

# AiPEX6

An Artificially Intelligent Equity Index  
with IBM Watson™



**HSBC**

ISSUER FREE WRITING PROSPECTUS  
Filed Pursuant to Rule 433  
Registration Statement No. 333-223208  
May 29, 2020



# An Artificially Intelligent Equity Index

The AI Powered US Equity Indexes are the first and only rules-based equity strategies to use IBM Watson to turn data into investment insight.

By working around the clock to keep up with the increasing volume of data created every day, the AI Powered US Equity Index 6 ("AiPEX6") uses the power of Artificial Intelligence ("AI") to continually improve processes, in an effort to build an informational advantage as markets evolve and as new information becomes available.

AiPEX6 seeks to identify companies whose stock prices are poised for potential growth through an objective selection process that is like a fundamental approach, only thousands of times faster and broader in scope.





# The Future of Investing

For investors seeking to grow their wealth by investing in equities, the birth of Big Data represents an unprecedented opportunity. Each new piece of data represents a new possible insight on a company or the markets that can lead to better investment decisions.

However, the sheer amount of data now available to investors is staggering, and the gap between what is available and what humans can take in and analyze is wide and will only continue to grow.



By some measures, **90%** of the data that exists today has been created in just the past **two years**, and data continues to explode at an **exponential pace**.\*



Much of this data is **non-traditional**; newer data such as social media posts, satellite imagery, and website traffic patterns must be **analyzed and organized** to be useful.\*



Recent advances in machine learning and cloud computing enable AI systems to analyze and **continuously learn from the vast amount of data** being generated each day.\*

Successful investment strategies of the future must keep up with the growing amount of data being generated each day.

\* Please see the IBM website for more information. Information contained in IBM's website is not incorporated by reference in, and should not be considered as part of, this brochure.

# AI Powered Equity Investing

The AI professionals at EquBot developed AiPEX6 to not only keep up, but also to thrive in an increasingly complex world of data by using AI techniques including Natural Language Processing and Machine Learning.



AiPEX6 is a new kind of equity strategy utilizing IBM Watson's Artificial Intelligence. Watson enables AiPEX6 to understand the equity markets and to read and analyze millions of traditional (e.g. financial statements) and non-traditional (e.g. news articles) data sources each day. With Watson, AiPEX6 is able to build intuition, experience, and to continuously learn as headlines break and new information becomes available.

Applying what it has learned, AiPEX6 objectively evaluates and scores each of the 1,000 largest U.S. publicly traded companies in order to find those whose stock prices are poised for growth and rebalances its portfolio monthly by following a 3-step equity selection process.

AiPEX6 can identify and quantify relationships that are not readily apparent to humans. Rather than one analyst's opinion, AiPEX6 selects stocks based on the insights uncovered by an entire army of simulated research analysts and traders who are in complete coordination, allowing for information learned by one to be instantly known by all.



## AiPEX6 3-Step Monthly Equity Selection Process:



### 1. Score

Scores for the 1,000 largest U.S. companies are calculated based on:

- **Financial Health Score:** evaluates a company's fundamentals and key figures.
- **Management Score:** assesses a company's management strength and thought leadership.
- **News & Information Score:** measures a company's market sentiment, economic, and geopolitical risks.



### 2. Select

Approximately 250 companies with the highest combined Financial Health, Management, and News and Information Scores are selected for the portfolio.



### 3. Diversify

Companies are assigned portfolio weights, with the largest weights going to the companies with the highest combined scores (subject to diversification and market liquidity limits).

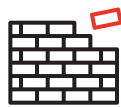


# Daily Risk Control Helps Provide Smoother Returns

## AiPEX6



**AiPEX6 reacts** daily to changing market conditions, as rapid movement in the market, or volatility, can create greater potential risk.



