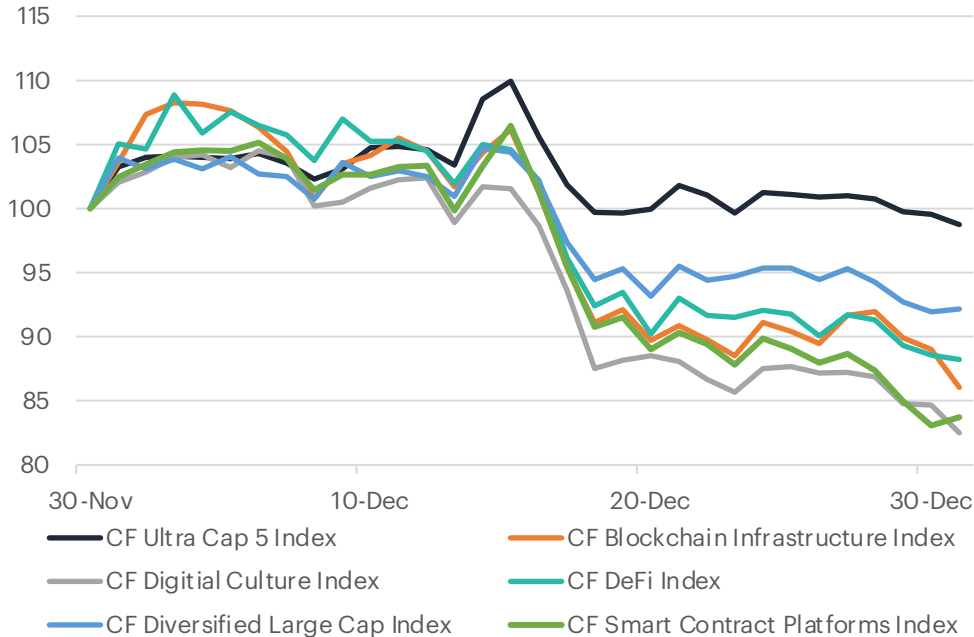


CF Benchmarks Monthly Market Recap

DECEMBER 2022

Monthly Index Performance



Hawkish Fed kills early price gains

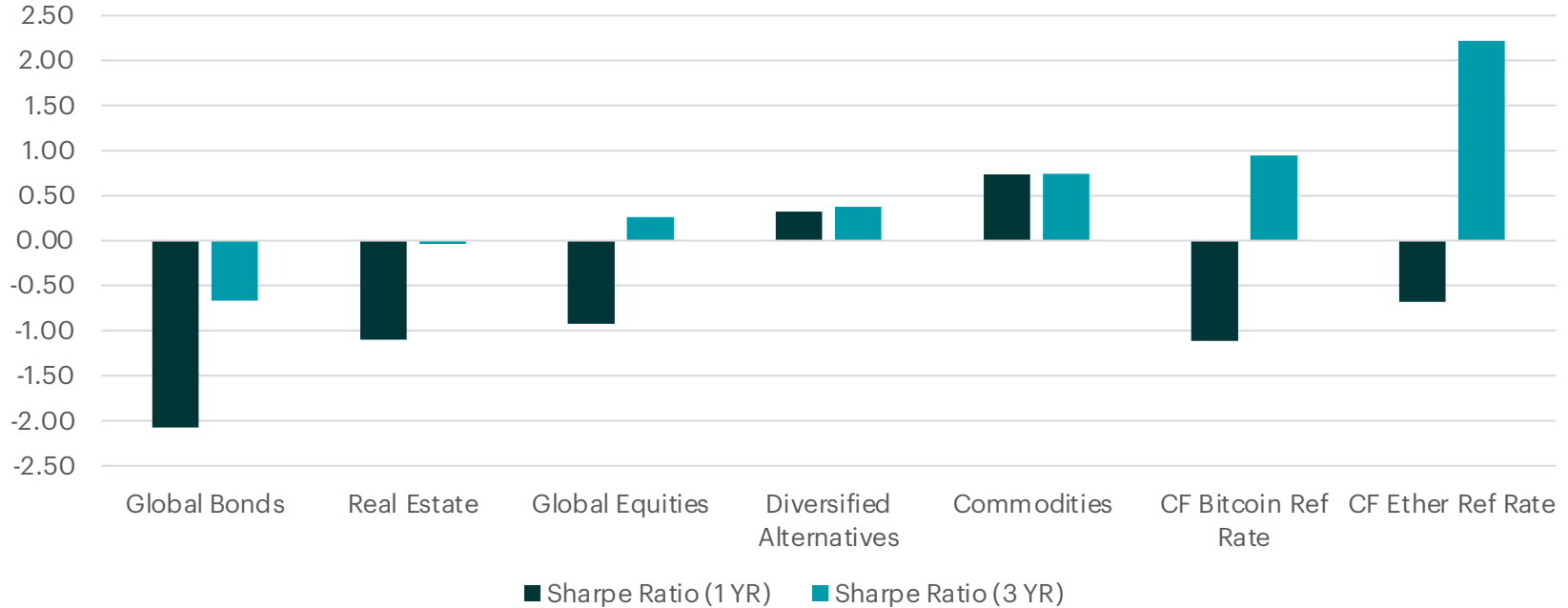
- Our portfolio indices erased their early December gains after the Federal Reserve doubled down on their fight to tame inflationary pressures.
- Blue-chip tokens remained relatively resilient with our Ultra Cap 5 Index finishing the month just 1.3% lower and our Diversified Large Cap Index (-7.9%) outperforming the remaining cohort.
- The CF Digital Culture Index finished the month as the worst performer (falling over 17%) and edging out last month's laggard, the CF Smart Contract Platforms Index (-16.3%).

