

WisdomTree European thematic monthly update

January 2024

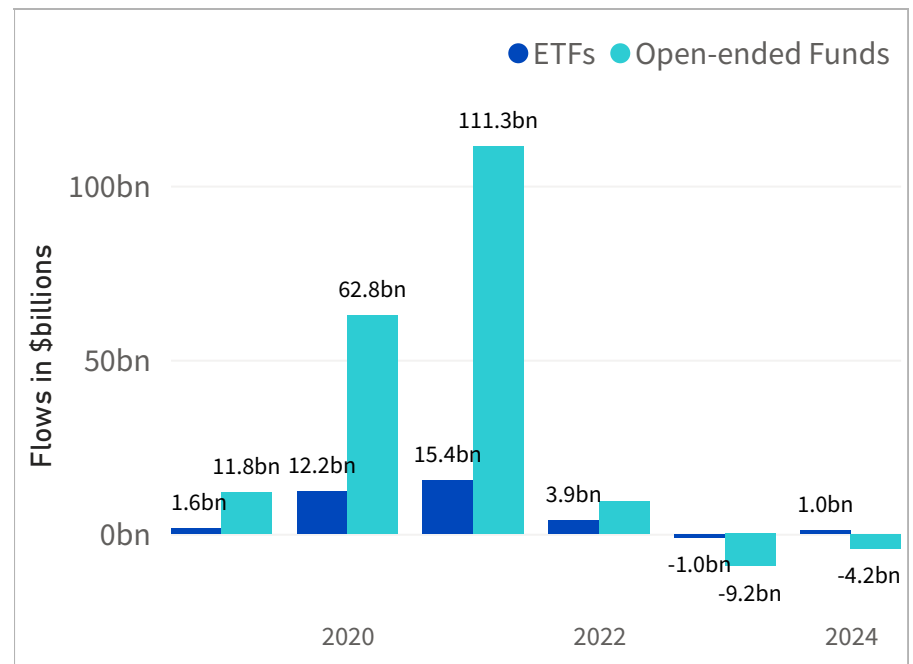
Thematic universe overview

+ AUM in thematic Exchange Traded Funds (“ETFs”) and open-ended funds decreased slightly in January to \$320 billion driven mostly by outflows in open-ended funds. ETFs’ market share is increasing to 13.5%, on the back of better flow performance, with a total AUM of \$43.2 billion. AUM in ETFs is stable compared to last year and only 3 billion off the all-time high in December 2021. This highlights the bifurcation we continue to observe between Thematic ETFs and open-ended funds. ETF performance and flows have been more resilient since mid-2023.

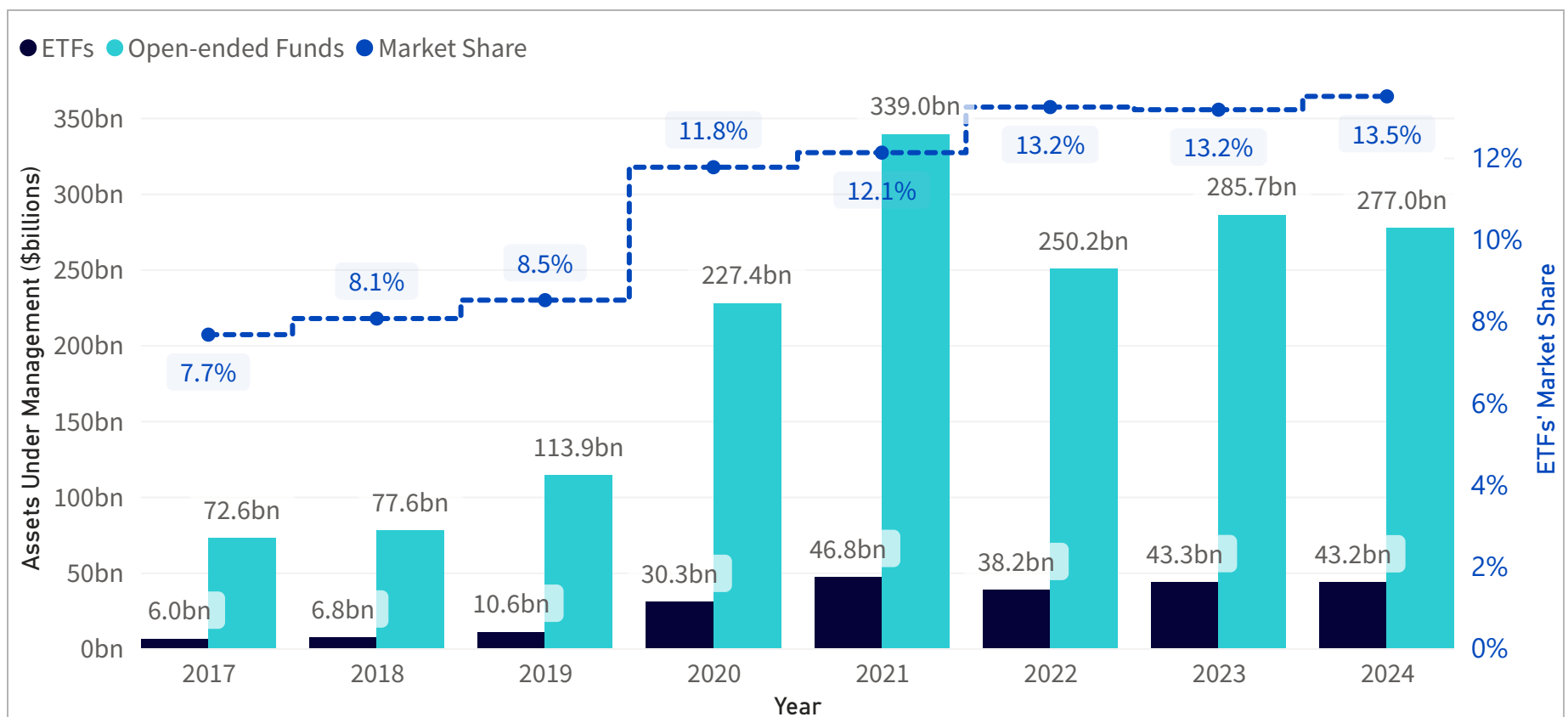
+ Performance in January was more challenging after the strong end-of-year bull markets. Only nine themes beat the MSCI All-Country World in January. Most of them are in Tech, and none of them are in "Environmental Pressures".

