

GLOBAL X ETFs RESEARCH

The Next Big Theme: July 2021

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Date: July 13, 2021

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



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U.S. Infrastructure

Biden's Infrastructure Plan Charges Ahead

President Biden and a group of bipartisan senators finally **announced an infrastructure spending deal** foreseeing \$1.2 trillion in expenditures over the course of eight years—the largest infrastructure investment in history.¹ Of the \$1.2 trillion, \$579 billion is considered 'new spending', with \$313 billion dedicated to transportation with a primary focus on roads, bridges, and major projects.² The remaining \$266 billion will be directed towards non-transportation infrastructure projects like power, broadband, water and climate resilience.

THE \$1.2T BIPARTISAN INFRASTRUCTURE DEAL FEATURES \$579B OF NEW SPENDING, POTENTIALLY ACROSS IMPORTANT AREAS OUTLINED BY THE AMERICAN JOBS PLAN

INFRASTRUCTURE AREA	NEW SPENDING (\$B)	PART OF JOBS PLAN?
Transportation Infrastructure	\$312.8B	
Roads, Bridges, Major Projects	\$110B	x
Passenger & Freight Rail	\$66B	x
General Public Transit	\$48.5B	x
Airports	\$25B	x
Infrastructure Financing Authority	\$20B	
Ports & Waterways	\$16.3B	x
Electric Vehicles & Electrified Transit	\$15B	x
Other	\$12B	N/A
Next-Gen Infrastructure	\$266.2B	
Power Infrastructure	\$73B	x
Broadband Infrastructure	\$65B	x
Water Infrastructure/Storage	\$60B	x
Resilience	\$47.2B	x
Closing Orphan Oil Wells/Mines	\$16B	x
Environmental Remediation	\$5B	x
Total New Spending	\$579B	

Note: The areas/spending amounts outlined are based on an outline that circulated around Capitol Hill prior to the announced deal. We were comfortable including it with this note as President Biden mentioned many of the same areas/amounts during his press conference, including top-line new spending, rail and transit.
Source: Politico, Global X ETFs, 2021.

Successfully passing the Bipartisan Infrastructure Framework, budget resolution, and legislation could stimulate economic growth in the near term through accelerated job creation and purchasing of American-made materials. Over the longer term, returns on infrastructure spending are expected to have a strong positive impact on GDP, with some estimates holding that each dollar spent on infrastructure increases annual GDP by \$0.20 over the long term.³ Despite an initial backlash from Republicans after Biden



remarked he would withhold his signature until the passage of the separate American Families Plan through reconciliation, subsequent retraction of the statement and pledging objective support for the deal, sets the plan back on track.

E-commerce

Shopify Opens Up Shop Pay

Shop Pay, Shopify's highly successful one-click checkout process, is no longer exclusive to Shopify's merchants; the feature will be added to Facebook and Instagram's platforms as social media giants are increasingly integrating e-commerce features. When a user reaches the payment step on a platform like Instagram, they can select Shop Pay as the desired method to receive a confirmation code on their phone and then enter the code to complete the order without leaving Instagram. According to Shopify, Shop Pay is 70% faster and features a conversion rate that's 1.72x higher than a typical checkout process.⁴ The simplified checkout process offered by Shop Pay resulted in more than \$24 billion in orders since its launch. Google will also add the payment feature in late 2021, at which point Shop Pay will be available to more than one million merchants.⁵

Lithium & Cleantech

Large-Scale Miners Focusing on Better Environmental Practices

Lithium miners are increasingly prioritizing sustainability. In its yearly Sustainability Report, lithium producer SQM, reaffirmed their stance on protecting the environment by making efforts to limit their own negative impact. Core goals for the company include cutting brine extraction in half by 2030, reducing continental water consumption by 65% by 2040, and achieving carbon neutrality by 2040.⁶ SQM also pledged to adhere to the sustainability principles of the World Economic Forum's Global Battery Alliance (GBA). Similarly, Albemarle's annual Sustainability Report detailed the firm's aims to reduce energy and water use and achieve net zero carbon emissions by 2050.⁷ It also committed to growing its lithium business in a carbon-intensity neutral manner through 2030.⁸ To solidify their allegiance with climate relief efforts, Albemarle also became a signatory to the United Nations Global Compact (UNGC). SQM and Albemarle are joined by industry peers like Livent and Orocobre in committing to the green lithium movement. While lithium is a key ingredient in state-of-the-art batteries used in electric vehicles and renewable energy storage, lithium mining has historically come under fire for its negative environmental impacts.