Major Crypto-Pairs (USD)

| Name | DACS Level 1 | DACS Level 2 | 1 Day | 1 Week | 1 Month | QTD | YTD | 30 D Volatility |
|------------------|--------------|--------------|-------|--------|---------|--------|--------|-----------------|
| Bitcoin | Settlement | Non-Prog | -0.2% | -1.7% | -2.3% | -14.9% | -64.3% | 19.78 |
| Ether | Settlement | Programmable | 0.1% | -1.6% | -6.0% | -9.9% | -67.5% | 30.44 |
| Litecoin | Settlement | Non-Prog | 3.5% | 6.8% | -9.9% | 31.3% | -52.0% | 48.12 |
| Uniswap | Sector | Finance | 1.0% | -1.5% | -11.2% | -19.7% | -72.0% | 39.17 |
| Bitcoin Cash | Settlement | Non-Prog | 0.7% | -4.4% | -12.2% | -20.6% | -77.3% | 25.78 |
| Avalanche | Settlement | Programmable | 0.3% | -6.5% | -15.3% | -36.5% | -90.0% | 39.10 |
| Polygon | Service | Scaling | 0.0% | -4.4% | -17.4% | -1.5% | -69.9% | 32.66 |
| Aave | Sector | Finance | -0.5% | -3.5% | -17.7% | -29.4% | -79.4% | 44.46 |
| Curve DAO Token | Sector | Finance | -0.8% | 0.9% | -18.2% | -42.9% | -90.2% | 41.63 |
| Polkadot | Settlement | Programmable | 2.3% | -1.6% | -18.3% | -32.0% | -84.3% | 38.05 |
| Stellar | Settlement | Programmable | -1.1% | -4.0% | -18.4% | -37.9% | -73.3% | 28.71 |
| Cardano | Settlement | Programmable | 3.3% | -2.9% | -20.4% | -42.4% | -81.5% | 40.49 |
| Ethereum Classic | Settlement | Programmable | 3.3% | -4.1% | -20.5% | -42.0% | -52.9% | 52.04 |
| Solana | Settlement | Programmable | 1.7% | -12.1% | -25.8% | -69.9% | -94.1% | 94.70 |
| Decentraland | Sector | Culture | 1.5% | -9.1% | -26.3% | -57.3% | -90.9% | 54.17 |
| Chainlink | Service | Information | 2.0% | -5.4% | -27.2% | -27.9% | -72.6% | 39.78 |
| Tezos | Settlement | Programmable | 0.0% | -10.0% | -28.0% | -49.7% | -49.7% | 39.66 |
| Algorand | Settlement | Programmable | 3.0% | 2.0% | -28.8% | -51.4% | -89.7% | 44.31 |
| Filecoin | Settlement | Non-Prog | 1.9% | 3.3% | -30.6% | -46.4% | -91.2% | 79.64 |
| Doge | Settlement | Non-Prog | 0.0% | -12.8% | -33.6% | 11.0% | -61.2% | 74.24 |

