

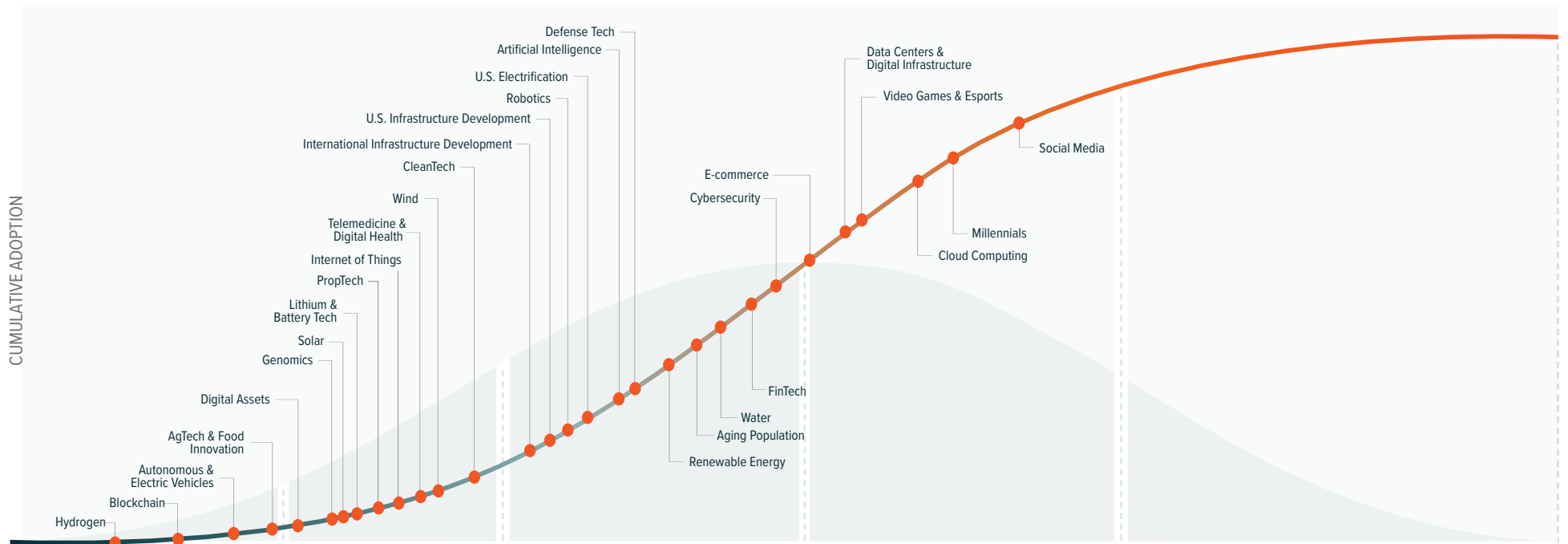
THEMATIC ADOPTION MENU

Macro-Themes for the Next Decade

Targeting companies that may be poised to benefit from structural shifts in technology, the consumer economy, and infrastructure & the physical environment, the Thematic Growth family offers a range of exposures to emerging economic trends.

As of December 2024

THEMATIC ADOPTION BY PHASE



Displayed for illustrative purposes. Curve shape not indicative of mathematical transformation.

PHASES OF ADOPTION

Phase	Percentage	Description
INNOVATORS	2.5%	Adoption starts slowly, as only a small group of Innovators take a chance on a new technology before it is proven or widely accepted.
EARLY ADOPTERS	13.5%	Early Adopters accelerate and evangelise via word-of-mouth. This is often the tipping point, as Early Adopters convince others that a particular technology is worthwhile.
EARLY MAJORITY	34%	Early Majority, we reach the part of the Adoption S-curve where the slope is the steepest, and hence the rate of adoption is at its fastest. In this phase, sales tends to explode.
LATE MAJORITY	34%	Adoption continues growing at a solid pace as the Late Majority are convinced to participate, and the technology appears seemingly everywhere.
LAGGARDS	16%	Finally, holdouts, begrudgingly acquiesce and accept/adopt a technology.