+ Flows in January have been negative, with -\$3.2 billion in Europe. However, the bulk of the outflows are in open-ended funds, and ETFs gathered \$1 billion of assets. This is a continuation of the trend observed in 2023, with ETF flows being more resilient. ETF flows are concentrated in the "Technological Shifts" Cluster.

Recent yearly flows in Europe



Europe-domiciled thematic AUM evolution and ETFs’ market share



Source: WisdomTree, Morningstar, Bloomberg. All data as of 31/01/2024 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.**

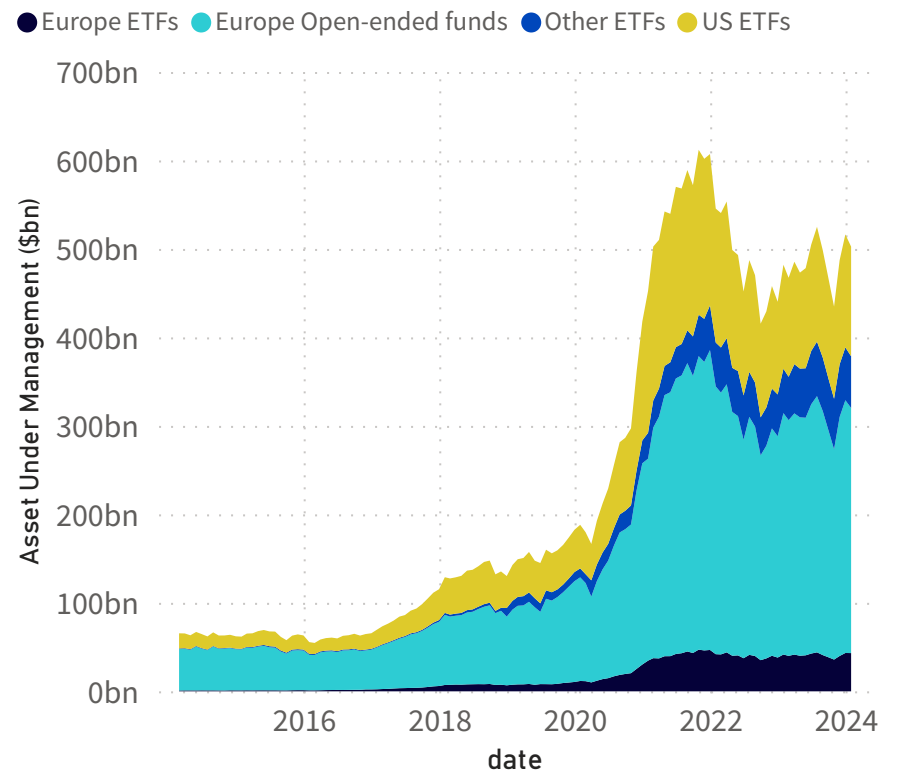
Thematic universe overview (continued)

+ Joint AUM in global thematic ETFs and open-ended funds in Europe are down \$14 billion from December 2023. This decrease is driven mostly by the performance of thematic equities, since flows globally were positive at \$4.5 billion during January 2024.

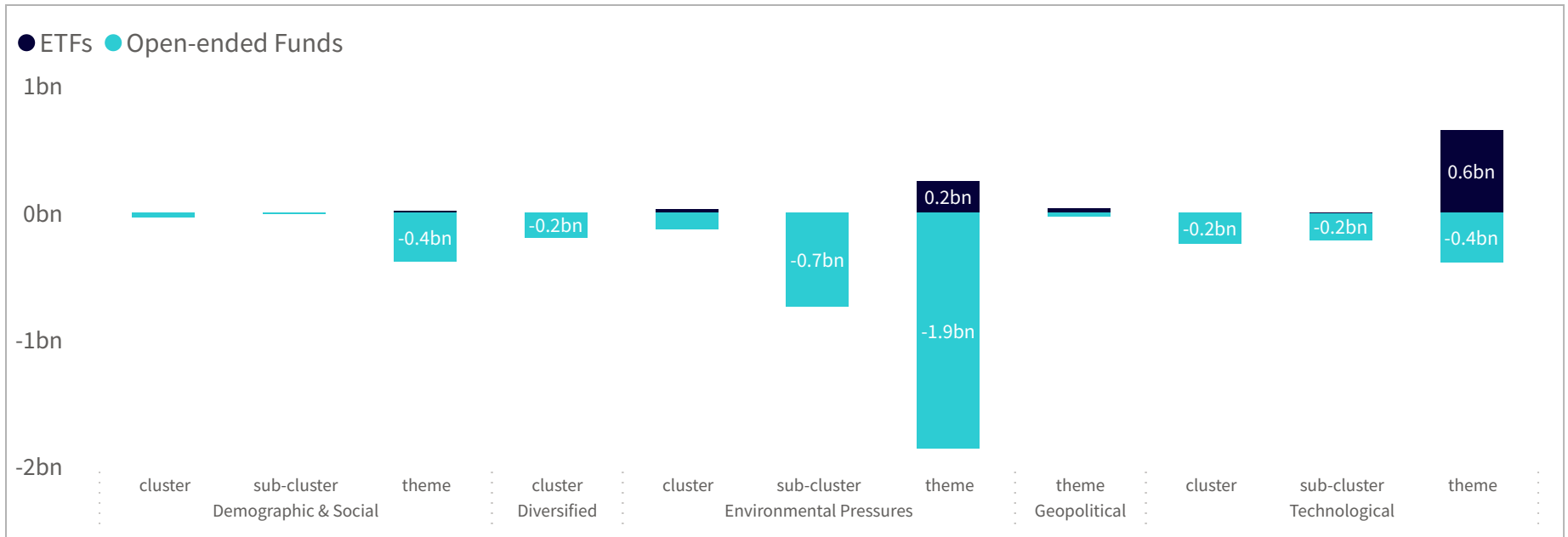
+ Year-to-date, European open-ended funds have suffered outflows across all clusters and type of funds (ie single themes or multi themes. ETFs have gathered the most flows in "Technological Shifts" followed by the "Environmental Pressures" cluster. Overall, outflows have been strong out of the "Environmental Pressures" cluster.

