

June 2022



Corporate Presentation

MarketVector Indexes GmbH

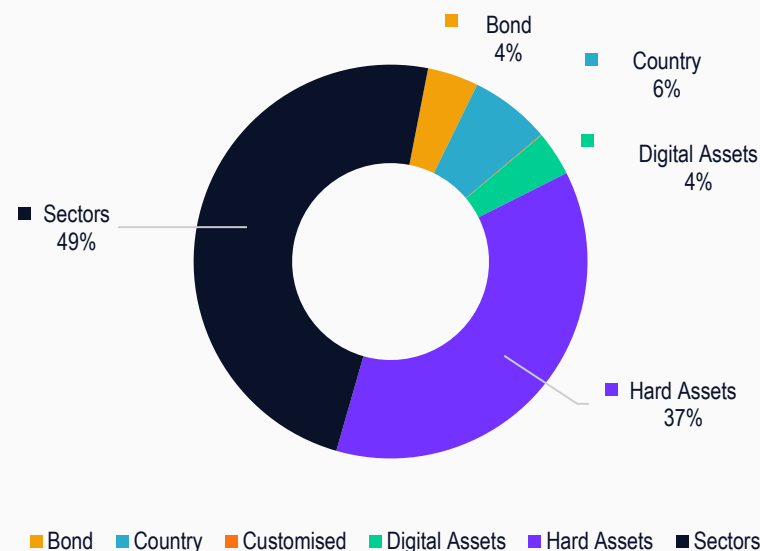
**Your world,
indexed**

MarketVector Indexes™

Accelerating innovation in financial index design and adoption since its launch in 2011

- Moving beyond common categories, MarketVector Indexes™ is a leading provider of blue-chip indexes built on three key factors: **pure-play exposure, component liquidity, and index diversification**. In combination, these factors ensure best practices in index design, optimized for the future of ETPs.
- MarketVector Indexes™ specializes in indexes that capture specific potential investment themes ranging from **hard assets, international equities with a strong focus on emerging markets, digital assets, fixed income, and disruptive sectors**.
- MarketVector Indexes™ is registered as a benchmark administrator under the **European Benchmarks Regulation since July 2019** and its Index methodology and operational process adheres to IOSCO guidelines.
- August 2020, MarketVector Indexes™ acquires BlueStar® Indexes, a New York-based research-driven provider of indexes and financial data, increasing the range of indexes and global business.
- MarketVector Indexes™ deploys a **highly customizable product and paradigm-based** index methodology that enables investors to express views beyond the limitations of traditional broad or sector benchmarks.
- MarketVector Indexes™ leverages its Index Advisory Committee, a governance body of industry and thematic experts, to oversee the maintenance of its indexes, ensuring that they reflect their stated objectives and implement best practices into their construction.

AUM for Licensed Products by % of Index Category



Index Category	AUM for Licensed Products (USD mn)	Count of Licensed Index	Count of Index (Family)
Bond	1,107	3	3
Country	1,743	10	40
Customised	17	2	15
Digital Assets	971	17	45
Hard Assets	9,734	10	11
Sectors	12,838	49	65
Total	26,410	91	179

