



Active GEM Funds

Positioning Insights

September 2024

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In this month's report:

Indonesia:

Sentiment Weakens as Key Sectors and Stocks Lose Ground

Consumer Discretionary:

Key Holdings Strengthen Top Sector Overweight

Steel:

Falling Investment Pushes Sector towards Record Lows

TSMC:

Record Ownership Amid Growing Investor Caution

Copley Fund Research

September 20, 2024

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For further information on our data collection and calculation methodology, as well as how we classify fund Styles, please view the Appendices at the back of this report.

Indonesia

Sentiment Weakens as Key
Sectors and Stocks Lose Ground

Indonesia: Sentiment Weakens as Key Sectors and Stocks Lose Ground

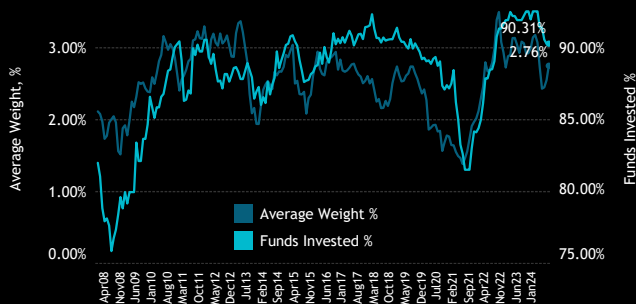
Indonesia's exposure among EM funds is beginning to taper, with 2.3% of funds closing positions and 6.3% shifting to underweight over the past six months. Although there has been a long-term rotation into Financials and out of Industrials and Communication Services, all three sectors contributed to the recent sell-off at the country level. Indonesia sits as the 8th largest country weight and the 4th largest overweight compared to the iShares MSCI EEM ETF.

At the stock level, Bank Central Asia and Bank Rakyat reached record ownership highs this year but have since faced closures by select funds, while PT Astra International and PT Telkom Indonesia approach record lows. On the positive side, we're seeing early stage ownership growth in Sumber Alfaria and Bank Syariah

On the fund level, closures have outpaced openings, led by Aubrey and BlackRock, with the majority of funds now holding allocations below 5%.

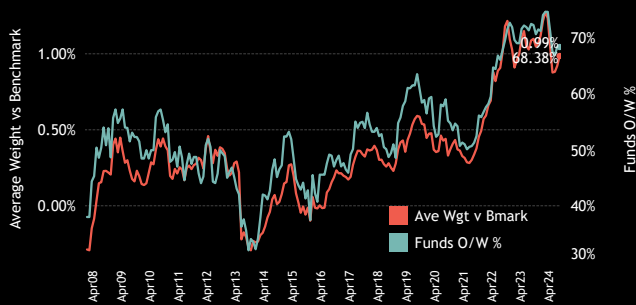
1. Average exposure to Indonesia has fallen from the highs

Indonesia: Average Fund Weight vs Funds Invested



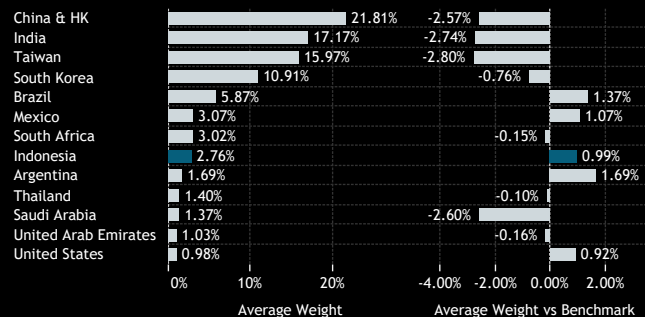
2. Versus the Benchmark, the majority are still positioned overweight.

Indonesia: Average Weight vs Benchmark, Funds Overweight %



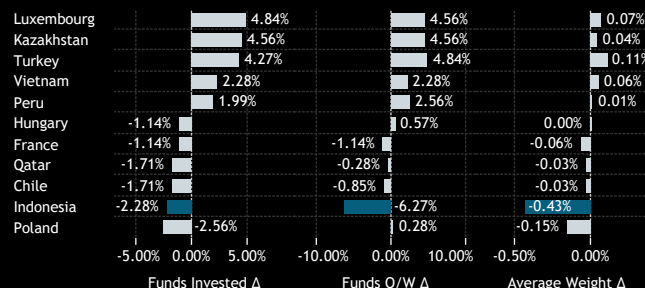
3. Indonesia is the 8th largest country weight and the 4th largest O/W.

Average Fund Weight, Average Weight vs EEM



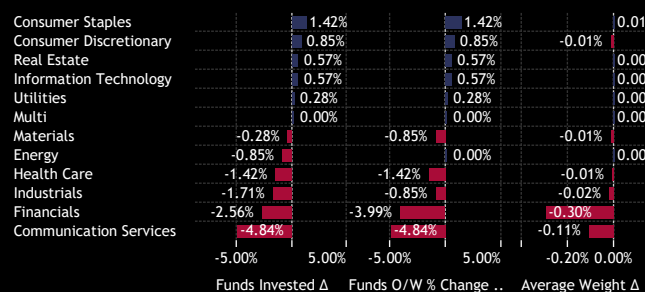
4. Indonesia suffers the 2nd largest fall in funds invested over the last 6-months, while 6.27% of funds switch to underweight.

Largest Changes funds invested, funds O/W, average weight.



5. Indonesian Communication Services led the declines, with additional contributions from Financials and Industrials.

Largest Changes in funds invested, funds O/W, average weight.



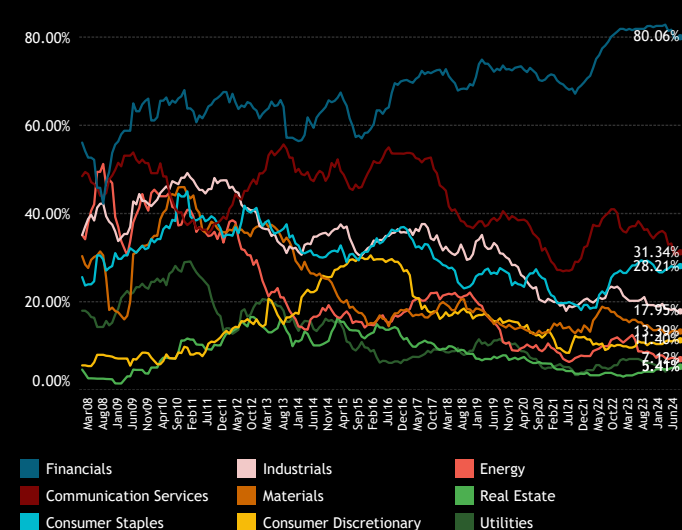
6. Momentum in Indonesia has moved to the sell-side, whilst positioning is still high compared to history.

Country Level Sentiment Grid*



5. Long-term rotation out of Industrials and Communication Services and into Financials

Percentage of Funds Invested: Key Indonesian Sectors



Source: Factset, Copley Fund Research
* Between 2/29/2024 and 8/31/2024

Indonesia: Sentiment Weakens as Key Sectors and Stocks Lose Ground

8. Key Financial stocks are showing negative momentum at the top of their positioning ranges.

Indonesia: Stock Level Sentiment Grid



9. Bank Mandiri Inflows versus Bank Rakyat fund outflows.

Indonesia: Largest Aggregate Fund Flows by Stock, \$*

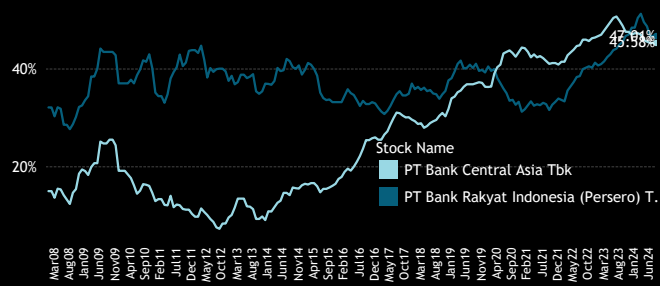
| | | |
|---------|---------------------------------|----------|
| BMRI-ID | PT Bank Mandiri (Persero) Tbk | \$186M |
| BRIS-ID | PT Bank Syariah Indonesia Tbk | \$22M |
| AMRT-ID | PT Sumber Alfaria Trijaya | \$14M |
| MAPI-ID | PT Mitra Adiperkasa Tbk | \$13M |
| BBCA-ID | PT Bank Central Asia Tbk | \$9M |
| ISAT-ID | PT Indosat Tbk Class B | \$9M |
| CMRY-ID | PT Cisarua Mountain Dairy Tbk | \$9M |
| BBNI-ID | PT Bank Negara Indonesia (Pe..) | \$8M |
| MAPA-ID | PT MAP Aktif Adiperkasa Tbk | \$8M |
| ACES-ID | PT ACE Hardware Indonesia T.. | \$8M |
| BJTM-ID | PT Bank Pembangunan Daera.. | (\$2M) |
| SMGR-ID | PT Semen Indonesia (Persero).. | (\$2M) |
| SMRA-ID | PT Summarecon Agung Tbk | (\$3M) |
| ICBP-ID | PT Indofood CBP Sukses Mak.. | (\$4M) |
| AKRA-ID | PT AKR Corporindo Tbk | (\$7M) |
| KLBF-ID | PT Kalbe Farma Tbk | (\$8M) |
| BTPS-ID | PT Bank BTPN Syariah Tbk | (\$12M) |
| ASII-ID | PT Astra International Tbk | (\$37M) |
| TLKM-ID | PT Telkom Indonesia (Persero..) | (\$41M) |
| BBRI-ID | PT Bank Rakyat Indonesia (Pe..) | (\$319M) |

Source: Factset, Copley Fund Research

* Between 2/29/2024 and 8/31/2024

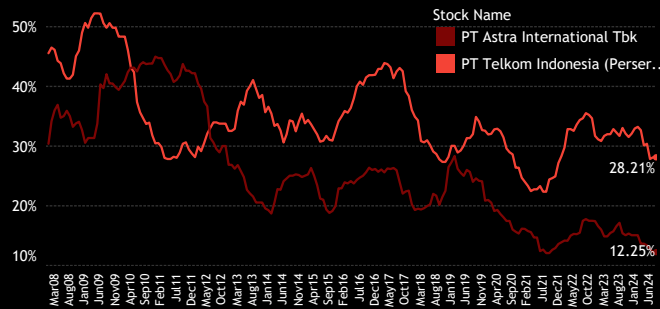
10. Bank Rakyat overtakes Bank Central Asia as most widely held stock. Both move lower from their ownership highs.

