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Zürcher Kantonalbank

«ZKB Metaverse Basket»

February 2022

The Metaverse increasingly conquers the world

The tracker certificate combines 35 stocks selected by ZKB Asset Management, which benefit from the strong demand for the Metaverse and the related developments.

One of the most attractive technological developments at the moment is the emergence of a completely digital parallel world, the Metaverse. This new technology platform represents the next step in the development of the Internet and combines social networking, online gaming, virtual reality, digital travel, shopping, etc.
In order to dive into this virtual reality, special hardware devices (virtual reality headsets) are needed to create a spatial impression. In addition, it also requires modern software and, above all, sufficient network and storage capacities for the constantly increasing amounts of data created by the metaverse. Finally, like the Internet, the metaverse needs broad and good content so that both end customers and advertisers spend time and money there.
The current figures from Bloomberg Intelligence show how important this virtual reality will be in the future. According to these, the global metaverse market is expected to reach a size of US$ 780 billion as early as 2024, compared to US$ 478 billion in 2020, which corresponds to an annual growth rate of 13.1%.

As a result, leading technology companies are already positioning themselves in this high-growth area and investing significant funds in both value creation and further development. For example, Facebook changed its name to Meta Platforms at the end of 2021 and plans to invest US$10 billion in the near term to expand its metaverse. Other leading tech companies like Microsoft also recognize the potential. In mid-January 2022, the company announced it would acquire Activision, the entertainment software maker. If the competition authorities approve the merger, it would be the largest corporate takeover since Microsoft was founded.

Key data

ZKB Tracker-Certificate dynamic

Underlying	Metaverse Basket
Currency	CHF / USD
Trading unit	1 structured product
Issue price	CHF 100.00 / USD 100.00
Subscription deadline	15. March 2022, 4.00p.m
Initial Fixing	16. February 2022
Issue date	23. February 2022
Final Fixing	Open End
ISIN CHF-Tranche	CH1139751296
ISIN USD-Tranche	CH1139751718

The new basket in detail

The stocks selected by ZKB Asset Management 35 will be included in the basket at the initial fixing date with the designated weights. The geographic diversification and the broadly positioned companies with diverse end markets across the entire metaverse value chain allow a diversified participation in the metaverse growth trend and thus in the future. There are no distributions to the investor. The net dividends distributed by the underlying components flow entirely to the structured product for reinvestment. In the weighting of the securities, particular attention was paid to quality and profitability.

Overview over the selected titles

Apple Inc
Apple Inc. designs, manufactures, and markets personal computers and related personal computing and mobile communication devices along with a variety of related software, services, peripherals, and networking solutions. Apple sells its products worldwide through its online stores, its retail stores, its direct sales force, third-party wholesalers, and resellers.

Microsoft Corp
Microsoft Corporation develops, manufactures, licenses, se offers operating system software, server application softw software development tools, and Internet and intranet soft and digital music entertainment devices.

Alphabet Inc
Alphabet Inc. operates as a holding company. The Company, through its subsidiaries, provides web-based search, advertisements, maps, software applications, mobile operating systems, consumer content, enterprise solutions, commerce, and hardware products.

Amazon.com Inc
Amazon.com, Inc. is an online retailer that offers a wide range of products. The Company products include books, music, computers, electronics and numerous other products. Amazon offers personalized shopping services, Web-based credit card payment, and direct shipping to customers. Amazon also operates a cloud platform offering services globally.

Meta Platforms Inc
Meta Platforms, Inc. operates as a social technology company. The Company builds applications and technologies that help people connect, find communities, and grow businesses. Meta Platform is also involved in advertisements, augmented, and virtual reality.

NVIDIA Corp
NVIDIA Corporation designs, develops, and markets three dimensional (3D) graphics processors and related software. The Company offers products that provides interactive 3D graphics to the mainstream personal computer market.

Samsung Electronics Co Ltd
Samsung Electronics Co., Ltd. manufactures a wide range of consumer and industrial electronic equipment and products such as semiconductors, personal computers, peripherals, monitors, televisions, and home appliances including air conditioners and microwave ovens. The Company also produces Internet access network systems and telecommunications equipment including mobile phones.

ASML NA
ASML Holding N.V. develops, produces, and markets semiconductor manufacturing equipment, specifically machines for the production of chips through lithography. The Company services clients worldwide.

Nike Inc
NIKE, Inc. designs, develops, and markets athletic footwear, apparel, equipment, and accessory products for men, women, and children. The Company sells its products worldwide to retail stores, through its own stores, subsidiaries, and distributors.

Oracle Corp
Oracle Corporation supplies software for enterprise information management. The Company offers databases and relational servers, application development and decision support tools, and enterprise business applications. Oracle's software runs on network computers, personal digital assistants, set-top devices, PCs, workstations, minicomputers, mainframes, and massively parallel computers.

Advanced Micro Devices Inc
Advanced Micro Devices, Inc. (AMD) produces semiconductor products and devices. The Company offers products such as microprocessors, embedded microprocessors, chipsets, graphics, video and multimedia products and supplies it to third-party foundries, as well as provides assembling, testing, and packaging services. AMD serves customers worldwide.