+ The "Environmental Pressures" cluster remains the biggest cluster in Europe with \$132 billion of assets, but Technological Shifts is narrowing the gap with \$108 billion as of the end of January 2024. It is worth noting that in the US, "Technological Shifts" is almost three times bigger than "Environmental Pressures".

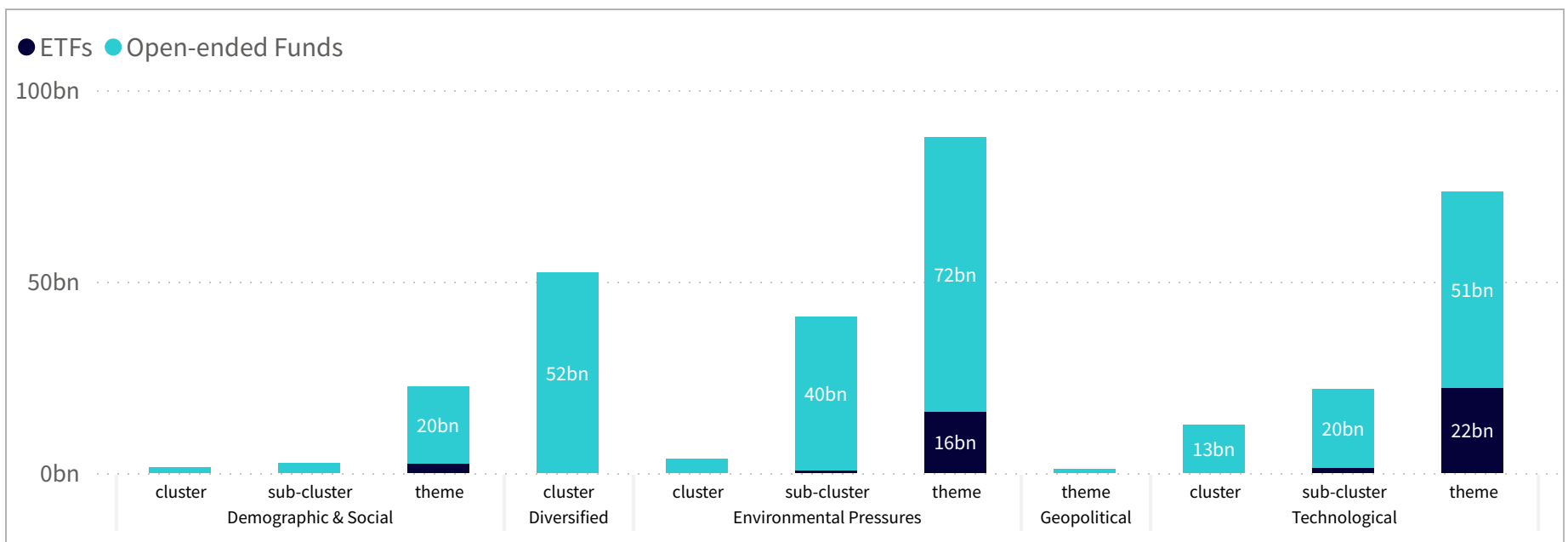
AuM in Thematics by region (Last 10Y)



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



Source: WisdomTree, Morningstar, Bloomberg. All data as of 31/01/2024 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.**

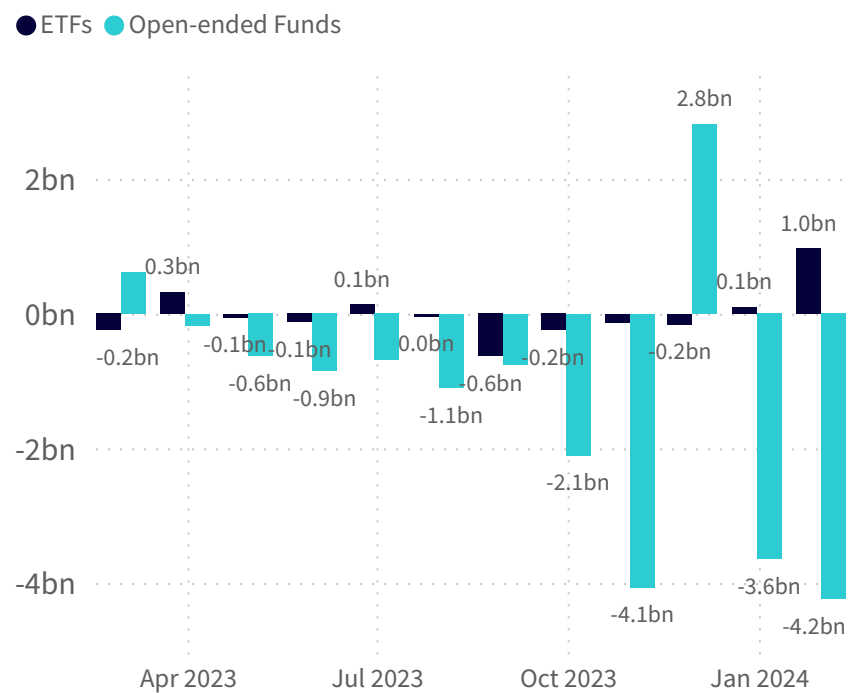
Thematic flows in Europe

+ Flows in January were positive for ETFs (+\$966 million) but quite negative for Open-ended Funds with \$4.24 billion outflows. This is a continuation of the trend observed in 2023 and a by-product of the strength of "Tech" versus "Green Themes".

