



Thematic Index Series

Powered By:



What?

ETF All-Stars Thematic Indexes are the first ever suite of indexes harnessing the growth and transparency of thematic ETFs to establish a consensus view on which companies best align with popular investment themes based on publicly available ETF ownership data.

How?

Using ETF Action's proprietary classification system and ownership database, ETF holdings data is aggregated across each broad thematic segment to determine each company's ownership adjusted market value ("OAMV™"). OAMV™ is calculated by taking the total ownership value of each company in an ETF segment (qualifying ETFs are subject to a 10% influence cap) times the number of ETFs that own each company in the targeted segment. Each index represents 75% of the OAMV™ for each ETF segment. Qualifying companies are weighted by OAMV™, subject to a 5% weighting cap. The indexes are then rebalanced monthly.

Qualifying ETF Universe



Calculate Consensus Rating



ETF All-Stars



Why?

Potential advantages of the ETF All-Stars Thematic Indexes include:

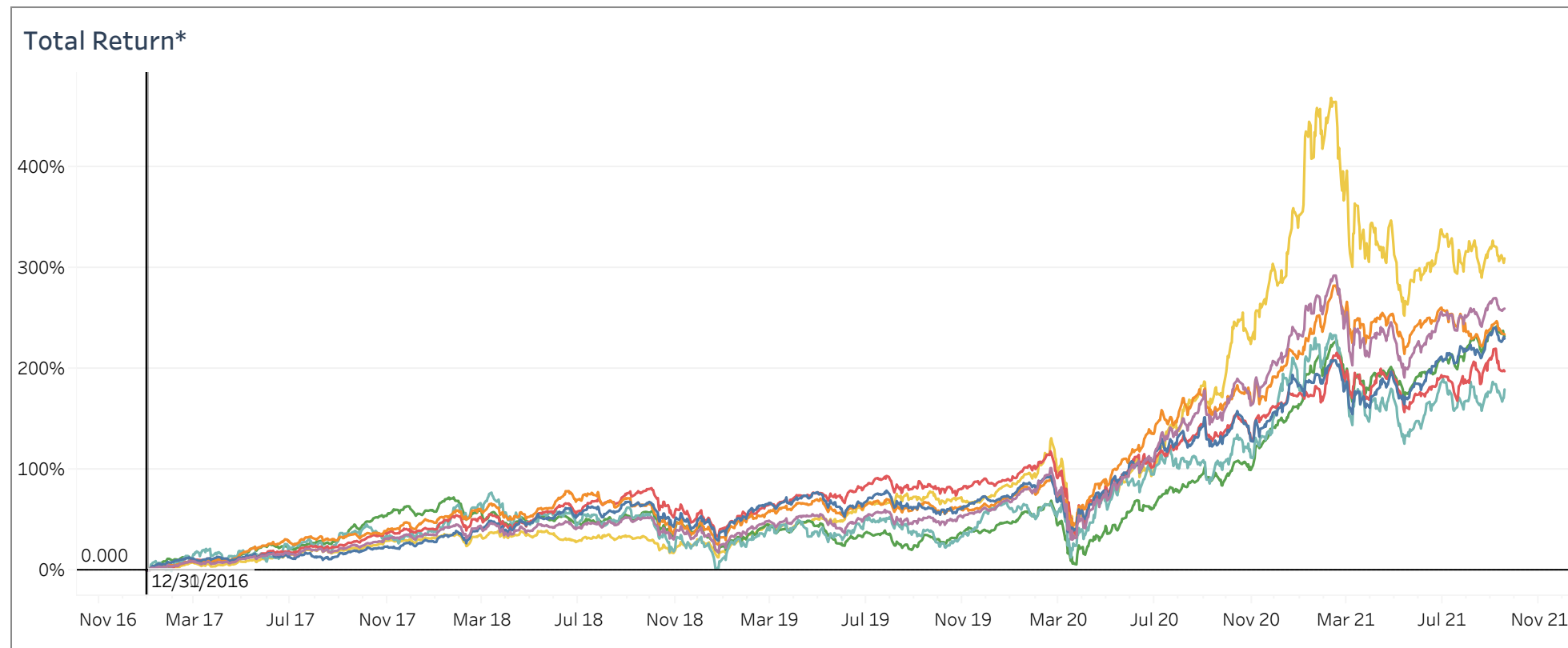
- Access to a diversified basket of companies most widely owned by thematic ETFs
- Indexes are built using an objective methodology that follows a transparent and repeatable rules-based process
- Indexes dynamically adapt to ever-changing ETF landscape (new launches and closures) and investor sentiment (ETF flows)

ETF All Stars Thematic Indexes

- ETF All Stars Thematic Composite Index
- ETF All Stars Disruptive Tech Index
- ETF All Stars Evolving Consumer Index
- ETF All Stars Industrial Revolution Index
- ETF All Stars FinTech Index
- ETF All Stars Healthcare Innovation Index
- ETF All Stars Sustainability Index

ETF All-Stars Performance & Overlap

TCASX As of 9/17/2021



■ Thematic Composite
 ■ Disruptive Tech
 ■ Evolving Consumer
 ■ FinTech
 ■ Health Innovation
 ■ Industrial Revolution
 ■ Sustainability

ETF All-Star Index Overlap Matrix

	Thematic Composite	Disruptive Tech	Evolving Consumer	FinTech	Health Care Innovation	Industrial Revolution	Sustainability
Thematic Composite	100.00%	38.26%	19.81%	11.55%	4.09%	25.72%	24.57%
Disruptive Tech	38.26%	100.00%	5.14%	1.06%	0.00%	5.26%	1.21%
Evolving Consumer	19.81%	5.14%	100.00%	5.16%	0.00%	7.75%	0.00%
FinTech	11.55%	1.06%	5.16%	100.00%	0.00%	4.33%	0.00%
Health Care Innovation	4.09%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%
Industrial Revolution	25.72%	5.26%	7.75%	4.33%	0.00%	100.00%	7.60%
Sustainability	24.57%	1.21%	0.00%	0.00%	0.00%	7.60%	100.00%

Standardized Performance

	1 Month	3 Month	6 Month	YTD	1 Year	3 Year Annualized	5 Year Annualized	Inception*
Thematic Composite	4.54%	6.62%	6.98%	7.86%	43.65%	33.78%		31.35%
Disruptive Tech	5.44%	9.03%	19.16%	16.34%	47.34%	26.33%		28.96%
Evolving Consumer	3.16%	-3.96%	-4.46%	6.11%	29.48%	26.93%		29.31%
FinTech	4.46%	5.30%	1.12%	7.82%	27.13%	19.04%		26.15%
Health Care Innovation	5.39%	5.64%	0.68%	0.44%	36.24%	22.82%		24.47%
Industrial Revolution	4.03%	11.84%	13.03%	25.71%	71.73%	29.14%		29.14%
Sustainability	3.48%	0.52%	-7.10%	-9.56%	49.31%	45.90%		35.04%

Index First Value Date is Dec 31 2016. The index Launch Date is Jun 11 2021. All information for an index prior to its Launch Date is hypothetical back-tested, not actual performance, based on the index methodology in effect on the Launch Date.

ETF All-Stars Thematic Composite Index

TCASX As of 9/17/2021



Thematic All-Stars ETF Universe

Fund Count	156
Assets Under Management	\$123.55B
Unique Universe Companies	3,348
All-Star Portfolio Holdings	151

Index Description:

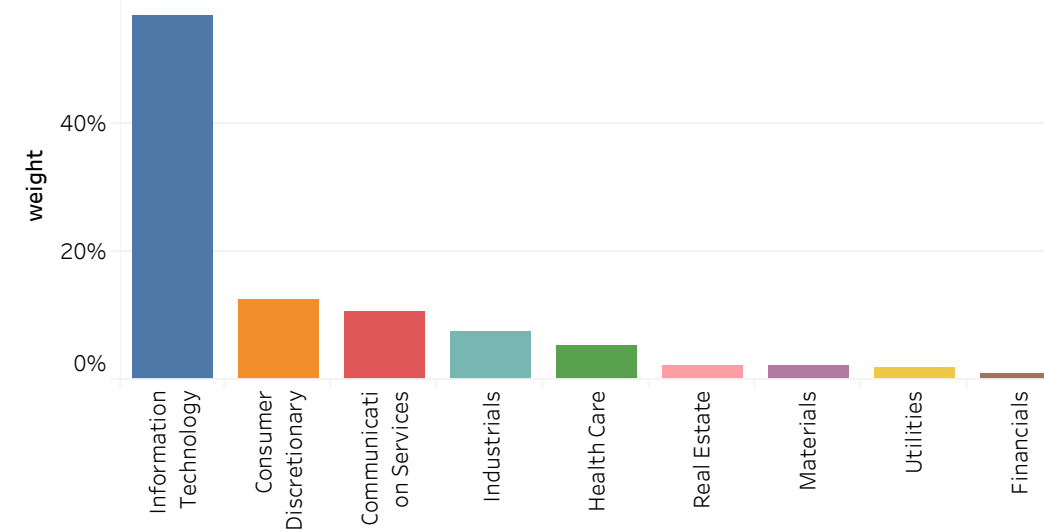
The index is designed to track 75% of the Ownership Adjusted market Value (OAMV) of all companies held by ETFs classified within the Thematic Composite according to the ETF Action Classification System. Qualifying companies are weighted based on their OAMV and subject to a 5% single company cap.

Index Performance*

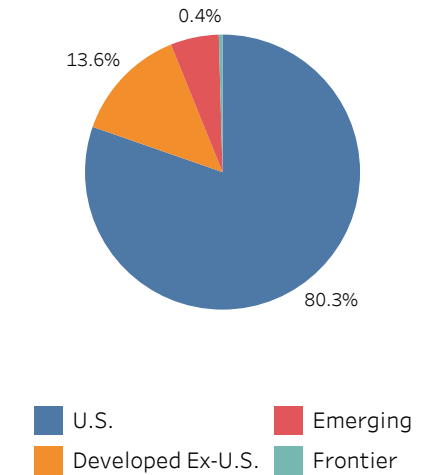


Index Composition

Sectors



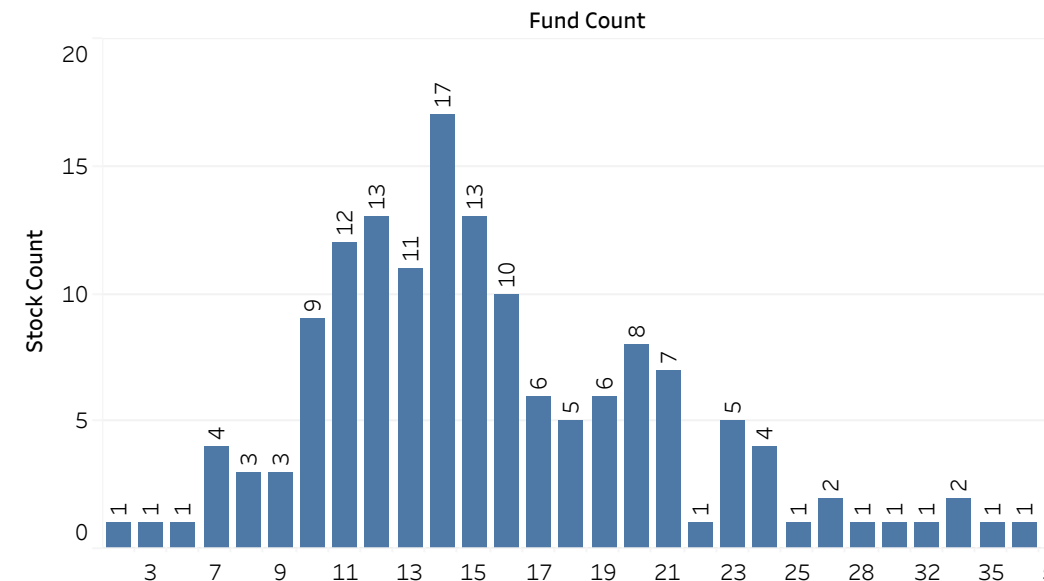
Market Development



Market Cap

Large Cap	87.01%
Mid Cap	12.80%
Small Cap	0.19%

ETF Universe Ownership of Portfolio Companies



Top 10 Holdings

Company	Sector	Weight (%)
Tesla Inc	Consumer Discretionary	5.41%
NVIDIA Corporation	Information Technology	4.69%
Square, Inc. Class A	Information Technology	3.03%
Alphabet Inc. Class C	Communication Services	2.70%
Amazon.com, Inc.	Consumer Discretionary	2.49%
Enphase Energy, Inc.	Information Technology	2.34%
Zscaler, Inc.	Information Technology	2.14%
SolarEdge Technologies, Inc.	Information Technology	2.00%
Microsoft Corporation	Information Technology	1.82%
First Solar, Inc.	Information Technology	1.72%
Top 10 Weighting		28.33%

