

## Fixed Income Group research

# Higher inflation is creating an opportunity in emerging markets

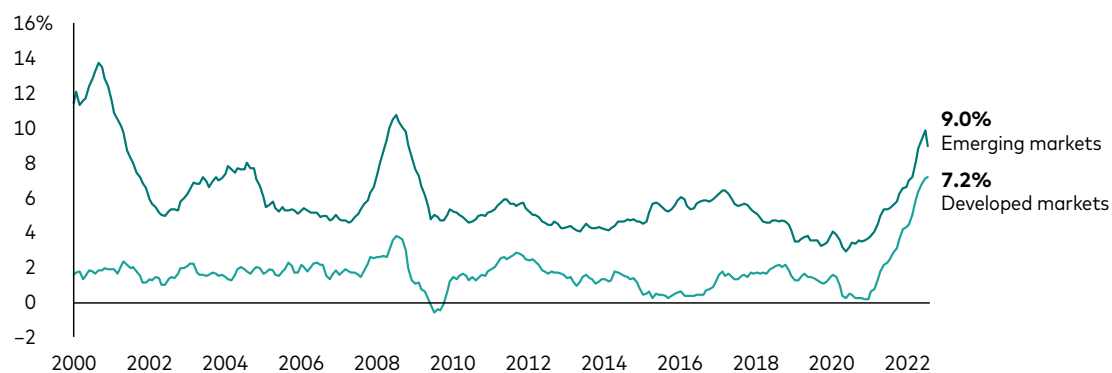
August 2022

Patient investors are likely to find a long runway for rates to rally in emerging markets (EM). Although we cannot call the top in EM inflation here, our analysis leaves us confident that we are close to it and that disinflation will create a good buying opportunity for EM rates.

## EM inflation versus developed market (DM) inflation

DM inflation has converged toward EM inflation post 2020. The latest readings for July 2022 put the annualized rates of inflation at a blistering pace of 7.2% for DM and 9.0% for EM and the momentum remains strong.

### Inflation has shot up to highs not seen in decades



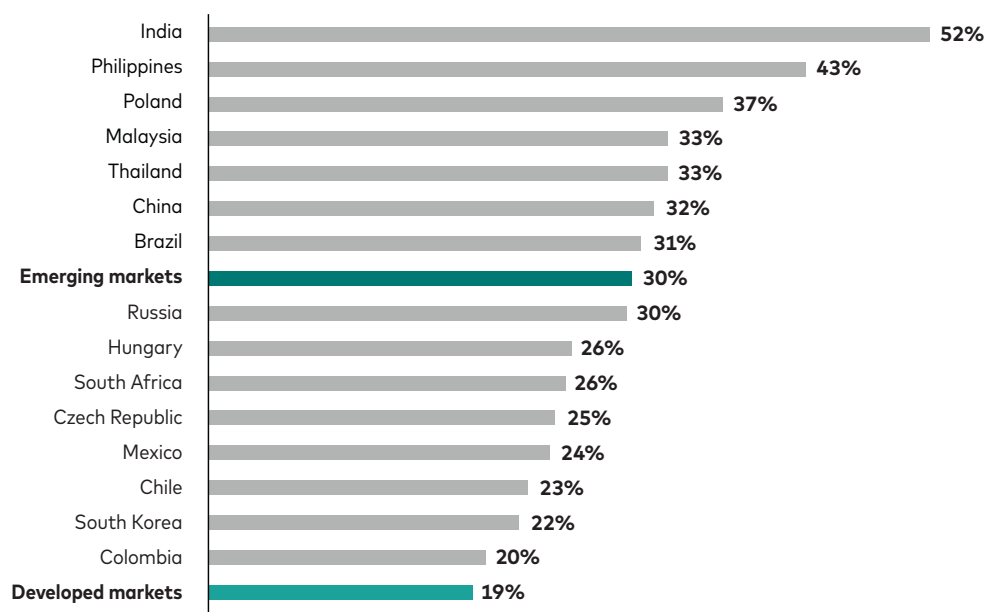
**Note:** Annualized rates of inflation from January 2000 through July 2022.