DISRUPTIVE TECHNOLOGY

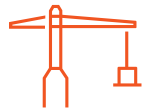
The Disruptive Technology portion of this family identifies opportunities to invest in the software, systems, networks, and tools that fuel innovation and power our 21st century global economy.

TICKER	FUND NAME	BRIEF DESCRIPTION	ADOPTION*
AIQ	Artificial Intelligence & Technology ETF	Companies that stand to potentially benefit from the further development and utilization of artificial intelligence and big data.	
BKCH	Blockchain ETF	Invests in companies positioned to benefit from the broader adoption of blockchain technology.	
BOTZ	Robotics & Artificial Intelligence ETF	Companies that stand to potentially benefit from increased adoption and utilization of robotics and artificial intelligence.	
BUG	Cybersecurity ETF	Invests in cybersecurity companies that protect and prevent intrusion and attacks to systems, devices, and platforms.	
CLOU	Cloud Computing ETF	Invests in companies that stand to potentially benefit from the increased adoption of cloud computing technology.	
DRIV	Autonomous & Electric Vehicles ETF	Invests in firms involved in the development of autonomous vehicle technology, electric vehicles (EVs), and EV components and materials.	
DTCR	Data Center & Digital Infrastructure ETF	Companies that operate data centers and other digital infrastructure supporting the growth of communication networks.	
FINX	FinTech ETF	Companies at the leading edge of the emerging financial technology sector.	
HERO	Video Games & Esports ETF	Companies positioned across the video games ecosystem, including streaming, esports, developers & publishers, and hardware.	
LIT	Lithium & Battery Tech ETF	Invests in the full lithium cycle, from mining and refining the metal, through battery production.	
PTEC	PropTech ETF	Invests in companies that are positioned to benefit from technology that optimizes the way people buy, sell, rent, design, construct, manage, and research/market residential and commercial properties.	
SHLD	Defense Tech ETF	Companies positioned to benefit from the increased adoption and utilization of defense technology ("Defense Tech").	
SNSR	Internet of Things ETF	Companies that stand to potentially benefit from the broader adoption of the Internet of Things.	
SOCL	Social Media ETF	Provides investors access to Social Media companies around the world.	
AGNG	Aging Population ETF	Companies positioned to serve the world's growing senior population through exposure to sectors that contribute to increasing lifespans and extending quality of life in advanced age.	
EBIZ	E-commerce ETF	Invests in companies positioned to potentially benefit from the increased adoption of E-commerce as a distribution model.	
EDOC	Telemedicine & Digital Health ETF	Companies positioned to benefit from further advances in the field of telemedicine and digital health.	
GNOM	Genomics & Biotechnology ETF	Invests in companies that stand to potentially benefit from further advances in the field of genomic science.	



CONSUMER ECONOMY

The Consumer Economy portion of this family invests in companies that stand to benefit from demographic changes, as well as changes in consumption habits or lifestyle choices.



INFRASTRUCTURE & ENVIRONMENT

The Infrastructure & Environment portion of this family invests in companies involved in building and maintaining critical infrastructure, including energy and water systems.

MILN	Millennial Consumer ETF	Companies that have a high likelihood of benefiting from the rising spending power and unique preferences of the U.S. Millennial generation.	
AQWA	Clean Water ETF	Companies advancing the provision of clean water through industrial water treatment, storage and distribution infrastructure, as well as purification and efficiency strategies, among other activities.	
CTEC	CleanTech ETF	Invests in companies that stand to benefit from the increased adoption of technologies that inhibit or reduce negative environmental impacts.	
HYDR	Hydrogen ETF	Companies that stand to benefit from the advancement of the global hydrogen industry.	
IPAV	Infrastructure Development ex-U.S. ETF	Invests in international companies that stand to benefit from a potential increase in infrastructure activity outside of the United States.	
KROP	AgTech & Food Innovation ETF	Companies advancing innovation and the use of technology in the agriculture and food industries.	
PAVE	U.S. Infrastructure Development ETF	Invests in companies that stand to benefit from a potential increase in infrastructure activity in the United States.	
RAYS	Solar ETF	Companies positioned to benefit from the advancement of the global solar technology industry.	
RNRG	Renewable Energy Producers ETF	Invests in companies that produce energy from renewable sources including wind, solar, hydroelectric, geothermal, and biofuels.	
WNDY	Wind Energy ETF	Companies positioned to benefit from the advancement of the global wind energy industry.	
ZAP	U.S. Electrification ETF	Invests in companies that potentially stand to benefit from increased electricity demand and electrification within the United States.	