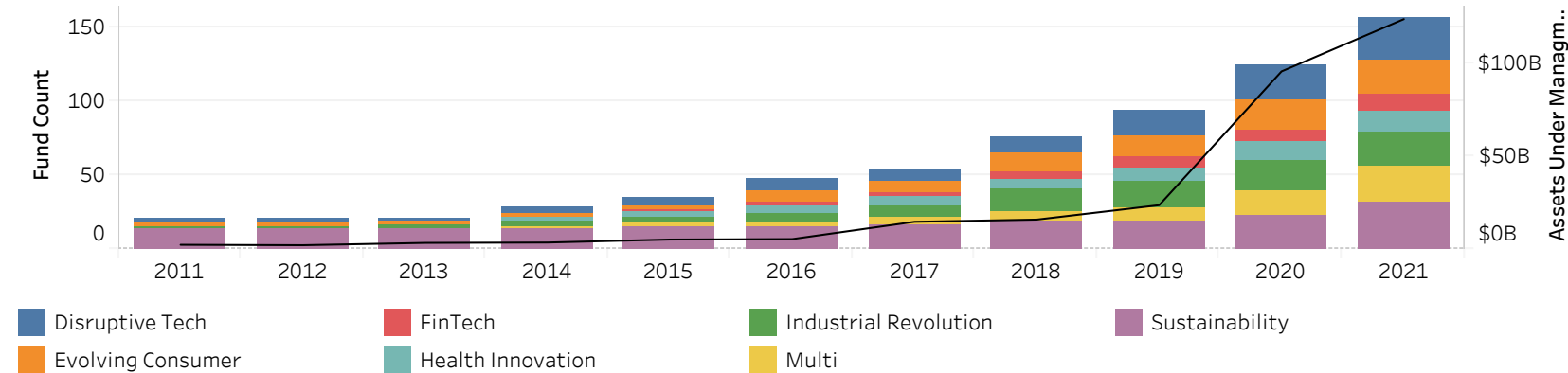
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ETF All-Stars Landscape, Performance & Overlap

TCASX As of 9/17/2021



All-Stars Thematic Landscape Growth



Thematic Landscape AUM & Flows

Segment	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Disruptive Tech	28	\$29,684M	\$252M	\$737M	(\$420M)	\$7,114M
Evolving Consumer	23	\$5,629M	(\$19M)	(\$597M)	(\$859M)	\$1,917M
FinTech	12	\$8,238M	\$99M	(\$79M)	(\$14M)	\$4,940M
Health Innovation	14	\$10,178M	\$0M	(\$305M)	(\$762M)	\$7,325M
Industrial Revolution	22	\$17,811M	\$170M	\$582M	\$1,187M	\$8,630M
Multi	25	\$29,652M	\$84M	(\$1,393M)	(\$406M)	\$12,828M
Sustainability	32	\$22,358M	\$87M	\$810M	\$1,935M	\$12,698M
Grand Total	156	\$123,551M	\$674M	(\$245M)	\$661M	\$55,452M

Thematic Composite Standardized Performance

	1 Month	3 Month	6 Month	YTD	1 Year	3 Year Annualized	5 Year Annualized	Inception*
Thematic Composite	4.54%	6.62%	6.98%	7.86%	43.65%	33.78%		31.35%

Top 15 Multi-Theme ETFs by AUM

ETF	Description	Broad-based	Launch Date	AUM	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	All-Stars Overlap (#)	All-Stars Overlap (%)
ARKK	ARK Innovation ETF	Broad-based	October 31, 2014	\$21,359M	4.84%	2.53%	-2.40%	38.30%	39.35%	43.40%	26	25.09%
XT	iShares Exponential Technologies ETF	Broad-based	March 19, 2015	\$4,101M	1.24%	4.29%	14.33%	34.83%	20.87%	21.70%	51	22.90%
KOMP	SPDR S&P Kensho New Economies Composite ETF	Broad-based	October 22, 2018	\$2,137M	2.94%	-5.05%	10.58%	50.36%			92	18.96%
GINN	Goldman Sachs ETF Trust Goldman Sachs Innovate Equity ETF	Broad-based	November 6, 2020	\$487M	2.54%	2.61%	12.75%				91	31.88%
TECB	iShares U.S. Tech Breakthrough Multisector ETF	Broad-based	January 8, 2020	\$458M	3.43%	10.58%	22.42%	38.62%			57	34.34%
DTEC	ALPS Disruptive Technologies ETF	Broad-based	December 29, 2017	\$244M	3.64%	6.48%	9.66%	35.13%	20.15%		34	22.17%
KLDW	Knowledge Leaders Developed World ETF	Broad-based	July 8, 2015	\$205M	3.54%	6.08%	16.12%	30.00%	13.50%	14.06%	21	7.47%
MOON	Direxion Moonshot Innovators ETF	Broad-based	November 12, 2020	\$150M	10.45%	-8.60%	7.92%				9	3.30%
ENTR	ERShares Entrepreneurs ETF	Broad-based	November 8, 2017	\$139M	3.34%	5.58%	0.81%	19.11%	16.64%		27	27.08%
META	Roundhill Ball Metaverse ETF	Broad-based	June 30, 2021	\$100M	4.33%						27	25.31%
LOUP	Innovator Loup Frontier Tech ETF	Broad-based	July 25, 2018	\$80M	6.90%	-1.16%	6.40%	56.38%	26.58%		11	7.18%
ANEW	ProShares MSCI Transformational Changes ETF	Broad-based	October 14, 2020	\$54M	1.49%	3.93%	10.60%				51	20.84%
GIGE	SoFi Gig Economy ETF	Broad-based	May 8, 2019	\$35M	7.89%	-1.43%	0.15%	37.49%			26	18.47%
BFTR	Future Innovators ETF	Broad-based	September 29, 2020	\$24M	12.67%	9.75%	15.37%				2	0.64%
PLAT	WisdomTree Growth Leaders Fund	Broad-based	May 22, 2019	\$17M	3.88%	2.83%	10.51%	36.01%			14	12.95%

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ETF All-Stars Disruptive Tech Index

DTASX As of 9/17/2021



Disruptive Tech ETF Universe

Fund Count	28
Assets Under Management	\$29.68B
Unique Universe Companies	628
All-Star Portfolio Holdings	56

Index Description:

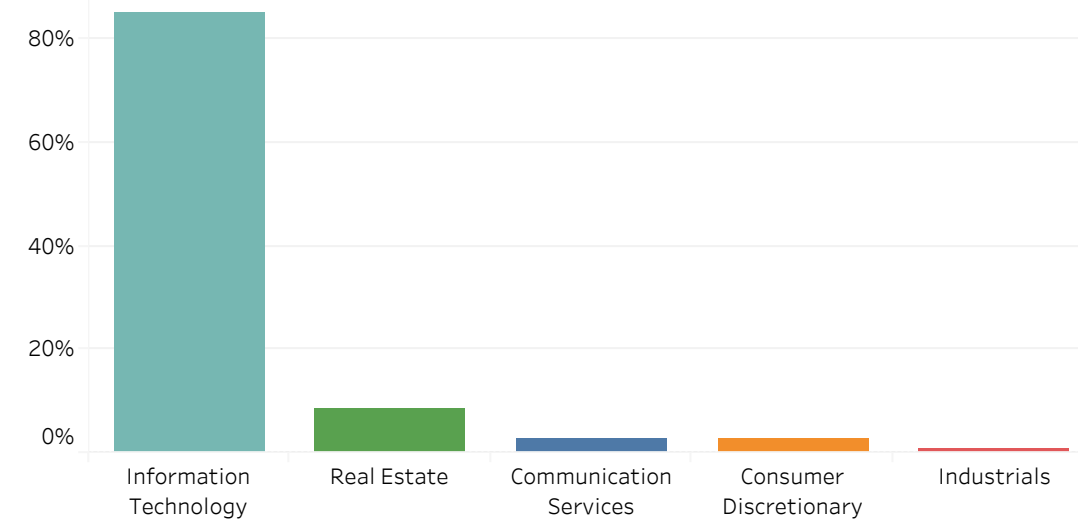
The index is designed to track 75% of the Ownership Adjusted market Value (OAMV) of all companies held by ETFs classified within the Disruptive Tech segment according to the ETF Action Classification System. Qualifying companies are weighted based on their OAMV and subject to a 5% single company cap.