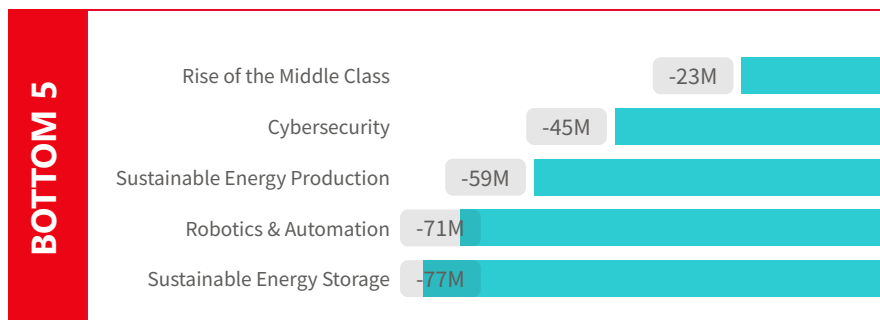
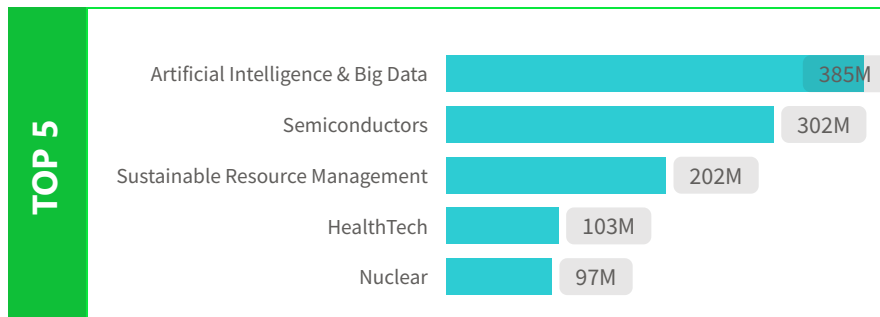
+ In January, "AI & Big Data" gathered the most assets with 442 million across both wrappers showing that the theme is continuing to attract interest. "Semiconductors" is second with +\$302 million. Also a continuation of 2023's trends. "Nuclear" finishes third surfing on the momentum it accumulated in 2023. "Energy Transition Materials" is a surprise in 4th place as "green themes" have been suffering from some "ESG fatigue" for a year now. Looking at flows by wrappers, we observe that "HealthTech" did quite well in ETFs with \$103 million in inflows.

+ The worst performer for the month is "Sustainable Energy Production", with \$929 million in outflows. This is also in line with 2023's trends. "Sustainable Mobility" and "Water" follow with around \$200 million of outflows each.

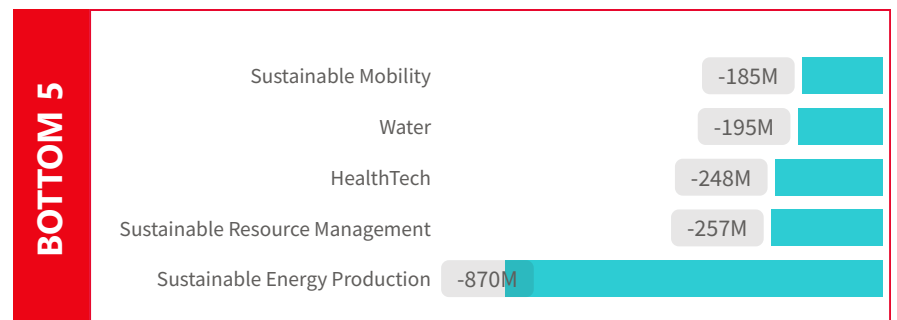
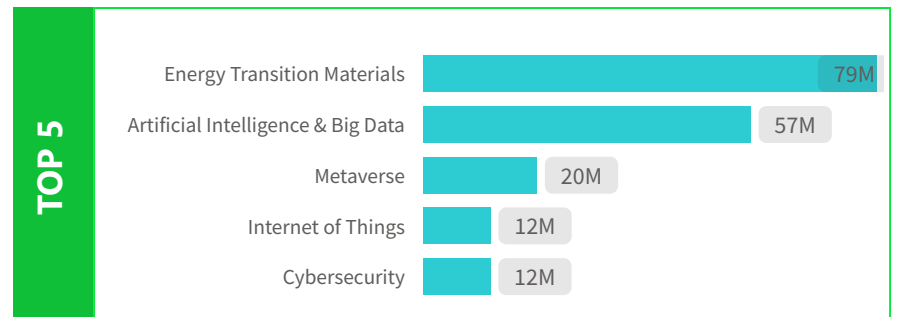
Month-on-month thematic flows



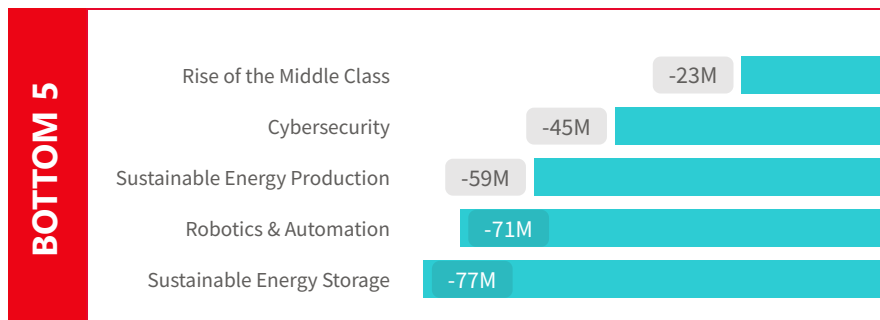
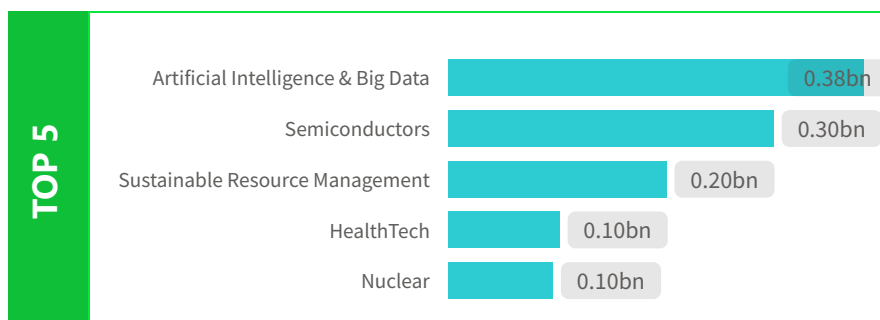
January Top/Bottom flows in Europe ETFs