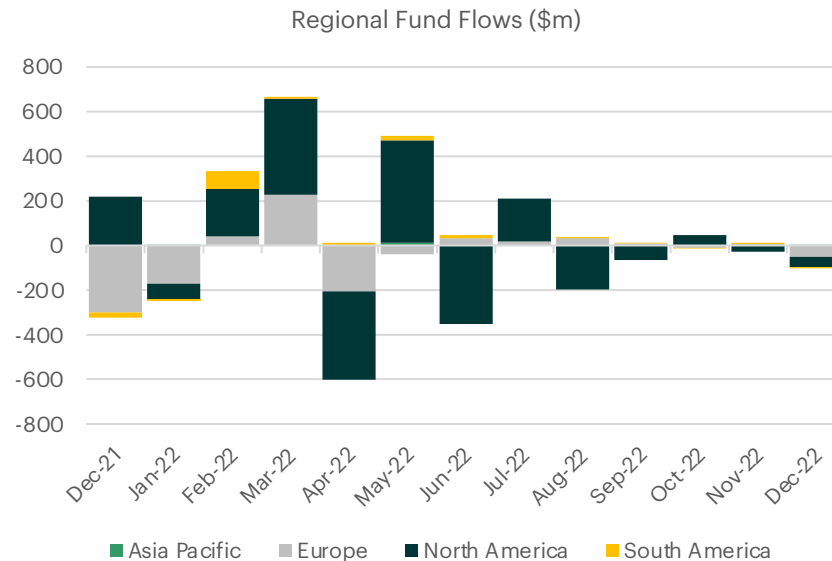
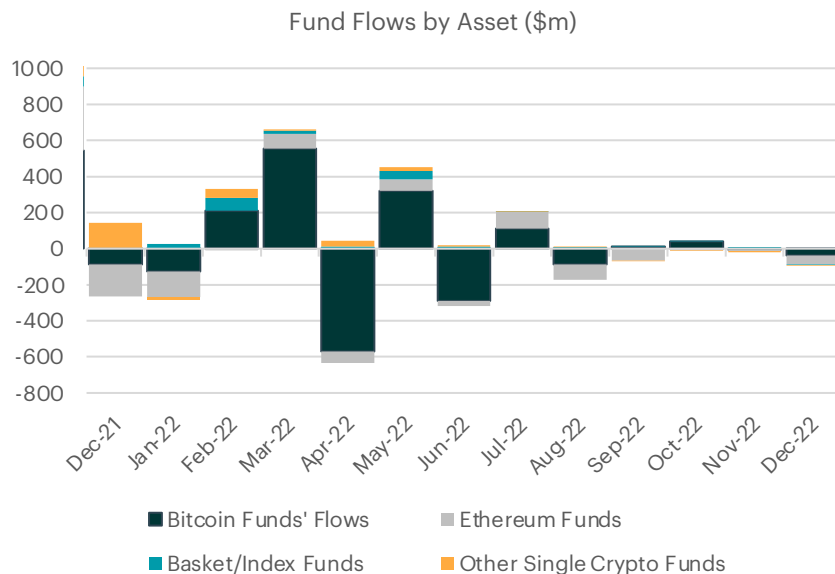
- The two mega-cap tokens, Bitcoin and Ether, performed relative defensively, falling only 2.3% and 6.0% (respectively).
- Doge finished the month as the worst performer, falling over 33% as the popular meme coin continued to pair its post-Twitter takeover rally.

Trailing Risk-Adjusted Returns



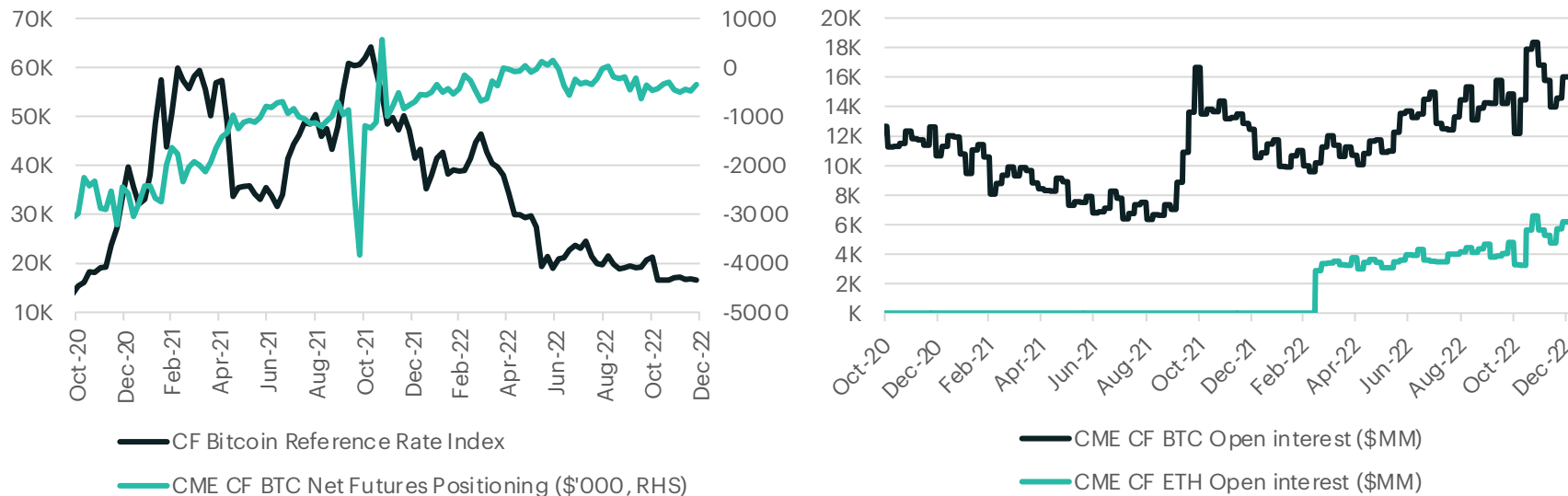
- When compared to traditional asset classes, Bitcoin and Ether continue to provide the best risk-adjusted performance over a longer-time horizon.