Source: MarketVector Indexes™. Data as end of June 2022

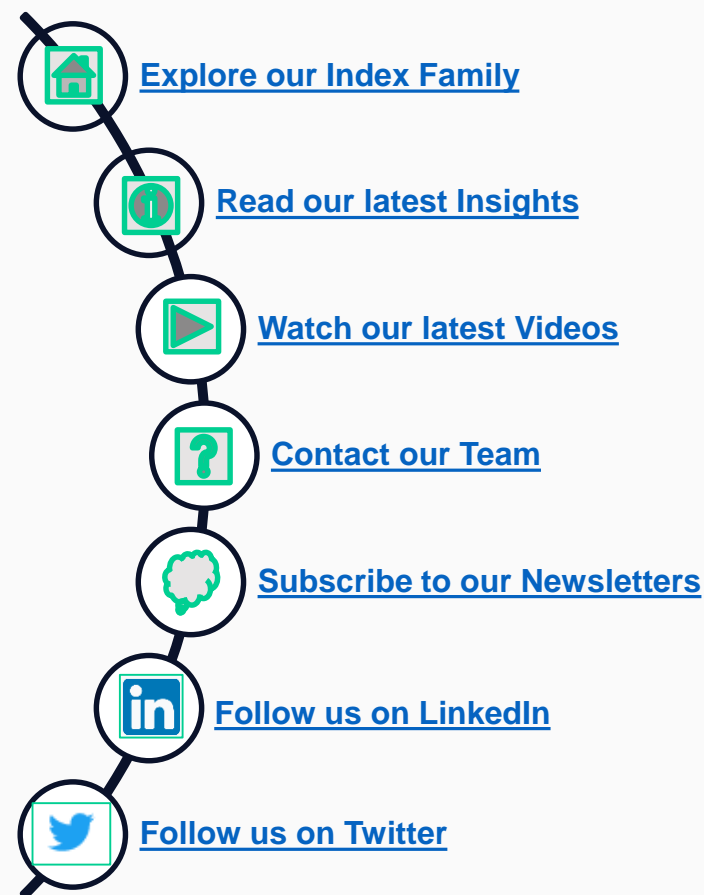
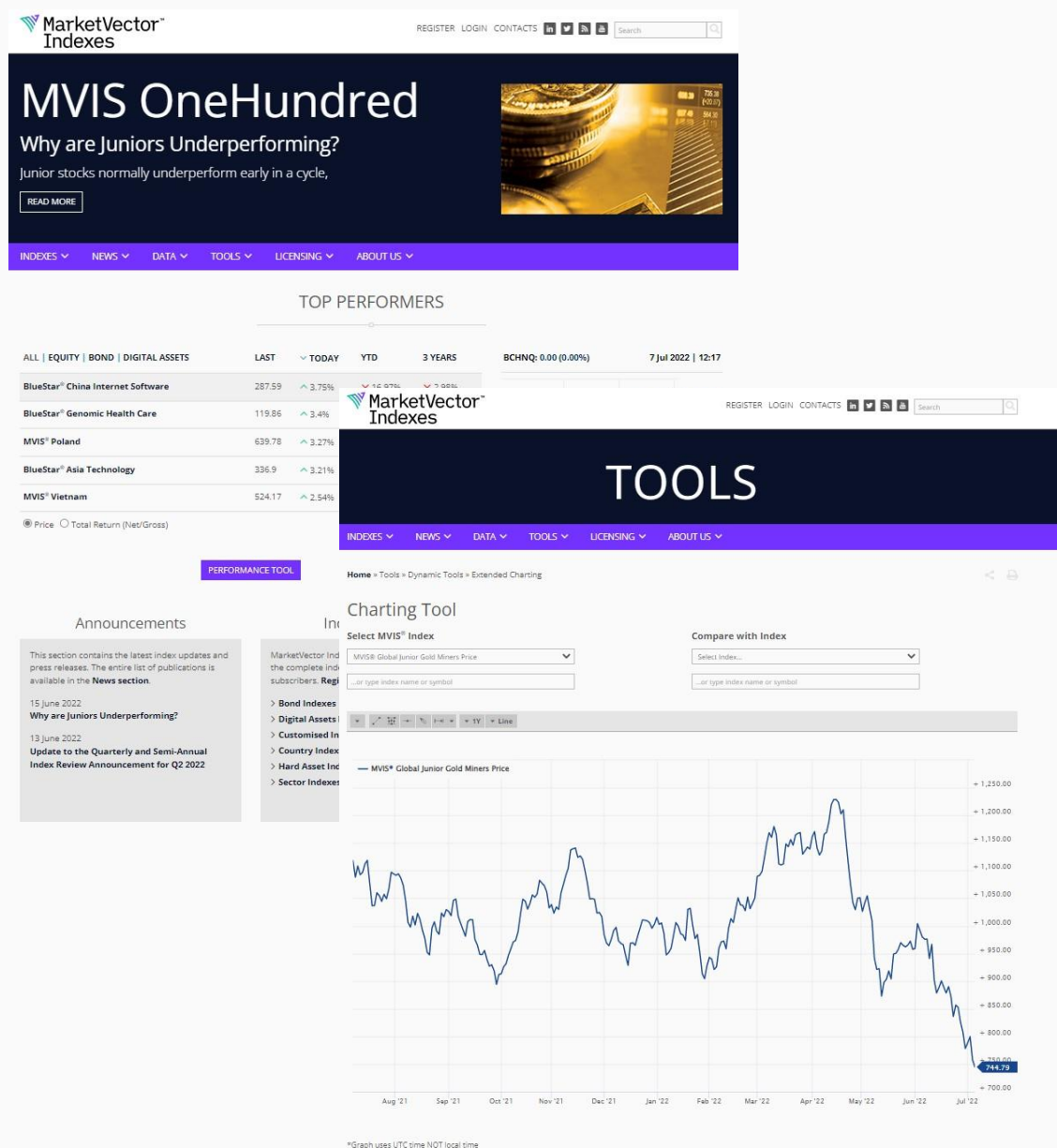
The MarketVector Indexes™/BlueStar® Advantage

Accelerating innovation in financial index design



[Watch the MarketVector Indexes™ story](#)

MarketVector Indexes™ Website: Transparency & Information



MarketVector Indexes™ by the Numbers...