Video Games & Esports

Gaming Numbers Continue to Exceed Expectations

Gaming thrived during pandemic-induced lockdowns, but even as the economy re-opens and the weather improves, video games continue their strong trajectory. YTD through May 2021, industry sales reached \$24 billion, a 17% increase compared to the same period in 2020.⁹ The best-selling game in May in the U.S, was Capcom's Resident Evil: Village, which recorded the highest sales during its launch month of any 2021 release.¹⁰ Similarly, YTD hardware sales rose 36%, totaling \$1.9 billion.¹¹ The rise is largely attributed to November's launch of new consoles from both Sony and Microsoft. Since launch, the PS5 and Xbox Series



X & S garnered sales of 9 million units and 5.33 million units, respectively.¹² Long-term, the global video game console market is expected to achieve a 5.25% CAGR through 2027.¹³

Cloud Computing

Cloud Computing Accelerates in EMs

Historically, cloud adoption in emerging markets (EMs) has lagged behind their developed counterparts. But growing access to public cloud options are changing that paradigm. Small and medium-sized enterprises (SMEs) in the Middle East are increasingly using basic public cloud technologies, visualized hardware and computing infrastructures. Major conglomerates offering these services to SMEs in the Middle East include Oracle, IBM, and Adobe Systems. The Middle East and Africa (MEA) cloud computing market size is expected to grow from \$14.2 billion in 2021 to \$31.4 billion by 2026, a CAGR of 17.2%.¹⁴ Beyond a growing presence from major US cloud providers, the MEA region is able to adopt cloud technology at last because governmental initiatives and enhanced digital infrastructure.

Collaborators in Cloud Computing

Amazon Web Services (AWS) and Salesforce, two of the biggest names in cloud technology, announced plans to further integrate their companies and services. With the new improvements, data stored in AWS will automatically transfer to Salesforce's platform with no custom coding required. Salesforce will also mimic some of AWS' features such as voice, video, and artificial intelligence technology. Although the integration is projected to be completed in late 2022, it could have cascading impacts in the industry as different cloud providers join forces. In the first quarter of 2021, cloud infrastructure spending totaled \$18.6 billion—of which, AWS comprised 37% followed close behind by Microsoft's Azure at 23%.¹⁵

Cleantech

Companies Race Against Climate Change

Government funding and regulations are often viewed as the keys to achieving carbon neutrality. But in emerging markets, where government budgets are tight, the private sector is playing a greater role in supporting the transition to clean energy. For example, Reliance Industries, an Indian conglomerate with stakes in everything from oil refining to telecommunications, vowed to invest \$10 billion over the next three years in an attempt to accelerate India's progress towards clean energy.¹⁶ Similarly, IKEA foundation and Rockefeller Foundation plan to set up a \$1 billion fund, \$500 million from each foundation, to support renewable energy programs in developing nations.¹⁷ The goal is to reduce one billion tons of greenhouse gas emissions and provide one billion people with distributed renewable energy. The foundations aim to attract additional funding up to \$10 billion from international development agencies, highlighting commercial viability.¹⁸