Disruptive Tech Total Return*

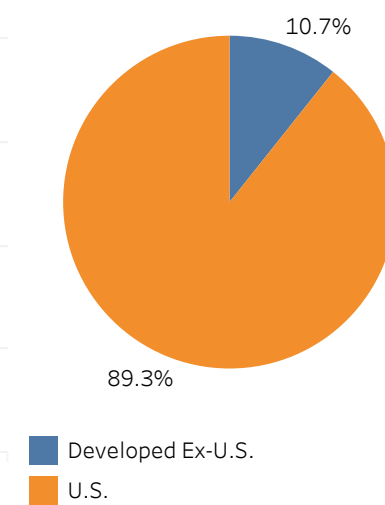


Index Composition

Disruptive Tech Sectors



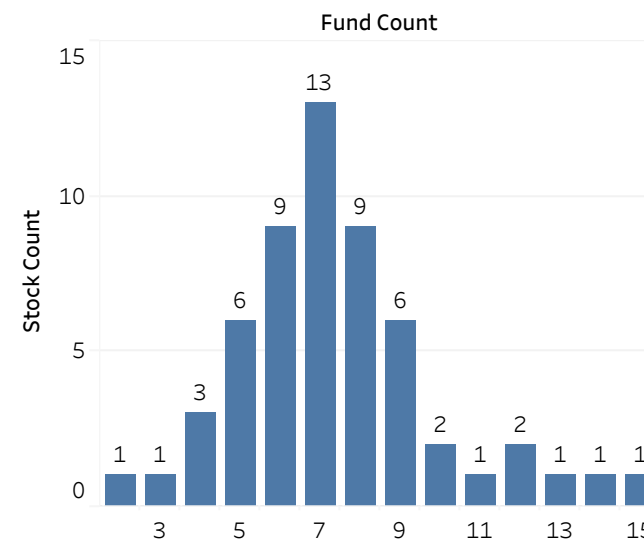
Market Development



Market Cap

Market Cap	Percentage
Large Cap	79.48%
Mid Cap	20.52%

ETF Universe Ownership of Portfolio Companies



Top 10 Holdings

Company	Sector	Weighting
Zscaler, Inc.	Information Technology	5.15%
Okta, Inc. Class A	Information Technology	5.03%
CrowdStrike Holdings, Inc. C..	Information Technology	4.77%
Cloudflare Inc Class A	Information Technology	4.37%
Twilio, Inc. Class A	Information Technology	3.93%
Splunk Inc.	Information Technology	3.61%
Cisco Systems, Inc.	Information Technology	3.56%
Palo Alto Networks, Inc.	Information Technology	3.12%
Fortinet, Inc.	Information Technology	2.92%
Akamai Technologies, Inc.	Information Technology	2.88%
Top 10 Weighting		39.35%

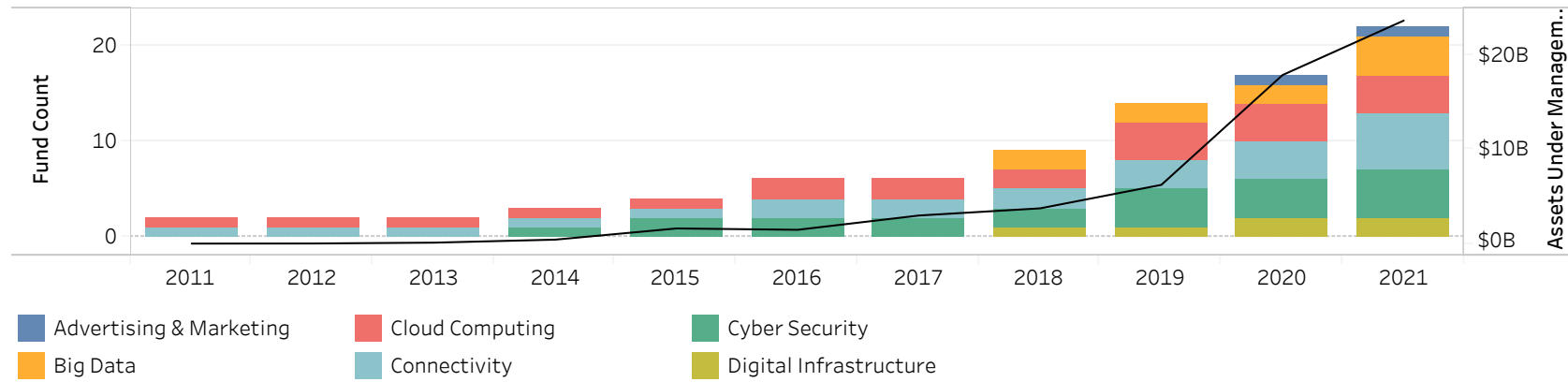
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Disruptive Tech Landscape, Performance & Overlap

DTASX As of 9/17/2021



Disruptive Tech Growth



Disruptive Tech Landscape AUM & Flows

Group	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Advertising & Marketing	1	\$3M	\$0M	\$0M	\$0M	\$2M
Big Data	4	\$289M	\$0M	(\$37M)	\$5M	\$120M
Broad-based	7	\$6,808M	(\$74M)	(\$320M)	(\$1,493M)	\$2,426M
Cloud Computing	4	\$9,060M	\$21M	(\$212M)	(\$561M)	(\$242M)
Connectivity	5	\$2,846M	(\$7M)	(\$72M)	\$136M	\$1,012M
Cyber Security	5	\$7,489M	\$298M	\$993M	\$1,051M	\$3,215M
Digital Infrastructure	2	\$1,243M	\$15M	\$386M	\$444M	\$581M
Grand Total	28	\$27,738M	\$252M	\$737M	(\$420M)	\$7,114M

Disruptive Tech Standardized Performance

	1 Month	3 Month	6 Month	YTD	1 Year	3 Year Annualized	5 Year Annualized	Inception*
Disruptive Tech	5.44%	9.03%	19.16%	16.34%	47.34%	26.33%		28.96%

Top 15 Disruptive Tech ETFs by AUM

ETF	Description	Category	Launch Date	AUM	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	All-Stars Overlap (#)	All-Stars Overlap (%)
SKYY	First Trust Cloud Computing ETF	Cloud Computing	July 5, 2011	\$7,214M	5.83%	5.89%	16.24%	44.17%	26.25%	27.53%	30	33.75%
ARKW	ARK Next Generation Internet ETF	Broad-based	September 29, 2014	\$5,570M	4.62%	4.94%	2.83%	47.95%	44.73%	48.23%	10	15.68%
CIBR	First Trust NASDAQ Cybersecurity ETF	Cyber Security	July 7, 2015	\$5,282M	5.55%	8.67%	14.55%	48.61%	22.53%	22.39%	24	56.99%
HACK	ETFMG Prime Cyber Security ETF	Cyber Security	November 11, 2014	\$2,436M	6.03%	5.36%	12.44%	40.53%	18.61%	19.88%	23	42.27%
SRVR	Pacer Benchmark Data & Infrastructure Real Estate SCTR ETF	Digital Infrastructure	May 15, 2018	\$1,618M	1.46%	2.37%	17.26%	18.09%	17.84%		6	8.50%
CLOU	Global X Cloud Computing ETF	Cloud Computing	April 12, 2019	\$1,370M	5.85%	9.44%	9.68%	36.67%			20	33.93%
WCLD	WisdomTree Cloud Computing Fund	Cloud Computing	September 6, 2019	\$1,360M	8.20%	12.47%	14.46%	53.48%			22	28.10%
FIVG	Defiance Next Gen Connectivity ETF	Connectivity	March 4, 2019	\$1,291M	-0.16%	0.50%	12.36%	32.88%			16	17.15%
NXTG	First Trust Indxx NextG ETF	Connectivity	February 17, 2011	\$1,115M	2.65%	3.83%	14.49%	33.45%	18.48%	16.05%	15	14.77%
BUG	Global X Cybersecurity ETF	Cyber Security	October 25, 2019	\$875M	8.45%	9.53%	13.17%	51.52%			15	37.92%
IHAK	iShares Cybersecurity & Tech ETF	Cyber Security	June 11, 2019	\$670M	5.16%	4.09%	11.55%	40.32%			21	45.51%
SNSR	Global X Internet of Things ETF	Connectivity	September 12, 2016	\$493M	3.89%	7.26%	18.73%	42.88%	24.37%	20.95%	3	3.83%
XITK	SPDR FactSet Innovative Technology ETF	Broad-based	January 13, 2016	\$344M	8.22%	2.77%	5.43%	40.92%	30.77%	31.11%	26	28.68%
AIQ	Global X Artificial Intelligence & Technology ETF	Big Data	May 11, 2018	\$184M	3.84%	5.36%	15.35%	37.59%	26.90%		19	19.77%
QTUM	Defiance Quantum ETF	Big Data	September 5, 2018	\$134M	6.61%	5.83%	25.67%	57.62%	29.14%		8	8.41%

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ETF All-Stars Evolving Consumer Index

ECASX As of 9/17/2021



Evolving Consumer ETF Universe

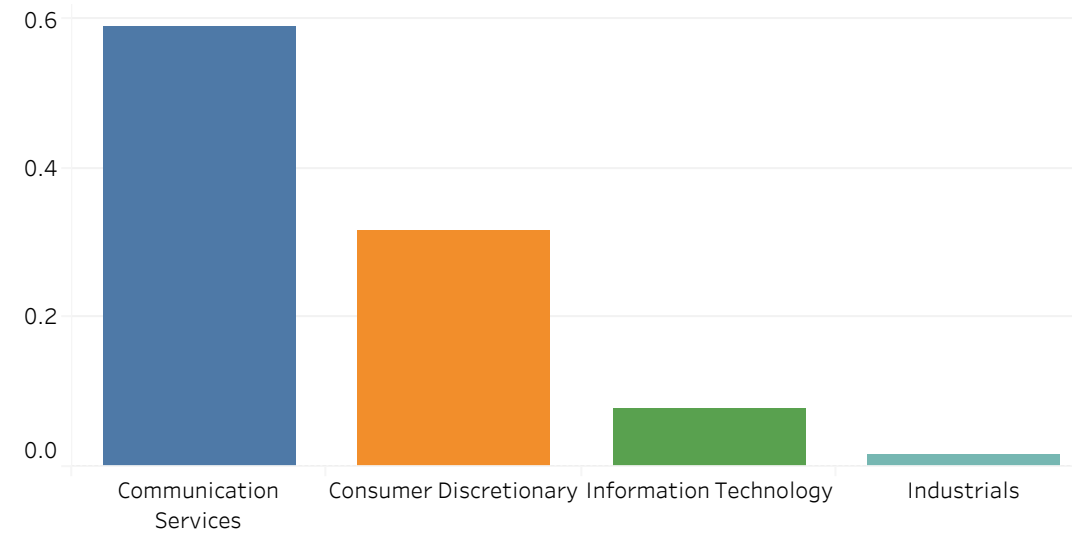
Fund Count	23
Assets Under Management	\$5.63B
Unique Universe Companies	967
All-Star Portfolio Holdings	51

Index Description:

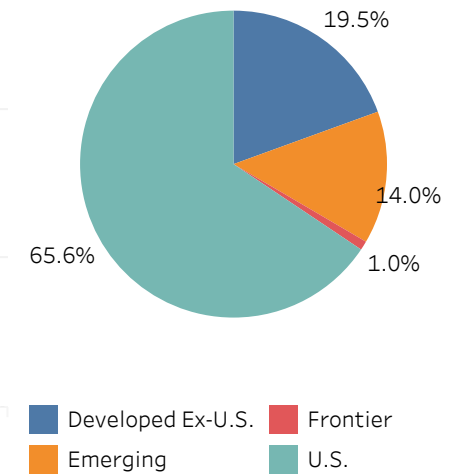
The index is designed to track 75% of the Ownership Adjusted market Value (OAMV) of all companies held by ETFs classified within the Evolving Consumer segment according to the ETF Action Classification System. Qualifying companies are weighted based on their OAMV and subject to a 5% single company cap.