\$26bn

AUM of indexes licensed

-22%

Annualized AUM growth of licensed products
YTD 2022

9

of global markets with MarketVector
Indexes™ products

179

indexes

6

indexes licensed above \$1bn

24

new indexes developed in YTD 2022

11%

BlueStar® China Software Internet Index
(BCHNQNTR Index)
Q2 2022 Performance

-1%

MVIS® US Investment Grade Floating Rate
(MVFLTR Index)
Q2 2022 Performance

-54%

MVIS® CryptoCompare FTX Token VWAP
Close (MVFTTV Index)
Q2 2022 Performance

Grounded in Tradition, Driven by Innovation

“Accelerating innovation in financial index design and adoption”

Applying Traditional Best Practices

- **Liquidity:** Applying strict and demanding liquidity screening to ensure a more investable index
- **Diversification:** Mitigates concentration issues through deployment of a sophisticated capping approach, resulting in balanced and diversified index exposure
- **Transparency:** MarketVector Indexes™ offers real-time index data and more at www.marketvector.com

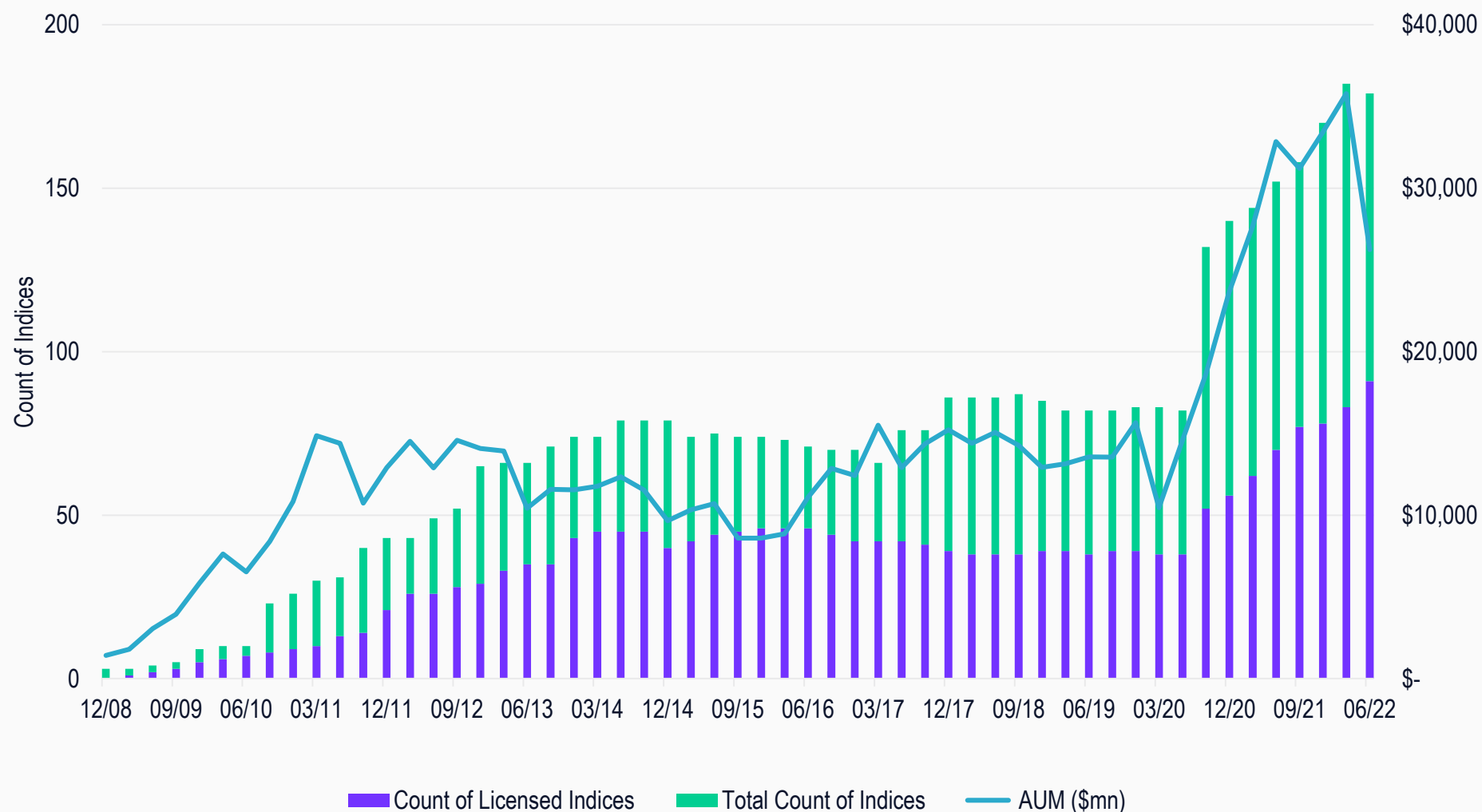
Deploying New Innovations

- **Pure-play:** Applies integrity by capturing companies that generate at least 50% of their revenues in the target country, sector or theme
- **Global:** Connects companies to their country origin, regardless of their listing venue
- **Paradigm-based:** Deploys a top-down approach in the construction of thematic indexes; often utilizes diversified subthemes within the Index to capture the idea holistically
- **Weighting Strategies:** Applies flexible & customizable strategies – from standard to alpha-seeking



MarketVector Indexes™ – Index Family Overview

Development of indexes and AUM (Quarterly, \$mn)



Source: MarketVector Indexes™. Data as end of June 2022.

* MarketVector Indexes™ acquired BlueStar in August 2020.

MarketVector™ Index Family – licensed* products

Type	Underlying Index	AUM*	Type	Underlying Index	AUM*	Type	Underlying Index	AUM*	
Sector/Thematic Equity	MVIS® US Listed Semiconductor 25	6413	Sector/Thematic Equity	MVIS® Global Digital Assets Equity	39	Sector/Thematic Equity	BS® Glb. Onl. Gamb. Vid. Gam. & eSports	1	