Percentage of Funds Invested: Bank Central Asia vs Bank Rakyat



11. Falling ownership for both Astra International and Telkom Indonesia

Percentage of Funds Invested: Astra International vs Telkom Indonesia



12. Early stage ownership growth in Sumber Alfaria and Bank Syariah

Percentage of Funds Invested: Sumber Alfaria vs Bank Syariah



13. Banks occupy the top 3 most widely held stocks. Only 7 stocks owned by more than 10% of funds.

Indonesia: Aggregate Stock Ownership Statistics

| Ticker | Stock Name | Funds Invested % | Average Weight % | Average Weight vs.. | Fund AUM \$ |
|---------|----------------------------|------------------|------------------|---------------------|-------------|
| BBRI-ID | PT Bank Rakyat Indonesia.. | 47.01% | 0.59% | 0.30% | \$1,942M |
| BBCA-ID | PT Bank Central Asia Tbk | 45.58% | 0.76% | 0.27% | \$4,094M |
| BMRI-ID | PT Bank Mandiri (Persero.. | 36.47% | 0.41% | 0.18% | \$2,100M |
| TLKM-ID | PT Telkom Indonesia (Per.. | 28.21% | 0.22% | 0.09% | \$729M |
| BBNI-ID | PT Bank Negara Indonesia.. | 16.52% | 0.13% | 0.06% | \$288M |
| ASII-ID | PT Astra International Tbk | 12.25% | 0.09% | 0.00% | \$497M |
| AMRT-ID | PT Sumber Alfaria Trijaya | 11.97% | 0.06% | 0.02% | \$183M |
| ICBP-ID | PT Indofood CBP Sukses .. | 9.40% | 0.04% | 0.01% | \$92M |
| INDF-ID | PT Indofood Sukses Makm.. | 7.98% | 0.04% | 0.02% | \$79M |
| UNVR-ID | PT Unilever Indonesia Tbk | 5.70% | 0.01% | -0.01% | \$12M |
| MAPI-ID | PT Mitra Adiperkasa Tbk | 5.70% | 0.03% | 0.03% | \$66M |
| KLBF-ID | PT Kalbe Farma Tbk | 5.70% | 0.03% | 0.01% | \$87M |

14. Bank Rakyat, Bank Central Asia and Bank Mandiri the drivers of the net Indonesian overweight.

Indonesia: Top overweight and underweight positions

| Ticker | Stock Name | Average Weight vs.. | Funds Invested % | Average Weight % | Fund AUM \$ |
|---------|----------------------------|---------------------|------------------|------------------|-------------|
| BBRI-ID | PT Bank Rakyat Indonesia.. | 0.30% | 47.01% | 0.59% | \$1,942M |
| BBCA-ID | PT Bank Central Asia Tbk | 0.27% | 45.58% | 0.76% | \$4,094M |
| BMRI-ID | PT Bank Mandiri (Persero.. | 0.18% | 36.47% | 0.41% | \$2,100M |
| TLKM-ID | PT Telkom Indonesia (Per.. | 0.09% | 28.21% | 0.22% | \$729M |
| BBNI-ID | PT Bank Negara Indonesia.. | 0.06% | 16.52% | 0.13% | \$288M |
| CPIN-ID | PT Charoen Pokphand Ind.. | -0.03% | 0.85% | 0.00% | \$2M |
| ADRO-ID | PT Adaro Energy Indonesi.. | -0.03% | 3.13% | 0.01% | \$32M |
| GOTO-ID | PT GoTo Gojek Tokopedi.. | -0.03% | 3.42% | 0.01% | \$15M |
| AMMN-ID | PT Amman Mineral Intern.. | -0.06% | 1.42% | 0.00% | \$4M |
| TPIA-ID | PT Chandra Asri Petroche.. | -0.06% | 0.85% | 0.00% | \$1M |

15. Ownership declines led by Telkom, Rakyat and Astra International, though all key names saw investment levels fall.

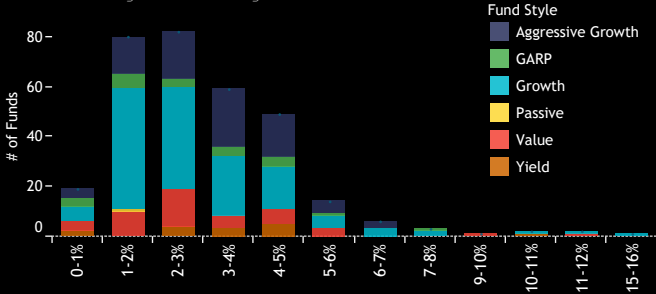
Indonesia: Largest changes in stock ownership*

| Ticker | Stock Name | Funds Invest.. | Ave Wgt % Δ | Fund Flows, \$ |
|---------|--------------------------------|----------------|-------------|----------------|
| AKRA-ID | PT AKR Corporindo Tbk | 1.71% | 0.00% | (\$7M) |
| BRIS-ID | PT Bank Syariah Indonesia Tbk | 1.14% | 0.01% | \$22M |
| TPIA-ID | PT Chandra Asri Petrochemic.. | 0.85% | 0.00% | \$1M |
| AMMN-ID | PT Amman Mineral Internasio.. | 0.85% | 0.00% | \$3M |
| GOTO-ID | PT GoTo Gojek Tokopedia Tbk | 0.57% | 0.00% | \$0M |
| AMRT-ID | PT Sumber Alfaria Trijaya | 0.57% | 0.00% | \$14M |
| BBNI-ID | PT Bank Negara Indonesia (Pe.. | -1.42% | -0.03% | \$8M |
| BTPS-ID | PT Bank BTPN Syariah Tbk | -1.71% | 0.00% | (\$12M) |
| BBCA-ID | PT Bank Central Asia Tbk | -1.99% | -0.02% | \$9M |
| ASII-ID | PT Astra International Tbk | -2.85% | -0.01% | (\$37M) |
| BBRI-ID | PT Bank Rakyat Indonesia (Pe.. | -3.70% | -0.20% | (\$319M) |
| TLKM-ID | PT Telkom Indonesia (Persero.. | -5.13% | -0.10% | (\$41M) |

Indonesia: Sentiment Weakens as Key Sectors and Stocks Lose Ground

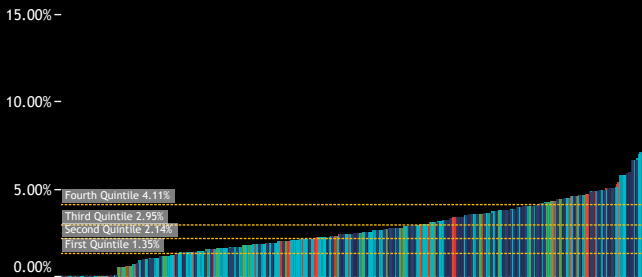
16. Holdings distribution centered between 1-5%, small # above 10%

Indonesia: Histogram of Fund Weights



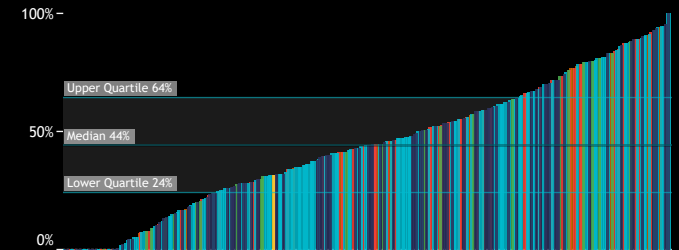
19. 80% of funds hold less than a 4.1% allocation to Indonesian Equities.

Indonesia: Distribution of Fund Weights, %



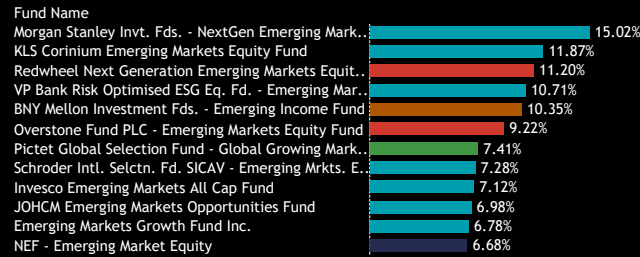
22. Not all funds are near their maximum allocation, with half showing a Z-score of 44% or less.

Indonesia: Z-Score of Fund Allocations



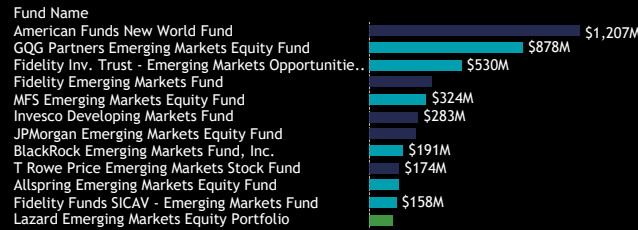
17. Growth funds among top holders, led by MS Next Gen EM Equity.

Indonesia: Top Fund Allocations, %



20. American Funds New World Fund the only strategy above \$1bn in total investment.

Indonesia: Top Fund Allocations, \$



23. Banks dominate the larger fund level positions.

Indonesia: Top stock Level Fund Allocations, %



Funds Invested Δ*

-2.28%

Average Weight Δ*

-0.43%

New Positions*

2

Closed Positions*

10

Funds Buying*

105

Funds Selling*

155

Estimated Net Fund Flows, \$*

(\$101.4M)

18. Aubrey and BlackRock among the funds to close exposure.

Indonesia: Largest Change In Fund Weight*



21. American Funds rotate out of Astra and into Mandiri.

Indonesia: Top Stock-Level Fund Inflows and Outflows, *



24. Bank Rakyat closed by Aubrey, opened by Pictet.

Indonesia: Largest Changes in Stock-Level Fund Weights, *



Source: Factset, Copley Fund Research

* Between 2/29/2024 and 8/31/2024

Consumer Discretionary

Key Holdings Strengthen
Top Sector Overweight



Consumer Discretionary: Key Holdings Strengthen Top Sector Overweight

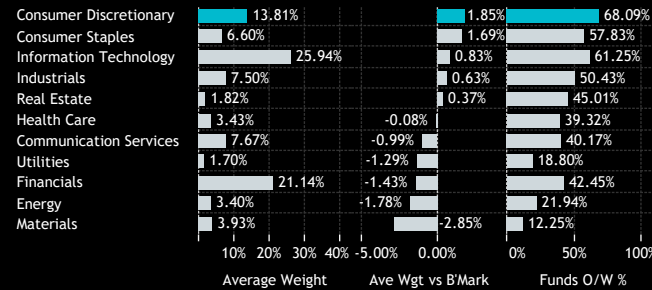
The Consumer Discretionary sector represents the largest overweight sector among active EM investors. GEM Funds are continuing to strengthen the Discretionary overweight since briefly dipping to underweight in 2020/21. All fund styles, except Yield, hold an overweight position, with Value and GARP funds leading gains against the benchmark in recent years.

The country drivers behind this shift include Argentina at peak overweight, a reduction in China underweights, and a move to overweight in South Korea. Against this, Indian Consumer Discretionary stocks have fallen to record underweights.

At the stock level, MercadoLibre ownership has hit record levels, Hyundai Motors has rebounded, and Kia Corp has reached highs. Alibaba continues to see declines. On the fund level, core allocations range between 9%-17%, with peaks above 30%, and with MercadoLibre dominating the list of high conviction positions.

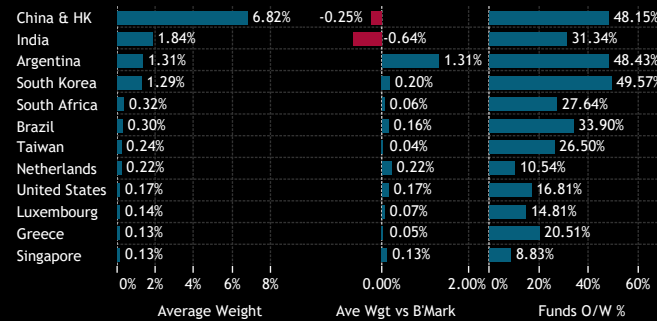
3. Consumer Discretionary is the top sector overweight, more funds positioned overweight than Technology.