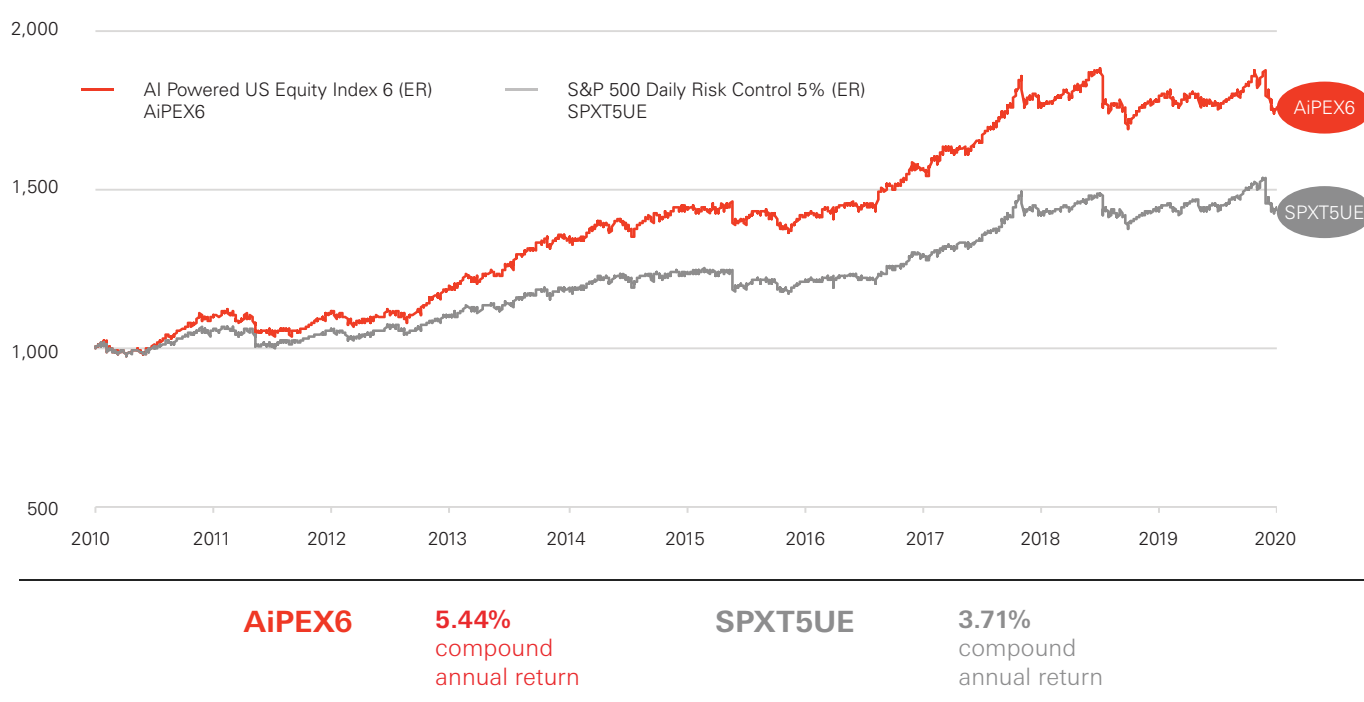
**AiPEX6 reduces** the impact of short-term volatility in the equity markets through daily re-allocations between the equities selected by the AI algorithms and a cash component.



**AiPEX6 seeks** a 6% daily volatility target. If the volatility falls below the target, the allocation to selected equities is increased up to a maximum of 150%. If the volatility is greater than the target, allocations to the selected equities may be reduced. Allocations below 100% to selected companies will be reallocated to a cash component.

# Performance: Historical & Simulated

The AI Powered US Equity Index 6 would have provided growth through a variety of market environments due in part to a monthly equity selection process intended to adapt to market changes and mitigate potential risks. While real-time calculations began on November 19, 2019, the graph below illustrates how AiPEX6 would have provided long-term positive returns with low volatility.



## Key Statistics and Characteristics

Index returns as of 3/31/2019	AI Powered US Equity Index 6 (ER)	S&P 500 Daily Risk Control 5% Index (ER)	Bloomberg Ticker	AiPEX6
1 Y	-2.23%	-0.23%	Asset Class	Equity
3 Y	11.06%	11.35%	Geographical Focus	United States
5 Y	19.99%	16.77%	Launch Date	11/19/2019
10 Y	69.84%	43.97%	Type of Return	Excess Return
10 Y Volatility	5.92%	5.14%	Index Sponsor	EquiBot, Inc.
			Calculation Agent	Solactive AG
			Index Fee <sup>1</sup>	0.85% per year

<sup>1</sup> AiPEX6 Index values shown here, and as calculated and published by Solactive AG, are a net of the 0.85% p.a. Index Fee. The graph and table above sets forth the hypothetical back-tested performance of the Index from March 31, 2010 through November 19, 2019 and actual index performance thereafter through March 31, 2019. See the risk factors and "Use of Simulated Returns" herein.