	BlueStar® 5G Communications	918		BlueStar® Hotels, Airlines, and Cruises	37		MVIS® Global Digital Assets Mining	1	
	MVIS® Global Video Gaming & eSports	886		BlueStar® Fintech	33		BlueStar® Global Robotics & 3D Printing	1	
	MVIS® US Listed Semiconductor 10% Capped	723		BlueStar® Asia Technology	32		BlueStar® E-Commerce US Leaders	0.8	
	MVIS® US Business Development Companies	631		BlueStar® Robotics	28		BlueStar® E-Healthcare	0.7	
	MVIS® US Listed Pharmaceutical 25	558		BlueStar® China Internet Software	25		BlueStar® E-Comm., Payments & Log.	0.5	
	MVIS® US Listed Biotech 25	443		BlueStar® Global 5G Connectivity	24		BlueStar® Glb. E-Brokers & DCM	0.3	
	MVIS® Australia A-REITs (AUD)	415		BlueStar® Artificial Intelligence	15		BlueStar® E-Brokers & DCM	0.2	
	MVIS® Global Low Carbon Energy	230		BlueStar® E-Games	12	Sector/Thematic Equity	Type	Underlying Index	AUM*
	BlueStar® Israel Global Technology	227		BlueStar® Global GreenTech	11		MVIS® Global Junior Gold Miners	4130	
	MVIS® US Mortgage REITs	219		BlueStar® Solar Energy Industry	10		MVIS® US Listed Oil Services 25	2736	
	MVIS® US Listed Retail 25	149		BlueStar® Autonomous Driving	9		MVIS® Global Agribusiness	1664	
	MVIS® Australia Banks (AUD)	129		MVIS® Global Future of Food ESG	5		MVIS® Global Rare Earth/Strategic Metals	870	
	BlueStar® Machine Learn. & Quantum Comp.	116		MVIS® Global Space Industry ESG	5		MVIS® Australia Resources (AUD)	169	
	BlueStar® Top 10 US Banks	114		BlueStar® Genomic Health Care	5		MVIS® Global Oil Refiners	57	
	BlueStar® Travel and Vacation	101		BlueStar® Top 10 US List. Alt. Asset Mgr.	4		MVIS® Global Uranium & Nuclear Energy	45	
	MVIS® Global Hydrogen Economy ESG	89		BlueStar® Data Center and Log.	4		MVIS® North America Energy Infrastructure	32	
	MVIS® Global Gaming	66		MVIS® Europe Travel and Vacation	3		MVIS® Global Clean-Tech Metals	22	
	MVIS® Global Video Gaming & eSports (AUD)	55		BlueStar® Electric Vehicle Industry	2		BlueStar® Agribusiness 50	11	
	BlueStar® Hydrogen and NextGen Fuel Cell	46		MVIS® Digital India	2				
	MVIS® Global Digital Assets Equity	39		BlueStar® Total Security	1				

