

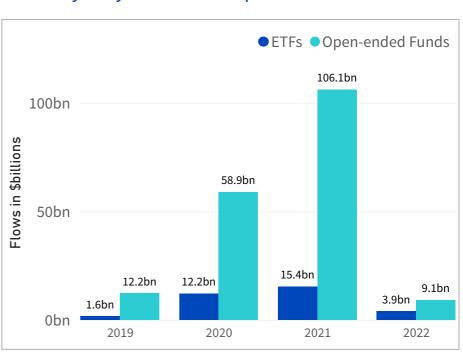
WisdomTree European thematic quarterly update

January 2023

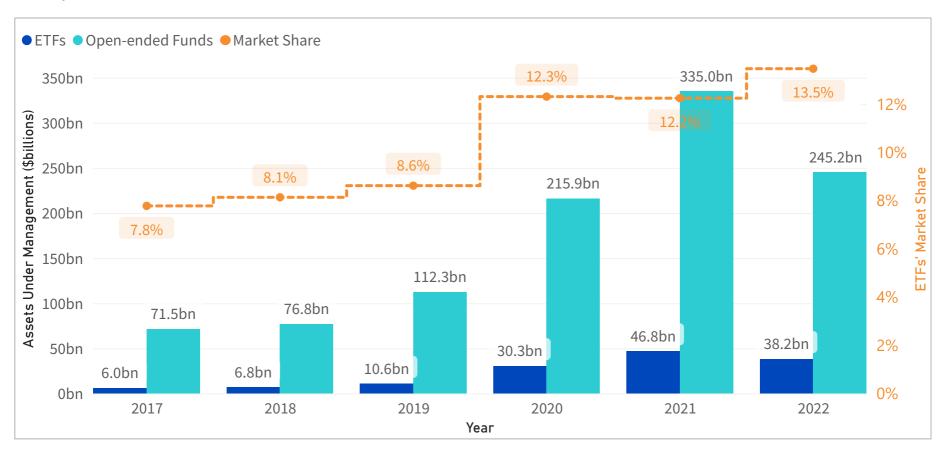
Thematic universe overview

- + AUM in thematic Exchange Traded Funds ("ETFs") and open-ended funds stands at \$283.4 billion as of the end of December 2022. ETFs' market share remains stable at 13.5% with a total AUM of \$38 billion. In 2022, negative performance across many themes led to a continued decrease of the overall assets under management, resulting in a total drop of \$98.4 billion.
- + Overall flows have remained positive in Q4 2022 despite continued pressure on growth stocks, with \$1.5 billion across ETFs and open-ended funds.
- + Despite the deeply negative performance in many of the themes, flows remain positive, indicating that investors keep faith in the long-term potential of thematics and are using those exposures strategically. Year-to-date flows stand at \$9.1 billion for open-ended funds and \$3.9 billion for ETFs.

Recent yearly flows in Europe



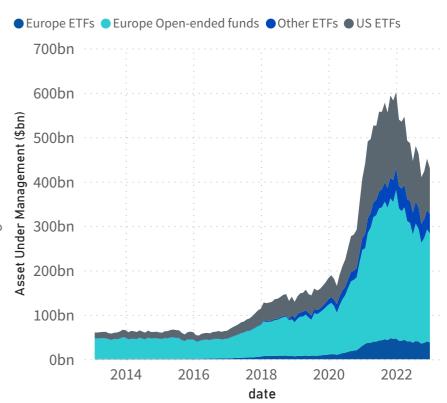
Europe-domiciled thematic AUM evolution and ETFs' market share