THE NUMBERS

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



JUNE 2021 THEMATIC ETF RETURNS

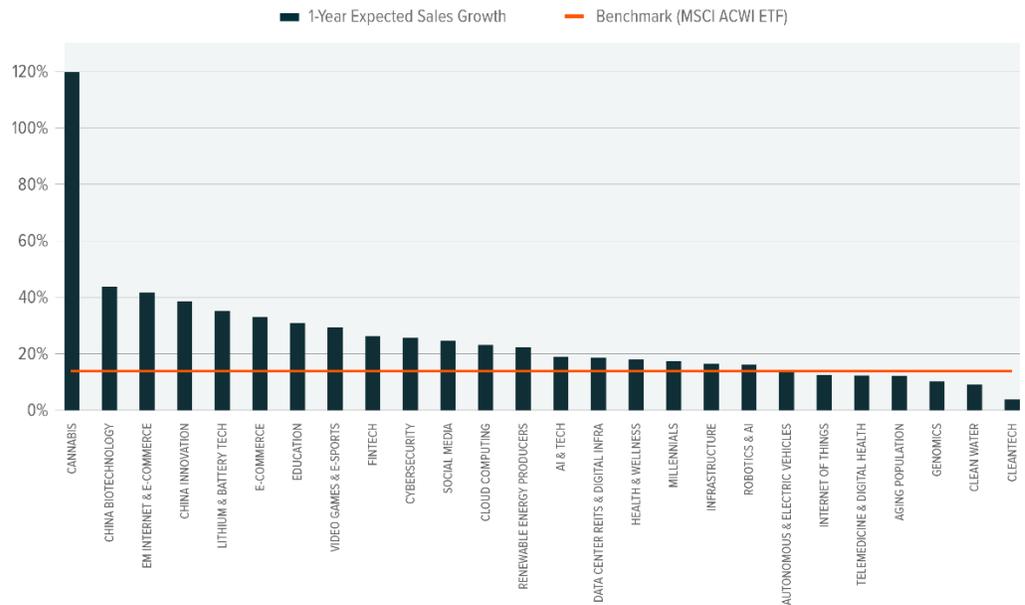
Source: Bloomberg, June 30, 2021, Global X ETFs.



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

THEMATIC SALES GROWTH

Source: Bloomberg, June 30, 2021, Global X ETFs.