# Growing Presence of Artificial Intelligence

The AiPEX indexes are the first of their kind, but likely not the first time investors have encountered AI. Technology similar to that which AiPEX6 uses to gain market insights is already helping to improve our daily lives, even if we don't realize it.



**AI is helping the Mayo Clinic improve their breast cancer early screening results and match patients with clinical trials.\***



**AI is helping our armed forces and law enforcement professionals identify persons of interest with facial recognition.\***



**AI is helping power the billions of online searches each day, and has transformed the communication industry with software such as text message auto completion.\***

\* Please see IBM's Website for more details.



# Index Collaborators

**IBM Watson is IBM's suite of enterprise Artificial Intelligence applications and APIs. IBM Watson represents a new era in computing, where systems understand the world the way humans do: through intuition, learning, and experience. IBM Watson continuously learns, gaining value and knowledge from interactions over time.**

**EquBot, Inc.** ("EquBot"), a San Francisco based asset manager, is a member of the **IBM Global Entrepreneur Program** and developed AiPEX6 to provide investors access to the opportunities that AI can uncover. EquBot was co-founded by the former Director of Engineering at Intel, was the first manager to develop an AI based ETF, and currently manages several funds and separate accounts for institutional investors.

**HSBC** is one of the world's largest banking and financial services companies, an award winning provider of US Structured Products, and is the exclusive licensor of the AiPEX suite of indexes.

# Key Terms and Definitions



## **Artificial Intelligence**

enables computers to do things normally requiring human intelligence, such as visual perception, speech recognition, interpretation of language, and decision-making



## **Natural Language Processing**

is a branch of artificial intelligence that reads, deciphers, understands, and makes sense of human languages



## **Machine Learning**

is a subset of artificial intelligence that gives computers the ability to learn without being explicitly programmed in order to identify patterns and make successful predictions



## **Volatility**

is the range of price change a security experiences over a given period of time. If the price remains relatively stable, the security has low volatility and if the price moves erratically, the security has high volatility

**For more information on the AI Powered US Equity Index 6 (AiPEX6):**

**Go to: [aipex6.gbm.hsbc.com](http://aipex6.gbm.hsbc.com)**

## Risks Associated with the AI Powered US Equity Index 6 ("AiPEX6")

**The strategy tracked by AiPEX6 and the Base Index and the views implicit in AiPEX6 and the Base Index are not guaranteed to succeed.**

The strategies tracked by AiPEX6 and its underlying index, the AI Powered US Equity Base Index (the "Base Index"), are not guaranteed to be successful. It is impossible to predict whether and the extent to which AiPEX6, the Base Index or the underlying constituents of the Base Index will yield positive or negative results. AiPEX6 adjusts its exposure to the Base Index based on historical economic relationships which may not hold true in the future. You should seek your own advice as necessary to assess AiPEX6, the Base Index and their respective strategies.

**AiPEX6 and the Base Index were recently launched and have limited operating history.**

AiPEX6 was launched on November 19, 2019 and therefore has limited historical performance. The Base Index has also recently launched and has similarly limited historical performance. As a result, limited actual historical performance information is available for you to consider in making an independent investigation of AiPEX6, which may make it more difficult for you to evaluate the historical performance of AiPEX6 and make an informed investment decision than would be the case if AiPEX6 and the Base Index had a longer trading history.

Hypothetical back-tested performance prior to the launch of AiPEX6 and the Base Index provided in this document refers to simulated performance data created by applying AiPEX6's and the Base Index's calculation methodologies to historical prices of the equities that comprise the Base Index and LIBOR levels. Such simulated performance data has been produced by the retroactive application of a back-tested methodology in hindsight, and may give more preference towards equities that have performed well in the past. Hypothetical back-tested results are neither an indicator nor a guarantor of future results.

The hypothetical back-tested performance of AiPEX6 prior to November 19, 2019 cannot fully reflect the actual results that would have occurred had AiPEX6 actually been calculated during that period, and should not be relied upon as an indication of AiPEX6's future performance. A longer history of actual performance could be helpful in providing more reliable information on which to assess AiPEX6.