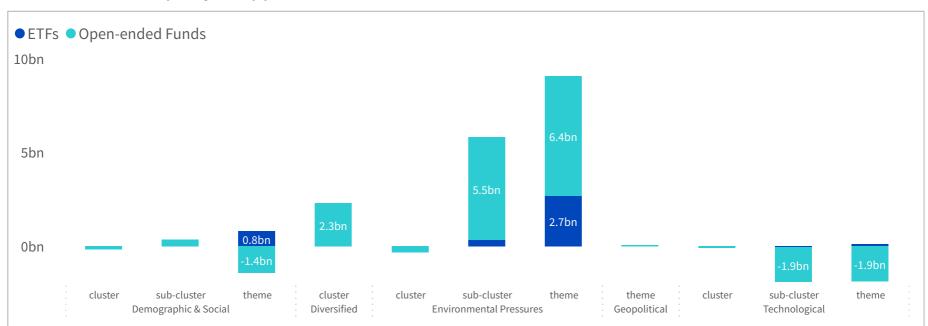
Thematic universe overview (continued)

- + Globally, AUM in thematic strategies rebounded in Q4, from \$410 billion in September to \$430 billion at the end of December, helped by an equity rebound in October and November. AUM are still down \$171 billion from their peak on 31 December 2022.
- + Looking at the different market segments, US ETFs have been hit the hardest, with overall AUM dropping -38% in 2022. European open-ended funds lost -27% of their assets. European ETFs have been the most resistant, with a drop of only -18%.
- + Open-ended funds and ETFs continued to gather the most flows in the "Environmental Pressures" cluster, showing the continued interest of investors in "green" themes. Within both wrappers, the vast majority of the 2022 flows went into the sub-cluster "Climate Change and Sustainability", and the themes inside it –\$5.8 billion went into funds that invest across themes and \$7.0 billion into funds that invest in single themes.
- + In the other two clusters, we observe that open-ended funds suffered outflows when ETFs gathered inflows. This is particularly the case in the "Equality, Inclusion & Diversity" theme in the "Demographic and Social Shifts" cluster.

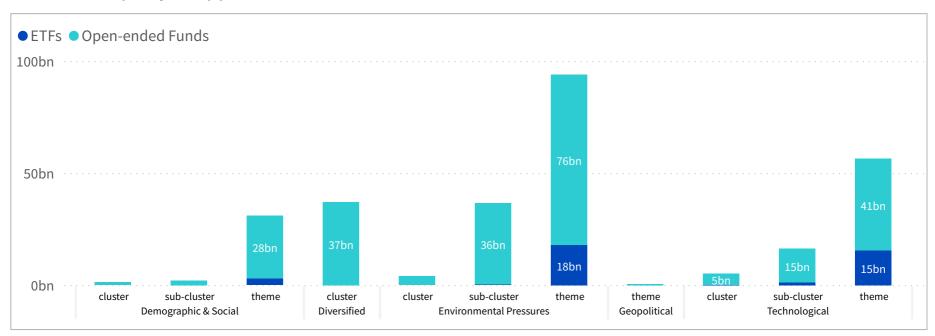
AuM in Thematics by region (Last 10Y)



YTD flows in Europe by wrapper in cluster, sub-cluster and focused themes



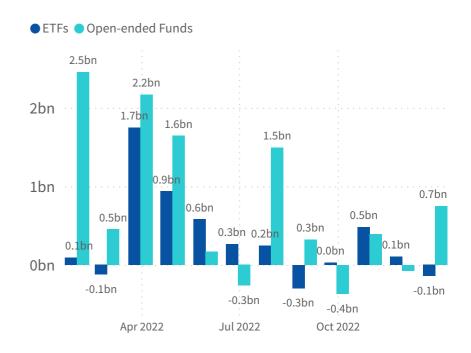
AuM in Europe by wrapper in cluster, sub-cluster and focused themes