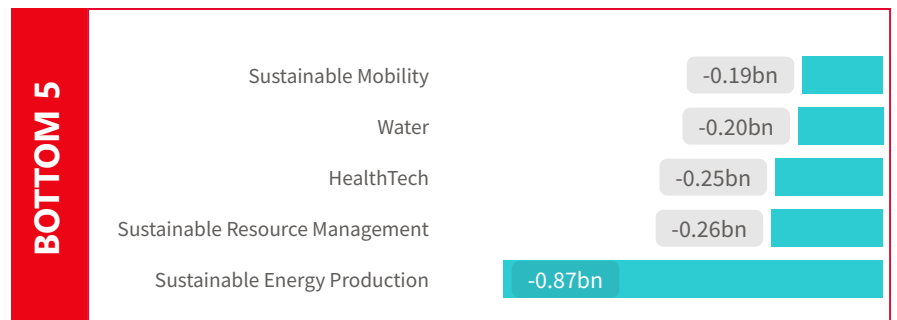
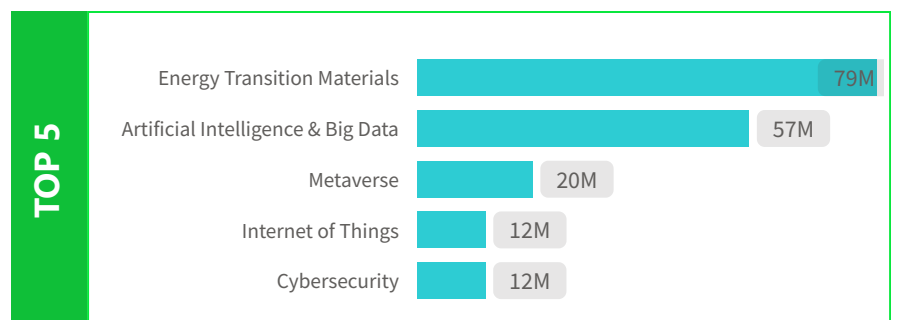
January Top/Bottom flows in Mutual Funds



YTD Top/Bottom flows in Europe ETFs



YTD Top/Bottom flows in Mutual Funds



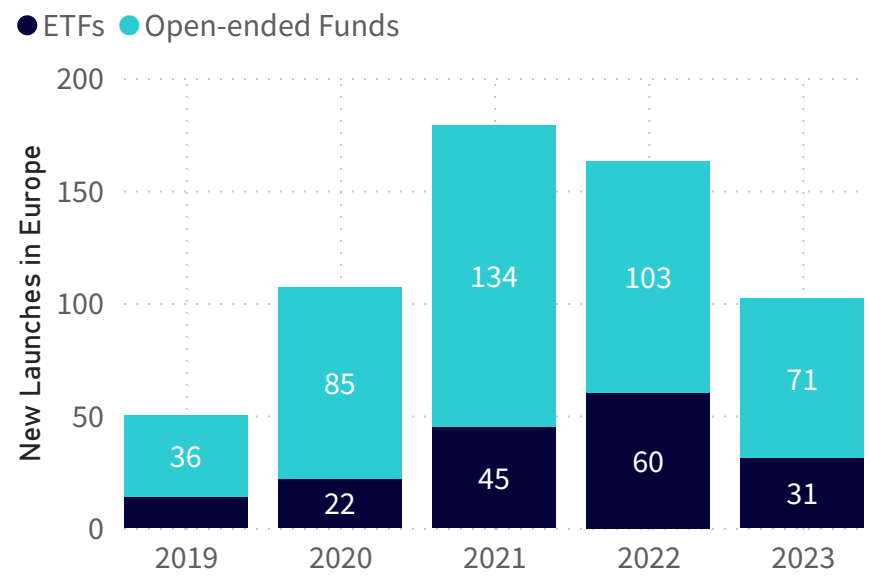
Source: WisdomTree, Morningstar, Bloomberg. All data as of 31/01/2024 and based on WisdomTree's internal classification of thematic funds. Performance is based on monthly returns from Bloomberg and Morningstar More information on the WisdomTree Thematic classification can be found in the Appendix. **Historical performance is not an indication of future performance, and any investments may go down in value.**

Thematic performance and launches in Europe

+ In January, "Nuclear" was the best theme with +8.8% of returns. Artificial Intelligence-related themes also continued to perform strongly, with "Cybersecurity" gaining 2.9%, "Semiconductors" gaining 2.9% and "Artificial Intelligence & Big Data" gaining 1.9%. Rise of Tensions is also in the top 5 showing the increased momentum for themes linked to geopolitical risks. Overall, AI continued to drive narrative in thematics but its impact is extending to "adjacent themes" like Cybersecurity, Cloud or HealthTech.