Source: MarketVector Indexes™. Data as end of June 2022. * in mln USD

*A licence agreement is required to use indexes, index data or trademarks for any commercial purpose, or for research and analysis, or for the issuance, launch, promotion or marketing of financial products such as exchange-traded products, mutual funds, certificates, derivatives, swaps, bonds or OTC products linked to or based on MVIS® Indexes. The information provided here reflects the list of licensed indexes with publically available assets under management.

MarketVector™ Index Family – licensed* products

Type	Underlying Index	AUM*	Type	Underlying Index	AUM*	Type	Underlying Index	AUM*
Country	MVIS® Australia Equal Weight (AUD)	1097	Digital Assets	MVIS® CC Bitcoin Benchmark Rate	481	Bond	MVIS® US Investment Grade Floating Rate	1086
	MVIS® Vietnam	385		MVIS® CC Ethereum Benchmark Rate	235		MVIS® MA US Inv. Grade Corp. Bond	13
	BlueStar® Israel Global	64		MVIS® CC Bitcoin VWAP Close	104		MVIS® Moody's Analytics US BBB Corp. Bond	8
	MVIS® Indonesia	51		MVIS® CC TRON VWAP Close	64			
	MVIS® GDP Africa	50		MVIS® CC Ethereum VWAP Close	43			
	MVIS® Russia	29		MVIS® CC Solana VWAP Close	16			
	MVIS® Australia SC Dividend Payers (AUD)	27		MVIS® CC Algorand VWAP Close	15			
	MVIS® Brazil Small-Cap	25		MVIS® CC Avalanche VWAP Close	5			
	MVIS® Egypt	14		MVIS® CC Polkadot VWAP Close	2			
	MVIS® Russia Small-Cap	1		MVIS® CC Crypto Leaders VWAP Close	2			
				MVIS® CC Media & Entertainment Leaders	1			
				MVIS® CC FTX Token VWAP Close	0.6			
				MVIS® CC Smart Lead VWAP Close	0.6			
				MVIS® CC Chainlink VWAP Close	0.5			
				MVIS® CC Smart Contract Leaders Brazil	0.4			
				MVIS® CC Polygon VWAP Close	0.4			
				MVIS® CC Terra VWAP Close	0.1			

Source: MarketVector Indexes™. Data as end of June 2022. * in mln USD

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Leadership Team

marketvector.com/register



Steven Schoenfeld
CEO

Steven Schoenfeld joined MarketVector Indexes™ as CEO following its acquisition of BlueStar Indexes in August of 2020. Steven was the Founder and Chief Investment Officer of BlueStar which maintained a family of indexes for Global Technology Stocks and Israeli Equities & Bonds. Steven is a 36-year veteran of the investment management industry, having served in senior fiduciary positions at Northern Trust, where he oversaw more \$300 billion in quantitatively-managed global equity and fixed income portfolios, and at Barclays Global Investors (now Blackrock), where he managed more than \$70 billion in developed and emerging market stock index fund and ETFs. Previously, he led the team at IFC/World Bank which developed the first investable Emerging Market indexes, and traded Japanese stock index futures on the floor of the Singapore Exchange.

Steven is the author of Active Index Investing (Wiley Finance, 2004), co-author of The Pacific-Rim Futures and Options Markets (McGraw-Hill, 1992), and co-founder of IndexUniverse.com (now ETF.com). He has a BA in History and Government from Clark University, was a Fulbright Scholar in Economics at the National University of Singapore, and has an MA from the Johns Hopkins School of Advanced International Studies (SAIS).



Thomas Kettner
COO

Thomas Kettner is COO at MarketVector Indexes™ with global responsibility for the company's index business. He is an index expert with more than fifteen years of experience in the development and maintenance of indexes, with a focus on the development of indexes designed for financial products. He is supported by a team of index specialists with an average of five years of experience in index development, maintenance and marketing. Prior to joining MarketVector Indexes™ in 2012, Mr. Kettner held various positions at leading index providers such as Dow Jones Indexes and STOXX Ltd.

