Video Games & Esports		NAV	-0.33%	-5.98%	104.76%	41.63%	-	-	-	58.86%
Inception Date 10/25/2019	0.50%	Market Price		-6.22%	104.42%	40.96%	-	-	-	58.67%
inception Date 10/25/2019		Index	-0.23%	-5.82%	106.77%	42.46%	-	-	-	59.68%
Out and a second		NAV	8.76%	18.82%	114.84%	46.61%	-	-	-	46.56%
Cybersecurity	0.50%	Market Price	8.68%	18.62%	118.90%	46.54%	-	-	-	48.21%
Inception Date 10/25/2019		Index	8.87%	18.94%	114.84%	47.26%	-	-	-	46.47%
		NAV	5.20%	9.67%	112.89%	67.49%	-	-		54.23%
Thematic Growth	0.50%	Market Price	5.00%	9.32%	114.52%	67.09%	-	-		55.09%
Inception Date 10/25/2019	0.5070	Index	5.18%	9.59%	112.00%	67.01%	_	_	-	53.92%
	0.50%	NAV	-4.55%	-19.58%		07.01/0	-			33.32 /0
Education Inception Date 7/10/2020			-4.55%		-22.70%	-	-	-	-	-
		Market Price		-20.01%	-22.90%	-	-	-	-	-
		Index	-4.45%	-19.41%	-22.28%	-	-	-	-	-
elemedicine & Digital Health	0.68%	NAV	0.22%	0.22%	21.25%	-	-	-	-	-
Inception Date 7/29/2020		Market Price	0.33%	0.60%	21.51%	-	-	-	-	-
inception date 7/29/2020		Index	0.23%	0.33%	22.10%	-	-	-	-	-
China Biotech		NAV	-5.99%	-12.98%	9.28%	-	-	-	-	-
Innovation Date	0.67%	Market Price	-6.98%	-13.96%	8.68%	-	-	-	-	-
Inception Date 9/22/2020		Index	-5.96%	-12.92%	9.89%	-	-	-	-	_
		NAV	4.24%	4.62%	33.73%	_	_	-		-
Cleantech	0.50%	Market Price	4.45%	5.15%	34.06%	_	_	-	-	_
Inception Date 10/27/2020	0.3076	Index	4.34%	5.56%	31.15%		-	-	-	-
Data Canta Daita 0							-			
Data Center Reits &	0.500	NAV	3.53%	9.52%	20.27%	-	-	-	-	-
Digital Infrastructure	0.50%	Market Price	3.34%	9.93%	20.87%	-	-	-	-	-
Inception Date 10/27/2020		Index	3.58%	9.45%	20.35%	-	-	-	-	-
merging Markets Internet &		NAV	0.77%	-13.03%	-11.97%	-	-	-	-	-
E-Commerce	0.65%	Market Price	-0.08%	-14.15%	-13.05%	-	-	-	-	-
Inception Date 11/09/2020		Index	0.80%	-12.89%	-11.54%	-	-	-	-	-
		NAV	1.17%	3.91%	39.31%	20.84%	15.01%	12.25%	-	5.40%
enewable Energy Producers	0.65%	Market Price	0.98%	3.91%	39.35%	20.64%	15.26%	12.20%	-	5.39%
Inception Date 05/27/2015		Index	1.21%	3.79%	42.72%	21.46%	15.55%	12.76%	-	5.80%
		NAV	-3.79%	-8.45%	-22.88%		.0.0070	.2., 0,0	_	-
China Innovation	0.75%	Market Price		-9.49%	-23.68%	-	-	-	-	-
Inception Date 02/22/2021	0.75/0								-	
		Index	0.22%	-11.36%	-17.88%	-	-	-		-
Clean Water	0.50%	NAV	2.94%	7.95%	14.19%	-	-	-	-	-
Inception Date 04/08/2021		Market Price	3.35%	8.55%	15.19%	-	-	-	-	-
inception Date 04/06/2021		Index	2.99%	8.05%	14.34%	-	-	-	-	-
Agtech & Food	0.50%	NAV	-0.59%	-	-7.26%	-	-	-	-	-
Innovation ETF		Market Price		-	-7.14%	-	-	-	-	-
Inception Date 07/12/2021		Index	-0.57%	-	-7.14%			-		
meeption Date 07/12/2021				-		-	-			
Hydrogen	0.500/	NAV	-0.93%	-	-6.07%	-	-	-	-	-
Inception Date 07/12/2021	0.50%	Market Price		-	-5.23%	-	-	-	-	-
		Index	-0.88%	-	-6.01%	-	-	-	-	-
		NAV	18.33%	-	16.15%	-	-	-	-	-
Displantation			400		4- 4-4					
Blockchain Inception Date 07/12/2021	0.50%	Market Price	17.46%	-	15.67%	-	-	-	-	-





P/S AND EV/S

Source: Bloomberg, data is as of 8/31/21 and 7/30/21, Global X ETFs.