Currency of Flows



- Fund flows by asset-type remained broadly negative, falling -\$96m with most of the decrease concentrated in ETH funds.
- From a regional perspective, Europe and North America saw almost \$100M in fund outflows as the Asia Pacific region edged a slight gain (+500K).

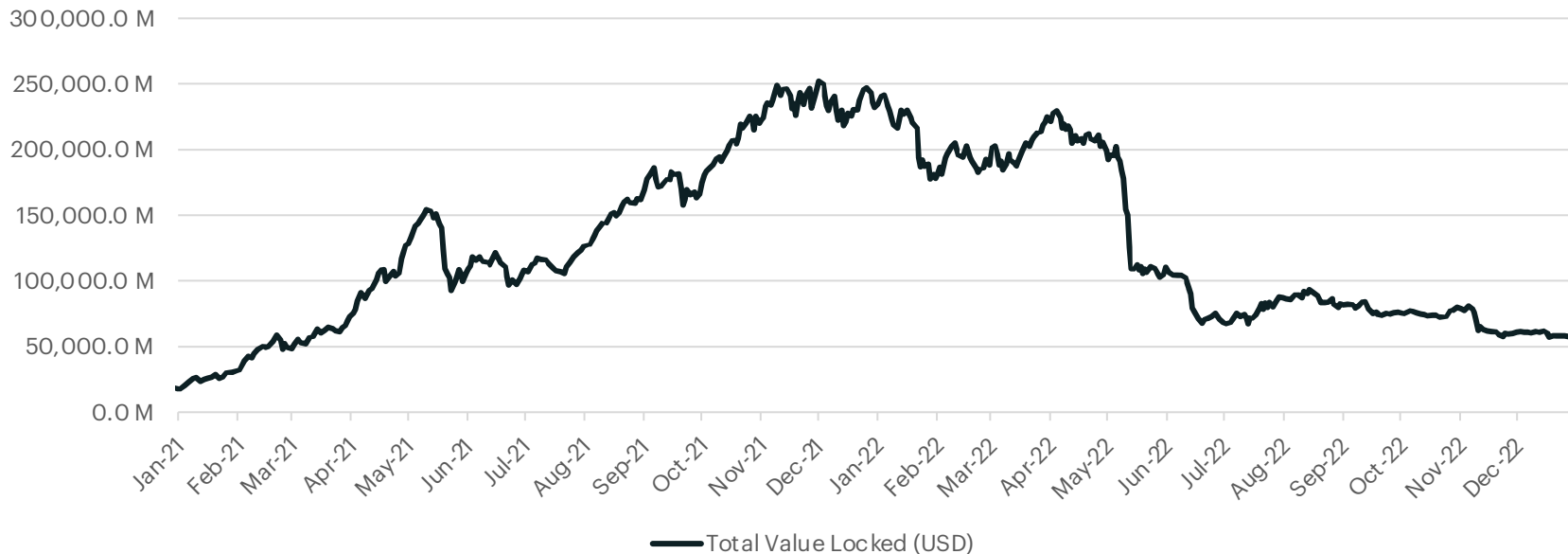
Futures Positioning and Open Interest



- Bitcoin futures positioning remained slightly bearish in December, with net positioning rising from -456 to -346 contracts.
- Open interest trends for Bitcoin and ETH futures was mixed, with Bitcoin futures edging slightly lower as ETH continued to climb higher.