Index Composition

Evolving Consumer Sectors



Market Development



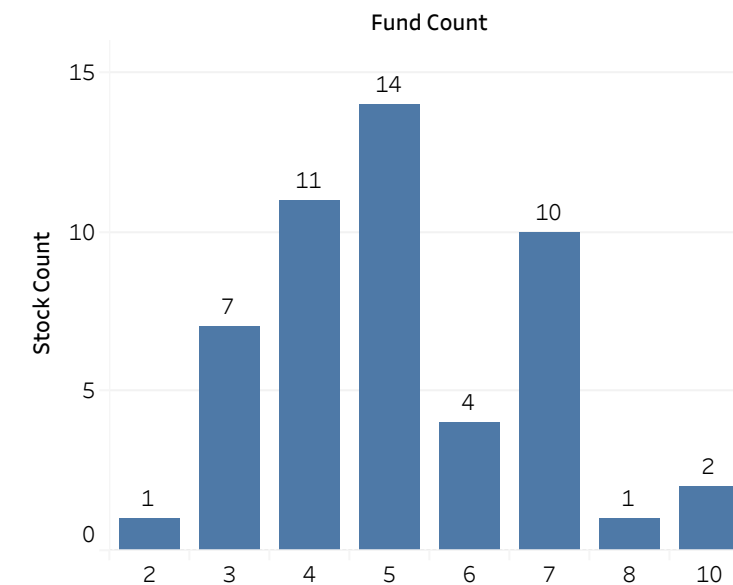
Market Cap

Market Cap	Percentage
Large Cap	88.89%
Mid Cap	10.35%
Small Cap	0.76%

Evolving Consumer Total Return*



ETF Universe Ownership of Portfolio Companies



Top 10 Holdings

Company	Sector	Percentage
Sea Ltd. (Singapore) Sponso..	Communication Services	5.35%
Amazon.com, Inc.	Consumer Discretionary	5.22%
NVIDIA Corporation	Information Technology	4.89%
Activision Blizzard, Inc.	Communication Services	4.87%
NetEase, Inc. Sponsored ADR	Communication Services	4.54%
Facebook, Inc. Class A	Communication Services	3.93%
Bilibili, Inc. Sponsored ADR ..	Communication Services	3.91%
Tencent Holdings Ltd. Unspo..	Communication Services	3.90%
Electronic Arts Inc.	Communication Services	3.67%
Nintendo Co., Ltd.	Communication Services	3.20%
Grand Total		43.47%

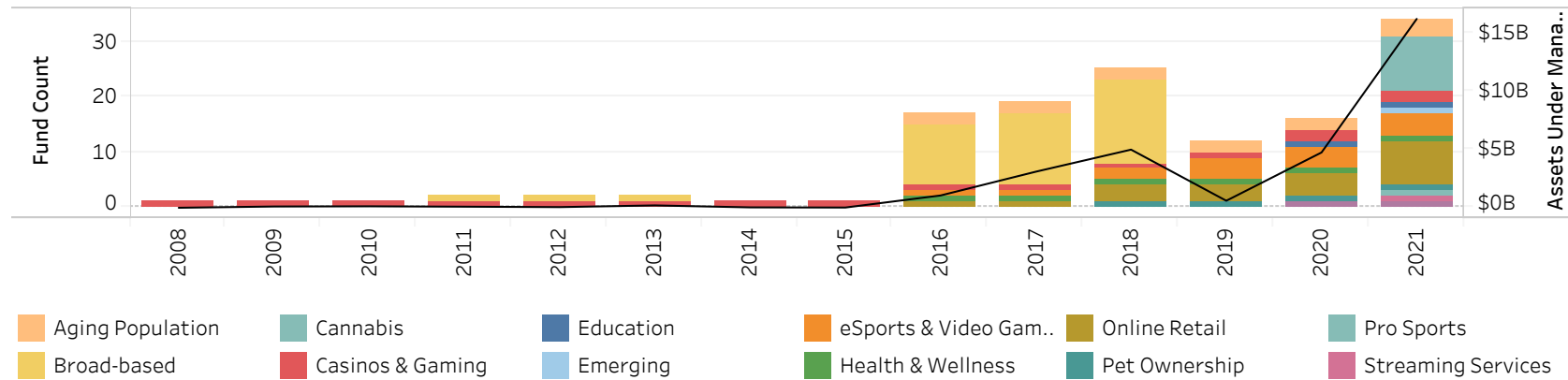
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Evolving Consumer Landscape, Performance & Overlap

ECASX As of 9/17/2021



Evolving Consumer Growth



Evolving Consumer Landscape AUM & Flows

Group	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Aging Population	2	\$52M	\$0M	\$7M	\$29M	\$29M
Broad-based	5	\$841M	(\$8M)	(\$9M)	\$152M	\$271M
Casinos & Gaming	2	\$573M	(\$7M)	(\$54M)	(\$113M)	\$245M
Education	1	\$13M	\$0M	(\$3M)	(\$3M)	\$8M
eSports & Video Games	4	\$1,677M	(\$13M)	(\$224M)	(\$263M)	\$318M
Health & Wellness	1	\$38M	\$0M	\$5M	\$11M	\$17M
Online Retail	4	\$2,698M	(\$7M)	(\$257M)	(\$721M)	\$512M
Pet Ownership	1	\$325M	\$16M	\$35M	\$58M	\$178M
Pro Sports	1	\$10M	\$0M	(\$1M)	\$4M	\$9M
Streaming Services	1	\$36M	\$0M	(\$4M)	(\$10M)	\$42M
Travel Tech	1	\$382M	\$0M	(\$93M)	(\$4M)	\$288M
Grand Total	23	\$6,646M	(\$19M)	(\$597M)	(\$859M)	\$1,917M

Evolving Consumer Standardized Performance

	1 Month	3 Month	6 Month	YTD	1 Year	3 Year Annualized	5 Year Annualized	Inception*
Evolving Consumer	3.16%	-3.96%	-4.46%	6.11%	29.48%	26.93%		29.31%

Top 15 Evolving Consumer ETFs by AUM

ETF	Description	Category	Launch Date	AUM	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	All-Stars Overlap (#)	All-Stars Overlap (%)
IBUY	Amplify Online Retail ETF	Online Retail	April 20, 2016	\$994M	2.28%	-7.87%	0.52%	35.39%	30.15%	33.52%	26	32.18%
ONLN	ProShares Online Retail ETF	Online Retail	July 13, 2018	\$887M	2.12%	-11.87%	-7.80%	16.73%	23.10%		15	27.85%
ESPO	VanEck Video Gaming and eSports ETF	eSports & Video Games	October 16, 2018	\$668M	2.88%	-5.99%	-3.99%	11.80%			18	45.91%
HERO	Global X Video Games & Esports ETF	eSports & Video Games	October 25, 2019	\$547M	2.55%	-8.31%	-5.21%	9.45%			16	44.80%
SOCL	Global X Social Media ETF	Broad-based	November 14, 2011	\$434M	3.78%	-8.18%	2.72%	32.71%	26.53%	21.55%	10	21.36%
BETZ	Roundhill Sports Betting & iGaming ETF	Casinos & Gaming	June 4, 2020	\$398M	11.61%	3.03%	22.41%	51.75%			1	0.74%
MILN	Global X Millennial Consumer ETF	Broad-based	May 4, 2016	\$235M	2.38%	6.18%	18.55%	46.06%	24.24%	23.66%	22	31.65%
EBIZ	Global X E-Commerce ETF	Online Retail	November 27, 2018	\$206M	4.41%	-6.31%	-0.41%	19.67%			16	25.92%
BJK	VanEck Gaming ETF	Casinos & Gaming	January 22, 2008	\$122M	4.38%	-6.75%	5.94%	24.55%	9.95%	9.32%	1	0.74%
GAMR	Wedbush ETFMG Video Game Tech ETF	eSports & Video Games	March 8, 2016	\$107M	4.03%	-8.42%	11.22%	30.35%	24.61%	23.61%	19	23.34%
GENY	Principal Millennials Index ETF	Broad-based	August 19, 2016	\$98M	3.01%	-2.73%	8.77%	32.33%	18.95%	21.30%	23	18.94%
NERD	Roundhill BITKRAFT Esports & Digital Entertainment ETF	eSports & Video Games	June 4, 2019	\$77M	1.13%	-14.86%	-10.68%	7.84%			14	35.36%
BFIT	Global X Health & Wellness ETF	Health & Wellness	May 9, 2016	\$42M	2.47%	3.17%	18.46%	38.04%	16.22%	15.27%	1	1.01%
BUYZ	Franklin Disruptive Commerce ETF	Online Retail	February 25, 2020	\$40M	5.93%	2.67%	3.47%	33.72%			21	29.24%
SUBZ	Roundhill Streaming Services & Technology ETF	Streaming Services	February 10, 2021	\$27M	4.07%	-11.66%					5	7.47%

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ETF All-Stars FinTech Index

FXASX As of 9/17/2021



FinTech ETF Universe

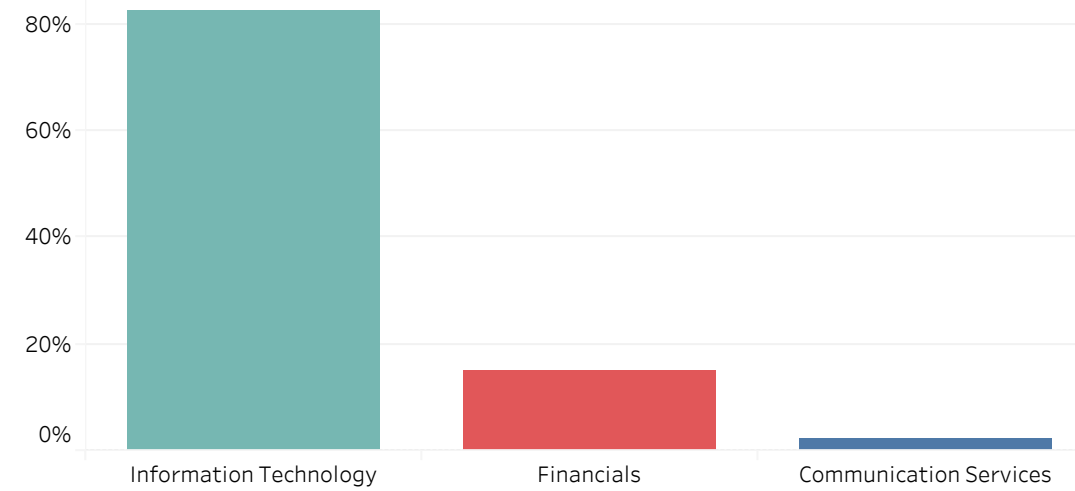
Fund Count	12
Assets Under Management	\$8.24B
Unique Universe Companies	279
All-Star Portfolio Holdings	28

Index Description:

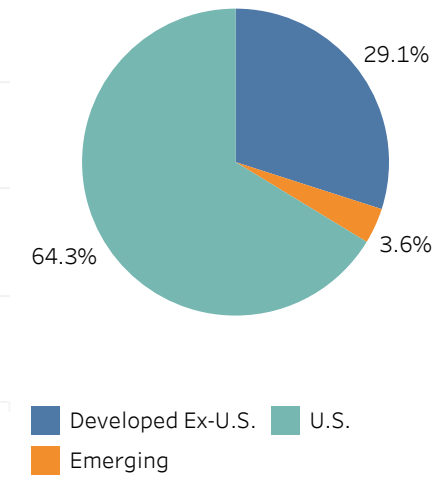
The index is designed to track 75% of the Ownership Adjusted market Value (OAMV) of all companies held by ETFs classified within the FinTech segment according to the ETF Action Classification System. Qualifying companies are weighted based on their OAMV and subject to a 5% single company cap.