**Sources:** Vanguard and Macrobond.

**Authors:** Nishan Pradhan, senior emerging markets credit analyst | Liza Ermolenko, emerging markets credit analyst | Zoe Odenwalder, Latin America credit analyst | Nick Eisinger, senior credit analyst | Daniel Shaykevich, senior emerging markets portfolio manager

Differences in the baskets of goods and services used to measure inflation have contributed to higher EM inflation. The conflict in Ukraine initially sparked a surge in energy prices and has more recently put additional upward pressure on food prices. Those two components tend to make up about 30% of the consumer price index (CPI) for EM, a much larger share than the 19% average for DM indexes. Broadly, EM inflation has been more supply driven than DM, as the latter received larger recovery stimulus to boost real growth above the pre-pandemic trend. This makes EM inflation more likely to fall when supply side pressures abate.

### Food and energy make up a larger portion of the CPI basket in many EMs



**Note:** Data are as of July 2022.

**Sources:** Vanguard and Macrobond.

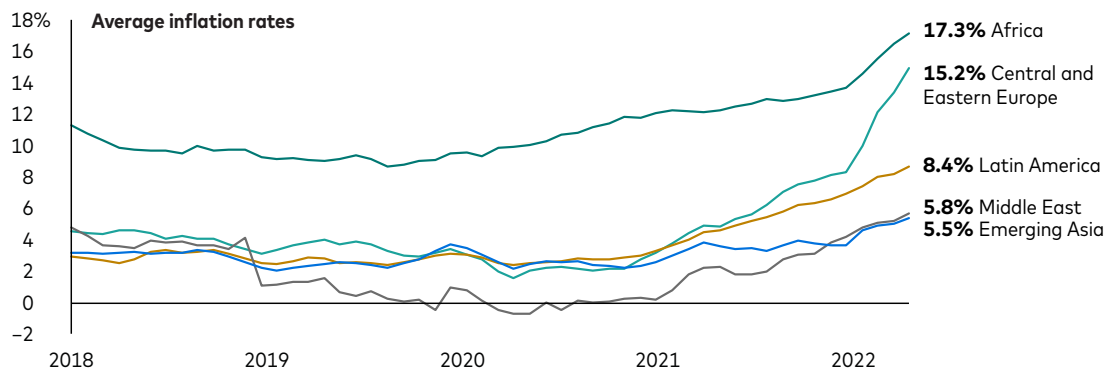
### Subtle differences within regions

Although inflation is rising across EM, there are subtle differences. **Central and Eastern Europe (CEE)** has been hit the hardest by energy and food prices. Explaining how the regions' policy rates may have to stay higher for longer, Liza Ermolenko, EM analyst based in London, says, "CEE is a region in EM where policy rates are the most negative and labor markets are very tight. Rising inflation expectations here suggest that there is risk of CEE entering into a wage-price spiral."

In **Latin America (LATAM)**, relatively aggressive fiscal and monetary easing in comparison to other EM countries in response to the economic shocks brought on by the COVID-19 pandemic is partly to blame for the elevated rate of inflation. The resulting depreciation in the currency exacerbated the price pressures mainly coming via food and wages. However, Zoe Odenwalder, a credit analyst covering LATAM, says Mexico is different. "Mexico has been a relative outlier in the region. It provided very little fiscal support during the pandemic and the central bank maintained tighter policy. As a result, growth has been weaker, and while inflation has risen, the increase has been less dramatic than elsewhere."

**Asia**, in contrast to CEE and LATAM, has suffered relatively tame increases in inflation. Nishan Pradhan, a senior credit analyst covering Asia, explains, "Asia has benefited from having more anchored inflation expectations, lower supply chain cost pass-through due to closer proximity to global manufacturing hubs like China, and relatively more fiscal space to fund targeted subsidies." China, with its economic slowdown, remains an outlier, with no expectations for the central bank to raise rates, which is partially bolstered by benign core inflation prints.