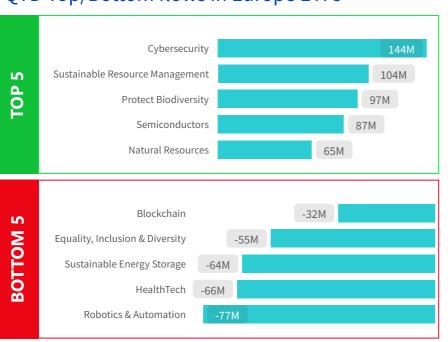
Thematic flows in Europe

- + October was the best month of the quarter for flows, with \$394 million inflows in open-ended funds and \$484 million inflows in ETFs. Overall, in Q4 mutual funds gathered \$1.07 billion flows vs. \$448 million in ETFs.
- + In Q4, "green" themes dominated flows for open-ended funds, with 4 themes out of the 5 best flow gatherers. "Artificial Intelligence" is the only standout in that top 5. In ETFs, Technological themes fared better, with "Cybersecurity" gathering the most flows and "Semiconductors" in the fourth place. In both wrappers, Technological themes dominate outflows, with "Robotic & Automation" and "HealthTech" in the bottom 5.
- + In 2022, "Sustainable Energy Production" continued to dominate flows with \$1.6 billion in ETFs and \$2.3 billion in mutual funds. Other "green" themes also did well with "Sustainable Resource Management", "Sustainable Food" or "Agriculture" regularly in the top 5. In a difficult year for tech, "Cybersecurity" still gathered \$900 million in ETFs and "Artificial Intelligence & Big Data" gathered \$1.1 billion in mutual funds.

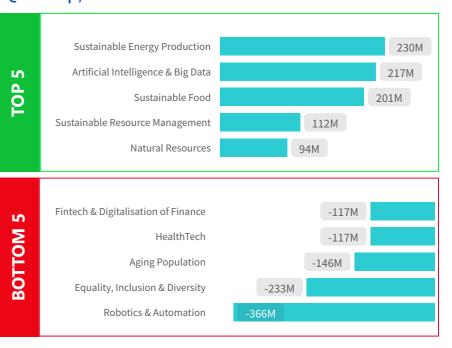
Month-on-month thematic flows



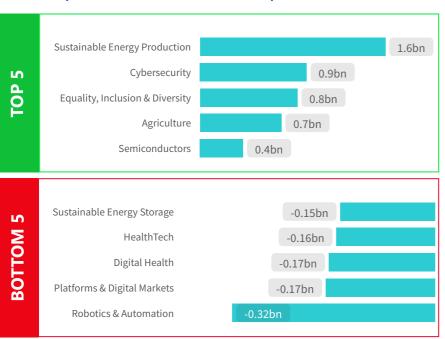
QTD Top/Bottom flows in Europe ETFs



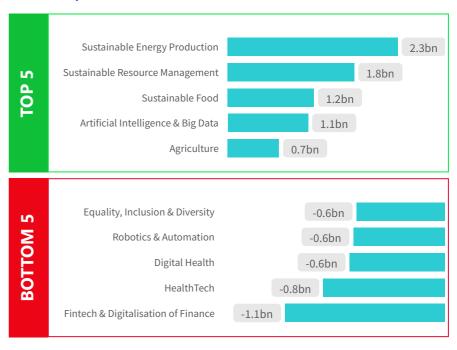
QTD Top/Bottom flows in Mutual Funds



YTD Top/Bottom flows in Europe ETFs



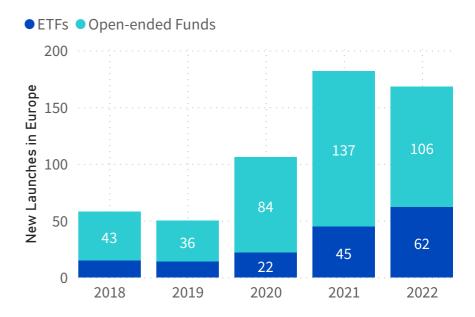
YTD Top/Bottom flows in Mutual Funds



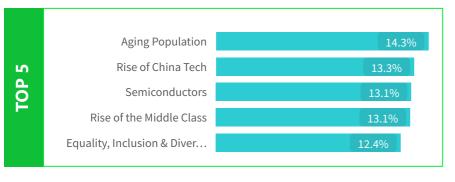
Thematic performance and launches in Europe