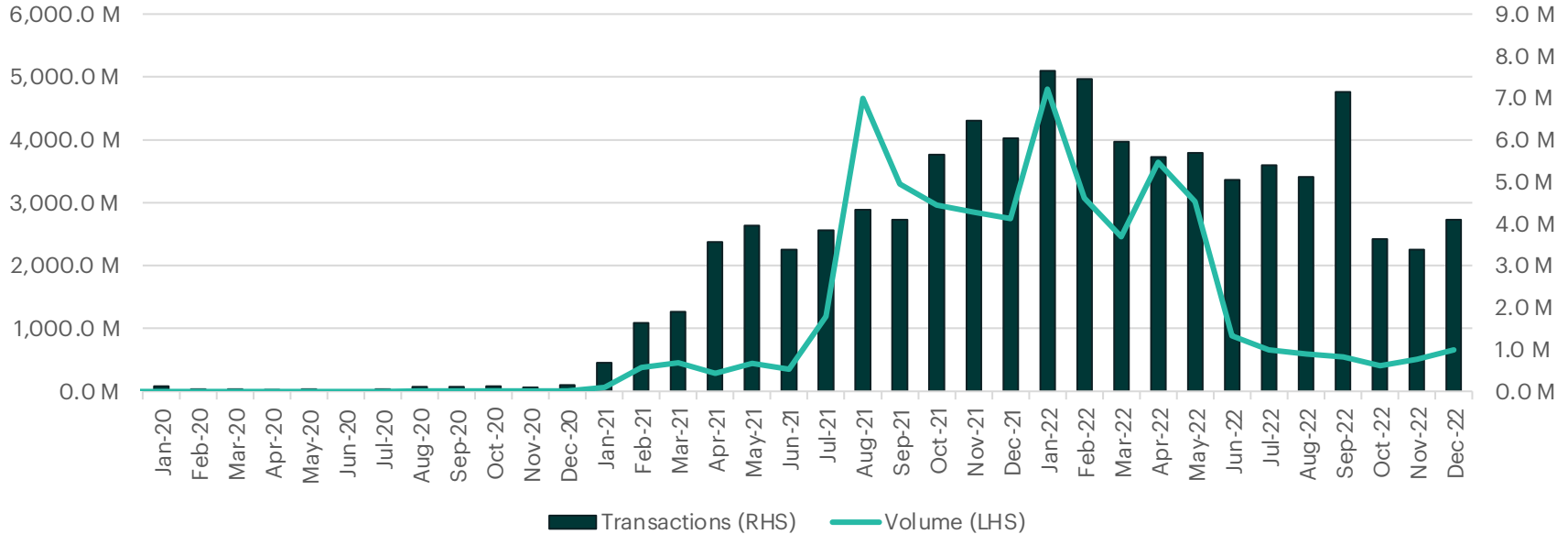
Source: CF Benchmarks, Bloomberg, as of December 31, 2022

On-chain updates: Total Value Locked (TVL) in DeFi protocols



- Total Valued Locked (TVL) in DeFi Protocols edged lower in the month of December (falling from \$60bn to \$57bn). This proxy for gauging the size of DeFi has stabilized in the \$55bn to \$65bn range since the FTX / Alameda collapse in November.

On-chain updates: NFT Transactions and Volumes



- Activity for NFTs rebounded in December, with both total transaction increasing over 20% and prices (or volumes) rising almost 30%.



Appendix: CF Digital Asset Classification Structure

The CF Digital Asset Classification Structure (CF DACS) classifies coins and tokens based on the services that the associated software protocol delivers to end users, grouping assets by the role they play in delivering services to end users. The CF DACS powers CF Benchmarks' sector composite and category portfolio indices and allows users to perform attribution analysis to better understand the fundamental drivers of returns within their digital asset portfolios.

Additional Resources

For more information about our CF Benchmark indices and our methodologies, please visit the respective web links below:

- [CF Diversified Large Cap Index](#)
- [CF DeFi Composite Index](#)
- [CF Web 3.0 Smart Contract Platforms Index](#)
- [CF Digital Culture Composite Index](#)
- [CF Blockchain Infrastructure Index](#)
- [CF Cryptocurrency Ultra Cap 5 Index](#)
- [CF Broad Cap Index – Market Cap Weight](#)
- [CF Broad Cap Index – Diversified Weight](#)

Contact Us

Have a question or would like to chat? If so, please drop us a line to:

info@cfbenchmarks.com

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