**AiPEX6 may not approximate the Target Volatility.**

No assurance can be given that AiPEX6 will maintain a realized volatility that approximates the Target Volatility, and the actual realized volatility of AiPEX6 may be greater or less than the Target Volatility. AiPEX6 seeks to maintain a realized volatility approximately equal to the Target Volatility of 6% by rebalancing its exposures to the Base Index on each day based on two measures of realized volatility. However, there is no guarantee that trends exhibited by any such measures will continue in the future.

**The volatility-targeting feature may cause AiPEX6 to perform poorly during certain market conditions.**

AiPEX6 allocates exposure to the Base Index based on two measures of realized volatility. Realized volatility is not the same as implied volatility, which is an estimation of future volatility, and may better reflect market volatility expectation. Because exposure is adjusted based on historic levels and trends, AiPEX6 may not meaningfully reduce its exposure to the Base Index until a down-turn has already occurred, and by the time reduced exposure does take effect, the recovery may have already begun.

**AiPEX6 varies its exposure to the Base Index. As a result, exposure to the Base Index may be limited and the performance of AiPEX6 may be adversely affected.**

AiPEX6, on each day on which it is calculated, adjusts its exposure to the Base Index in an attempt to maintain a historical volatility approximately equal to the Target Volatility. If the exposure to the Base Index is less than 100%, AiPEX6 will include an uninvested position that does not earn interest or any other return. AiPEX6 may include an uninvested position even when the Base Index is performing favorably. As a result, AiPEX6 may underperform a similar index that does not include an uninvested position.

**The performance of AiPEX6 will be reduced by the performance of the reference rate and the embedded fees.**

AiPEX6 is an excess return index. The return of AiPEX6 is determined by reference to the performance of the Base Index (as adjusted based on the applicable exposure) in excess of the level of a reference rate, the USD 3-month LIBOR rate. The level of AiPEX6 also reflects an embedded index fee of 0.85% per annum. The level of the reference rate and the embedded fees will offset, in whole or in part, any positive performance and increase any negative performance of the Base Index. As a result, any return on AiPEX6 may be reduced or eliminated. When AiPEX6 is uninvested (i.e. the exposure to the Base Index is less than 100%), the negative effect of the embedded fees will be magnified, and the return on AiPEX6 may be negative even while the level of the Base Index increases.

**LIBOR reform may adversely affect the level of AiPEX6.**

A discontinuance of LIBOR or a change in its method of calculation could have a material adverse effect on the level of AiPEX6.

**The Base Index selects and weights its underlying constituents based on AI models; the strategies and views implicit in such models and in the Base Index are not guaranteed to succeed.**

The strategy of the AI models, and therefore the Base Index, is not guaranteed to be successful. It is impossible to predict whether and the extent to which any underlying constituents of the Base Index will yield positive or negative results.

**The method by which the Base Index reweights the underlying constituents and the reallocation period may negatively affect the level of the Base Index.**

The underlying constituents are reviewed and the Base Index is rebalanced monthly. At the end of each month, the AI models are used to recalculate the AI scores for each eligible constituent, and these scores are used by the index sponsor to select and weight the underlying constituents, subject to pre-determined constraints. The weight of each underlying constituent selected from the eligible constituents is subject to a cap (equal to 7.50% unless a lower cap is applicable based on the liquidity of such underlying) and any excess weight is allocated to the iShares® 1-3 Year Treasury Bond ETF ("the ETF Constituent"). The allocation rules, including the cap, will be followed even where they limit the Base Index's exposure to positively performing underlying constituents or increase the Base Index's exposure to negatively performing underlying constituents, and may result in lower returns on the Base Index.

**The Base Index is exposed to equity risk, including from mid-capitalization companies.**

The Base Index is linked to the performance of the underlying constituents, which include U.S. large-capitalization and mid-capitalization stocks. The level of the Base Index can rise or fall sharply due to factors specific to the underlying constituents, such as stock price volatility, earnings and financial conditions, corporate, industry and regulatory developments, management changes and decisions and other events, as well as general market factors, such as general market volatility and levels, interest rates and economic and political conditions.