Mr. Kettner holds a degree in Economics from the University of Konstanz, Germany, and is a CIIA graduate.



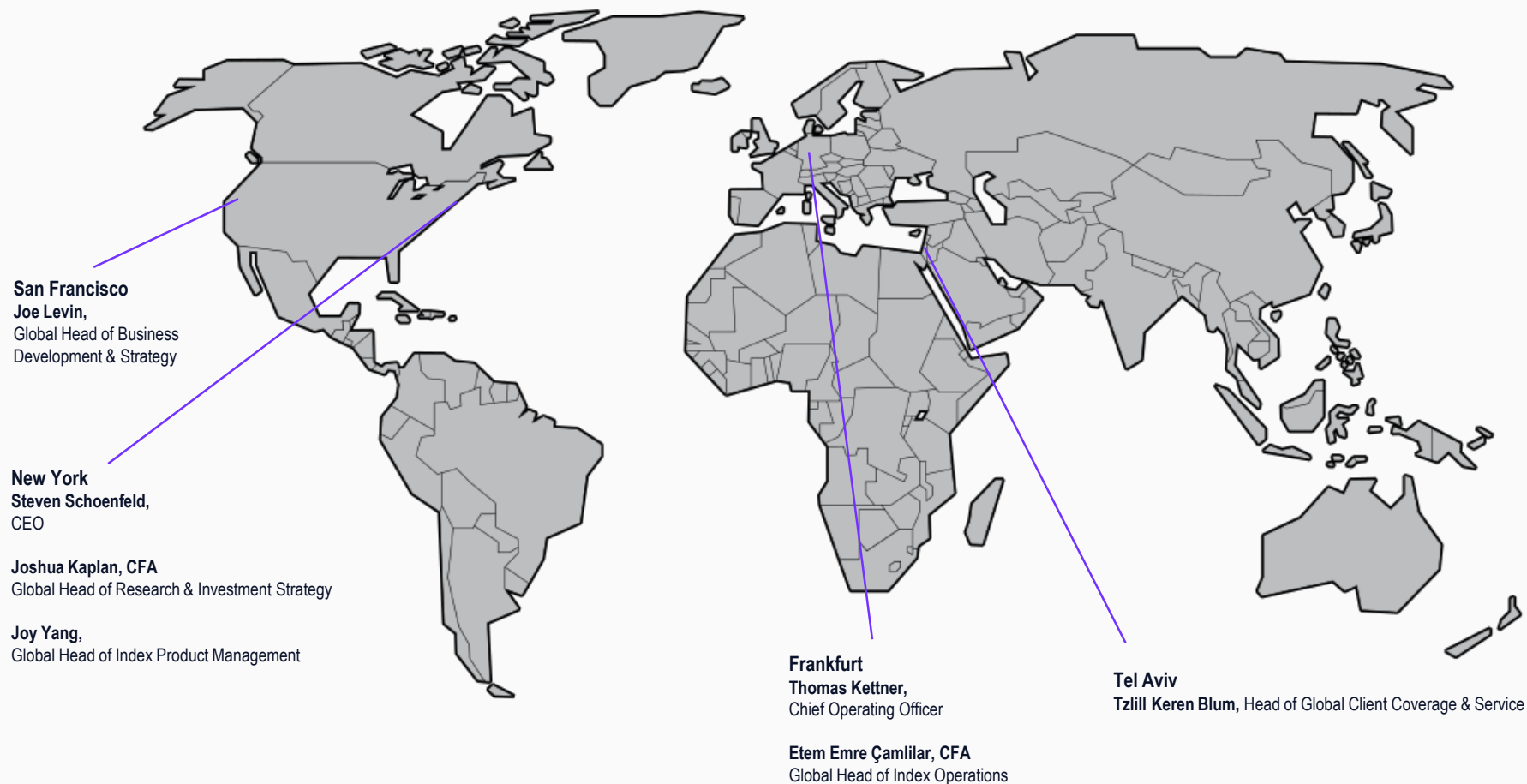
Torsten Hunke
Managing Director

Torsten Hunke joined MarketVector Indexes™ in 2014 to support the firm's index business as the European Legal Counsel and has served as Managing Director since 2016.