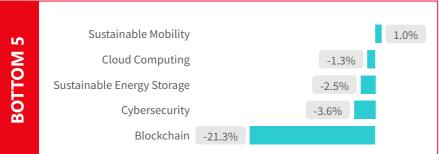
- + Thematic launches continued at a rapid clip in 2022 despite lacklustre performance. 62 ETFs were launched, surpassing the record 2021 launches by 17. The number of mutual fund launches decreased from 2021 but still beat all prior years with 106 launches.
- + In Q4, thematic strategies performed better than earlier this year. 15 themes beat the MSCI all-country world. The "Demographic and Social Shifts" cluster did particularly well with "Aging Population", "Rise of the Middle Class" and "Equality, Inclusion and Diversity" in the top 5. Tech themes still dominate the bottom 5 with "Blockchain" standing out with -21.3% for the quarter.
- + In 2022, no themes have posted positive returns. Only three themes have beaten the market. "Green" themes have performed the best with "Agriculture", "Natural Resources" and "Sustainable Energy production" in the top 3.

Yearly thematic launches in Europe

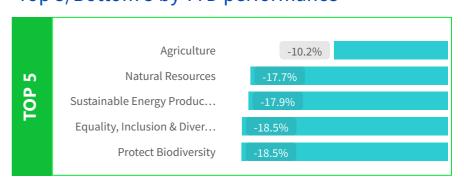


Top 5/Bottom 5 by QTD performance



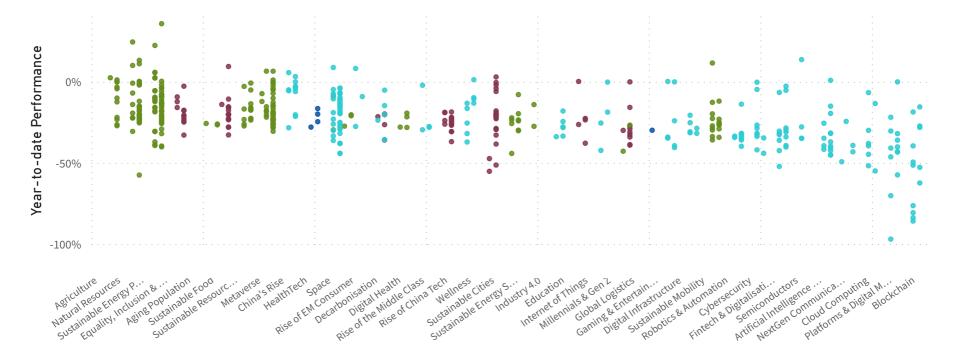