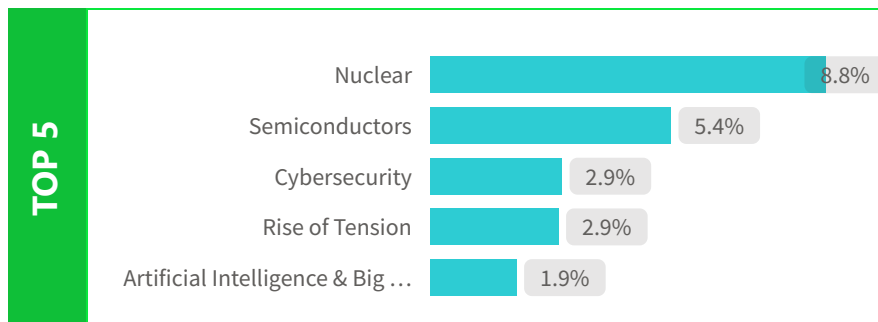
+ The worst-performing theme for the month was Blockchain. After an incredible ride in December, blockchain and cryptocurrency marked a stop after the launch of 11 spot Bitcoin US ETFs. Once again the adage "buy the rumour, sell the news" rang true. The rest of the bottom 5 are climate change and China-related. "Sustainable Energy Storage" lost on average -12.1%, "China Tech" lost -11.1% and "Energy Transition Metals" lost -9.7%. Which did not stop \$73 million of inflows to enter the theme as discussed earlier.

Yearly thematic launches in Europe*

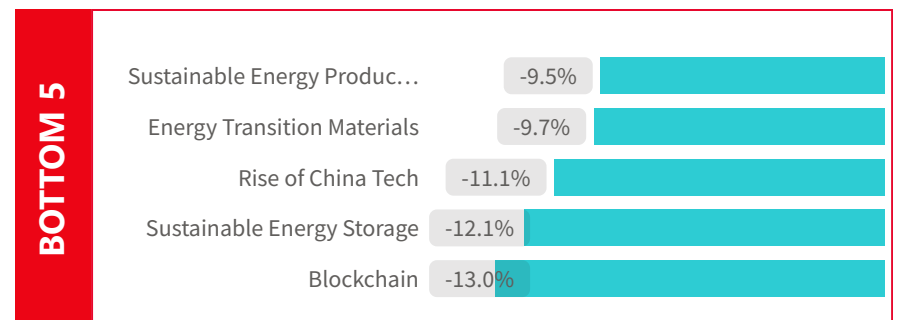
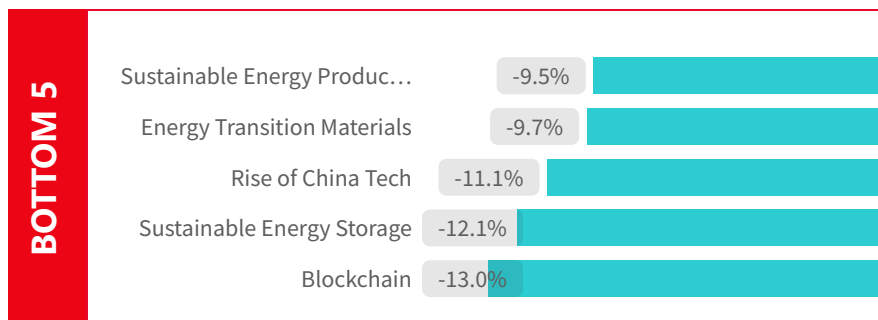
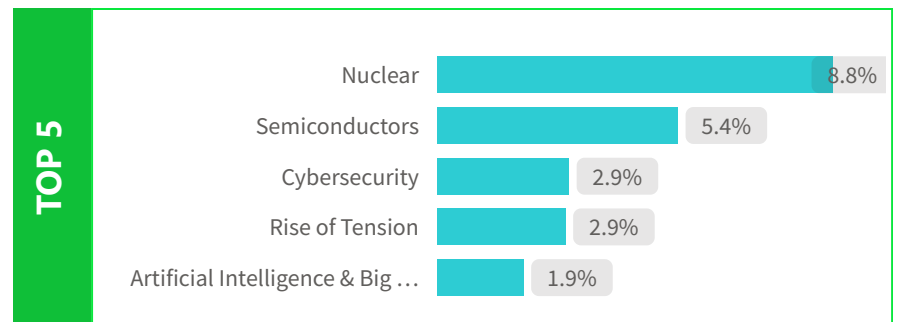


* New launches are updated quarterly

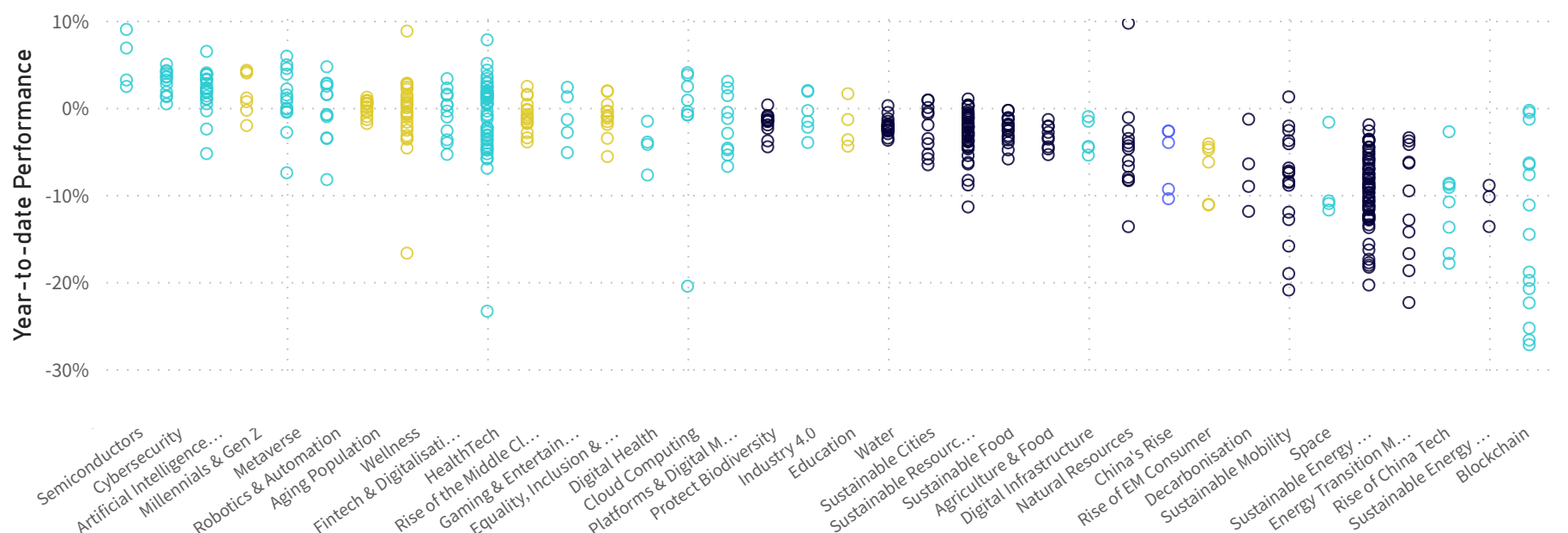
Top 5/Bottom 5 by performance in January