## The average aggregate inflation rate for EM belies stark differences by region



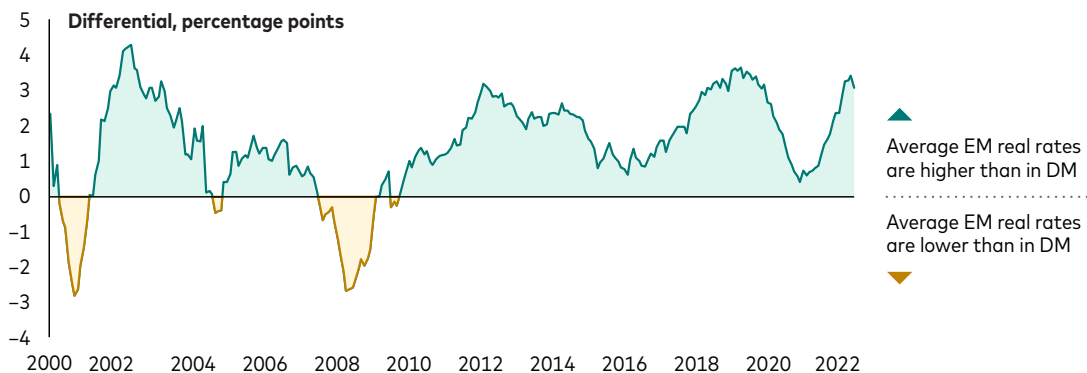
**Note:** Inflation from January 2018 through June 2022.

**Sources:** Vanguard and Macrobond.

## EM central banks have been proactively hiking

Emerging markets have also broadly preserved higher real rates than developed markets through the recent inflation spike by proactively hiking policy rates. At some point, high baseline effects from commodity and food prices will dampen inflation readings. The higher weights of these cyclical components in EM consumption baskets portend a stronger disinflation story than for DM.

## Real rates: Emerging markets versus developed markets



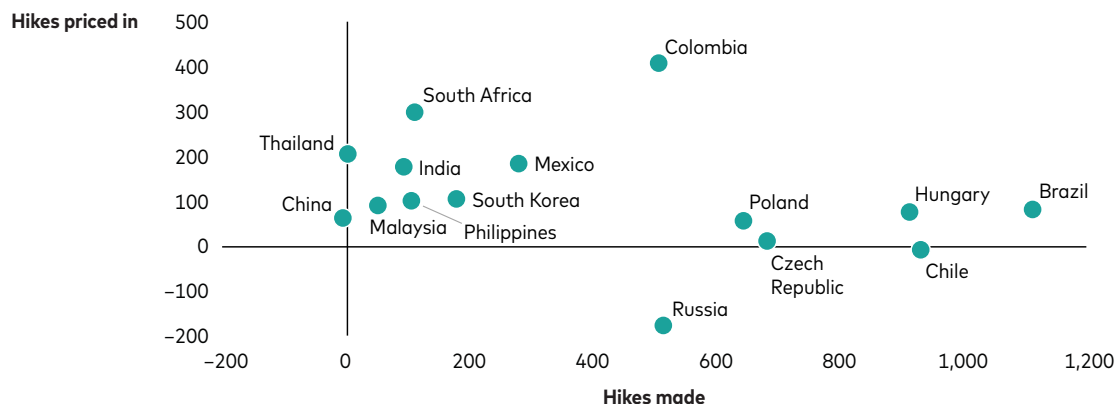
**Notes:** Data are monthly readings from January 2000 through June 2022. Real interest rates are measured as the central bank policy rate minus the annualized inflation rate. EM countries include those in Africa (Angola, Ghana, Kenya, Nigeria, and South Africa), emerging Asia (China, India, Indonesia, Kazakhstan, Malaysia, the Philippines, and South Korea), Central and Eastern Europe (Croatia, Hungary, Poland, Romania, and Ukraine), Latin America (Colombia, Brazil, Chile, Dominican Republic, Ecuador, Mexico, Peru, and Uruguay), and the Middle East (Bahrain, Egypt, Oman, Saudi Arabia, and the United Arab Emirates). DM countries include Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States.

**Sources:** Vanguard, based on data from Macrobond.

This presents EM local bonds (or rates) as an attractive asset class since the market is now pricing in a good deal of rates hikes over and above what has already been delivered by central banks, as the figure below illustrates.

### Some EMs have done more of the heavy lifting on interest rates than others

Hikes made in the last two years, and hikes priced in by the market for the next 12 months, both in basis points



**Notes:** Data are as of August, 2022. Priced-in hikes reflect the difference between current policy rate and 1-year forward implied policy rate. A basis points equals 1/100 of a percentage point.