Top 5/Bottom 5 by YTD performance

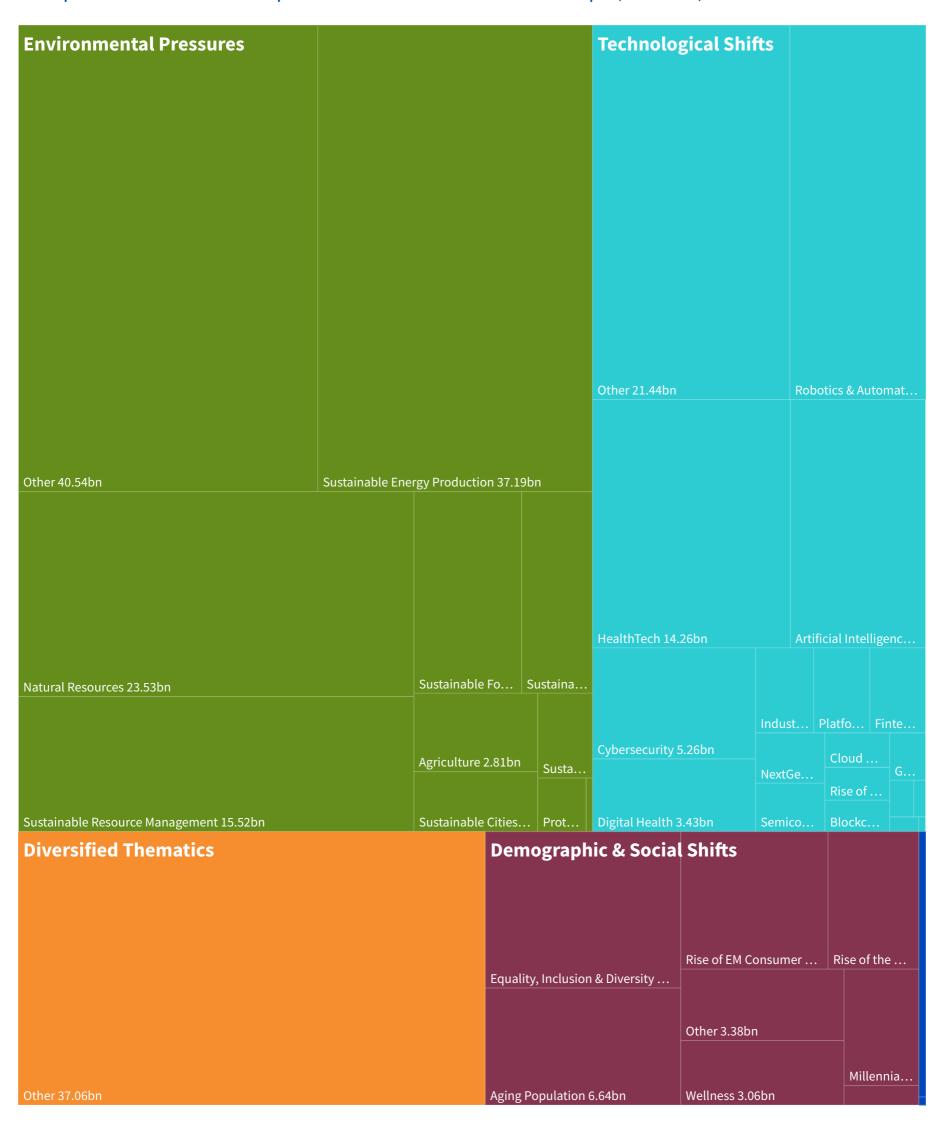




Dispersion of YTD performance of all ETFs and mutual funds by themes in Europe



AUM per theme in ETFs and open-ended funds domiciled in Europe (\$billions)



Appendix - Multi themes & diversified thematic ETFs and Open-ended funds

Cluster	Sub-Cluster	AuM (\$)	Flows Last Quarter (\$)	Flows YTD (\$)
Demographic & Social Shifts		1,325.08M	-39.89M	-185.07M
Demographic & Social Shifts	Demographic Shifts	2,030.93M	34.97M	342.58M
Demographic & Social Shifts	Social Shifts	26.03M	-2.45M	4.39M
Diversified Thematics		37,056.94M	185.44M	2,307.54M
Environmental Pressures		4,008.21M	-75.61M	-334.92M
Environmental Pressures	Climate Change & Sustainability	36,524.10M	1,668.68M	5,823.07M
Environmental Pressures	Limited Resources	11.96M	0.02M	-0.35M
Technological Shifts		5,200.88M	83.91M	-89.20M
Technological Shifts	Disruptive Technologies	11,423.99M	164.70M	-585.78M
Technological Shifts	HyperConnectivity & Digitalisation	4,811.21M	-525.48M	-1,323.35M