Ticker	Name	F	7/S	EV/S		
TICKET	Name	8/31/21	7/30/21	8/31/21	7/30/21	
BKCH	Global X Blockchain ETF	21.10	19.53	25.19	24.44	
GNOM	Global X Genomics & Biotechnology ETF	12.10	11.63	11.65	10.94	
CLOU	Global X Cloud Computing ETF	10.73	10.29	11.20	10.75	
BUG	Global X Cybersecurity ETF	9.40	9.78	9.78	9.77	
FINX	Global X FinTech ETF	8.06	8.56	9.33	10.04	
VPN	Global X Data Center REITs & Digital Infrastructure ETF	7.67	7.05	10.40	9.70	
CHB	Global X China Biotech Innovation ETF	7.54	8.29	7.73	8.83	
SOCL	Global X Social Media ETF	6.87	7.03	6.75	7.26	
POTX	Global X Cannabis ETF	6.05	6.87	12.45	14.42	
KEJI	Global X China Innovation ETF	5.21	3.23	4.55	4.83	
AGNG	Global X Aging Population ETF	5.07	5.10	5.79	5.72	
EDOC	Global X Telemedicine & Digital Health ETF	4.73	4.68	5.05	5.20	
BOTZ	Global X Robotics & Artifical Intelligence ETF	4.49	4.38	4.47	4.47	
HERO	Global X Video Games & Esports ETF	4.38	4.96	4.27	4.59	
AIQ	Global X Artificial Intelligence & Technology ETF	4.15	4.36	4.33	4.49	
RNRG	Global X Renewable Energy Producers ETF	3.78	3.86	6.06	6.16	
MILN	Global X Millennial Consumer ETF	3.61	3.66	4.06	4.14	
EWEB	Global X Emerging Markets Internet & E-commerce ETF	3.41	3.58	3.36	3.65	
LIT	Global X Lithium and Battery Tech ETF	3.22	3.36	3.52	3.65	
SNSR	Global X Internet of Things ETF	3.19	3.16	3.77	3.71	
SPX	S&P 500 Index	3.12	3.10	3.44	3.45	
AWWA	Global X Clean Water ETF	3.03	3.02	4.08	4.04	
EDUT	Global X Education ETF	2.59	2.79	2.70	2.95	
EBIZ	Global X E-commerce ETF	2.32	2.37	2.46	2.40	
ACWI	ACWI Index	2.26	2.26	2.66	2.71	
CTEC	Global X Cleantech ETF	1.82	1.83	2.27	2.27	
BFIT	Global X Health & Wellness ETF	1.81	1.84	2.01	2.06	
PAVE	Global X U.S. Infrastructure Development ETF	1.77	1.77	2.09	2.12	
KROP	Global X AgTech & Food Innovation ETF	1.76	1.83	2.32	2.37	
DRIV	Global X Autonomous & Electric Vehicles ETF	1.26	1.37	1.42	1.53	
HYDR	Global X Hydrogen ETF	0.77	0.78	190.01	188.44	

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

F12 MONTH SALES GROWTH, PSG, AND EVSG Source: Bloomberg, data is as of 8/31/21 and 7/30/21, Global X ETFs.