Key Ownership Statistics per Sector



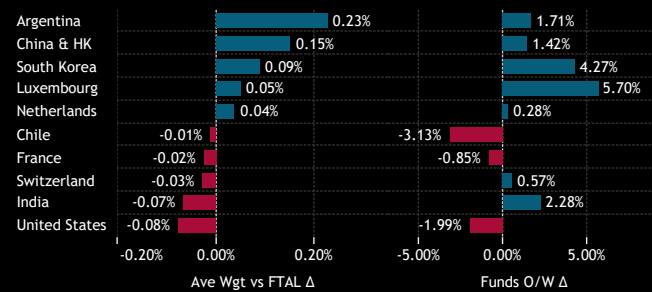
4. China the largest Discretionary country allocation. India/China net underweights versus Argentina overweight.

Consumer Discretionary: Key Ownership Statistics per Country



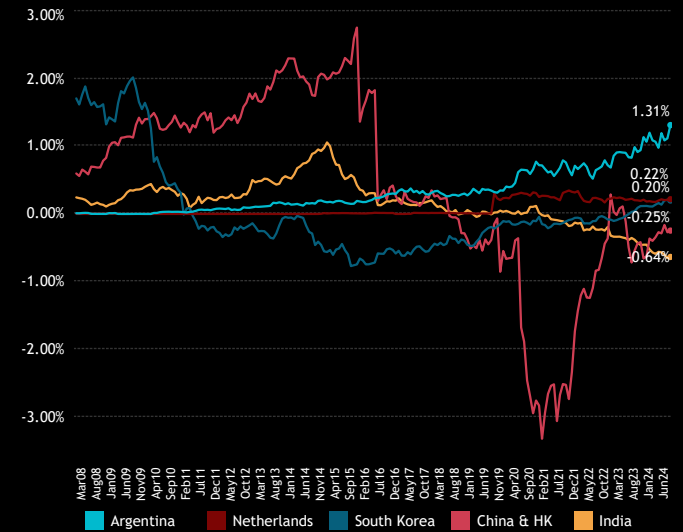
5. EM Funds increase overweights across the major Discretionary markets, led by Argentina, China & HK and South Korea

Country: Change in Ave Wgt vs EEM, Funds O/W



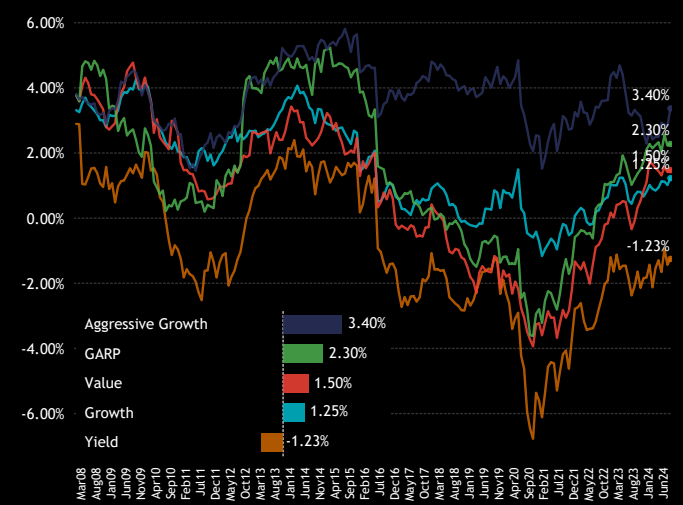
6. Argentina at peak overweight, India at peak underweight. Reduction in China underweight, South Korea moves to overweight.

Consumer Discretionary: Key Countries - Average Weight vs EEM



7. All fund styles except Yield positioned overweight. Value and GARP funds make largest gains versus benchmark in recent years.

Consumer Discretionary: Average Fund Weight vs EEM by Fund Style



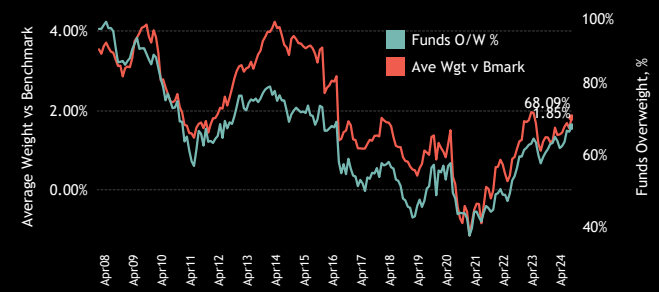
1. Stable allocations in Consumer Discretionary, range-bound since 2021.

Consumer Discretionary: Average Fund Weight



2. Average overweights are off the long-term highs, but recent activity has seen a push towards the 8-year highs.

Consumer Discretionary: Average Weight vs EEM vs Funds Overweight %

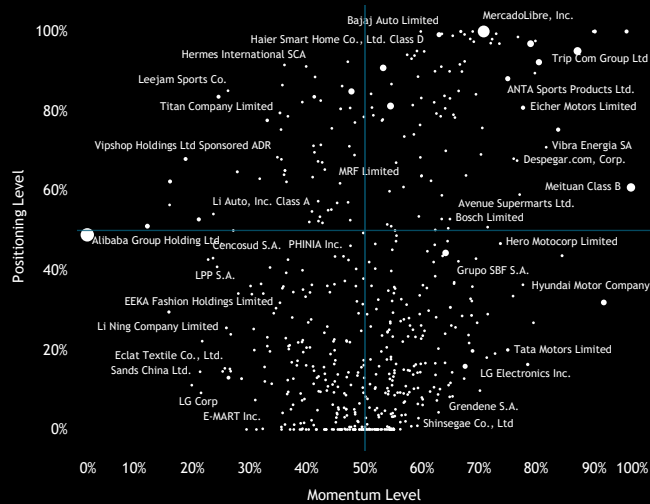


Source: Factset, Copley Fund Research
* Between 2/29/2024 and 8/31/2024

Consumer Discretionary: Key Holdings Strengthen Top Sector Overweight

8. Hyundai Motors strong positive momentum versus Alibaba extreme negative.

Consumer Discretionary: Stock Level Sentiment Grid*



9. Meituan/PDD large fund inflows, Alibaba Group Holdings big outflows.

Consumer Discretionary: Largest Aggregate Fund Flows by Stock, \$*

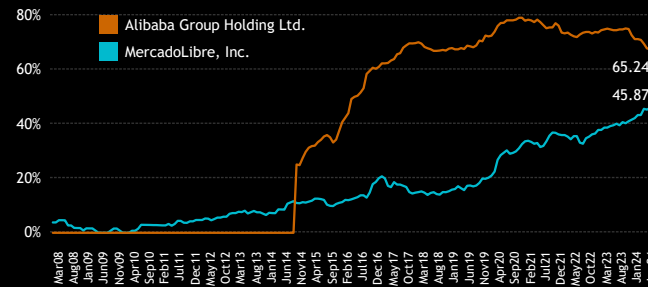


Source: Factset, Copley Fund Research

* Between 2/29/2024 and 8/31/2024

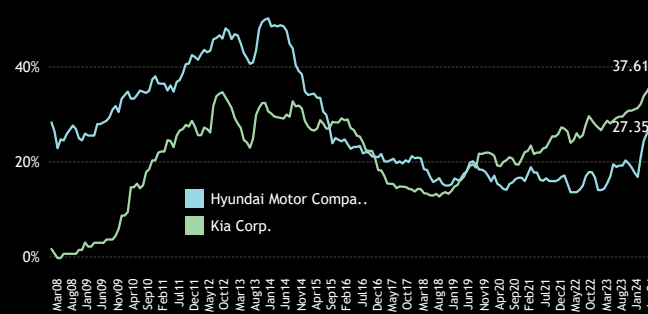
10. MercadoLibre hits record ownership, closes in on Alibaba after continued declines.

Percentage of Funds Invested: Alibaba Group Holding Ltd. & MercadoLibre, Inc.



11. Hyundai Motors recovery as Kia Corp hits record highs.

Percentage of Funds Invested: Hyundai Motor Company & Kia Corp.



12. Trip Com, Midea Group and Allegro.eu all power to record ownership levels.

Percentage of Funds Invested: Allegro, Midea Group & Trip Com



13. BABA remains most widely held, MercadoLibre takes 2nd place. Trip Com, Meituan and PDD closely matched.

Consumer Discretionary: Aggregate Stock Ownership Statistics

| Ticker | Stock Name | Funds Invested % | Average Weight % | Average Weight vs.. | Fund AUM \$ |
|-----------|----------------------------|------------------|------------------|---------------------|-------------|
| 9988-HK | Alibaba Group Holding Ltd. | 65.24% | 1.57% | -0.55% | \$5,370M |
| MELI-US | MercadoLibre, Inc. | 45.87% | 1.23% | 1.23% | \$4,999M |
| 3690-HK | Meituan Class B | 45.58% | 0.61% | -0.39% | \$3,061M |
| 9961-HK | Trip Com Group Ltd | 44.73% | 0.54% | 0.19% | \$2,094M |
| PDD-US | Pinduoduo, Inc. Sponsore.. | 42.17% | 0.41% | -0.34% | \$2,566M |
| 9618-HK | JD.com, Inc. Class A | 39.32% | 0.37% | -0.05% | \$1,168M |
| 000270-KR | Kia Corp. | 37.61% | 0.37% | 0.10% | \$1,432M |
| 000333-CN | Midea Group Co. Ltd. Cla.. | 31.91% | 0.33% | 0.31% | \$1,406M |
| 1211-HK | BYD Company Limited Cl.. | 30.48% | 0.33% | -0.09% | \$1,043M |
| 005380-KR | Hyundai Motor Company | 27.35% | 0.28% | -0.06% | \$793M |
| 500520-IN | Mahindra & Mahindra Ltd. | 25.64% | 0.39% | -0.02% | \$1,426M |
| 2020-HK | ANTA Sports Products Ltd. | 25.36% | 0.22% | 0.06% | \$508M |

14. Alibaba, Meituan and PDD the key underweights, MercadoLibre, Midea Group and Prosus the largest overweights.

Consumer Discretionary: Top overweight and underweight positions

| Ticker | Stock Name | Average Weight vs.. | Funds Invested % | Average Weight % | Fund AUM \$ |
|-----------|-----------------------------|---------------------|------------------|------------------|-------------|
| MELI-US | MercadoLibre, Inc. | 1.23% | 45.87% | 1.23% | \$4,999M |
| 000333-CN | Midea Group Co. Ltd. Cla.. | 0.31% | 31.91% | 0.33% | \$1,406M |
| PRX-NL | Prosus N.V. Class N | 0.22% | 10.26% | 0.22% | \$612M |
| 9961-HK | Trip Com Group Ltd | 0.19% | 44.73% | 0.54% | \$2,094M |
| SE-US | Sea Ltd. (Singapore) Spon.. | 0.12% | 8.26% | 0.12% | \$1,022M |
| 532500-IN | Maruti Suzuki India Limited | -0.13% | 15.10% | 0.14% | \$602M |
| 500570-IN | Tata Motors Limited | -0.19% | 13.11% | 0.10% | \$359M |
| PDD-US | Pinduoduo, Inc. Sponsore.. | -0.34% | 42.17% | 0.41% | \$2,566M |
| 3690-HK | Meituan Class B | -0.39% | 45.58% | 0.61% | \$3,061M |
| 9988-HK | Alibaba Group Holding Ltd. | -0.55% | 65.24% | 1.57% | \$5,370M |

15. Trip Com, Meituan, Midea Group and Hyundai Motors see ownership rise. Alibaba, Yadea Group and Yum China lose investors.