Appendix - Theme focused ETFs and Open-ended funds

Theme Name	AuM (\$)	Flows Last Quarter (\$)	Flows YTD (\$)	Performance Last Quarter	Performance YTD
Aging Population	6,635.32M	-149.06M	-359.67M	14.3%	-20.7%
Agriculture	2,814.36M	-27.77M	1,402.77M	9.1%	-10.2%
Artificial Intelligence & Big Data	9,732.92M	221.85M	1,053.46M	5.3%	-35.7%
Blockchain	587.95M	-13.42M	39.71M	-21.3%	-64.9%
China's Rise	508.15M	-33.99M	54.43M	12.0%	-21.7%
Cloud Computing	645.24M	-14.64M	-53.05M	-1.3%	-44.5%
Cybersecurity	5,261.63M	194.26M	1,113.38M	-3.6%	-34.0%
Decarbonisation	100.18M	1.95M	-10.65M	8.4%	-24.1%
Digital Health	3,432.76M	-60.17M	-814.78M	7.1%	-24.5%
Digital Infrastructure	123.39M	-45.16M	-34.00M	6.2%	-31.0%
Education	422.29M	25.70M	-132.79M	8.6%	-27.9%
Equality, Inclusion & Diversity	8,880.58M	-287.53M	229.18M	12.4%	-18.5%
Fintech & Digitalisation of Finance	1,378.58M	-113.87M	-1,086.72M	2.9%	-34.3%
Gaming & Entertainment	493.45M	-19.31M	-112.04M	6.2%	-30.7%
Global Logistics	15.32M	2.05M	8.83M	10.1%	-29.8%
HealthTech	14,260.45M	-182.98M	-980.94M	8.2%	-22.7%
Industry 4.0	1,436.80M	22.24M	162.65M	11.1%	-27.6%
Internet of Things	255.99M	39.23M	189.47M	9.7%	-29.2%
Metaverse	125.49M	36.98M	137.99M	3.1%	-21.4%
Millennials & Gen Z	2,525.98M	-69.03M	-429.63M	5.2%	-29.5%
Natural Resources	23,529.29M	158.53M	628.95M	11.5%	-17.7%
NextGen Communications	1,015.01M	-55.74M	-438.78M	5.1%	-35.8%
Platforms & Digital Markets	1,386.47M	-8.16M	-369.00M	5.6%	-44.7%
Protect Biodiversity	751.06M	138.73M	605.05M	11.2%	-18.5%
Rise of China Tech	619.48M	5.63M	-20.94M	13.3%	-25.1%
Rise of EM Consumer	5,886.05M	15.92M	42.45M	10.2%	-23.8%
Rise of the Middle Class	3,628.33M	82.65M	-349.74M	13.1%	-25.0%
Robotics & Automation	14,730.67M	-443.15M	-941.91M	9.6%	-33.4%
Semiconductors	972.96M	86.95M	365.89M	13.1%	-35.0%
Space	28.82M	0.12M	19.78M	11.6%	-22.9%
Sustainable Cities	2,155.53M	-127.93M	91.89M	10.2%	-26.8%
Sustainable Energy Production	37,186.66M	282.29M	3,924.04M	5.8%	-17.9%
Sustainable Energy Storage	1,350.24M	-49.88M	-87.00M	-2.5%	-27.5%
Sustainable Food	6,310.46M	195.57M	1,222.07M	10.8%	-21.0%
Sustainable Mobility	4,151.50M	-62.34M	-397.91M	1.0%	-31.1%
Sustainable Resource Management	15,517.64M	215.53M	1,705.42M	12.0%	-21.4%
Wellness	3,056.09M	50.08M	381.79M	9.3%	-25.9%

Source: WisdomTree, Morningstar, Bloomberg. All data as of 31st December 2022 and based on WisdomTree's internal classification of thematic funds. Performance is based on monthly returns from Bloomberg and Morningstar More information on the WisdomTree Thematic classification can be found in the Appendix.

Historical performance is not an indication of future performance, and any investments may go down in value.