Note: Forward looking based on data and analysis from 06/30/2021.
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 6/30/21			Avg. Annualized % Data as of quarter end 3/31/21					
	Gross Expense Ratio	Net 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%	0.68%	NAV	-0.23%	2.36%	137.16%	80.86%	12.27%	-	-	19.89%
			Market Price	-0.26%	1.87%	136.96%	82.58%	12.02%	-	-	20.01%
			Index	-0.47%	2.11%	139.41%	81.42%	12.20%	-	-	20.17%
FinTech Inception Date 9/12/2016	0.68%	0.68%	NAV	-3.05%	-3.87%	200.29%	82.01%	23.64%	-	-	26.62%
			Market Price	-2.97%	-4.08%	200.22%	82.05%	23.70%	-	-	26.70%
			Index	-2.99%	-3.72%	209.57%	83.14%	24.45%	-	-	27.44%
Internet of Things Inception Date 9/12/2016	0.68%	0.68%	NAV	1.70%	3.09%	140.11%	81.87%	19.57%	-	-	20.10%
			Market Price	1.52%	2.79%	140.04%	82.82%	19.63%	-	-	20.18%
			Index	1.91%	3.36%	144.15%	82.73%	19.91%	-	-	20.48%
Cloud Computing Inception Date 4/12/2019	0.68%	0.68%	NAV	-3.75%	-3.25%	73.79%	75.94%	-	-	-	31.36%
			Market Price	-3.89%	-3.25%	74.49%	76.06%	-	-	-	31.63%
			Index	-3.64%	-3.02%	76.14%	76.94%	-	-	-	32.07%
Social Media Inception Date 11/14/2011	0.65%	0.65%	NAV	-2.70%	-5.86%	362.36%	124.26%	24.33%	29.61%	-	17.57%
			Market Price	-2.59%	-5.89%	362.49%	125.80%	24.42%	29.79%	-	17.63%
			Index	-2.31%	-5.40%	388.85%	125.54%	25.13%	30.39%	-	18.20%
Artificial Intelligence & Technology Inception Date 5/11/2018	0.68%	0.68%	NAV	-1.33%	1.40%	95.87%	81.94%	-	-	-	25.34%
			Market Price	-1.30%	1.26%	96.14%	83.55%	-	-	-	25.55%
			Index	-0.96%	1.87%	98.66%	82.76%	-	-	-	25.73%
Autonomous & Electric Vehicles Inception Date 4/13/2018	0.68%	0.68%	NAV	2.71%	4.41%	93.01%	138.34%	-	-	-	22.96%
			Market Price	2.67%	4.42%	92.94%	140.13%	-	-	-	23.08%
			Index	2.73%	4.55%	93.77%	139.35%	-	-	-	23.07%
Lithium & Battery Technology Inception Date 7/22/2010	0.75%	0.75%	NAV	3.88%	8.51%	149.23%	165.84%	22.73%	24.47%	4.44%	7.54%
			Market Price	4.48%	9.35%	150.62%	171.03%	23.04%	24.82%	4.61%	7.68%
			Index	6.22%	11.06%	167.22%	165.07%	22.48%	24.50%	4.82%	8.00%
Genomics & Biotechnology Inception Date 4/5/2019	0.50%	0.50%	NAV	-4.44%	-9.73%	41.03%	77.53%	-	-	-	21.35%
			Market Price	-4.66%	-9.97%	43.52%	78.23%	-	-	-	22.68%
			Index	-4.37%	-9.61%	42.70%	78.46%	-	-	-	21.99%
Millennial Consumer Inception Date 5/4/2016	0.50%	0.50%	NAV	-1.10%	3.67%	182.40%	100.66%	26.66%	-	-	22.85%
			Market Price	-1.27%	3.54%	181.39%	100.76%	26.66%	-	-	22.78%
			Index	-1.06%	3.81%	189.22%	101.88%	27.32%	-	-	23.41%
Aging Population Inception Date 5/10/2016	0.50%	0.50%	NAV	0.76%	5.11%	98.99%	37.23%	12.81%	-	-	13.85%
			Market Price	0.72%	4.96%	103.19%	37.70%	12.79%	-	-	14.40%
			Index	0.99%	5.40%	102.34%	37.64%	13.07%	-	-	14.16%
Health & Wellness Inception Date 5/9/2016	0.50%	0.50%	NAV	6.46%	13.73%	103.74%	68.30%	15.45%	-	-	13.17%
			Market Price	6.54%	13.43%	106.59%	69.56%	15.40%	-	-	13.52%
			Index	6.42%	13.82%	108.08%	69.09%	15.86%	-	-	13.64%
E-Commerce Inception Date 11/27/2018	0.50%	0.50%	NAV	-3.06%	-4.25%	126.21%	127.75%	-	-	-	42.68%
			Market Price	-3.29%	-4.47%	125.87%	127.90%	-	-	-	42.84%
			Index	-3.03%	-4.14%	128.89%	128.38%	-	-	-	43.33%
US Infrastructure Development Inception Date 3/6/2017	0.47%	0.47%	NAV	2.64%	15.84%	80.82%	102.90%	16.74%	-	-	14.08%
			Market Price	2.59%	15.83%	80.96%	103.31%	16.74%	-	-	14.13%
			Index	2.67%	15.98%	84.64%	104.17%	17.32%	-	-	14.63%
Cannabis Inception Date 9/7/2019	0.51%	0.51%	NAV	3.59%	-7.94%	-32.93%	86.38%	-	-	-	-20.88%
			Market Price	2.41%	-7.62%	-34.72%	84.43%	-	-	-	-21.74%
			Index	3.50%	-8.24%	-39.82%	75.68%	-	-	-	-26.13%
Video Games & Esports Inception Date 10/25/2019	0.50%	0.50%	NAV	0.00%	-0.92%	117.80%	92.16%	-	-	-	68.09%
			Market Price	0.00%	-0.74%	117.98%	92.37%	-	-	-	68.57%
			Index	0.04%	-0.77%	119.54%	93.30%	-	-	-	68.94%
Cybersecurity Inception Date 10/25/2019	0.50%	0.50%	NAV	1.79%	3.48%	80.81%	68.73%	-	-	-	41.73%
			Market Price	1.89%	3.43%	84.53%	69.86%	-	-	-	43.91%
			Index	1.88%	3.64%	80.63%	69.51%	-	-	-	41.51%
Thematic Growth Inception Date 10/25/2019	0.50%	0.50%	NAV	-1.82%	-3.40%	94.12%	116.53%	-	-	-	57.16%
			Market Price	-1.84%	-3.57%	96.22%	118.02%	-	-	-	58.37%
			Index	-1.87%	-3.54%	93.45%	116.17%	-	-	-	56.89%
Education Inception Date 7/10/2020	0.50%	0.50%	NAV	-12.62%	-23.27%	-3.88%	-	-	-	-	-
			Market Price	-12.64%	-23.14%	-3.62%	-	-	-	-	-
			Index	-12.66%	-23.23%	-3.56%	-	-	-	-	-
Telemedicine & Digital Health Inception Date 7/29/2020	0.68%	0.68%	NAV	-6.78%	-8.54%	20.99%	-	-	-	-	-
			Market Price	-6.89%	-8.73%	20.79%	-	-	-	-	-
			Index	-6.60%	-8.26%	21.70%	-	-	-	-	-
China Biotech Inception Date 9/22/2020	0.67%	0.67%	NAV	1.23%	12.13%	25.58%	-	-	-	-	-
			Market Price	1.60%	11.53%	26.31%	-	-	-	-	-
			Index	1.28%	12.33%	26.18%	-	-	-	-	-
CleanTech Inception Date 10/27/2020	0.50%	0.50%	NAV	-5.82%	-18.70%	27.82%	-	-	-	-	-
			Market Price	-5.83%	-19.32%	27.49%	-	-	-	-	-
			Index	-8.83%	-21.03%	24.24%	-	-	-	-	-