Index Composition

FinTech Sectors



Market Development



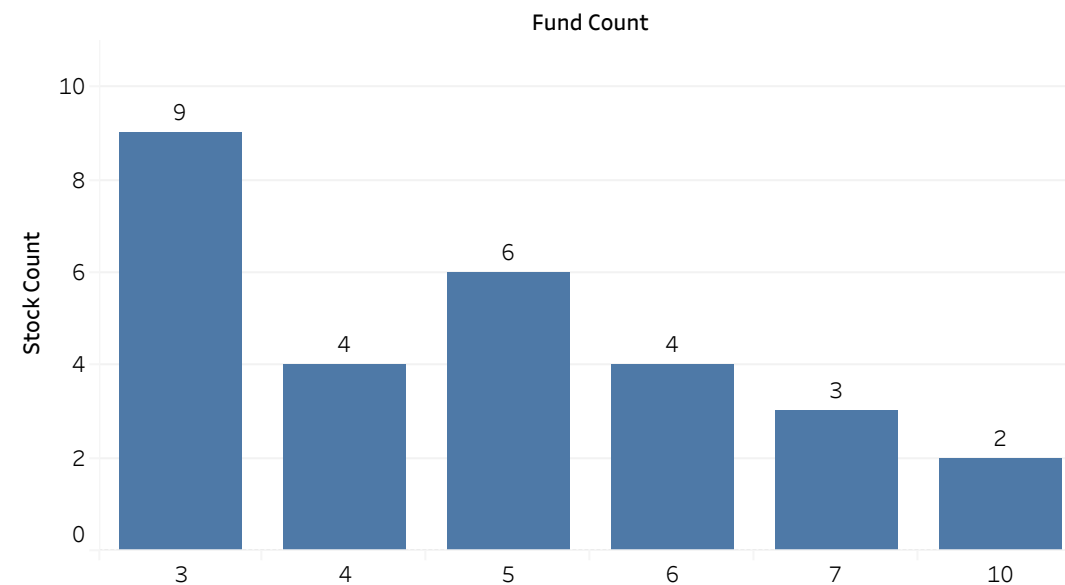
Market Cap

Market Cap	Percentage
Large Cap	62.99%
Mid Cap	21.04%
Small Cap	15.97%

FinTech Total Return*



ETF Universe Ownership of Portfolio Companies



Top 10 Holdings

Company	Sector	Percentage
Adyen NV	Information Technology	5.18%
PayPal Holdings Inc	Information Technology	5.17%
Hut 8 Mining Corp.	Information Technology	5.11%
Square, Inc. Class A	Information Technology	4.97%
Coinbase Global, Inc. Class A	Financials	4.93%
Silvergate Capital Corp. Clas..	Financials	4.74%
Marathon Digital Holdings Inc	Information Technology	4.65%
Visa Inc. Class A	Information Technology	4.49%
Fiserv, Inc.	Information Technology	4.49%
Mastercard Incorporated Cl..	Information Technology	4.46%
Grand Total		48.21%

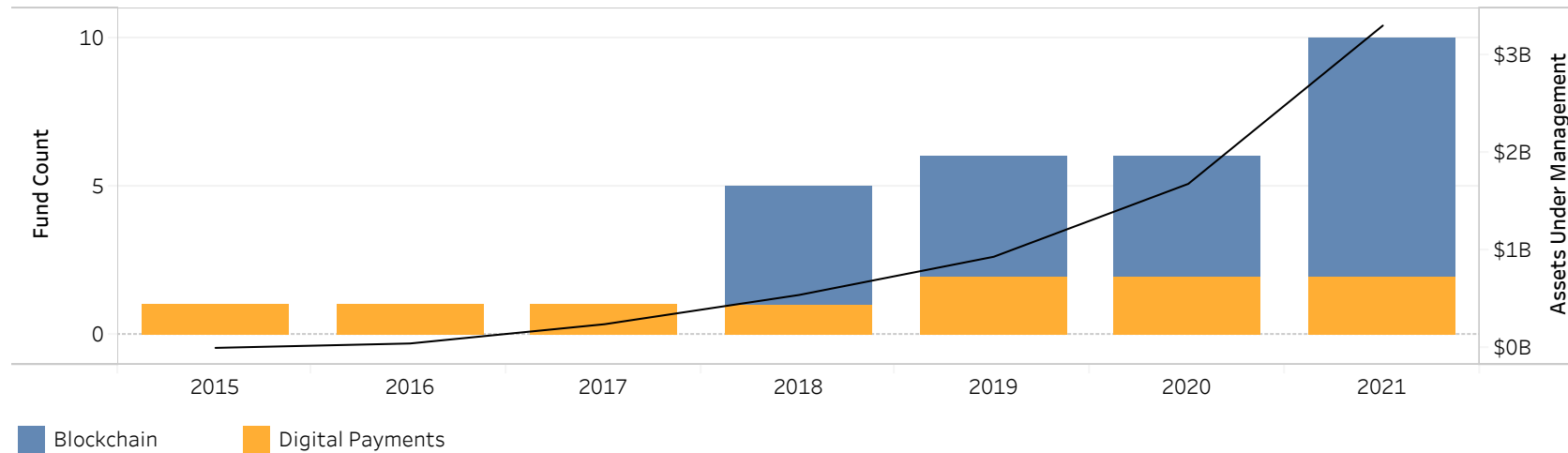
Index First Value Date is Dec 31 2016. The index Launch Date is Jun 11 2021. All information for an index prior to its Launch Date is hypothetical back-tested, not actual performance, based on the index methodology in effect on the Launch Date.

FinTech Landscape, Performance & Overlap

FXASX As of 9/17/2021



FinTech Growth



FinTech Landscape AUM & Flows

Group	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Blockchain	8	\$1,714M	\$29M	\$192M	\$441M	\$1,343M
Broad-based	2	\$5,263M	(\$39M)	(\$299M)	(\$494M)	\$3,283M
Digital Payments	2	\$1,277M	\$109M	\$29M	\$40M	\$314M
Grand Total	12	\$8,254M	\$99M	(\$79M)	(\$14M)	\$4,940M

FinTech Standardized Performance

	1 Month	3 Month	6 Month	YTD	1 Year	3 Year Annualized	5 Year Annualized	Inception*
FinTech	4.46%	5.30%	1.12%	7.82%	27.13%	19.04%		26.15%

Top FinTech ETFs by AUM

ETF	Description	Category	Launch Date	AUM	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	All-Stars Overlap (#)	All-Stars Overlap (%)
ARKF	ARK Fintech Innovation ETF	Broad-based	February 4, 2019	\$3,560M	4.49%	1.54%	6.28%	40.14%			8	26.35%
FINX	Global X FinTech ETF	Broad-based	September 12, 2016	\$1,369M	6.10%	8.27%	9.08%	38.60%	21.46%	27.65%	17	45.82%
BLOK	Amplify Transformational Data Sharing ETF	Blockchain	January 16, 2018	\$1,257M	6.17%	3.21%	38.62%	102.47%	36.98%		16	53.88%
IPAY	ETFMG Prime Mobile Payments ETF	Digital Payments	July 15, 2015	\$1,250M	2.09%	0.83%	6.24%	30.63%	18.91%	23.53%	13	45.82%
BLCN	Siren ETF Trust Siren Nasdaq NexGen Economy ETF	Blockchain	January 17, 2018	\$286M	1.94%	-2.19%	15.02%	38.10%	27.30%		13	22.12%
LEGR	First Trust Indxx Innovative Transaction & Process ETF	Blockchain	January 24, 2018	\$130M	0.96%	1.76%	15.53%	37.06%	14.29%		4	4.89%
BITQ	Bitwise Crypto Industry Innovators ETF	Blockchain	May 11, 2021	\$74M	4.09%	2.64%					15	46.84%
DAPP	VanEck Digital Transformation ETF	Blockchain	April 9, 2021	\$53M	5.46%	2.04%					13	46.91%
BKCH	Global X Blockchain ETF	Blockchain	July 12, 2021	\$45M	5.66%						12	36.59%
KOIN	Capital Link NextGen Protocol ETF	Blockchain	January 30, 2018	\$30M	0.50%	1.04%	14.47%	28.39%	18.85%		6	19.63%
TPAY	Ecofin Digital Payments Infrastructure Fund	Digital Payments	January 31, 2019	\$14M	-0.08%	-0.59%	3.06%	26.97%			13	45.62%
RIGZ	Viridi Cleaner Energy Crypto-Mining & Semiconductor ETF	Blockchain	July 20, 2021	\$11M	10.98%						8	28.85%

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ETF All-Stars Health Innovation Index

HIASX As of 9/17/2021



Health Innovation ETF Universe

Fund Count	14
Assets Under Management	\$10.18B
Unique Universe Companies	686
All-Star Portfolio Holdings	50

Index Description:

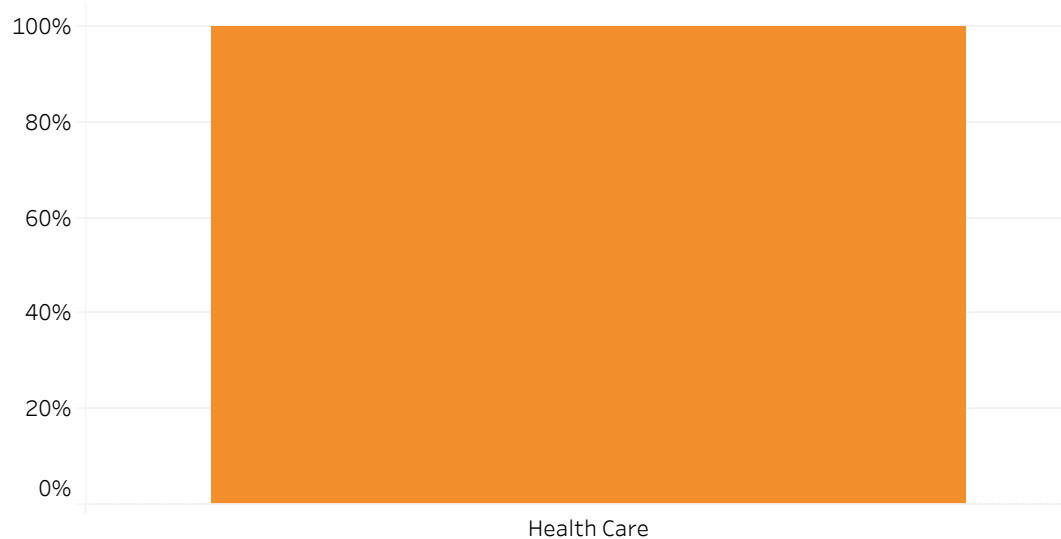
The index is designed to track 75% of the Ownership Adjusted market Value (OAMV) of all companies held by ETFs classified within the Health Innovation segment according to the ETF Action Classification System. Qualifying companies are weighted based on their OAMV and subject to a 5% single company cap.