**Sources:** Vanguard and Bloomberg.

### Where we see potential for alpha generation in local rates

"Given that forward curves in domestic rates have built in expectations of further tightening in most of EM, we are prepared to play long duration EM local rates when we gain confidence that the current trend has decisively turned, or when a certain curve is pricing in too much tightening," says Nick Eisinger, a senior credit analyst based in the United Kingdom.

For example, in **CEE**, despite expectations of sticky core inflation, we are analyzing Polish government bonds as we find them attractive on the scale of repricing and fundamentals. In **LATAM**, Brazil's central bank is likely to signal a pause soon after raising rates from 2% to 13.25%, and we feel steepeners (trading strategies that profit from higher longer-term rates versus shorter-term rates) are likely to become attractive. In Chile, with growth and inflation still accelerating, we do not think the central bank will be able to cut rates this year and prefer to be short duration in the front end to take advantage of the cuts being priced out.

In **Asia**, China suffers from fears of a resurgence of COVID-related lockdowns in the face of a slowing housing market, and we are evaluating re-engaging in long rates trades. We are more likely to be confident in more credible central bank regimes in Asia, such as Thailand, Malaysia, and South Korea, to play the first innings of the topping out of Asia's inflation momentum. In Indonesia, where improving credit activity and the central bank's heavy involvement in supporting local rates makes us wary of going long duration just yet.

In **Africa**, South Africa's central bank is showing proactiveness to prevent double-digit inflation by raising rates and setting a hawkish tone, and we are carefully monitoring the political situation and yields with a bias to be long rates.

## Important part of the process

Rising global inflation and a pro-cyclical Federal Reserve has raised funding costs in EM in both dollar and local market terms. We are not confident in calling the peak in EM inflation yet but recognize that local EM rates are starting to look attractive. "We are excited to have a strong process in place to play long duration EM local rates when the trend decisively turns. We believe we are close to this point," says Daniel Shaykevich, senior EM portfolio manager. We continue to tease out the best risk/return trades within EM local and external debt for our clients and constantly weigh one against the other. With high inflation being a reality today across the globe, having a good read of it and how it presents opportunities in EM is an important part of our active process.

## Active Fixed Income at Vanguard

<b>Taxable bond</b> <b>\$333B</b> in AUM 14 funds*/1 ETF	<b>Municipal bond</b> <b>\$193B</b> in AUM 5 national funds/7 state-specific funds	<b>25+</b> Portfolio managers	<b>35+</b> Traders	<b>60+</b> Research analysts	<b>130+</b> Dedicated team members
---	---	-------------------------------------	-----------------------	------------------------------------	---

\* Includes funds advised by Wellington Management Company LLP.

**Note:** Data are as of June 30, 2022.

## Connect with Vanguard® •

For more information about Vanguard funds and ETFs, visit [vanguard.com](https://vanguard.com) to obtain a prospectus or, if available, a summary prospectus. Investment objectives, risks, charges, expenses, and other important information about a fund are contained in the prospectus; read and consider it carefully before investing.

Vanguard ETF Shares are not redeemable with the issuing Fund other than in very large aggregations worth millions of dollars. Instead, investors must buy and sell Vanguard ETF Shares in the secondary market and hold those shares in a brokerage account. In doing so, the investor may incur brokerage commissions and may pay more than net asset value when buying and receive less than net asset value when selling.

All investing is subject to risk, including the possible loss of the money you invest.

Diversification does not ensure a profit or protect against a loss.

Investments in bonds are subject to interest rate, credit, and inflation risk.

Investments in bonds issued by non-U.S. companies are subject to risks including country/regional risk and currency risk. These risks are especially high in emerging markets.

Funds that concentrate on a relatively narrow market sector face the risk of higher share-price volatility.

# Vanguard®

© 2022 The Vanguard Group, Inc.  
All rights reserved.  
U.S. Patent No. 6,879,964.  
Vanguard Marketing Corporation,  
Distributor.

Investment Products: Not a Deposit • Not FDIC Insured • Not Guaranteed by the Bank • May Lose Value • Not Insured by Any Federal Government Agency

For institutional and sophisticated investors only. Not for public distribution.