Top 5/Bottom 5 by YTD performance

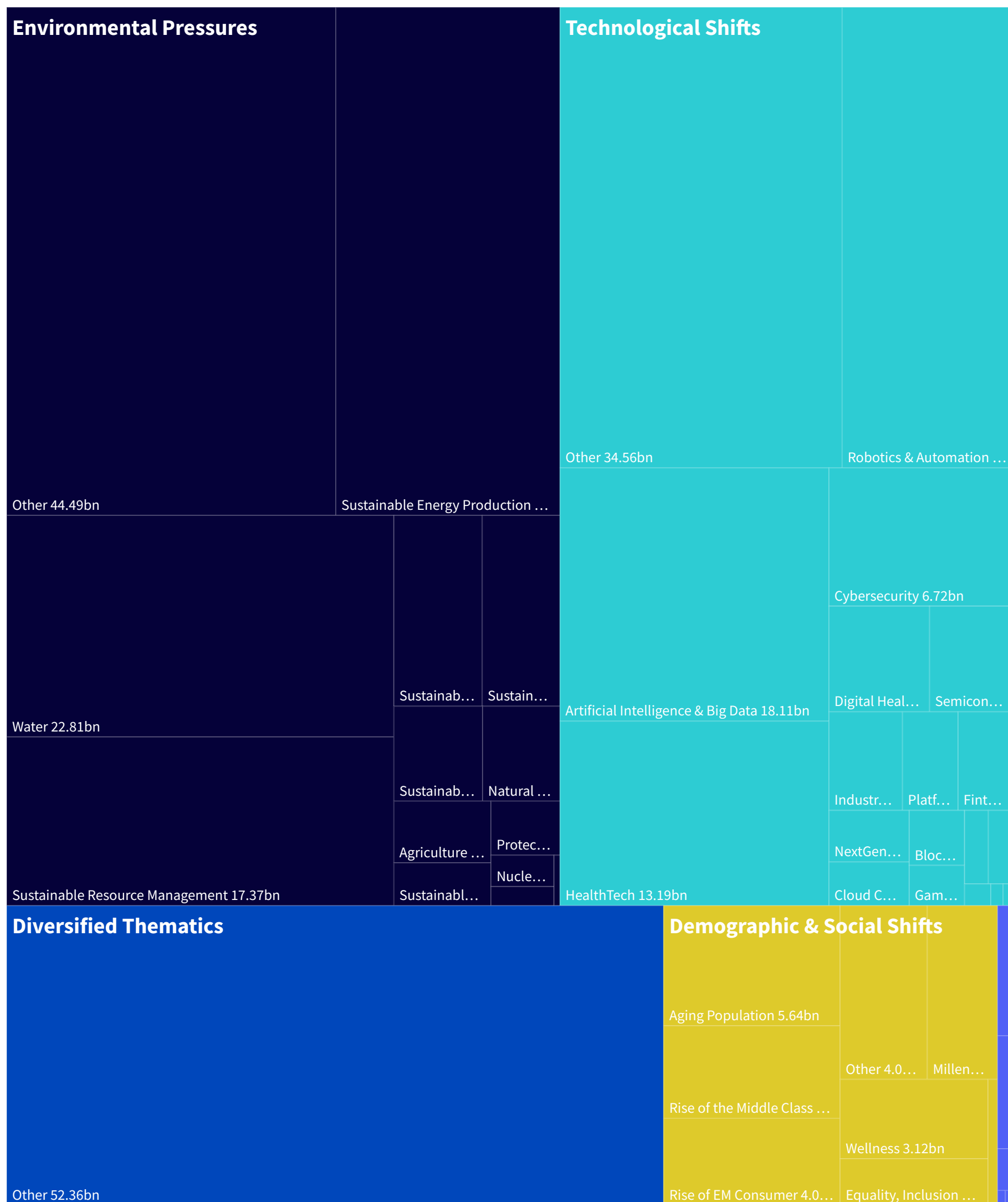


Dispersion of YTD performance of all ETFs and mutual funds by themes in Europe



Source: WisdomTree, Morningstar, Bloomberg. All data as of 31/01/2024 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.**

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



Source: WisdomTree, Morningstar, Bloomberg. All data as of 31/01/2024 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 - Multi themes & diversified thematic ETFs and Open-ended funds

Cluster	Sub-Cluster	AuM (\$)	Flows Last Month (\$)	Flows YTD (\$)
Technological Shifts		12,604.77M	-239.53M	-239.53M
Technological Shifts	Disruptive Technologies	15,043.41M	-203.33M	-203.33M
Technological Shifts	HyperConnectivity & Digitalisation	6,911.09M	-11.17M	-11.17M
Environmental Pressures		3,734.96M	-100.27M	-100.27M
Environmental Pressures	Climate Change & Sustainability	40,741.13M	-742.99M	-742.99M
Environmental Pressures	Limited Resources	10.17M	-0.18M	-0.18M
Diversified Thematics		52,355.09M	-196.61M	-196.61M
Demographic & Social Shifts		1,532.73M	-38.95M	-38.95M
Demographic & Social Shifts	Demographic Shifts	2,480.91M	-7.20M	-7.20M
Demographic & Social Shifts	Social Shifts	14.02M	-0.56M	-0.56M