Appendix - Definitions

The WisdomTree Thematic classification is built around 4 main thematic clusters

Technological Shifts

This cluster focuses on the different themes that originate from the introduction of new technologies and innovation It incorporates disruptive and emerging technologies as well as their impact on societies and economies, such as the increasing digitalisation and connectivity of the world

Demographic and Social Shifts

This cluster focuses on the themes that originate from changes in population and societies alike For example, it incorporates changes in the world's pyramid of age, the impact of the growing, younger, wealthier populations in emerging markets, as well as changes to societal values and lifestyles

Environmental Pressures

Focusing on the environment and, more importantly, on the impact of human activities on the planet, this cluster incorporates changes driven by sustainability issues, the increasing scarcity of resources and the need to address global warming and climate change

Geopolitical Shifts

This cluster focuses on the themes driven by the globalisation and the changes in the global geopolitical order with the rise of new geopolitical powers like China. It also taps into the increasing polarisation of modern societies as a counterforce to globalisation

All thematic ETFs and open ended funds in the WisdomTree Thematic classification are classified into

- **Diversified thematics**, if they try to harness a large number of megatrends in one go. Those funds tend to have a very diluted focus, which could mean that it might be harder to find sources of potential differentiation against a broad market benchmark.
- A specific cluster, if they try to harness multiple themes across sub-clusters but within one particular cluster. For example, a fund investing in Artificial Intelligence, Robotics, Cloud, and Cybersecurity would be classified as a 'Technological Shifts' fund.
- A particular sub cluster, if a strategy aims to invest in most of the themes within that sub cluster For example, a fund investing in Cloud Computing, Platforms, Cybersecurity, and Fintech would be classified as a 'Hyperconnectivity & Digitalisation' fund.
- A theme, if the investment strategy is focused on a specific, clear theme.

YTD stands for Year to Date

MTD stands for Month to Date

For all of our calculations, we use the WisdomTree Thematic Classification that we have previously introduced here and can be found in the next page.

Performance of a theme. For any given theme, we consider each month all the ETFs and open-ended funds classified in that specific theme that have published a monthly return for that month in Morningstar. We then calculate the average of all those monthly returns to compute the average monthly return for that theme. So, the monthly return for January 2020 for the theme may include 19 funds, while the February 2020 return may comprise 21 funds (if two funds classified in that theme have been launched in the meantime). By collating monthly returns for the theme, we get the theme's average historical performance Therefore, the theme's average historical performance incorporates every ETF, and open-ended fund focused on this theme The theme's average historical performance is not biased towards surviving funds or successful funds Every fund alive in a given month is included irrespective of its future survival or success Investments that try to focus on multiple themes and, therefore, classified either at Cluster or Sub-Cluster Level are not included.

The WisdomTree Thematic Classification

DIVERSIFIED THEMATICS	SHIFTS GEOPOLITICAL ENVIRONMENTAL SHIFTS SOCIAL SHIFTS	HYPER INECTIVITY DEMOGRAPHIC SOCIAL SALISATION ROLTII- CHANGE RESOURCES SHIFTS	d Computing Aging Population Education Global Logistics China's Rise Decarbonisation Agriculture	Millennials & Gen Z & Diversity & Diversity Resources	Rise of the Middle Rise of Tension Class	ital Health Consumer Consumer Sustainable Energy	Digital Wellness Sustainable Energy structure	intech & Sustainable Food Finance	aming & Sustainable Cities ertainment	Sustainable Resource Management	letaverse Extreme Events	orms & Digital Markets	ial Media &
		YTI/	Cloud Computing Aging		Cybersecurity	Digital Health	Digital Infrastructure	Fintech & Digitalisation of Finance	Gaming & Entertainment	Internet of Things	Metaverse	Platforms & Digital Markets	Social Media &
	TECHNOLOGICAL SHIFTS	DISRUPTIVE	Artificial Intelligence & Big (Data	Rise of China Tech	Blockchain	HealthTech	Industry 4.0	Next Gen Communications	Robotics & Automation	Semiconductors	Smart Materials & Nano Tech	Space	

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