## Important Information

VIGM, S.A. de C.V. Asesor en Inversiones Independiente ("Vanguard Mexico") registration number: 30119-001-(14831)-19/09/2018. The registration of Vanguard Mexico before the Comisión Nacional Bancaria y de Valores ("CNBV") as an Asesor en Inversiones Independiente is not a certification of Vanguard Mexico's compliance with regulation applicable to Advisory Investment Services (Servicios de Inversión Asesorados) nor a certification on the accuracy of the information provided herein. The supervision scope of the CNBV is limited to Advisory Investment Services only and not all services provided by Vanguard Mexico.

This material is solely for informational purposes and does not constitute an offer or solicitation to sell or a solicitation of an offer to buy any security, nor shall any such securities be offered or sold to any person, in any jurisdiction in which an offer, solicitation, purchase or sale would be unlawful under the securities law of that jurisdiction. Reliance upon information in this material is at the sole discretion of the recipient.

Securities information provided in this document must be reviewed together with the offering information of each of the securities which may be found on Vanguard's website: <https://www.vanguardmexico.com/institutional/products/en/list/overview> or [www.vanguard.com](http://www.vanguard.com)

Vanguard Mexico may recommend products of The Vanguard Group Inc. and its affiliates and such affiliates and their clients may maintain positions in the securities recommended by Vanguard Mexico.

ETFs can be bought and sold only through a broker and cannot be redeemed with the issuing fund other than in very large aggregations. Investing in ETFs entails stockbroker commission and a bid-offer spread which should be considered fully before investing. The market price of ETF Shares may be more or less than net asset value.

All investments are subject to risk, including the possible loss of the money you invest. Investments in bond funds are subject to interest rate, credit, and inflation risk. Governmental backing of securities applies only to the underlying securities and does not prevent share-price fluctuations. High-yield bonds generally have medium- and lower-range credit quality ratings and are therefore subject to a higher level of credit risk than bonds with higher credit quality ratings.

There is no guarantee that any forecasts made will come to pass. Past performance is no guarantee of future results.

Prices of mid- and small-cap stocks often fluctuate more than those of large-company stocks. Funds that concentrate on a relatively narrow market sector face the risk of higher share-price volatility. Stocks of companies are subject to national and regional political and economic risks and to the risk of currency fluctuations, these risks are especially high in emerging markets. Changes in exchange rates may have an adverse effect on the value, price or income of a fund.

The information contained in this material derived from third-party sources is deemed reliable, however Vanguard Mexico and The Vanguard Group Inc. are not responsible and do not guarantee the completeness or accuracy of such information.

This document should not be considered as an investment recommendation, a recommendation can only be provided by Vanguard Mexico upon completion of the relevant profiling and legal processes.

This document is for educational purposes only and does not take into consideration your background and specific circumstances nor any other investment profiling circumstances that could be material for taking an investment decision. We recommend getting professional advice based on your individual circumstances before taking an investment decision.

These materials are intended for institutional and sophisticated investors use only and not for public distribution.

Materials are provided only for the recipient's exclusive use and shall not be distributed to any other individual or entity. Broker-dealers, advisers, and other intermediaries must determine whether their clients are eligible for investment in the products discussed herein.

The information contained herein does not constitute an offer or solicitation and may not be treated as such in any jurisdiction where such an offer or solicitation is against the law, or to anyone for whom it is unlawful to make such an offer or solicitation, or if the person making the offer or solicitation is not qualified to do so.

THESE MATERIALS ARE PROVIDED AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF RECIPIENT AND CONTAIN HIGHLY CONFIDENTIAL INFORMATION, WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO ANY THIRD PARTIES WITHOUT VANGUARD'S PRIOR WRITTEN CONSENT. THE CONTENTS OF THESE MATERIALS SHALL NOT BE UNDERSTOOD AS AN OFFER OR SOLICITATION TO BUY OR SELL SECURITIES IN BRAZIL AND VANGUARD IS NOT MAKING ANY REPRESENTATION WITH RESPECT TO THE ELIGIBILITY OF ANY RECIPIENT OF THESE MATERIALS TO ACQUIRE THE INTERESTS IN THE SECURITIES DESCRIBED HEREIN UNDER THE LAWS OF BRAZIL. SUCH SECURITIES HAVE NOT BEEN REGISTERED IN BRAZIL AND NONE OF THE INTERESTS IN SUCH SECURITIES MAY BE OFFERED, SOLD, OR DELIVERED, DIRECTLY OR INDIRECTLY, IN BRAZIL OR TO ANY RESIDENT OF BRAZIL EXCEPT PURSUANT TO THE APPLICABLE LAWS AND REGULATIONS OF BRAZIL.