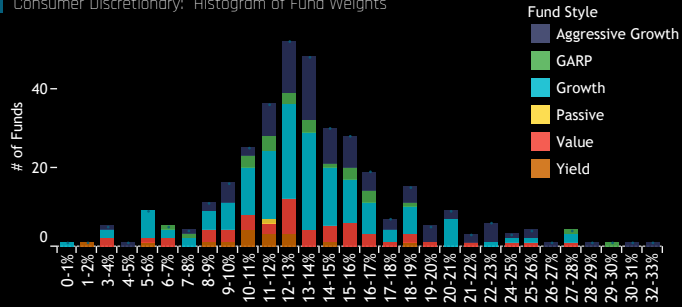
Consumer Discretionary: Largest changes in stock ownership*

| Ticker | Stock Name | Funds Invest.. | Ave Wgt % Δ | Fund Flows, \$ |
|-----------|---------------------------------|----------------|-------------|----------------|
| 9961-HK | Trip Com Group Ltd | 7.12% | 0.05% | \$152M |
| 3690-HK | Meituan Class B | 6.84% | 0.28% | \$1,103M |
| 000333-CN | Midea Group Co. Ltd. Class A | 6.27% | 0.01% | (\$292M) |
| 005380-KR | Hyundai Motor Company | 5.98% | 0.05% | \$104M |
| ALE-PL | Allegro.eu SA | 5.70% | 0.06% | \$281M |
| 000270-KR | Kia Corp. | 5.13% | -0.08% | (\$64M) |
| YDUQ3-BR | YDUQS Participacoes SA | -2.85% | -0.02% | (\$12M) |
| 532500-IN | Maruti Suzuki India Limited | -2.85% | -0.03% | \$30M |
| VIPS-US | Vipshop Holdings Ltd Sponsore.. | -2.85% | -0.12% | (\$75M) |
| YUMC-US | Yum China Holdings, Inc. | -3.42% | -0.09% | (\$475M) |
| 1585-HK | Yadea Group Holdings Ltd. | -4.27% | -0.02% | (\$21M) |
| 9988-HK | Alibaba Group Holding Ltd. | -5.70% | -0.12% | (\$1,529M) |

Consumer Discretionary: Key Holdings Strengthen Top Sector Overweight

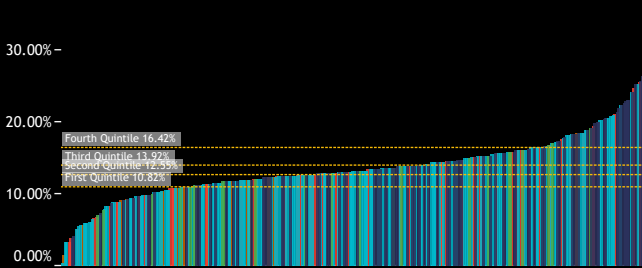
16. Core of allocations between 9%-17%, peak above 30%.

Consumer Discretionary: Histogram of Fund Weights



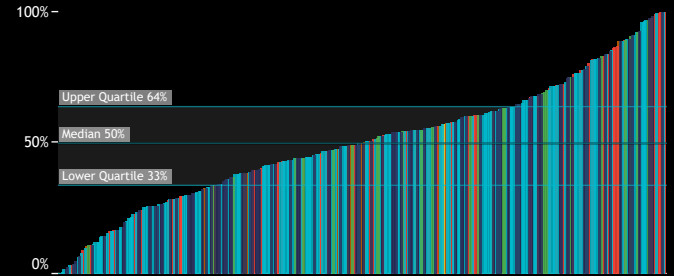
19. 60% of GEM funds hold between 10.1% and 15.8% in the Consumer Discretionary sector.

Consumer Discretionary: Distribution of Fund Weights, %



22. Historical exposure on a fund-level spread evenly across the universe.

Consumer Discretionary: Z-Score of Fund Allocations



17. Top holders span the Style groups, led by Aubrey Global EM.

Consumer Discretionary: Top Fund Allocations, %

| Fund Name | Allocation (%) |
|--|----------------|
| Aubrey Capital Mgmt. Access Fund - Global EM Opp.. | 32.80% |
| Morgan Stanley Invnt. Fds. - Developing Opportunity | 30.59% |
| Coronation Global Opportunities Fund - Global Eme.. | 29.19% |
| Morgan Stanley Invnt. Fds. - Emerging Leaders Equit.. | 28.96% |
| Pro Fonds (Lux) - Emerging Markets Fund | 27.90% |
| Sanlam Universal Fds. Plc - Global Emerging Market.. | 27.85% |
| First Sentier Invnts ICVC - FSSA Global Emerging Mar.. | 27.61% |
| Carmignac Emergents | 27.26% |
| Alquity SICAV - Future World Fund | 26.30% |
| McInroy & Wood Emerging Markets Fund | 25.67% |
| Robeco Capital Gr. Fds. - Sustainable Emerging Sta.. | 25.33% |
| East Capital - Global Emerging Markets Sustainable | 25.30% |

20. American Fund New World tops the AUM list. 5 Funds above \$1bn.

Consumer Discretionary: Top Fund Allocations, \$

| Fund Name | AUM (\$) |
|---|----------|
| American Funds New World Fund | \$6,893M |
| Fidelity Inv. Trust - Emerging Markets Opportunitie.. | \$3,348M |
| Invesco Developing Markets Fund | \$2,753M |
| St. James's Place Unit Trust - Emerging Markets Eq.. | \$1,052M |
| JPMorgan Emerging Markets Equity Fund | \$1,032M |
| Fidelity Emerging Markets Fund | \$914M |
| Artisan Developing World Fund | \$884M |
| Hartford Schroders Emerging Markets Equity Fund | \$800M |
| T Rowe Price Emerging Markets Stock Fund | \$782M |
| MFS Emerging Markets Equity Fund | \$777M |
| Fidelity Series Emerging Markets Fund | \$743M |
| GQG Partners Emerging Markets Equity Fund | \$720M |

23. MercadoLibre dominates the list of large fund-level positions.

Consumer Discretionary: Top stock Level Fund Allocations, %

| Fund Name | Stock Name | Allocation (%) |
|--|----------------------------|----------------|
| Morgan Stanley Invnt. Fds. - Emerging.. | MercadoLibre, Inc. | 9.52% |
| Morgan Stanley Invnt. Fds. - Developi.. | MercadoLibre, Inc. | 8.94% |
| Wasatch Emerging Markets Select Fu.. | MercadoLibre, Inc. | 8.63% |
| Quilter Investors OIC - Emerging Ma.. | MercadoLibre, Inc. | 8.50% |
| Jupiter Asset Mgmt. Series Plc - Glob.. | MercadoLibre, Inc. | 8.49% |
| Jupiter Global Emerging Markets Fund | MercadoLibre, Inc. | 8.46% |
| Wasatch Emerging Markets Small Ca.. | Trent Limited | 8.34% |
| First Sentier Investors ICVC - Steward.. | Mahindra & Mahindra Ltd. | 7.55% |
| Flossbach von Storch - Global Emergi.. | MercadoLibre, Inc. | 7.42% |
| Artisan Developing World Fund | MercadoLibre, Inc. | 7.28% |
| Amundi Funds Emerging Markets Equ.. | Alibaba Group Holding Ltd. | 7.25% |
| Touchstone Strategic Trust - Sands C.. | MercadoLibre, Inc. | 6.98% |

| Funds Invested Δ* | Average Weight Δ* | # New Positions* | # Closed Positions* | # Funds Buying* | # Funds Selling* | Estimated Net Fund Flows, \$* |
|-------------------|-------------------|------------------|---------------------|-----------------|------------------|-------------------------------|
| 0.00% | -0.24% | 0 | 0 | 130 | 165 | \$56.7M |

18. Aubrey cuts exposure, Mobius and Cullen raise.

Consumer Discretionary: Largest Change in Fund Weight*

| Fund Name | New or.. | Change (%) |
|---|----------|------------|
| Mobius SICAV - Emerging Markets Fund | New | 17.19% |
| Cullen Emerging Markets High Dividend Fund | New | 9.65% |
| BNY Mellon Investment Fds. - Global Emergen.. | New | 6.72% |
| Janus Henderson Emerging Markets Fund | New | 6.07% |
| PGIM Jennison Emerging Markets Equity Opp.. | New | 5.95% |
| Amonis Equity Emerging Markets | New | 5.43% |
| BNY Mellon Global Emerging Markets Fund | New | 5.37% |
| DWS Invest - ESG Global Emerging Markets E.. | New | 5.05% |
| MassMutual Premier Strategic Emerging Mark.. | New | -4.77% |
| UBS (Lux) Equity Fund - Emerging Markets Su.. | New | -4.88% |
| Matthews Emerging Markets Equity Fund | New | -5.01% |
| T Rowe Price Emerging Markets Stock Fund | New | -5.42% |
| Nuveen Emerging Markets Equity Fund | New | -5.71% |
| Morgan Stanley Invnt. Fds. - Emerging Leaders.. | New | -6.58% |
| BlackRock Strategic Fds. - Emerging Markets .. | New | -7.41% |
| Aubrey Capital Mgmt. Access Fund - Global E.. | New | -7.56% |

21. Invesco sells CFR, buys PDD. Fidelity close BABA, open JD.Com.

Consumer Discretionary: Top Stock-Level Fund Inflows and Outflows, \$

| Fund Name | Stock Name | New .. | Change (\$) |
|------------------------------------|-------------------------|--------|-------------|
| GQG Partners Emerging Markets E.. | Pinduoduo, Inc. Spon.. | New | \$325M |
| American Funds New World Fund | Meituan Class B | New | \$264M |
| Invesco Developing Markets Fund | Meituan Class B | New | \$227M |
| Invesco Developing Markets Fund | Pinduoduo, Inc. Spon.. | New | \$176M |
| American Funds New World Fund | Trip Com Group Ltd | New | \$159M |
| Fidelity Emerging Markets Fund | JD.com, Inc. Class A | New | \$132M |
| American Funds New World Fund | Hilton Worldwide Hol.. | New | \$128M |
| American Funds New World Fund | Compagnie Financier.. | New | \$126M |
| Fidelity Advisor Focused Emergin.. | Alibaba Group Holdin.. | Close | (\$101M) |
| American Funds New World Fund | Marriott Internationa.. | Close | (\$126M) |
| American Funds New World Fund | Alibaba Group Holdin.. | Close | (\$155M) |
| Fidelity Emerging Markets Fund | Alibaba Group Holdin.. | Close | (\$167M) |
| American Funds New World Fund | Midea Group Co. Ltd.. | Close | (\$185M) |
| American Funds New World Fund | Hermes Internationa.. | Close | (\$208M) |
| Invesco Developing Markets Fund | Yum China Holdings, .. | Close | (\$281M) |
| Invesco Developing Markets Fund | Compagnie Financier.. | Close | (\$315M) |