Health Innovation Total Return*

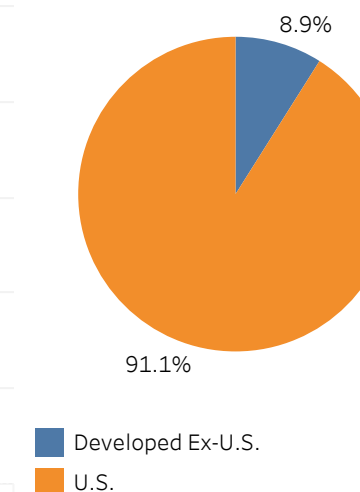


Index Composition

Health Innovation Sectors



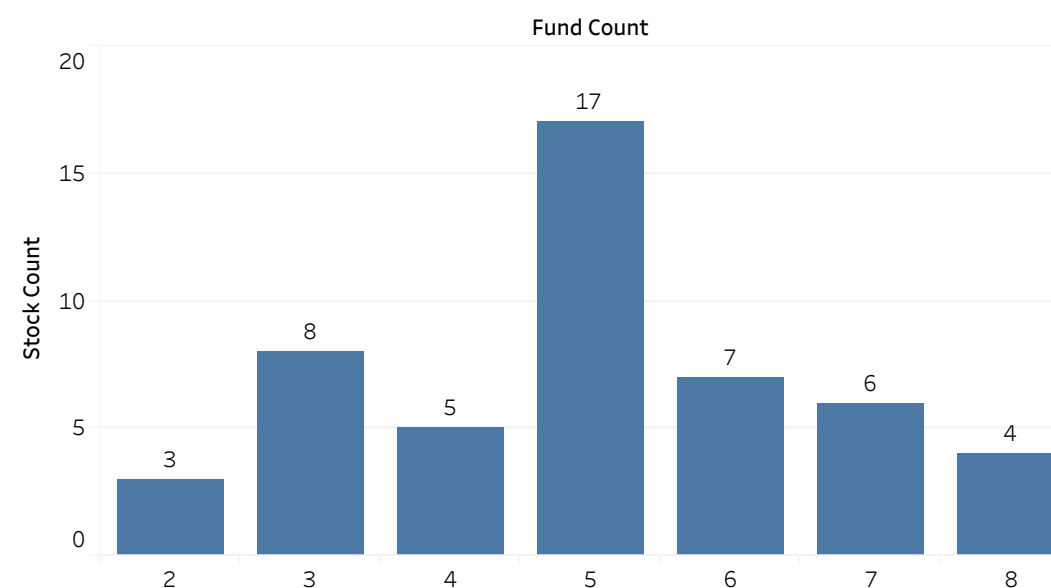
Market Development



Market Cap

Large Cap	47.34%
Mid Cap	48.21%
Small Cap	4.45%

ETF Universe Ownership of Portfolio Companies



Top 10 Holdings

Company	Sector	Weighting (%)
Invitae Corp.	Health Care	5.42%
CRISPR Therapeutics AG	Health Care	4.98%
Teladoc Health, Inc.	Health Care	4.97%
Fate Therapeutics, Inc.	Health Care	4.89%
Intellia Therapeutics, Inc.	Health Care	4.88%
Regeneron Pharmaceuticals, Inc.	Health Care	4.88%
Exact Sciences Corporation	Health Care	4.18%
Editas Medicine, Inc.	Health Care	3.44%
Pacific Biosciences of California, Inc.	Health Care	3.38%
Agilent Technologies, Inc.	Health Care	2.96%
Top 10 Weighting		43.98%

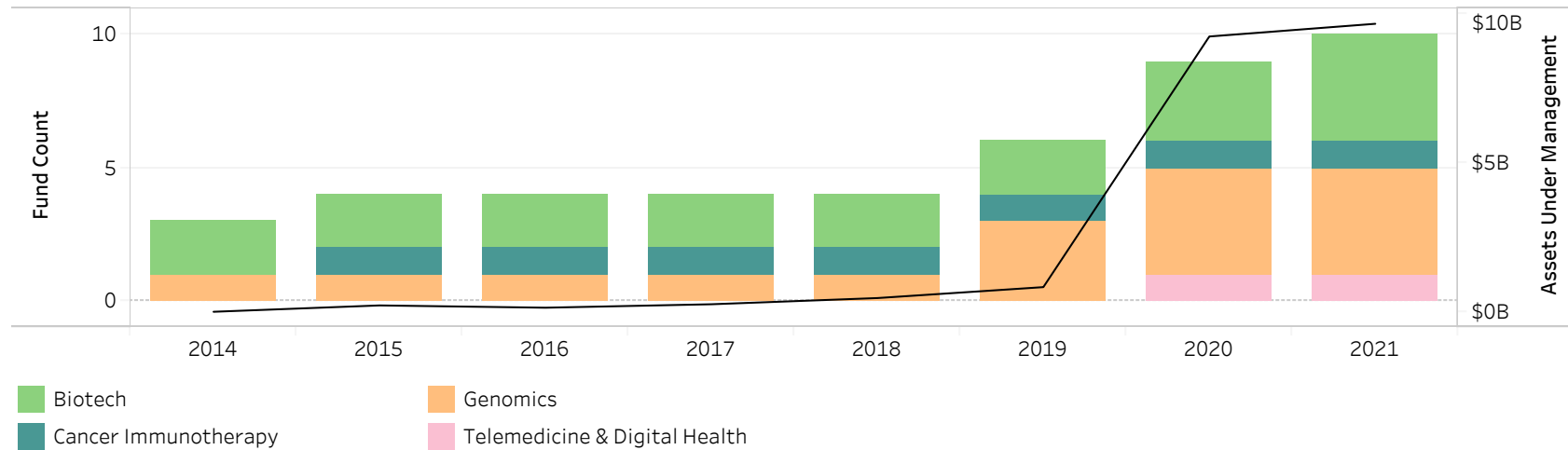
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Health Innovation Landscape, Performance & Overlap

HIASX As of 9/17/2021



Health Care Innovation Growth



Health Innovation Landscape AUM & Flows

Group	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Aging Population	1	\$60M	\$0M	\$19M	\$20M	\$16M
Biotech	4	\$338M	\$9M	(\$6M)	(\$28M)	\$1M
Broad-based	3	\$424M	\$24M	\$2M	\$22M	\$224M
Cancer Immunotherapy	1	\$49M	\$0M	(\$3M)	(\$3M)	(\$3M)
Genomics	4	\$10,382M	(\$33M)	(\$205M)	(\$633M)	\$6,837M
Telemedicine & Digital Health	1	\$748M	\$0M	(\$111M)	(\$140M)	\$249M
Grand Total	14	\$12,002M	\$0M	(\$305M)	(\$762M)	\$7,325M

Health Innovation Standardized Performance

	1 Month	3 Month	6 Month	YTD	1 Year	3 Year Annualized	5 Year Annualized	Inception*
Health Care Innovation	5.39%	5.64%	0.68%	0.44%	36.24%	22.82%		24.47%

Top Health Innovation ETFs by AUM

ETF	Description	Category	Index First Value Date	AUM	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	All-Stars Overlap (#)	All-Stars Overlap (%)
ARKG	ARK Genomic Revolution ETF	Genomics	October 31, 2014	\$7,995M	4.68%	-3.71%	-10.00%	37.26%	38.98%	35.85%	29	54.23%
EDOC	Global X Telemedicine & Digital Health ETF	Telemedicine & Digital Heal..	July 29, 2020	\$619M	5.98%	0.58%	-1.66%	16.54%			13	23.79%
IDNA	iShares Genomics Immunology and Healthcare ETF	Genomics Imm..	June 11, 2019	\$370M	5.46%	14.14%	20.28%	38.93%			19	39.83%
GNOM	Global X Genomics & Biotechnology ETF	Genomics	April 5, 2019	\$288M	6.88%	6.18%	2.54%	36.83%			20	42.99%
HTEC	ROBO Global Healthcare Technology and Innovation ETF	Broad-based	June 25, 2019	\$244M	5.13%	5.38%	12.51%	43.62%			23	26.94%
BTEC	Principal Healthcare Innovators Index ETF	Broad-based	August 19, 2016	\$147M	7.90%	-3.58%	-2.37%	22.86%	16.49%	17.12%	34	28.98%
GERM	ETFMG Treatments Testing and Advancements ETF	Biotech	June 17, 2020	\$68M	2.31%	16.67%	42.33%	63.92%			11	11.97%
AGNG	Global X Aging Population ETF	Aging Population	May 9, 2016	\$64M	-1.66%	-0.71%	8.25%	17.19%	11.96%	13.82%	8	9.87%
CNCR	Loncar Cancer Immunotherapy ETF	Cancer Immunotherapy	October 13, 2015	\$43M	9.77%	-0.69%	-2.64%	8.85%	9.24%	4.27%	9	16.20%
BBC	Virtus LifeSci Biotech Clinical Trials ETF	Biotech	December 16, 2014	\$38M	9.52%	-4.01%	-2.08%	15.65%	13.66%	17.66%	9	5.62%
HELX	Franklin Genomic Advancements ETF	Genomics	February 25, 2020	\$37M	6.07%	23.22%	29.24%	68.56%			20	29.32%
BMED	Future Health ETF	Broad-based	September 29, 2020	\$7M	2.98%	1.55%	1.16%				19	11.93%
WDNA	WisdomTree BioRevolution Fund	Biotech	June 3, 2021	\$3M	2.58%	3.59%					33	29.26%

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ETF All-Stars Industrial Revolution Index

IRASX As of 9/17/2021



Industrial Revolution ETF Universe

Fund Count	22
Assets Under Management	\$17.81B
Unique Universe Companies	682
All-Star Portfolio Holdings	55

Index Description:

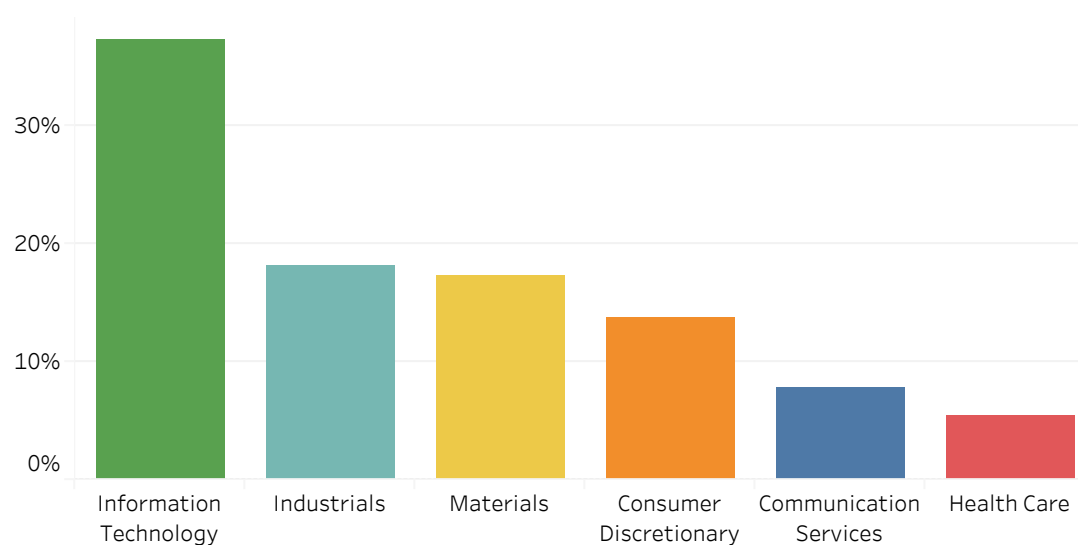
The index is designed to track 75% of the Ownership Adjusted market Value (OAMV) of all companies held by ETFs classified within the Industrial Revolution segment according to the ETF Action Classification System. Qualifying companies are weighted based on their OAMV and subject to a 5% single company cap.