Ticker	Name	F12M Sa	iles (%)	PS	SG .	EVSG	
		8/31/21	7/30/21	8/31/21	7/30/21	8/31/21	7/30/21
ВКСН	Global X Blockchain ETF	115.4%	141.1%	0.18	0.14	0.22	0.17
POTX	Global X Cannabis ETF	86.5%	108.8%	0.07	0.06	0.14	0.13
CHB	Global X China Biotech Innovation ETF	38.6%	47.4%	0.20	0.17	0.20	0.19
EWEB	Global X Emerging Markets Internet & E-commerce ETF	33.2%	43.6%	0.10	80.0	0.10	80.0
KEJI	Global X China Innovation ETF	31.6%	40.1%		0.08	0.14	0.12
LIT	Global X Lithium and Battery Tech ETF	30.2%	31.1%	0.11	0.11	0.12	0.12
EBIZ	Global X E-commerce ETF	28.6%	27.2%	0.08	0.09	0.09	0.09
HERO	Global X Video Games & Esports ETF	25.1%	31.7%	0.17	0.16		0.14
BUG	Global X Cybersecurity ETF	21.7%	26.2%	0.43	0.37	0.45	0.37
SOCL	Global X Social Media ETF	18.5%	18.3%	0.37	0.39	0.36	0.40
RNRG	Global X Renewable Energy Producers ETF	17.8%	23.6%	0.21	0.16	0.34	0.26
CLOU	Global X Cloud Computing ETF	17.8%	18.4%	0.60	0.56	0.63	0.58
EDUT	Global X Education ETF	17.5%	22.0%	0.15	0.13	0.15	0.13
AIQ	Global X Artificial Intelligence & Technology ETF	15.0%	15.4%	0.28	0.28	0.29	0.29
FINX	Global X FinTech ETF	14.2%	22.8%	0.57	0.37	0.66	0.44
VPN	Global X Data Center REITs & Digital Infrastructure ETF	14.1%	17.9%	0.55	0.39	0.74	0.54
BFIT	Global X Health & Wellness ETF	14.0%	16.8%	0.13	0.11	0.14	0.12
MILN	Global X Millennial Consumer ETF	13.6%	13.8%	0.27	0.26	0.30	0.30
PAVE	Global X U.S. Infrastructure Development ETF	12.4%	13.4%	0.14	0.13	0.17	0.16
HYDR	Global X Hydrogen ETF	11.1%	23.8%	0.07	0.03		7.91
DRIV	Global X Autonomous & Electric Vehicles ETF	10.7%	11.1%	0.12	0.12	0.13	0.14
ACWI	ACWI Index	10.3%	10.0%	0.22	0.23	0.26	0.27
SPX	5&P 500 Index	10.2%	9.0%	0.30	0.35	0.34	0.38
EDOC	Global X Telemedicine & Digital Health ETF	10.0%	9.4%	0.47	0.50		0.55
SNSR	Global X Internet of Things ETF	9.4%	25.1%	0.34	0.13	0.40	0.15
AGNG	Global X Aging Population ETF	8.2%	9.6%	0.62	0.53	0.70	0.59
AQWA	Global X Clean Water ETF	6.4%	6.2%	0.47	0.49	0.64	0.66
BOTZ	Global X Robotics & Artificial Intelligence ETF	5.2%	9.3%	0.86	0.47	0.86	0.48
KROP	Global X AgTech & Food Innovation ETF		4.0%	0.50	0.46	0.66	0.60
GNOM	Global X Genomics & Biotechnology ETF	3.4%	5.0%	3.58	2.33	3.45	2.19
CTEC	Global X Cleantech ETF	-1.0%	-0.5%	-1.76	-3.63	-2.18	-4.51

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. WAs reflect a negative growth number in the denominator and similar to traditional PEG ratios aren't typically displayed as such (hence the N/A).





INTRO TO THEMATIC INVESTING COURSE - ELIGIBLE FOR CE CREDIT

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- Multi-Theme: Thematic Growth ETF (GXTG), China Innovation ETF (KEJI)
- 1. PYMNTS.com, "Buy Now, Pay Later: 5 Fast Facts", Aug 3, 2021.
- 2. Businesswire, "Amazon Partners with Affirm to Deliver Pay-Over-Time Option at Checkout", Aug 27, 2021.
- 3. PYMNTS.com, "What The Square Afterpay Deal Means For BNPL, FinTech, BigTech And Banks", Aug 9, 2021.





- 4. CNBC, "House Democrats clear path toward passing \$3.5 trillion budget bill and infrastructure plan after breaking stalemate", Aug 24, 2021.
- 5. White House, "FACT SHEET: Bipartisan Infrastructure Deal and Build Back Better Agenda Present Bright Future for Solar Power, Good Jobs, and More Affordable Energy", Aug 17, 2021.
- 6. White House, "FACT SHEET: Biden Administration and Private Sector Leaders Announce Ambitious Initiatives to Bolster the Nation's Cybersecurity", Aug 25, 2021.
- Ibid.
- 8. Economic Times, "Tesla starts hiring roboticists for its humanoid robot project", Aug 26, 2021.
- 9. New York Times, "Tracking Coronavirus Vaccinations Around the World", Sep 3, 2021.
- 10. Lancelet Infectious Diseases 2021, "Rapid genome sequencing in hospitals to identify potential vaccine-escape SARS-CoV-2 variants", Aug 13, 2021.
- 11. News10, "COVID genome sequencing can help New York battle variants", Aug 5, 2021.
- 12. MarketWatch, "What new crypto tax rules would mean for average investors and miners", Aug 2, 2021.
- 13. Nasdaq, "CBDCs Are Coming, Ushering in a New Era of Crypto-Banking", Aug 30, 2021.

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