**Changes in U.S. Treasury rates and the perceived creditworthiness of the United States may affect the level of the Base Index.**

Because the value of the Base Index is linked, in part, to the ETF Constituent which tracks the value of U.S. Treasury bonds, changes in U.S. Treasury rates may affect the level of the Base Index.

**AiPEX6 and the Base Index are purely notional.**

The exposures to the underlying constituents are purely notional and will exist solely in the records maintained by or on behalf of Solactive AG. There is no actual portfolio of assets to which any person is entitled or in which any person has any ownership interest. Consequently, you will not have any claim against any of the underlying assets that are referenced by AiPEX6 or the Base Index.

**Solactive AG administers, calculates and publishes AiPEX6 and the Base Index.**

Solactive AG has the authority to determine whether certain events affecting AiPEX6 or the Base Index have occurred including, but not limited to, events affecting the reference rate or the underlying equity constituents of the Base Index.

Potential investors in any financial instrument of which AiPEX6 or the Base Index is an underlying need to be aware that any determination or calculation made by Solactive may affect the level of AiPEX6 or the Base Index, as applicable, and, as appropriate, the performance of any instruments linked to the performance of AiPEX6 or the Base Index. Solactive AG has no obligation to consider the interest of investors in any such instruments when making any determination or calculation. Such discretion in the decisions taken by Solactive AG (in the absence of manifest or proven error) are binding on all investors and holders of such instruments.

**The level of the Base Index, and therefore AiPEX6, may be determined by reference to the SPDR® S&P 500® ETF ("SPY") if the AI models become unavailable.**

In the event that EquBot Inc., the provider of the AI models, no longer provides the applicable AI scores with respect to the eligible constituents, the shares of SPY will be selected as the sole underlying constituent of the Base Index with a weight of 100%. In such an event, the value of the Base Index, and therefore AiPEX6, will be determined by reference to SPY.





# Disclosure

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The Index may be partially uninvested. The strategy tracks the excess return of a notional dynamic basket of equities and cash over the ICE LIBOR USD 3 Month interest rate. The weight of a Cash Investment (if any) for a Monthly Reference Portfolio at any given time represents the portion of the Monthly Reference Portfolio that is uninvested in the applicable equity basket at that time. As such, any allocation to a Cash Investment within the Index, which also accrues at the ICE LIBOR USD 3 Month interest rate, will not affect the level of the Index. The Index will reflect no return for any uninvested portion (i.e., any portion represented by a Cash Investment). Accordingly, to the extent that the Index is allocated to the Cash Investment, it may not reflect the full increase of any relevant equity component. Under certain circumstances, the Index may be 100% allocated to the Cash Investment.

## Important Disclaimer Information

This brochure is for informational purposes only and intended to provide a general overview of the Index and does not provide the terms of any specific issuance of structured investments. The material presented does not constitute and should not be construed as a recommendation to enter into a securities or derivatives transaction. Prior to any decision to invest in a specific structured investment, investors should carefully review the disclosure documents for such issuance which contains a detailed explanation of the terms of the issuance as well as the risks, tax treatment and other relevant information.

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## Use of Simulated Returns

The Index was launched on November 19, 2019 and therefore has limited historical performance. The Base Index has also recently launched and has similarly limited historical performance. As a result, limited actual historical performance information is available for you to consider in making an independent investigation of the Index, which may make it difficult for you to evaluate the historical performance of the Index and make an informed investment decision than would be the case if the Index and the Base Index had a longer trading history.

Hypothetical back-tested performance prior to the launch of the Index and the Base Index provided in this brochure refers to simulated performance data created by applying the Index and the Base Index's calculation methodologies to historical prices of the underlying constituents and the reference rate. Such simulated performance data has been produced by the retroactive application of a back-tested methodology in hindsight, and may give more preference towards underlying constituents that have performed well in the past. Hypothetical back-tested results are neither an indicator nor a guarantor of future results.

The hypothetical back-tested performance of the Index prior to November 19, 2019 cannot fully reflect the actual results that would have occurred had the Index actually been calculated during that period, and should not be relied upon as an indication of the Index's future performance. Because of the lack of actual historical performance data, your investment in any structured investment linked to the Index may involve a greater risk than investing in a security or other instrument linked to one or more indices with an established record of performance.

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