24. TT & Mobius up MercadoLibre stakes.

Consumer Discretionary: Largest Changes in Stock-Level Fund Weights, %

| Fund Name | Stock Name | New o.. | Change (%) |
|---------------------------------------|-------------------------|---------|------------|
| Mobius SICAV - Emerging Markets .. | MercadoLibre, Inc. | New | 6.22% |
| TT International Funds Plc - Sustai.. | MercadoLibre, Inc. | New | 4.91% |
| PGIM Jennison Emerging Markets E.. | Meituan Class B | New | 4.69% |
| Fisher Invnts. EM. Mrkts. Eq. Respo.. | Alibaba Group Holdin.. | New | 4.38% |
| TT International Funds Plc - Emer.. | MercadoLibre, Inc. | New | 4.11% |
| Cullen Emerging Markets High Divi.. | Hyundai Motor Comp.. | New | 3.90% |
| Virtus Emerging Markets Opportun.. | Tata Motors Limited | New | 3.85% |
| Mobius SICAV - Emerging Markets .. | Yum China Holdings, .. | New | 3.68% |
| Morgan Stanley Invnt. Fds. - Emergi.. | BYD Company Limite.. | Close | -3.41% |
| Baillie Gifford Overseas Growth Fu.. | Alibaba Group Holdin.. | Close | -3.56% |
| Fisher Invnts. EM. Mrkts. Eq. Respo.. | MercadoLibre, Inc. | Close | -3.74% |
| Morgan Stanley Invnt. Fds. - Emergi.. | Shenzhen Internation.. | Close | -3.74% |
| Morgan Stanley Invnt. Fds. - NextG.. | LPP S.A. | Close | -3.96% |
| East Capital - Global Emerging Ma.. | Vipshop Holdings Ltd .. | Close | -4.03% |
| Virtus NFJ Emerging Markets Valu.. | Li Ning Company Limi.. | Close | -4.10% |
| Aubrey Capital Mgmt. Access Fund.. | New Oriental Educati.. | Close | -5.18% |

Source: Factset, Copley Fund Research

* Between 2/29/2024 and 8/31/2024

Steel

Falling Investment Pushes Sector
Towards Record Lows

Steel: Falling Investment Pushes Sector towards Record Lows

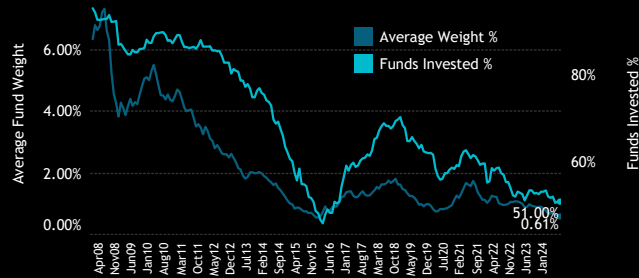
The EM Steel sector is nearing record lows in both average exposure and fund ownership. With 87% of active EM investors now positioned below the benchmark index, Steel now ranks as the fourth-largest industry underweight among EM funds, as Value and Yield funds move to their lowest ownership levels on record.

On a stock level, underweights are led by Vale, POSCO, and Tata Steel, while ownership in Gerdau and Vale continues to fall. Of the larger companies, only Kumba Iron Ore and Ternium have maintained a stable base of investors.

At the fund level, Value funds are among the top holders, led by the PIMCO RAE EM Fund, but most holders opt for a 2% stake or lower. Selling pressure over the past 6-months is clear, with significant outflows in Vale from New World, GQG, and Invesco. Over the past six months, there have been 17 closures compared to just 8 opens, alongside more sellers than buyers.

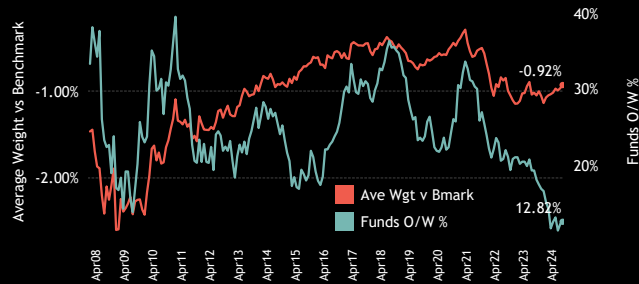
1. Average exposure and fund ownership levels in the EM Steel sector approaches all-time lows.

Steel: Average Fund Weight vs Funds Invested %



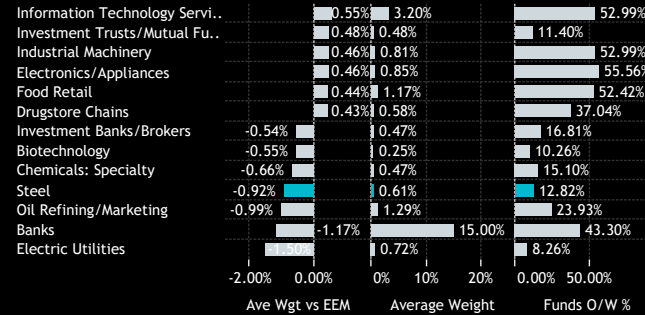
2. A structural underweight for active EM investors, a record 87% of funds are positioned below the benchmark.

Steel: Average Fund Weight vs EEM, Funds Overweight %



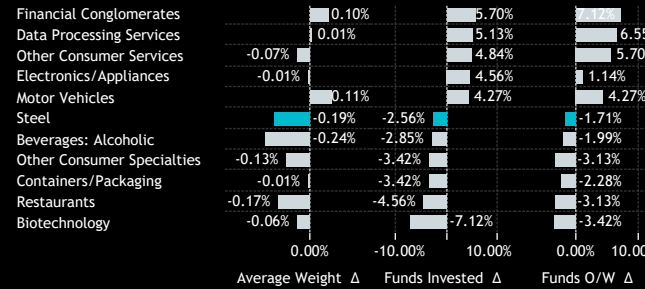
3. Steel is the 4th largest Industry level underweight among EM funds.

EM Industry Groups: Key Fund Ownership Statistics



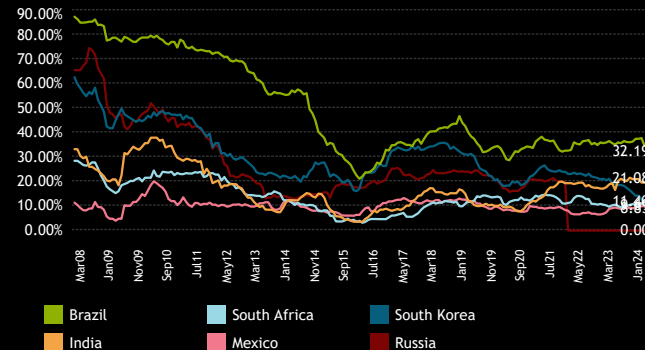
4. Steel among the losers over the last 6-months, with all ownership metrics moving lower.

Industry Groups: Change in Average Weight, Funds Invested, Funds O/W*



5. Brazil, South Korea and Russia responsible for the long-term declines. India moves ahead of South Korea

Steel Industry: Funds Invested by ICountry



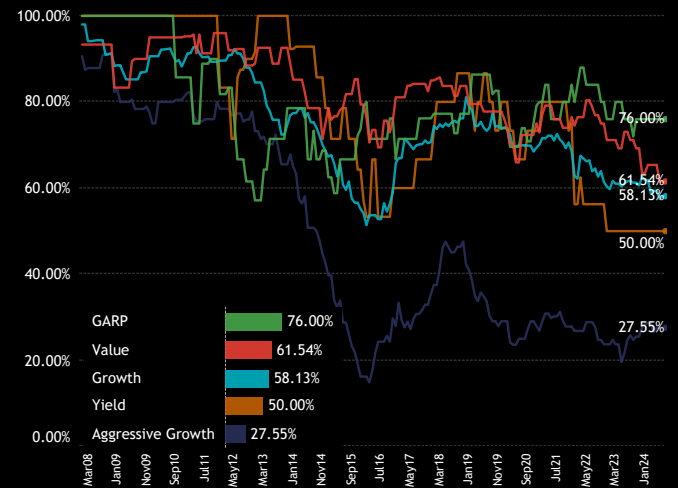
6. The Steel Industry is positioned at the extreme low ends of both the Momentum and Positioning axes.

Industry Level Sentiment Grid*



7. Aggressive Growth exodus started in 2013, Value and Yield funds at lowest ownership levels on record.

Steel: Percentage of Funds Invested by Fund Style



Source: Factset, Copley Fund Research
* Between 2/29/2024 and 8/31/2024

Steel: Falling Investment Pushes Sector towards Record Lows

8. Poor sentiment for the major names in the Industry, combining negative manager momentum and low positioning.

Steel: Stock Level Sentiment Grid*



9. Indian names see inflows, sizeable outflows for Vale S.A

Steel: Largest Aggregate Fund Flows by Stock, \$*

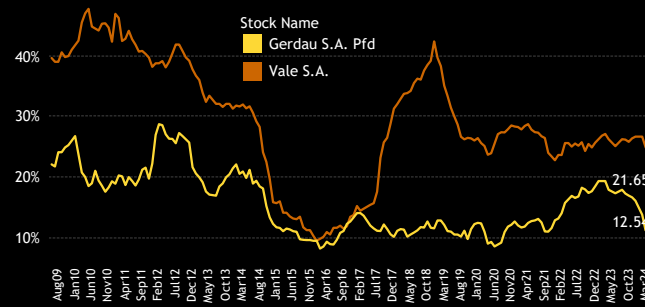


Source: Factset, Copley Fund Research

* Between 2/29/2024 and 8/31/2024

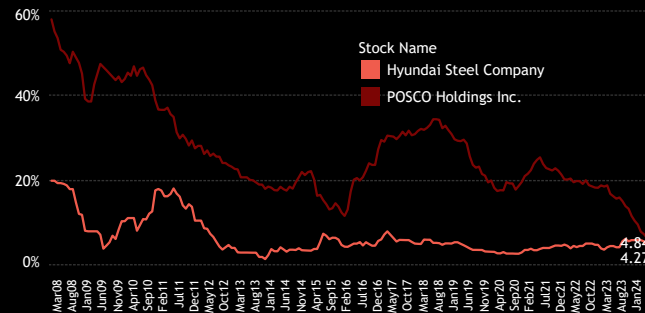
10. Gerdau and Vale ownership levels track lower.

Percentage of Funds Invested: Gerdau S.A. Pfd & Vale S.A.



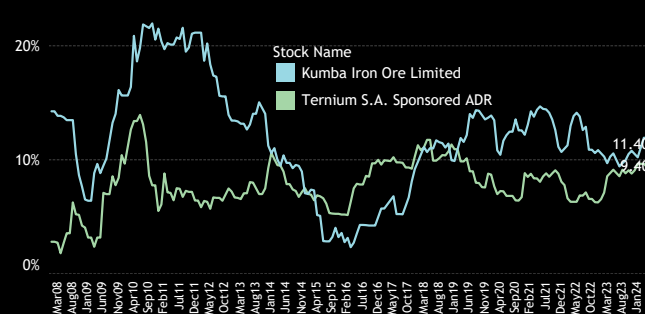
11. Little appetite for POSCO or Hyundai Steel exposure.

Percentage of Funds Invested: Hyundai Steel Company & POSCO Holdings Inc.