He has more than 15 years of experience as international banking regulatory and investment fund lawyer. Prior to joining MarketVector Indexes™, Mr. Hunke worked as a Director at Credit Suisse where he was responsible for the EMEA Asset Management Legal Department and for the legal affairs of Credit Suisse's two German investment companies. Earlier career milestones include positions at the Global Depository Department at Deutsche Bank AG and the investment funds and banking regulatory department at Linklaters in Frankfurt and London.

Mr. Hunke is an attorney at law and a member of the German Bar Association. He studied law at the Universities of Hannover, Brandenburg, and Le Havre (France).

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MarketVector™, MVIS® and BlueStar® Extended Index Family - calculated

Type	Underlying Index	Type	Underlying Index	Type	Underlying Index
Sector/Thematic Equity	BlueStar® 5G Communications	Sector/Thematic Equity	BlueStar® Glb. Onl. Gamb. Vid. Gam. & eSports	Sector/Thematic Equity	MVIS® Digital India
	BlueStar® Artificial Intelligence		BlueStar® Global Robotics & 3D Printing		MVIS® Global Bionic Healthcare ESG
	BlueStar® Asia Technology		BlueStar® Hotels, Airlines, and Cruises		MVIS® Global Circular Economy ESG
	BlueStar® Autonomous Driving		BlueStar® Hydrogen and NextGen Fuel Cell		MVIS® Global Digital Assets Equity
	BlueStar® Big Data & Analytics		BlueStar® Israel Global Technology		MVIS® Global Digital Assets Mining
	BlueStar® China Internet Software		BlueStar® Israel Global Technology North America		MVIS® Global Future Healthcare ESG
	BlueStar® Data Center and Logistics Real Estate		BlueStar® Israel Infrastructure		MVIS® Global Future of Food ESG
	BlueStar® Digital Advertising		BlueStar® Machine Learning and Quantum Computing		MVIS® Global Gaming
	BlueStar® E-Brokers and Digital Capital Markets		BlueStar® Robotics		MVIS® Global Hydrogen Economy
	BlueStar® E-Commerce US Leaders		BlueStar® Solar Energy Industry		MVIS® Global Low Carbon Energy
	BlueStar® E-Commerce, Payments, and Logistics		BlueStar® Top 10 US Banks		MVIS® Global Space Industry ESG
	BlueStar® E-Games		BlueStar® Top 10 US List. Alt. Asset Mgr.		MVIS® Global Video Gaming & eSports
	BlueStar® E-Healthcare		BlueStar® Top 10 US Office REITs		MVIS® Global Video Gaming & eSports (AUD)
	BlueStar® Electric Vehicle Industry		BlueStar® Top 10 US Residential Real Estate		MVIS® North America Cannabis Industry
	BlueStar® Europe Travel and Vacation		BlueStar® Total Security		MVIS® US Business Development Companies
	BlueStar® Fintech		BlueStar® Travel and Vacation		MVIS® US Listed Biotech 25
	BlueStar® Genomic Health Care		BlueStar® US List. E-Brokers & DCM		MVIS® US Listed Pharmaceutical 25
	BlueStar® Global 5G Connectivity		BlueStar® US Listed Internet Infrastructure		MVIS® US Listed Retail 25
	BlueStar® Glb. E-Brokers & DCM		BlueStar® US Machine Learn. & Quantum Comp.		MVIS® US Listed Semiconductor 10% Capped ESG
	BlueStar® Global GreenTech		BlueStar® Wind Energy Industry		MVIS® US Listed Semiconductor 25
	BlueStar® Global Logistics		MVIS® Australia A-REITs (AUD)		MVIS® US Mortgage REITs
	BlueStar® Global Logistics Benchmark		MVIS® Australia Banks (AUD)		

Source: MarketVector Indexes™. Data as end of June 2022.