DIGITAL ASSETS

The Digital Assets portion of this family provides access to bitcoin futures, seamlessly integrating an opportunity to invest in blockchain technology and a trend strategy that dynamically allocates between futures and short-term treasuries.

BITS	Blockchain & Bitcoin Strategy ETF	Takes long positions in U.S. listed bitcoin futures contracts and invests in companies positioned to benefit from the increased adoption of blockchain technology.	
BTRN	Bitcoin Trend Strategy ETF	Utilizes a long-only allocation strategy proportionate to the strength of the Bitcoin Trend Indicator by maintaining greater exposure to bitcoin futures when the price trend is positive and moves to a risk-off position when that trend reverses through treasuries.	



MULTI-THEME

Multi-theme delivers access to multiple themes that exhibit high long-term growth potential in a single basket.

GXTG	Thematic Growth ETF	Broad exposure to structurally disruptive macro-trends through a portfolio of ETFs selected from the Global X Thematic Growth family.	
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Bitcoin and bitcoin futures are a relatively new asset class. They are subject to unique and substantial risks, and historically, have been subject to significant price volatility. The value of an investment in the BITS or BTRN could decline significantly and without warning, including to zero. You should be prepared to lose your entire investment.

BITS and BTRN invest in bitcoin futures contracts. The ETF does not invest directly in or hold bitcoin. The price and performance of bitcoin futures should be expected to differ from the current “spot” price of bitcoin. These differences could be significant. BITS is actively managed.

Bitcoin is largely unregulated and bitcoin investments may be more susceptible to fraud and manipulation than more regulated investments. Bitcoin and bitcoin futures are subject to rapid price swings, including as a result of actions and statements by influencers and the media.

Investing involves risk, including the possible loss of principal. There is no guarantee the strategies discussed will be successful. International investments may involve risk of capital loss from unfavorable fluctuation in currency values, from differences in generally accepted accounting principles or from economic or political instability in other nations. Emerging markets involve heightened risks related to the same factors as well as increased volatility and lower trading volume. Narrowly focused investments may be subject to higher volatility. There are additional risks associated with investing in lithium and the lithium mining industry. The investable universe for thematic ETFs may be limited. The funds are non-diversified.

Video Game, Esports and Cybersecurity Companies are subject to risks associated with additional regulatory oversight with regard to privacy/cybersecurity concerns, shifting consumer preferences, and potential licensing challenges. Declining or fluctuating subscription renewal rates for products/services or the loss or impairment of intellectual property rights could adversely affect profits.

Investments in infrastructure-related companies have greater exposure to the potential adverse economic, regulatory, political and other changes affecting such entities. Healthcare, Pharmaceutical, Biotechnology and Medical Device companies can be affected by government regulations, expiring patents, rapid product obsolescence, and intense industry competition. The risks related to investing in cloud computing companies include disruption in service caused by hardware or software failure, interruptions or delays in service by third-party data center hosting facilities and maintenance providers, security breaches involving certain private, sensitive, proprietary and confidential information managed and transmitted by cloud computing companies, and privacy concerns and laws, evolving Internet regulation and other foreign or domestic regulations that may limit or otherwise affect the operations of such companies.

Investing in securities engaged in the social media industry or Information Technology include disruption in service caused by hardware or software failure; interruptions or delays in service by third-parties; security breaches involving certain private, sensitive, proprietary and confidential information managed and transmitted by social media companies; and privacy concerns and laws, evolving Internet regulation and other foreign or domestic regulations that may limit or otherwise affect the operations of such companies.

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