12. Kumba Iron Ore and Ternium maintain stable ownership bases.

Percentage of Funds Invested: Kumba Iron Ore Limited & Ternium S.A. Sponsored ADR



13. Vale the most widely owned stock - only 3 stocks owned by more than 10% of funds.

Steel: Aggregate Stock Ownership Statistics

| Ticker | Stock Name | Funds Invested % | Average Weight % | Average Weight vs.. | Fund AUM \$ |
|-----------|------------------------------|------------------|------------------|---------------------|-------------|
| VALE3-BR | Vale S.A. | 21.65% | 0.17% | -0.30% | \$1,353M |
| GGBR4-BR | Gerdau S.A. Pfd | 12.54% | 0.05% | -0.01% | \$254M |
| KIO-ZA | Kumba Iron Ore Limited | 11.40% | 0.04% | 0.02% | \$80M |
| TX-US | Ternium S.A. Sponsored .. | 9.40% | 0.07% | 0.07% | \$107M |
| 500470-IN | Tata Steel Limited | 8.55% | 0.03% | -0.15% | \$275M |
| 005490-KR | POSCO Holdings Inc. | 4.84% | 0.03% | -0.21% | \$75M |
| 600019-CN | Baoshan Iron & Steel Co., .. | 4.56% | 0.02% | 0.00% | \$23M |
| 004020-KR | Hyundai Steel Company | 4.27% | 0.01% | -0.02% | \$13M |
| 540762-IN | Tube Investments of Indi.. | 3.99% | 0.03% | -0.04% | \$108M |
| 533758-IN | APL Apollo Tubes Limited | 3.99% | 0.03% | -0.01% | \$220M |
| 500228-IN | JSW Steel Limited | 3.70% | 0.01% | -0.08% | \$234M |
| 532286-IN | Jindal Steel & Power Ltd. | 3.42% | 0.01% | -0.04% | \$250M |

14. Steel underweight driven by Vale, POSCO and Tata Steel

Steel: Top overweight and underweight positions

| Ticker | Stock Name | Average Weight vs.. | Funds Invested % | Average Weight % | Fund AUM \$ |
|-----------|---------------------------|---------------------|------------------|------------------|-------------|
| TX-US | Ternium S.A. Sponsored .. | 0.07% | 9.40% | 0.07% | \$107M |
| TEN-IT | Tenaris S.A. | 0.02% | 3.13% | 0.02% | \$132M |
| KIO-ZA | Kumba Iron Ore Limited | 0.02% | 11.40% | 0.04% | \$80M |
| HPG-VN | Hoa Phat Group JSC | 0.01% | 1.71% | 0.01% | \$36M |
| 500378-IN | Jindal Saw Limited | 0.01% | 3.13% | 0.01% | \$16M |
| 500228-IN | JSW Steel Limited | -0.08% | 3.70% | 0.01% | \$234M |
| 2002-TW | China Steel Corporation | -0.11% | 1.71% | 0.00% | \$7M |
| 500470-IN | Tata Steel Limited | -0.15% | 8.55% | 0.03% | \$275M |
| 005490-KR | POSCO Holdings Inc. | -0.21% | 4.84% | 0.03% | \$75M |
| VALE3-BR | Vale S.A. | -0.30% | 21.65% | 0.17% | \$1,353M |

15. Vale leads the falls in ownership over the last 6-months, followed by POSCO and Hyundai Steel.

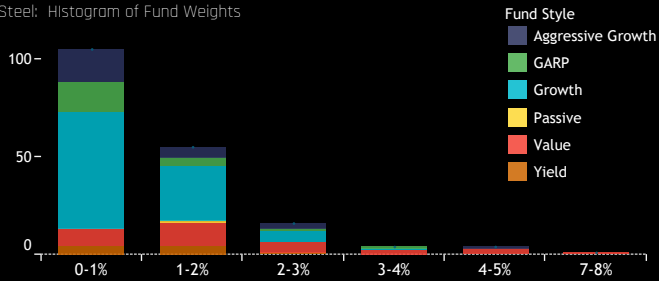
Steel: Largest changes in stock ownership*

| Ticker | Stock Name | Funds Invested.. | Ave Wgt % Δ | Fund Flows, \$ |
|-----------|---------------------------------|------------------|-------------|----------------|
| 002756-CN | Yongxing Special Materials Te.. | 0.85% | 0.00% | \$1M |
| 500470-IN | Tata Steel Limited | 0.85% | 0.00% | \$70M |
| 532286-IN | Jindal Steel & Power Ltd. | 0.57% | 0.00% | \$107M |
| CAP-CL | CAP S.A. | 0.57% | 0.00% | \$1M |
| 1320-SA | Saudi Steel Pipe Co. | 0.57% | 0.00% | \$1M |
| 532508-IN | Jindal Stainless Limited | 0.57% | 0.00% | (\$5M) |
| BHP-AU | BHP Group Ltd | -0.85% | -0.01% | (\$6M) |
| GGBR4-BR | Gerdau S.A. Pfd | -1.42% | -0.01% | (\$7M) |
| CSNA3-BR | Companhia Siderurgica Nacio.. | -1.42% | -0.01% | (\$2M) |
| 004020-KR | Hyundai Steel Company | -1.71% | -0.01% | (\$18M) |
| 005490-KR | POSCO Holdings Inc. | -3.13% | -0.03% | (\$30M) |
| VALE3-BR | Vale S.A. | -5.13% | -0.08% | (\$328M) |

Steel: Falling Investment Pushes Sector towards Record Lows

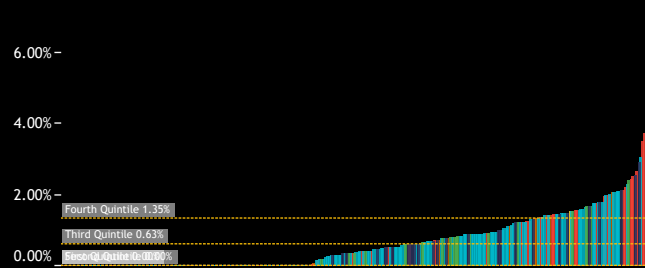
16. Most holders own less than a 2% stake.

Steel: Histogram of Fund Weights



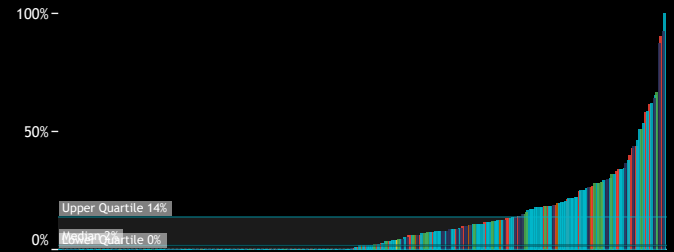
19. 80% of funds hold less than a 1.35% allocation to the Steel sector.

Steel: Distribution of Fund Weights, %



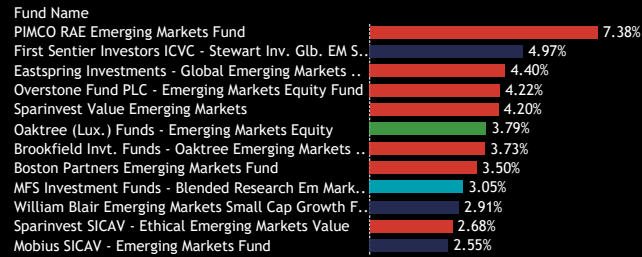
22. Extremely low individual fund level position compared to historical levels.

Taiwan Semiconductor Manufacturing Co., Ltd.: Z-Score of Fund Allocations



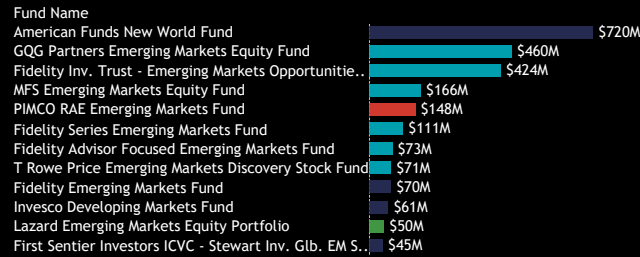
17. Value funds among the top holders, led by the PIMCO RAE EM Fund.

Steel: Top Fund Allocations, %



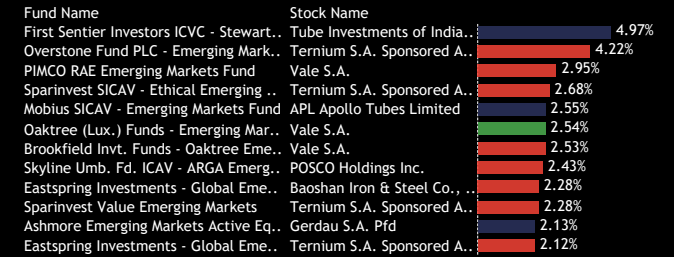
20. Amercian Funds, GQG and Fidelity top the AUM list.

Steel: Top Fund Allocations, \$



23. Vale and Ternium prominent among the larger fund positions.

Steel: Top stock Level Fund Allocations, %



| Funds Invested Δ* | Average Weight Δ* | # New Positions* | # Closed Positions* | # Funds Buying* | # Funds Selling* | Estimated Net Fund Flows, \$* |
|-------------------|-------------------|------------------|---------------------|-----------------|------------------|-------------------------------|
| -2.56% | -0.19% | 8 | 17 | 55 | 97 | (\$103.4M) |

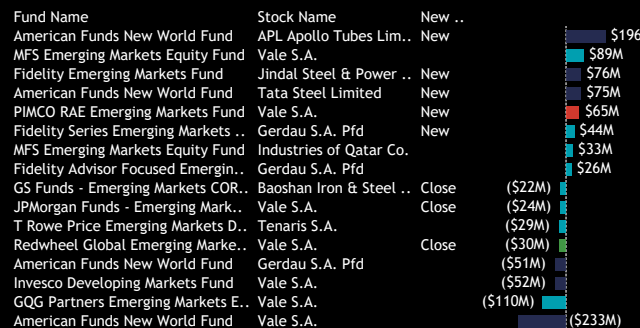
18. 17 closures vs 8 opens over the last 6-months, together with an excess of sellers over buyers.

Steel: Largest Opening and Closing Positions*



21. Size selling in Vale from New World, GQG and Invesco

Steel: Top Stock-Level Fund Inflows and Outflows, *



24. Two-way action in Vale despite the aggregate fall in ownership.

Steel: Largest Changes in Stock-Level Fund Weights, *



Source: Factset, Copley Fund Research

* Between 2/29/2024 and 8/31/2024

Taiwan Semiconductor Manufacturing Co., Ltd.

Record Ownership Amid
Growing Investor Caution

TSMC: Record Ownership Amid Growing Investor Caution

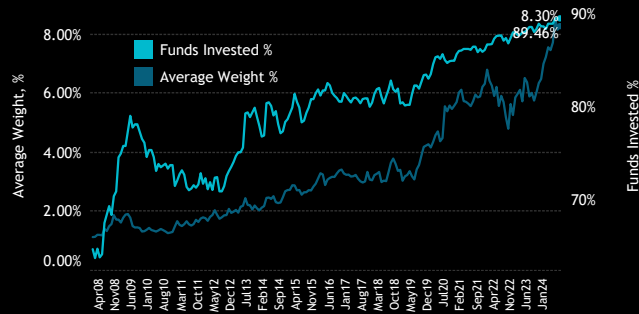
Absolute exposure levels in TSMC have reached all-time highs this month. At an average portfolio weight of 8.3%, TSMC now accounts for 65% of the total Semiconductor allocation among active EM funds. However, investor caution is starting to surface, with 13.4% of funds shifting to an underweight stance in the last six months, driving the net underweight to a 15-year low of -1.21%.

Value, Yield, and GARP funds have moved to record underweights, while Growth investors have shifted from overweight to underweight through 2024. This trend contrasts with rising ownership in SK Hynix and MediaTek, where more funds are now overweight compared to TSMC.

Despite this caution, it would be wrong to suggest that investors are bearish on TSMC. In fact, 60% of funds hold stakes between 8% and 11%. However, outward rotation has been evident, with net outflows of \$3 billion over the past six months, led by Invesco, JP Morgan, and MFS, and with four times more sellers than buyers.