MarketVector™, MVIS® and BlueStar® Extended Index Family - calculated

Type	Underlying Index	Type	Underlying Index	Type	Underlying Index
Country	BlueStar® Israel Global	Country	MVIS® Pakistan	Hard Assets	BlueStar® Agribusiness 50
	BlueStar® Israel Global Total Investable Market		MVIS® Philippines		MVIS® Australia Resources (AUD)
	MVIS® Australia (AUD)		MVIS® Qatar		MVIS® Global Agribusiness
	MVIS® Australia Equal Weight (AUD)		MVIS® Russia		MVIS® Global Clean-Tech Metals
	MVIS® Australia Small-Cap (AUD)		MVIS® Russia Small-Cap		MVIS® Global Clean-Tech Metals ex-China
	MVIS® Australia Small-Cap Dividend Payers (AUD)		MVIS® South Africa		MVIS® Global Junior Gold Miners
	MVIS® Australia Uncapped (AUD)		MVIS® South Korea		MVIS® Global Oil Refiners
	MVIS® Brazil Small-Cap		MVIS® South Korea Equal Weight		MVIS® Global Rare Earth/Strategic Metals
	MVIS® Chile		MVIS® Thailand		MVIS® Global Uranium & Nuclear Energy
	MVIS® Colombia		MVIS® United Arab Emirates		MVIS® North America Energy Infrastructure
	MVIS® Egypt		MVIS® United Kingdom		MVIS® US Listed Oil Services 25
	MVIS® GDP Africa		MVIS® United Kingdom Equal Weight	Type	Underlying Index
	MVIS® Germany		MVIS® Vietnam	Bond	MVIS® US Investment Grade Floating Rate
	MVIS® Germany Equal Weight		Solactive-BlueStar Israel Domestic Exposure		MVIS® MA US Inv. Grade Corp. Bond
	MVIS® India		Solactive-BlueStar Israel Global Exposure		MVIS® MA US BBB Corp. Bond
	MVIS® Indonesia				
	MVIS® Japan				
	MVIS® Japan Equal Weight				
	MVIS® Malaysia				
	MVIS® Mexico				
	MVIS® Mexico Equal Weight				

Source: MarketVector Indexes™. Data as end of June 2022.

MarketVector™, MVIS® and BlueStar® Extended Index Family - calculated

Type	Underlying Index	Type	Underlying Index
Digital Assets	MarketVector™ Centralized Exchanges		MVIS® CryptoCompare Ethereum Benchmark Rate
	MarketVector™ Coinbase Bitcoin Benchmark Rate		MVIS® CryptoCompare Ethereum VWAP Close
	MarketVector™ Coinbase Ethereum Benchmark Rate		MVIS® CryptoCompare FTX Token VWAP Close
	MVIS® CryptoCompare Algorand VWAP Close		MVIS® CC Global Bitcoin Benchmark Rate (AUD)
	MVIS® CryptoCompare Avalanche VWAP Close		MVIS® CC Global Ethereum Benchmark Rate (AUD)
	MVIS® CryptoCompare Bitcoin		MVIS® CryptoCompare Infrastructure Application
	MVIS® CryptoCompare Bitcoin Benchmark Rate		MVIS® CC Infrastructure Application Leaders
	MVIS® CryptoCompare Bitcoin VWAP Close		MVIS® CryptoCompare Media & Entertainment
	MVIS® CryptoCompare Chainlink VWAP Close		MVIS® CryptoCompare Media & Entertainment Leaders
	MVIS® Cryptocompare Crypto Leaders VWAP Close		MVIS® CC Media & Entertainment Leaders Brazil
	MVIS® CryptoCompare Decentralized Finance	Digital Assets	MVIS® CryptoCompare NEAR VWAP Close
	MVIS® CryptoCompare Decentralized Finance Leaders		MVIS® CryptoCompare Optimum Global Cryptoasset
	MVIS® CryptoCompare DeFi 20		MVIS® CryptoCompare Polkadot VWAP Close
	MVIS® CryptoCompare Digital Asset Select		MVIS® CryptoCompare Polygon VWAP Close
	MVIS® CryptoCompare Digital Assets 10		MVIS® CryptoCompare Smart Contract
	MVIS® CryptoCompare Digital Assets 100		MVIS® CryptoCompare Smart Contract Leaders
	MVIS® CryptoCompare Digital Assets 100 Large-Cap		MVIS® CryptoCompare Smart Contract Leaders Brazil
	MVIS® CryptoCompare Digital Assets 100 Mid-Cap		MVIS® CC Smart Contract Leaders VWAP Close
	MVIS® CryptoCompare Digital Assets 100 Small-Cap		MVIS® CryptoCompare Solana VWAP Close
	MVIS® CryptoCompare Digital Assets 25		MVIS® CryptoCompare Terra VWAP Close
	MVIS® CryptoCompare Digital Assets 5		MVIS® CryptoCompare TRON VWAP Close
	MVIS® CryptoCompare Ethereum		MVIS® CryptoCompare XRP
			Weiss MVIS Top Tech Adoption Rating

Source: MarketVector Indexes™. Data as end of June 2022.

Important Disclosure

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