Industrial Revolution Total Return*

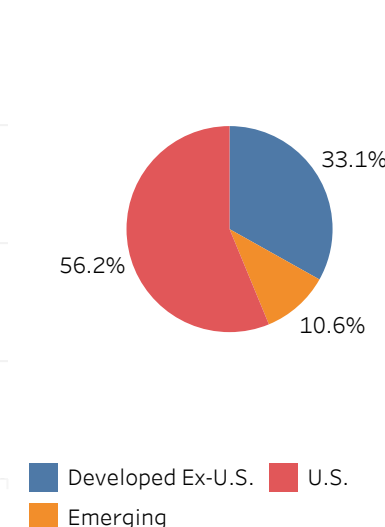


Index Composition

Industrial Revolution Sectors



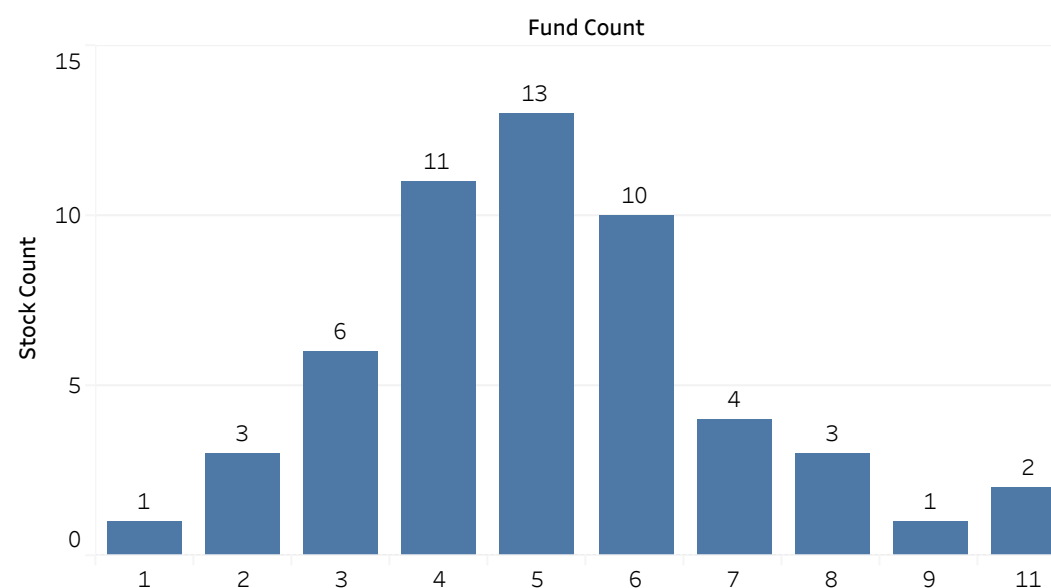
Market Development



Market Cap

Market Cap	Percentage
Large Cap	75.66%
Mid Cap	23.36%
Small Cap	0.99%

ETF Universe Ownership of Portfolio Companies



Top 10 Holdings

Company Name	Sector	Percentage
Tesla Inc	Consumer Discretionary	5.32%
NVIDIA Corporation	Information Technology	4.82%
Albemarle Corporation	Materials	4.78%
Trimble Inc.	Information Technology	4.72%
Intuitive Surgical, Inc.	Health Care	4.41%
Ganfeng Lithium Co., Ltd. Cl..	Materials	4.05%
Alphabet Inc. Class C	Communication Services	3.97%
Iridium Communications Inc.	Communication Services	2.89%
ABB Ltd.	Industrials	2.86%
Keyence Corporation	Information Technology	2.79%
Grand Total		40.61%

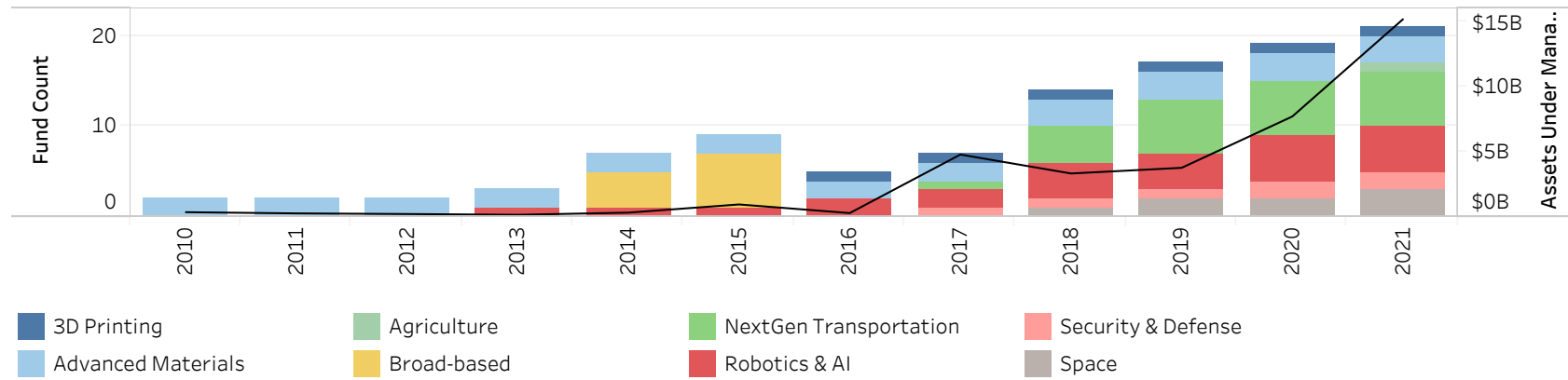
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Industrial Revolution Landscape, Performance & Overlap

IRASX As of 9/17/2021



Industrial Revolution Growth



Industrial Revolution Landscape AUM & Flows

Group	Funds	AUM	1 Week	3 Month	6 Month	1 Year
3D Printing	1	\$555M	\$0M	(\$28M)	(\$37M)	\$491M
Advanced Materials	3	\$4,564M	\$24M	\$657M	\$958M	\$3,112M
Agriculture	1		\$0M	\$4M	\$4M	\$4M
Broad-based	1	\$3,068M	(\$21M)	(\$258M)	(\$612M)	\$1,837M
NextGen Transportation	6	\$1,858M	(\$1M)	\$152M	\$349M	\$1,686M
Robotics & AI	5	\$5,083M	\$166M	\$115M	(\$46M)	\$826M
Security & Defense	2	\$31M	(\$2M)	(\$10M)	(\$2M)	(\$2M)
Space	3	\$782M	\$3M	(\$50M)	\$572M	\$676M
Grand Total	22	\$15,941M	\$170M	\$582M	\$1,187M	\$8,630M

Industrial Revolution Standardized Performance

	1 Month	3 Month	6 Month	YTD	1 Year	3 Year Annualized	5 Year Annualized	Inception*
Industrial Revolution	4.03%	11.84%	13.03%	25.71%	71.73%	29.14%		29.14%

Top 15 Industrial Revolution ETFs by AUM

ETF	Description	Category	Launch Date	AUM	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	All-Stars Overlap (#)	All-Stars Overlap (%)
LIT	Global X Lithium & Battery Tech ETF	Advanced Materials	July 22, 2010	\$4,982M	4.78%	23.06%	35.06%	106.44%	39.86%	30.46%	9	19.21%
BOTZ	Global X Robotics & Artificial Intelligence ETF	Robotics & AI	September 12, 2016	\$2,917M	12.42%	11.36%	17.90%	41.75%	20.98%	22.23%	13	25.67%
ARKQ	ARK Autonomous Technology & Robotics ETF	Broad-based	September 30, 2014	\$2,684M	5.29%	1.34%	8.36%	45.17%	33.51%	32.74%	21	35.43%
ROBO	ROBO Global Robotics & Automation Index ETF	Robotics & AI	October 22, 2013	\$1,936M	5.92%	7.69%	13.15%	43.23%	18.59%	20.88%	25	28.99%
DRIV	Global X Autonomous & Electric Vehicles ETF	NextGen Transportation	April 13, 2018	\$1,138M	0.79%	1.36%	17.42%	64.07%	26.25%		20	28.22%
REMX	VanEck Rare Earth/Strategic Metals ETF	Advanced Materials	October 27, 2010	\$1,053M	11.07%	43.48%	71.15%	176.52%	31.97%	22.74%	4	9.82%
ARKX	ARK Space Exploration & Innovation ETF	Space	March 30, 2021	\$579M	2.84%	-0.56%					14	24.00%
PRNT	3D Printing ETF	3D Printing	July 19, 2016	\$521M	3.89%	3.14%	23.04%	58.17%	13.98%	12.28%	10	13.61%
IRBO	iShares Robotics and Artificial Intelligence Multisector ETF	Robotics & AI	June 26, 2018	\$446M	4.89%	1.58%	11.72%	36.10%	21.98%		16	15.34%
IDRV	iShares Self-driving EV & Tech ETF	NextGen Transportation	April 16, 2019	\$435M	0.02%	0.63%	14.20%	47.02%			18	27.86%
ROBT	First Trust Nasdaq Artificial Intelligence & Robotics ETF	Robotics & AI	February 21, 2018	\$289M	6.24%	4.37%	12.41%	45.19%	20.65%		29	21.16%
KARS	KraneShares Electric Vehicles & Future Mobility Index ETF	NextGen Transportation	January 18, 2018	\$272M	3.68%	9.45%	18.23%	62.29%	31.49%		13	19.60%
BATT	Amplify Lithium & Battery Technology ETF	Advanced Materials	June 6, 2018	\$217M	1.57%	3.55%	10.63%	58.48%	7.49%		11	18.95%
HAIL	SPDR S&P Kensho Smart Mobility ETF	NextGen Transportation	December 26, 2017	\$184M	2.31%	-9.22%	2.51%	47.82%	23.96%		10	14.63%
UFO	Procore Space ETF	Space	April 11, 2019	\$122M	3.68%	0.60%	19.76%	39.42%			3	9.47%

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ETF All-Stars Sustainability Index

SUASX As of 9/17/2021



Sustainability ETF Universe

Fund Count 32

Assets Under Management \$22.36B

Unique Universe Companies 701

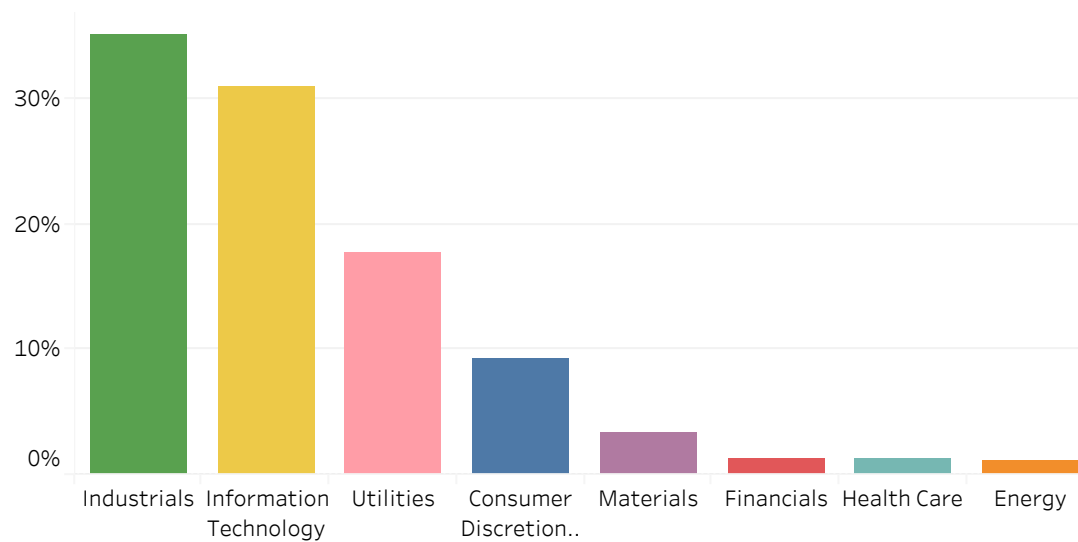
All-Star Portfolio Holdings 44

Index Description:

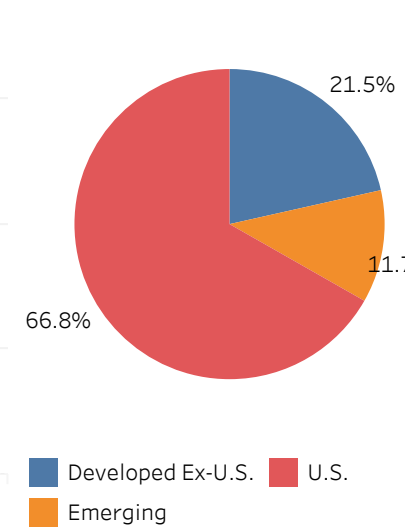
The index is designed to track 75% of the Ownership Adjusted market Value (OAMV) of all companies held by ETFs classified within the Sustainability segment according to the ETF Action Classification System. Qualifying companies are weighted based on their OAMV and subject to a 5% single company cap.