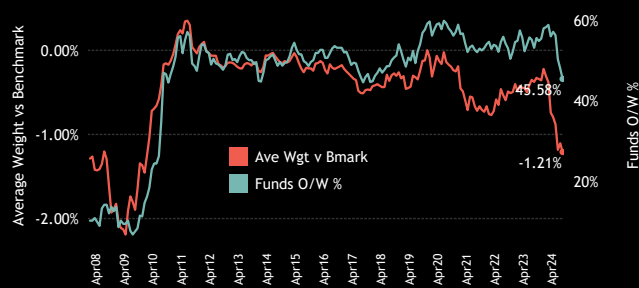
1. TSMC average weight and funds invested at all-time highs.

Taiwan Semiconductor Manufacturing Co., Ltd.: Average Fund Weight vs Funds Invested



2. Versus the benchmark, some active EM funds close overweights - net underweight moves to 15-year high.

Taiwan Semiconductor Manufacturing Co., Ltd.: Average Weight vs EEM, Funds O/W



3. TSMC accounts for 65% of the total EM Semiconductor allocation.

Semiconductors: Aggregate Stock Ownership Statistics

| Ticker | Stock Name | Funds Invested % | Average Weight % | Average Weight v.. | Fund AUM \$ |
|-----------|---------------------------------|------------------|------------------|--------------------|-------------|
| 2330-TW | Taiwan Semiconductor Manuf.. | 89.46% | 8.30% | -1.21% | \$36,645M |
| 000660-KR | SK hynix Inc. | 62.39% | 1.31% | 0.38% | \$4,933M |
| 2454-TW | MediaTek Inc | 61.82% | 1.08% | 0.31% | \$3,967M |
| 3711-TW | ASE Technology Holding Co., ... | 24.22% | 0.26% | 0.05% | \$1,033M |
| 3034-TW | Novatek Microelectronics Corp. | 18.23% | 0.12% | -0.01% | \$380M |
| 2379-TW | Realtek Semiconductor Corp | 18.23% | 0.12% | 0.01% | \$307M |
| 2303-TW | United Microelectronics Corp. | 15.10% | 0.11% | -0.15% | \$241M |
| 5274-TW | ASPEED Technology, Inc. | 13.96% | 0.20% | 0.20% | \$524M |
| 300274-CN | Sungrow Power Supply Co., L.. | 12.54% | 0.11% | 0.09% | \$182M |
| 6415-TW | Silergy Corp. | 12.25% | 0.12% | 0.05% | \$398M |
| ASML-NL | ASML Holding NV | 11.68% | 0.19% | 0.19% | \$1,919M |
| 3529-TW | eMemory Technology, Inc. | 11.11% | 0.07% | 0.00% | \$508M |
| 968-HK | Xinyi Solar Holdings Ltd. | 9.97% | 0.03% | 0.01% | \$125M |

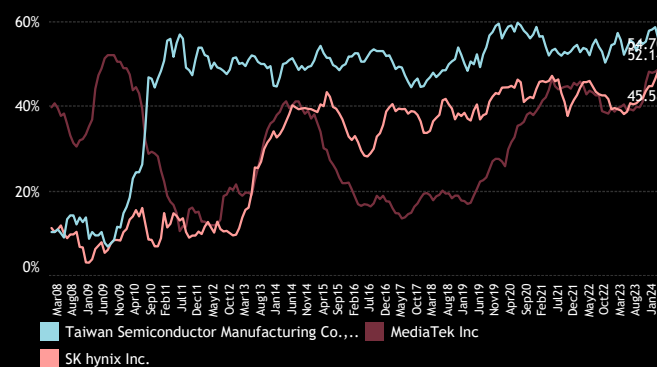
4. Over the last 6-months, 13.4% of funds have switched to underweight, while ownership grows in MediaTek and SK Hynix

Semiconductors: Largest changes in stock ownership*

| Ticker | Stock Name | Funds O/W Δ | Funds Invested % Δ | Fund Flows, \$ |
|-----------|--------------------------------|-------------|--------------------|----------------|
| 2454-TW | MediaTek Inc | 6.27% | 7.41% | \$431M |
| 000660-KR | SK hynix Inc. | 5.41% | 7.69% | (\$308M) |
| 2379-TW | Realtek Semiconductor Corp | 3.13% | 3.42% | \$48M |
| 2458-TW | ELAN Microelectronics Corp. | 2.28% | 2.28% | \$16M |
| 5274-TW | ASPEED Technology, Inc. | 2.28% | 2.28% | \$46M |
| 009150-KR | Samsung Electro-Mechanics C.. | 1.99% | 2.85% | \$23M |
| 000990-KR | DB HiTek Co. LTD | -1.14% | -1.14% | (\$4M) |
| 3035-TW | Faraday Technology Corp. | -1.71% | -1.71% | (\$6M) |
| 3443-TW | Global Unichip Corp. | -2.56% | -3.13% | (\$106M) |
| 601012-CN | LONGi Green Energy Technol.. | -2.56% | -2.85% | (\$13M) |
| 2303-TW | United Microelectronics Corp. | -3.13% | -3.42% | (\$27M) |
| 3034-TW | Novatek Microelectronics Corp. | -3.99% | -3.99% | (\$129M) |
| 2330-TW | Taiwan Semiconductor Manuf.. | -13.39% | 1.14% | (\$3,005M) |

5. More funds now positioned overweight in SK Hynix and MediaTek than in TSMC.

Top 3 Semiconductor Stocks: Funds O/W %



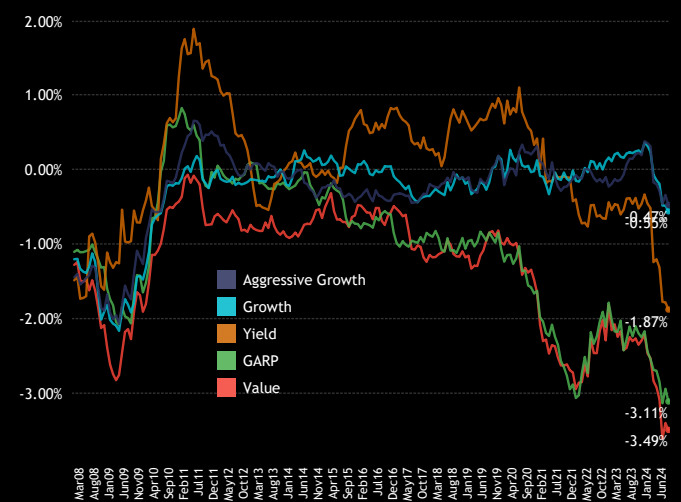
6. Combined ownership metrics stall for TSMC, positioning remains elevated.

Semiconductor Sector: Stock Level Sentiment Grid*



7. Value, Yield and GARP funds move to record underweights, Growth investors switch from overweight to underweight on average.

Taiwan Semiconductor Manufacturing Co., Ltd.: Average Weight vs EEM by Fund Style



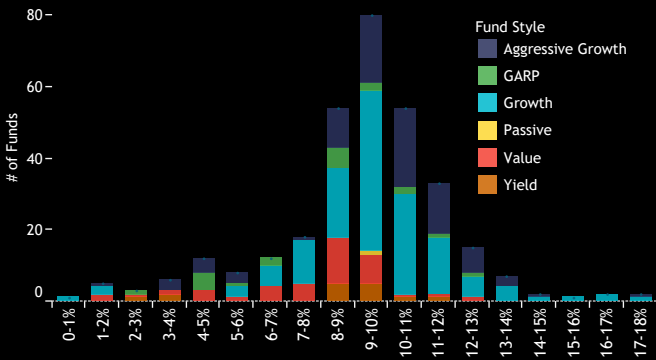
Source: Factset, Copley Fund Research
* Between 2/29/2024 and 8/31/2024



TSMC: Record Ownership Amid Growing Investor Caution

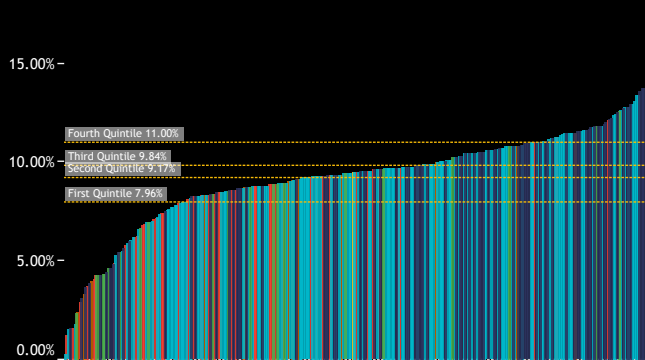
8. Most investors hold between 8%-12%, with tail extending to 18%.

Taiwan Semiconductor Manufacturing Co., Ltd.: Histogram of Fund Weights



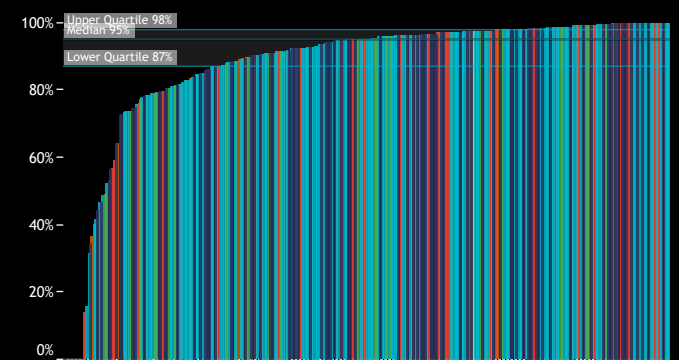
9. 60% of the investor base has between a 8% and 11% weight in TSMC.

Taiwan Semiconductor Manufacturing Co., Ltd.: Distribution of Fund Weights, %



10. Most funds are at or near historical high exposure in TSMC.

Taiwan Semiconductor Manufacturing Co., Ltd.: Z-Score of Fund Allocations



Funds Invested Δ*

Average Weight Δ*

New Positions*

Closed Positions*

Funds Buying*

Funds Selling*

Estimated Net Fund Flows, \$*

1.14%

1.05%

4

0

50

203

(\$3,005.0M)

11. Large dollar investments from Fidelity EM Opps, American Funds New World and GQG.

Taiwan Semiconductor Manufacturing Co., Ltd.: Top Fund Allocations, \$

| Fund Name | Allocation (\$) |
|---|-----------------|
| Fidelity Inv. Trust - Emerging Markets Opportunitie.. | \$2,693M |
| American Funds New World Fund | \$2,302M |
| GQG Partners Emerging Markets Equity Fund | \$2,244M |
| Invesco Developing Markets Fund | \$2,122M |
| Fidelity Emerging Markets Fund | \$1,190M |
| Delaware Emerging Markets Fund | \$915M |
| JPMorgan Emerging Markets Equity Fund | \$784M |
| MFS Emerging Markets Equity Fund | \$747M |
| Hartford Schroders Emerging Markets Equity Fund | \$726M |
| T Rowe Price Emerging Markets Stock Fund | \$682M |
| Fidelity Series Emerging Markets Fund | \$628M |
| Schroder ISF - Emerging Markets | \$591M |
| BlackRock Emerging Markets Fund, Inc. | \$549M |
| Allspring Emerging Markets Equity Fund | \$456M |
| St. James's Place Unit Trust - Emerging Markets Eq.. | \$440M |
| Fidelity Advisor Focused Emerging Markets Fund | \$435M |
| Baron Emerging Markets Fund | \$391M |
| Vontobel Fund - mtx Sustainable Emerging Markets .. | \$357M |
| Federated Hermes Invt. Funds - Global Emerging M.. | \$354M |
| Principal Funds, Inc. - Origin Emerging Markets Fund | \$332M |