Data Center REITs & Digital Infrastructure Inception Date 10/27/2020	0.50%	0.50%	NAV	-1.03%	6.91%	9.82%	-	-	-	-	-
			Market Price	-1.14%	6.21%	9.95%	-	-	-	-	-
			Index	-0.89%	6.99%	9.96%	-	-	-	-	-
Emerging Markets Internet & E-commerce Inception Date 11/9/2020	0.65%	0.65%	NAV	-5.13%	-16.42%	1.22%	-	-	-	-	-
			Market Price	-5.07%	-16.96%	1.28%	-	-	-	-	-
			Index	-5.09%	-16.30%	1.55%	-	-	-	-	-
Renewable Energy Producers Inception Date 5/27/2015	0.65%	0.65%	NAV	0.76%	-1.37%	34.06%	34.48%	14.73%	13.03%	-	5.11%
			Market Price	0.70%	-1.30%	34.11%	33.73%	14.69%	12.95%	-	5.13%
			Index	1.09%	-0.94%	37.50%	34.99%	15.20%	13.51%	-	5.49%
China Innovation Inception Date 2/22/2021	0.75%	0.75%	NAV	0.48%	-6.23%	-15.76%	-	-	-	-	-
			Market Price	1.10%	-6.52%	-15.68%	-	-	-	-	-
			Index	2.80%	-1.50%	-7.36%	-	-	-	-	-
Clean Water Inception Date 4/8/2021	0.50%	0.50%	NAV	2.58%	-	5.78%	-	-	-	-	-
			Market Price	2.77%	-	6.12%	-	-	-	-	-
			Index	2.57%	-	5.83%	-	-	-	-	-

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.

P/S AND EV/S

Source: Bloomberg, data is as of 6/30/21 and 5/31/21, Global X ETFs.

Ticker	Name	P/S		EV/S	
		6/30/21	5/31/21	6/30/21	5/31/21
GNOM	Global X Genomics & Biotechnology ETF	13.60	11.83	13.05	11.13
CLOU	Global X Cloud Computing ETF	10.29	9.46	10.79	9.94
BUG	Global X Cybersecurity ETF	9.51	9.08	9.49	9.03
CHB	Global X China Biotech Innovation ETF	8.84	9.32	9.48	9.94
FINX	Global X FinTech ETF	8.43	7.94	9.62	9.08
POTX	Global X Cannabis ETF	8.34	7.99	17.98	16.65
SOCL	Global X Social Media ETF	7.56	7.10	8.42	7.88
VPN	Global X Data Center REITs & Digital Infrastructure ETF	7.08	6.77	9.62	9.29
KEJI	Global X China Innovation ETF	6.36	5.38	6.23	5.63
HERO	Global X Video Games & Esports ETF	5.25	5.27	4.91	5.22
AGNG	Global X Aging Population ETF	5.21	5.00	5.95	5.73
EDOC	Global X Telemedicine & Digital Health ETF	4.95	4.76	5.54	5.20
EWEB	Global X Emerging Markets Internet & E-commerce ETF	4.34	4.26	4.45	4.29
AIQ	Global X Artificial Intelligence & Technology ETF	4.27	4.07	4.45	4.24
RNRG	Global X Renewable Energy Producers ETF	3.89	3.79	6.18	6.06
MILN	Global X Millennial Consumer ETF	3.70	3.57	4.19	4.07
BOTZ	Global X Robotics & Artificial Intelligence ETF	3.52	3.34	3.59	3.41
EDUT	Global X Education ETF	3.46	3.55	3.63	3.74
SPX	S&P 500 Index	3.11	3.04	3.46	3.39
SNSR	Global X Internet of Things ETF	3.09	3.01	3.68	3.59
LIT	Global X Lithium and Battery Tech ETF	3.02	2.80	3.33	3.07
AQWA	Global X Clean Water ETF	2.97	2.92	4.05	4.01
EBIZ	Global X E-commerce ETF	2.57	2.51	2.61	2.56
ACWI	ACWI Index	2.29	2.26	2.77	2.71
CTEC	Global X Cleantech ETF	2.01	1.91	2.49	2.40
BFIT	Global X Health & Wellness ETF	1.90	1.82	2.13	2.13
PAVE	Global X U.S. Infrastructure Development ETF	1.79	1.84	2.15	2.20
DRIV	Global X Autonomous & Electric Vehicles ETF	1.38	1.35	1.59	1.56