Appendix - Theme focused ETFs and Open-ended funds

Theme Name	AuM (\$)	Flows Last Month (\$)	Flows YTD (\$)	Performance Last Month	Performance YTD
Aging Population	5,635.66M	-118.21M	-118.21M	0.1%	0.1%
Agriculture & Food	1,592.99M	-118.87M	-118.87M	-3.3%	-3.3%
Artificial Intelligence & Big Data	18,111.81M	441.89M	441.89M	1.9%	1.9%
Blockchain	808.38M	29.15M	29.15M	-13.0%	-13.0%
China's Rise	496.04M	-22.13M	-22.13M	-5.8%	-5.8%
Cloud Computing	931.97M	-18.67M	-18.67M	-1.4%	-1.4%
Cybersecurity	6,722.51M	-33.24M	-33.24M	2.9%	2.9%
Decarbonisation	81.52M	-1.99M	-1.99M	-7.4%	-7.4%
Digital Health	2,827.99M	-47.74M	-47.74M	-1.3%	-1.3%
Digital Infrastructure	71.20M	-0.94M	-0.94M	-3.4%	-3.4%
Education	321.56M	-11.35M	-11.35M	-2.0%	-2.0%
Energy Transition Materials	319.52M	73.35M	73.35M	-9.7%	-9.7%
Equality, Inclusion & Diversity	1,830.30M	-33.42M	-33.42M	-1.0%	-1.0%
Fintech & Digitalisation of Finance	1,410.97M	-60.22M	-60.22M	-0.7%	-0.7%
Gaming & Entertainment	592.80M	-15.82M	-15.82M	-1.0%	-1.0%
Global Logistics	26.11M	-0.52M	-0.52M	-3.4%	-3.4%
HealthTech	13,191.70M	-144.37M	-144.37M	-0.7%	-0.7%
Industry 4.0	1,926.21M	0.25M	0.25M	-1.8%	-1.8%
Internet of Things	151.80M	11.45M	11.45M	-1.1%	-1.1%
Metaverse	460.58M	21.44M	21.44M	0.9%	0.9%
Millennials & Gen Z	3,246.91M	-44.61M	-44.61M	1.7%	1.7%
Natural Resources	1,954.19M	-90.88M	-90.88M	-4.3%	-4.3%
Near/Reshoring	430.56M	-6.51M	-6.51M	1.0%	1.0%
NextGen Communications	1,100.71M	-34.69M	-34.69M	1.0%	1.0%
Nuclear	525.60M	97.11M	97.11M	8.8%	8.8%
Platforms & Digital Markets	1,457.45M	-61.31M	-61.31M	-1.5%	-1.5%
Political Polarisation	30.98M	0.00M	0.00M	-5.0%	-5.0%
Protect Biodiversity	993.14M	-7.17M	-7.17M	-1.8%	-1.8%
Rise of China Tech	465.45M	-17.99M	-17.99M	-11.1%	-11.1%
Rise of EM Consumer	4,081.50M	-84.70M	-84.70M	-7.0%	-7.0%
Rise of Tension	158.31M	31.26M	31.26M	2.9%	2.9%
Rise of the Middle Class	4,338.96M	-143.16M	-143.16M	-1.2%	-1.2%
Robotics & Automation	20,796.50M	-117.01M	-117.01M	0.3%	0.3%
Semiconductors	2,314.79M	301.54M	301.54M	5.4%	5.4%
Space	50.73M	1.25M	1.25M	-8.8%	-8.8%
Sustainable Cities	2,238.66M	67.42M	67.42M	-2.4%	-2.4%
Sustainable Energy Production	30,294.00M	-928.81M	-928.81M	-9.5%	-9.5%
Sustainable Energy Storage	1,106.11M	-87.10M	-87.10M	-12.1%	-12.1%
Sustainable Food	4,485.49M	-156.75M	-156.75M	-2.7%	-2.7%
Sustainable Mobility	3,947.17M	-208.54M	-208.54M	-8.7%	-8.7%
Sustainable Resource Management	17,372.11M	-54.40M	-54.40M	-2.7%	-2.7%
Water	22,811.97M	-196.58M	-196.58M	-2.1%	-2.1%
Wellness	3,123.50M	60.98M	60.98M	-0.5%	-0.5%

Source: WisdomTree, Morningstar, Bloomberg. All data as of 31/01/2024 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							
TECHNOLOGICAL SHIFTS		DEMOGRAPHIC AND SOCIAL SHIFTS		GEOPOLITICAL SHIFTS		ENVIRONMENTAL PRESSURES	
HYPER CONNECTIVITY & DIGITALISATION		SOCIAL SHIFTS		MULTI-POLARITY		LIMITED RESOURCES	
DISRUPTIVE TECHNOLOGIES		DEMOGRAPHIC SHIFTS		GLOBALISATION		CLIMATE CHANGE & SUSTAINABILITY	
Artificial Intelligence & Big Data	Cloud Computing	Aging Population	Education	Global Logistics	China's Rise	Decarbonisation	Agriculture & Food
Rise of China Tech		Millennials & Gen Z	Equality, Inclusion & Diversity		Political Polarisation	Protect Biodiversity	Natural Resources
Blockchain	Cybersecurity		Rise of the Middle Class		Rise of Tension	Sustainable Mobility	Water
HealthTech	Digital Health		Rise of EM Consumer		Near/Reshoring	Sustainable Energy Production	Nuclear
Industry 4.0	Digital Infrastructure		Wellness			Sustainable Energy Storage	
Next Gen Communications	Fintech & Digitalisation of Finance					Sustainable Food	
Robotics & Automation	Gaming & Entertainment					Sustainable Cities	
Semiconductors	Internet of Things					Sustainable Resource Management	
Smart Materials & Nano Tech	Metaverse					Extreme Events	
Space	Platforms & Digital Markets					Energy Transition Materials	
	Social Media & Media						

Source: WisdomTree, as of 31/12/2023

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WisdomTree European Thematic Monthly Update

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