Shopify Inc
Shopify Inc. provides a cloud-based commerce platform. The Company offers a platform for merchants to create an omnichannel experience that helps showcase the merchant's brand.

Applied Materials Inc
Applied Materials, Inc. develops, manufactures, markets, and services semiconductor wafer fabrication equipment and related spare parts for the worldwide semiconductor industry. The Company's customers include semiconductor wafer and integrated circuit manufacturers, flat panel liquid crystal displays, solar photovoltaic cells and modules and other electronic devices manufacturers.

International Business Machines Corp
International Business Machines Corporation (IBM) provides computer solutions. The Company offers application, technology consulting and support, process design and operations, cloud, digital workplace, and network services, as well as business resiliency, strategy, and design solutions. IBM serves clients worldwide.

Adyen NV
Adyen N.V. provides payment solutions. The Company offers a platform that enable merchants and businesses to process payments online, mobile, and point-of-sale systems with payment methods including card schemes, mobile wallets, and other local methods. Adyen serves customers worldwide.

Snap Inc
Snap Inc. provides technology and social media services. The Company develops mobile camera application products and services that allow users to send and receive photos, drawings, text, and videos. Snap serves customers worldwide.

Block Inc
Block Inc provides mobile payment solutions. The Company develops point-of-sale software that helps in digital receipts, inventory, and sales reports, as well as offers analytics and feedback. Block also provides financial and marketing services.

Autodesk Inc
Autodesk, Inc. supplies PC software and multimedia tools. The Company's two-dimensional and three-dimensional products are used across industries and in the home for architectural design, mechanical design, geographic information systems and mapping, and visualization applications. Autodesk's software products are sold worldwide through a network of dealers and distributors.

Nintendo Co Ltd
Nintendo Co., Ltd. globally develops, manufactures and sells home-use video game hardware and software in home entertainment business. The company also produces home-game products including cards.

ROBLOX Corp
Roblox Corporation provides entertainment products and services. The Company designs and develops a wide range of online games such as internet three-dimensional and tutorial games for kids, teens, and adults. Roblox serves customers worldwide.

adidas AG
adidas AG manufactures sports shoes and sports equipment. The Company produces products that include footwear, sports apparel, and golf clubs and balls. adidas sells its products worldwide.

Activision Blizzard Inc
Activision Blizzard, Inc. publishes, develops, and distribute products. The Company's products covers diverse game ca racing, role playing, simulation, first-person action, music-

NAVER Corp
NAVER Corporation provides Internet site with web portal services, such as search engine, online game, and content development. The Company also offers online marketing service through banner advertisement and e-commerce services. NAVER serves customers worldwide.

Electronic Arts Inc
Electronic Arts Inc. develops, publishes, and distributes branded interactive entertainment software worldwide for video game consoles, personal computers, handheld game players, and cellular handsets. The Company also provides online game-related services.

Match Group Inc
Match Group, Inc. provides internet media and services. The Company offers online dating activities. Match Group serves customers worldwide.

Twitter Inc
Twitter, Inc. provides online social networking and microblogging service. The Company offers users the ability to follow other users activity, read, and post tweets. Twitter serves customers worldwide.

ASM International NV
ASM International N.V. develops, manufactures, markets, and services machines used to produce semiconductors. The Company manufactures machines that process silicon wafers, and assemble and package semiconductors. ASM operates in Europe, the United States, Japan, and elsewhere in Asia.

Take-Two Interactive Software Inc
Take-Two Interactive Software, Inc. develops, markets, distributes, and publishes interactive entertainment software games and accessories. The Company's products are for console systems, handheld gaming systems and personal computers and are delivered through physical retail, digital download, online, and cloud streaming services.

Akamai Technologies Inc
Akamai Technologies, Inc. provides services for accelerating and improving the delivery of content and applications over the internet, ranging from live and on-demand streaming video capabilities to conventional content on websites, to tools that help people transact business and reach out to new and existing customers.

Nexon Co Ltd
Nexon Co., Ltd. mainly develops and services, online games for PC and mobile devices. The company also offers consulting services related to online-games. Nexon operates in Japan.

Teladoc Health Inc
Teladoc Health, Inc. provides healthcare services. The Company diagnoses, recommends treatment, and prescribes medication for routine medical issues through phone and video consultations. Teladoc Health serves patients worldwide.

Pearl Abyss Corp
Pearl Abyss Corp. operates as a computer games making company. The Company offers games development, games exporting, and other services. Pearl Abyss serves customers worldwide.

Ubisoft Entertainment SA
Ubisoft Entertainment operates as a video game company. The Company produces, edits, and distributes video games, as well as educational software, as well as licenses its games. Ubisoft Entertainment serves customers worldwide.

Kakao Games Corp
Kakao Games Corp. operates as a multiply platform gaming company. The Company provides mobile games, computer games, virtual reality games, and other related products. Kakao Games markets its products worldwide.

Shop Apotheke Europe NV
Shop Apotheke Europe N.V. owns and operates online pharmacies in eight European countries. The Company markets and distributes prescription, non-prescription medications, pharmacy-related beauty and personal care products as well as natural food and health products.

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