Note: 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 6/30/21 and 5/31/21, Global X ETFs.

Ticker	Name	F12M Sales (%)		PSG		EVSG	
		6/30/21	5/31/21	6/30/21	5/31/21	6/30/21	5/31/21
POTX	Global X Cannabis ETF	119.7%	109.7%	0.07	0.07	0.15	0.15
CHB	Global X China Biotech Innovation ETF	43.8%	40.4%	0.20	0.23	0.22	0.25
EWEB	Global X Emerging Markets Internet & E-commerce ETF	41.7%	40.8%	0.10	0.10	0.11	0.11
KEJI	Global X China Innovation ETF	38.6%	36.0%	0.16	0.15	0.16	0.16
LIT	Global X Lithium and Battery Tech ETF	35.2%	33.3%	0.09	0.08	0.09	0.09
EBIZ	Global X E-commerce ETF	33.1%	31.8%	0.08	0.08	0.08	0.08
EDUT	Global X Education ETF	30.8%	35.8%	0.11	0.10	0.12	0.10
HERO	Global X Video Games & Esports ETF	29.3%	26.4%	0.18	0.20	0.17	0.20
FINX	Global X FinTech ETF	26.2%	26.2%	0.32	0.30	0.37	0.35
BUG	Global X Cybersecurity ETF	25.6%	24.0%	0.37	0.38	0.37	0.38
SOCL	Global X Social Media ETF	24.6%	23.5%	0.31	0.30	0.34	0.34
CLOU	Global X Cloud Computing ETF	23.1%	21.7%	0.44	0.44	0.47	0.46
RNRG	Global X Renewable Energy Producers ETF	22.3%	21.3%	0.17	0.18	0.28	0.28
AIQ	Global X Artificial Intelligence & Technology ETF	18.9%	17.9%	0.23	0.23	0.24	0.24
VPN	Global X Data Center REITs & Digital Infrastructure ETF	18.6%	17.7%	0.38	0.38	0.52	0.52
BFIT	Global X Health & Wellness ETF	18.0%	20.0%	0.11	0.09	0.12	0.11
MILN	Global X Millennial Consumer ETF	17.3%	16.3%	0.21	0.22	0.24	0.25
PAVE	Global X U.S. Infrastructure Development ETF	16.5%	14.6%	0.11	0.13	0.13	0.15
BOTZ	Global X Robotics & Artificial Intelligence ETF	16.1%	15.2%	0.22	0.22	0.22	0.23
DRIV	Global X Autonomous & Electric Vehicles ETF	14.2%	13.6%	0.10	0.10	0.11	0.11
ACWI	ACWI Index	14.1%	13.2%	0.16	0.17	0.20	0.20
SPX	S&P 500 Index	13.1%	11.7%	0.24	0.26	0.26	0.29
SNSR	Global X Internet of Things ETF	12.5%	12.4%	0.25	0.24	0.29	0.29
EDOC	Global X Telemedicine & Digital Health ETF	12.3%	11.5%	0.40	0.41	0.45	0.45
AGNG	Global X Aging Population ETF	12.1%	12.3%	0.43	0.40	0.49	0.46
GNOM	Global X Genomics & Biotechnology ETF	10.2%	8.5%	1.33	1.40	1.27	1.31
AQWA	Global X Clean Water ETF	9.1%	4.8%	0.33	0.61	0.45	0.84
CTEC	Global X Cleantech ETF	3.8%	6.6%	0.53	0.29	0.66	0.37

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 \(GXTG\)](#), [China Innovation ETF \(KEJI\)](#)

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