12. Agg' Growth and Growth funds are the top holders, led by Gemequity, Delaware and Macquarie.

Taiwan Semiconductor Manufacturing Co., Ltd.: Top Fund Allocations, %

| Fund Name | Allocation (%) |
|--|----------------|
| Gemequity | 17.46% |
| Macquarie VIP Emerging Markets Series | 17.24% |
| Delaware Emerging Markets Fund | 16.51% |
| Amundi Funds Emerging Markets Equi.. | 16.16% |
| Fidelity Inv. Trust - Total Emerging M.. | 15.70% |
| DWS Emerging Markets Equity Fund | 14.20% |
| KBC Equity Fund - Emerging Markets .. | 14.03% |
| Edmond de Rothschild Fund - Strategi.. | 13.85% |
| JPMCB Emerging Markets Equity Focu.. | 13.74% |
| GW&K Investment Funds Plc - Emergi.. | 13.73% |
| Mirabaud - Equities Global Emerging .. | 13.57% |
| Schroder ISF - Emerging Markets Equi.. | 13.40% |
| AMF Aktiefond Tillvaxtmarknader | 13.37% |
| Omnis Portfolio Investments ICVC - Gl.. | 13.05% |
| Artisan Sustainable Emerging Markets.. | 12.92% |
| Nissay UCITS Funds - Global Emerging.. | 12.88% |
| UBS Investment Funds ICVC - Global E.. | 12.77% |
| T Rowe Price Emerging Markets Stock.. | 12.75% |
| Wellington Mgmt. Funds (IE) Plc - Em.. | 12.75% |
| abrdr Emerging Markets Fund | 12.68% |

13. Despite switch to underweight, 4 funds open new exposure with no closures.

Taiwan Semiconductor Manufacturing Co., Ltd.: Largest Change in Fund Weight*

| Fund Name | New or.. | Change (%) |
|---|----------|------------|
| VisionFund SICAV - Emerging Market.. | New | 11.14% |
| Fidelity Inv. Trust - Total Emerging .. | | 6.77% |
| Virtus SGA Emerging Markets Equity.. | New | 4.58% |
| GQG Partners Emerging Markets Equ.. | | 4.27% |
| Macquarie VIP Emerging Markets Ser.. | | 4.01% |
| Hartford Emerging Markets Equity F.. | | 3.99% |
| Robeco Umbrella Fund I NV - QJ Em.. | | 3.78% |
| Gemequity | | 3.46% |
| Delaware Emerging Markets Fund | | 3.41% |
| Morgan Stanley Invt. Fds. - Emergin.. | | 3.30% |
| State Street Emerging Markets Oppo.. | | -0.80% |
| William Blair Emerging Markets Lea.. | | -1.02% |
| AB FCP I - Emerging Markets Growth.. | | -1.18% |
| Janus Henderson Emerging Markets .. | | -1.38% |
| Martin Currie Emerging Markets Fund | | -1.63% |
| Ashmore SICAV - Emerging Markets .. | | -1.65% |
| FTIF SICAV - Emerging Markets Fund | | -1.75% |
| Fidelity Advisor Focused Emerging .. | | -2.35% |
| Optimix Emerging Markets Fund | | -4.64% |
| Pictet Global Selection Fund - Glob.. | | -5.58% |

14. A net \$3bn of fund outflows, led by Invesco, JP Morgan and MFS.

Taiwan Semiconductor Manufacturing Co., Ltd.: Top Fund Inflows and Outflows. *

| Fund Name | New .. | Change (\$M) |
|--------------------------------------|--------|--------------|
| GQG Partners Emerging Markets E.. | | \$706M |
| American Funds New World Fund | | \$276M |
| T Rowe Price Emerging Markets D.. | New | \$68M |
| Fidelity Emerging Markets Fund | | \$59M |
| Causeway Emerging Markets Fund | | \$56M |
| Fidelity Inv. Trust - Emerging Mar.. | | \$50M |
| Robeco Capital Gr. Fds. - QJ Emer.. | | \$39M |
| Polar Capital Funds Plc - Emergin.. | | \$38M |
| Robeco Capital Gr. Fds. - QJ Emer.. | | \$34M |
| VisionFund SICAV - Emerging Mar.. | New | \$29M |
| Calvert Emerging Markets Equity .. | | (\$84M) |
| American Century Emerging Mark.. | | (\$91M) |
| Federated Hermes Invt. Funds - G.. | | (\$96M) |
| Baron Emerging Markets Fund | | (\$105M) |
| Fidelity Funds SICAV - Emerging .. | | (\$117M) |
| BlackRock Emerging Markets Fun.. | | (\$118M) |
| Fidelity Advisor Focused Emergin.. | | (\$126M) |
| MFS Emerging Markets Equity Fund | | (\$230M) |
| JPMorgan Emerging Markets Equit.. | | (\$299M) |
| Invesco Developing Markets Fund | | (\$697M) |

Source: Factset, Copley Fund Research

* Between 2/29/2024 and 8/31/2024

Methodology

Copley uses Factset Ownership data for the majority of its source holdings. This data benefits from various inputs such as fund interim and monthly statements, 13F Forms, and other timely sources utilized by Factset. For US funds, data is usually updated quarterly with varying degrees of lag. However, due to agreements with asset management firms and the incorporation of press releases, Factset often provides updates more quickly. By leveraging these additional sources, Factset ensures a shorter time lag for many data points beyond the standard quarterly fund statements. Copley uses the latest published holdings for each fund and adjusts weights based on price movements between the last filing and the end of the most recent month. The typical average lag ranges from 60 to 90 days depending on the time of year.

For benchmark comparisons, we use the iShares MSCI Emerging Markets ETF, proportionally adjusted to remove any cash holdings. All Fund Flow calculations are on a best estimates basis. We use monthly position changes and month end prices to estimate the net buying and selling value for each stock within each fund in our analysis.

Calculations

Copley uses 6 key measures of fund ownership throughout our analysis. Our chart packs presents these metrics in formats such as time series, snapshots at specific points, or comparisons between two time periods.

Average Weight: The sum of all fund weights in any dimension (region, country, sector, industry, stock) divided by the total number of funds (351) in the analysis.

Average Weight vs EEM: The average weight minus the weight in the iShares MSCI Emerging Markets ETF (cash removed and weights adjusted).

Funds Invested %: The total number of funds with any exposure to a dimension divided by the total number of funds (351) in the analysis.

Funds O/W: The total number of funds with a larger weight in any dimension than the iShares MSCI Emerging Markets ETF, divided by the total number of funds (351) in the analysis.

AUM, \$: The combined AUM allocated to a particular dimension across the 351 active GEM funds in our analysis, in US Dollars

Estimate Fund Flows, \$: The difference in share quantity between 2 periods for each stock in a fund multiplied by the price. These figures are rolled up to provide aggregate fund flows across countries, sectors and stocks.

Style Classifications

Each fund is split into a Style category based on the P/E and P/B ratios of their portfolio compared to the benchmark

Aggressive Growth: At least 70% of the portfolio in stocks with a higher P/E than the iShares MSCI Emerging Markets ETF average, and at least 70% with a higher P/B ratio.

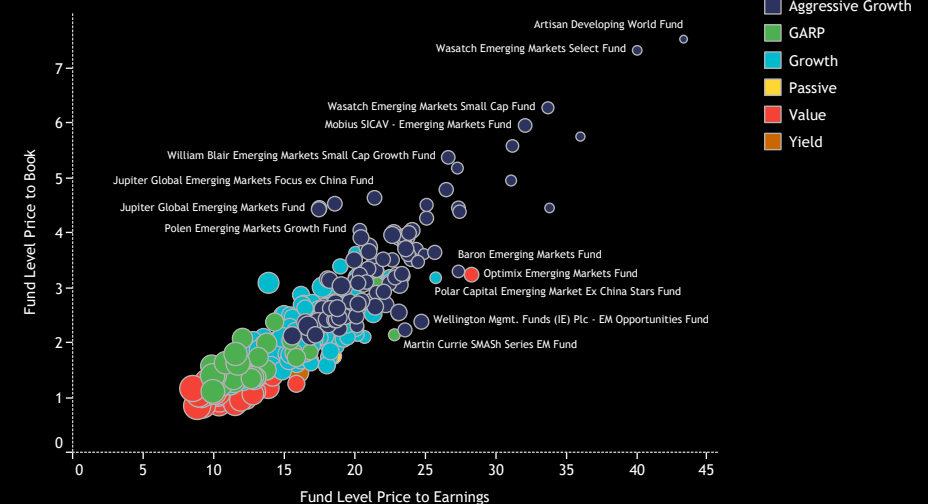
Growth: At least 50% of the portfolio in stocks with a higher P/E than the iShares MSCI Emerging Markets ETF average, and at least 50% with a higher P/B ratio.

Value: Either by the fund description, or at least 50% of the portfolio in stocks with a lower P/E ratio than the iShares MSCI Emerging Markets ETF average, and at least 50% with a lower P/B ratio

Yield: As per the fund description only (i.e Yield, Dividend, Income funds).

GARP: All other iterations that do not fit under the above classifications.

Fund P/E vs P/B
Size of Bubble = Dividend Yield



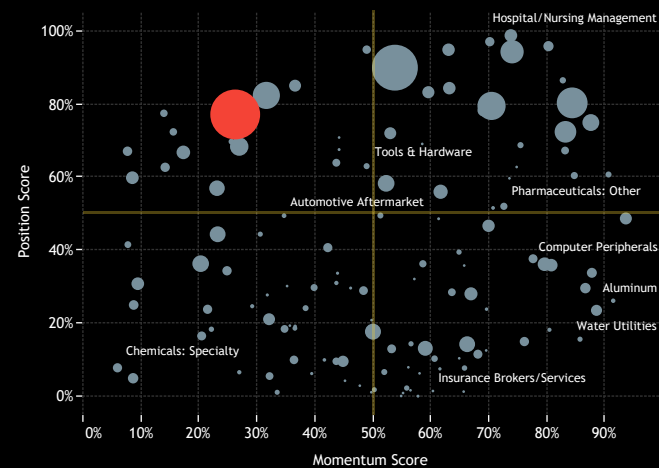
Sentiment Grid

We use the Sentiment Grid in our analysis as a way of combining long-term positioning with shorter dated manager activity across all dimensions (country, sector, stock). Here we outline the metrics that go in to the Sentiment Grid calculation.

The Y-Axis measures where today's ownership levels in each dimension sit relative to the long-term range. We calculate the Z-Score of today's average weight, funds invested % and funds o/w % relative to all monthly observations in our fund history (going back to 1/31/2008). A figure close to 100% would indicate today's positioning is close to its maximum ever level, a figure close to zero, the lowest.

The X-axis provides a measure of short-term fund activity, or 'Momentum', by looking at the changes in average weight, funds invested %, funds o/w % and the net buyers vs sellers between 2/29/2024 and 8/31/2024, relative to each dimension. A figure above 50% means a dimension has seen relative increases in ownership, a figure below 50% indicates a relative decrease in positioning. The size of the bubble represents the average weight of each dimension

Country Sentiment Grid
Momentum Measure Between 2/29/2024 - 8/31/2024



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