Index Composition

Sustainability Sectors



Market Development



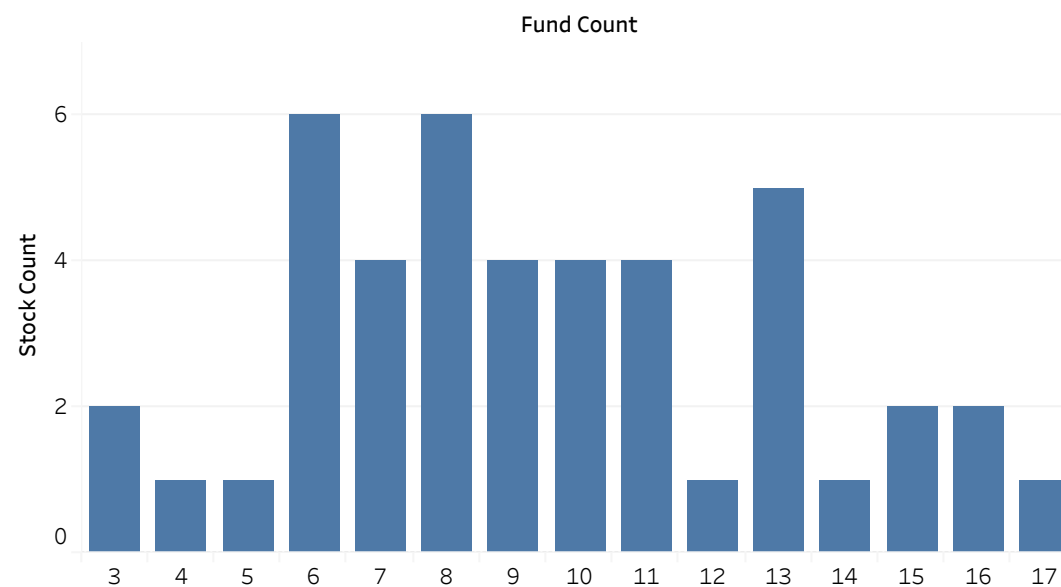
Market Cap

Market Cap	Percentage
Large Cap	58.44%
Mid Cap	40.18%
Small Cap	1.39%

Sustainability Total Return*



ETF Universe Ownership of Portfolio Companies



Top 10 Holdings

Company	Sector	Percentage
First Solar, Inc.	Information Technology	5.60%
Tesla Inc	Consumer Discretionary	5.42%
Sunrun Inc.	Industrials	5.14%
Plug Power Inc.	Industrials	5.06%
SolarEdge Technologies, Inc.	Information Technology	4.91%
Enphase Energy, Inc.	Information Technology	4.67%
Vestas Wind Systems A/S	Industrials	3.48%
Xinyi Solar Holdings Ltd.	Information Technology	3.33%
American Water Works Com..	Utilities	3.13%
Xylem Inc.	Industrials	3.03%
Grand Total		43.76%

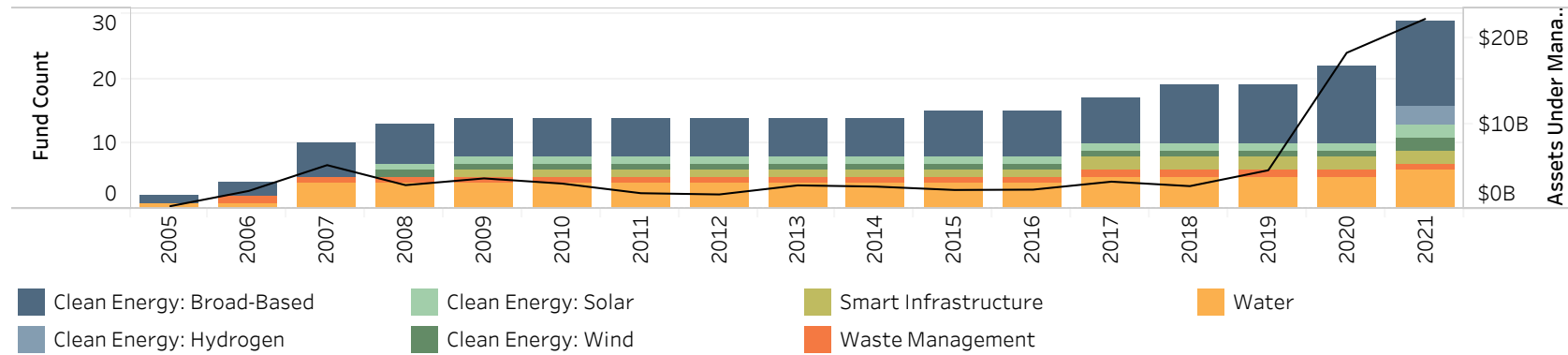
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Sustainability Landscape, Performance & Overlap

SUASX As of 9/17/2021



Sustainability Growth



Sustainability Landscape AUM & Flows

Group	Funds	AUM	1 Week	3 Month	6 Month	1 Year
Broad-based	3	\$7M	\$0M	\$1M	\$1M	\$6M
Clean Energy: Broad-Based	13	\$14,136M	(\$14M)	\$116M	\$734M	\$9,476M
Clean Energy: Hydrogen	3	\$74M	\$1M	\$24M	\$81M	\$99M
Clean Energy: Solar	2	\$3,601M	(\$13M)	(\$16M)	\$25M	\$1,300M
Clean Energy: Wind	2	\$398M	\$0M	\$3M	\$3M	\$155M
Smart Infrastructure	2	\$481M	\$6M	\$97M	\$266M	\$462M
Waste Management	1	\$62M	\$0M	\$4M	\$16M	\$22M
Water	6	\$4,039M	\$108M	\$580M	\$808M	\$1,178M
Grand Total	32	\$22,799M	\$87M	\$810M	\$1,935M	\$12,698M

Sustainability Standardized Performance

	1 Month	3 Month	6 Month	YTD	1 Year	3 Year Annualized	5 Year Annualized	Inception*
Sustainability	3.48%	0.52%	-7.10%	-9.56%	49.31%	45.90%		35.04%

Top 15 Sustainability ETFs by AUM

ETF	Description	Category	Launch Date	AUM	1 Month	3 Month	YTD	1 Year	3 Year	5 Year	All-Stars Overlap (#)	All-Stars Overlap (%)
ICLN	iShares Global Clean Energy ETF	Clean Energy: Broad-Based	June 24, 2008	\$6,025M	1.53%	-1.18%	-19.81%	35.51%	40.22%	22.42%	25	37.53%
TAN	Invesco Solar ETF	Clean Energy: Solar	April 15, 2008	\$3,138M	8.57%	2.55%	-17.07%	55.63%	60.94%	36.18%	14	41.00%
QCLN	First Trust Nasdaq Clean Edge Green Energy Index Fund	Clean Energy: Broad-Based	February 8, 2007	\$2,613M	4.43%	1.15%	-6.24%	60.21%	49.47%	36.20%	26	47.64%
PHO	Invesco Water Resources ETF	Water	December 6, 2005	\$2,110M	-1.80%	7.69%	22.28%	42.74%	21.28%	19.61%	11	21.26%
PBW	Invesco WilderHill Clean Energy ETF	Clean Energy: Broad-Based	March 3, 2005	\$1,823M	6.70%	-8.38%	-21.28%	44.52%	49.68%	36.71%	24	36.95%
FIW	First Trust Water ETF	Water	May 8, 2007	\$1,401M	-1.14%	6.69%	21.82%	45.80%	20.20%	20.19%	11	20.30%
CGW	Invesco S&P Global Water Index ETF	Water	May 14, 2007	\$1,193M	-0.51%	8.80%	24.49%	42.51%	20.26%	16.18%	7	13.83%
ACES	ALPS Clean Energy ETF	Clean Energy: Broad-Based	June 29, 2018	\$923M	3.64%	-3.77%	-12.58%	35.92%	40.85%		16	43.30%
GRID	First Trust Nasdaq Clean Edge Smart GRID Infrastructure Index	Smart Infrastructure	November 17, 2009	\$574M	-0.78%	7.34%	20.08%	57.00%	26.69%	21.80%	5	11.75%
PBD	Invesco Global Clean Energy ETF	Clean Energy: Broad-Based	June 13, 2007	\$411M	5.87%	-2.18%	-15.24%	40.97%	37.26%	23.69%	27	21.12%
ERTH	Invesco MSCI Sustainable Future ETF	Clean Energy: Broad-Based	October 24, 2006	\$410M	1.36%	-1.94%	0.19%	31.04%	20.28%	19.22%	20	32.76%
FAN	First Trust Global Wind Energy ETF	Clean Energy: Wind	June 16, 2008	\$398M	1.33%	-0.55%	-7.75%	23.01%	21.77%	13.43%	7	11.29%
CNRG	SPDR S&P Kensho Clean Power ETF	Clean Energy: Broad-Based	October 22, 2018	\$366M	4.56%	-3.86%	-9.69%	48.45%			18	40.59%
PIO	Invesco Global Water ETF	Water	June 13, 2007	\$330M	0.19%	7.79%	22.00%	33.77%	19.20%	15.80%	8	15.79%
SMOG	VanEck Low Carbon Energy ETF	Clean Energy: Broad-Based	May 3, 2007	\$293M	1.20%	0.11%	-6.01%	48.36%	38.53%	25.66%	24	32.26%

Index First Value Date is Dec 31 2016. The index Launch Date is Jun 11 2021. All information for an index prior to its Launch Date is hypothetical back-tested, not actual performance, based on the index methodology in effect on the Launch Date.



Definitions & Disclosures

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Index performance calculated by Indxx. Past performance is no guarantee of future performance. Investors cannot invest directly in an index, the performance of an index does not represent any actual transactions and its performance does not reflect the deduction of any fees or expenses associated with actual investing. To learn more about the All-Star indexes and their respective methodologies, please visit www.etfaction.com/etf-all-stars

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