PROVIDED AT THE REQUEST OF AND FOR THE EXCLUSIVE USE OF THE RECIPIENT. THE CONTENTS OF THIS DOCUMENT SHALL NOT BE UNDERSTOOD AS AN OFFER OR SOLICITATION TO BUY OR SELL SECURITIES IN BRAZIL AND VANGUARD IS NOT MAKING ANY REPRESENTATION WITH RESPECT TO THE ELIGIBILITY OF ANY RECIPIENT OF THIS DOCUMENT TO INVEST IN SECURITIES DESCRIBED HEREIN.

This document is provided at the request of and for the exclusive use of the recipient and does not constitute, and is not intended to constitute, a public offer in the Republic of Colombia, or an unlawful promotion of financial/capital market products. The offer of the financial products described herein is addressed to fewer than one hundred specifically identified investors. The financial products described herein may not be promoted or marketed in Colombia or to Colombian residents, unless such promotion and marketing is made in compliance with Decree 2555/2010 and other applicable rules and regulations related to the promotion of foreign financial/capital market products in Colombia.

The financial products described herein are not and will not be registered before the Colombian National Registry of Securities and Issuers (Registro Nacional de Valores y Emisores - RNVE) maintained by the Colombian Financial Superintendency, or before the Colombian Stock Exchange. Accordingly, the distribution of any documentation in regard to the financial products described here in will not constitute a public offering of securities in Colombia.

The financial products described herein may not be offered, sold or negotiated in Colombia, except under circumstances which do not constitute a public offering of securities under applicable Colombian securities laws and regulations; provided that, any authorized person of a firm authorized to offer foreign securities in Colombia must abide by the terms of Decree 2555/2010 to offer such products privately to its Colombian clients.

The distribution of this material and the offering of securities may be restricted in certain jurisdictions. The information contained in this material is for general guidance only, and it is the responsibility of any person or persons in possession of this material and wishing to make application for securities to inform themselves of, and to observe, all applicable laws and regulations of any relevant jurisdiction. Prospective applicants for securities should inform themselves of any applicable legal requirements, exchange control regulations and applicable taxes in the countries of their respective citizenship, residence or domicile.

This offer conforms to General Rule No. 336 of the Chilean Financial Market Commission (Comisión para el Mercado Financiero). The offer deals with securities not registered under Securities Market Law, nor in the Securities Registry nor in the Foreign Securities Registry of the Chilean Financial Market Commission, and therefore such securities are not subject to its oversight. Since such securities are not registered in Chile, the issuer is not obligated to provide public information in Chile regarding the securities. The securities shall not be subject to public offering unless they are duly registered in the corresponding Securities Registry in Chile. The issuer of the securities is not registered in the Registries maintained by the Chilean Financial Market Commission, therefore it is not subject to the supervision of the Chilean Financial Market Commission or the obligations of continuous information.

Esta oferta se acoge a la norma de carácter general No. 336 de la Comisión para el Mercado Financiero. La oferta versa sobre valores no inscritos bajo la Ley de Mercado de Valores en el Registro de Valores o en el Registro de Valores extranjeros que lleva la Comisión para el Mercado Financiero, por lo que tales valores no están sujetos a la fiscalización de ésta. Por tratarse de valores no inscritos, no existe la obligación por parte del emisor de entregar en Chile información pública respecto de esos valores. Los valores no podrán ser objeto de oferta pública mientras no sean inscritos en el Registro de Valores correspondiente. El emisor de los valores no se encuentra inscrito en los Registros que mantiene la Comisión para el Mercado Financiero, por lo que no se encuentra sometido a la fiscalización de la Comisión para el Mercado financiero ni a las obligaciones de información continua.

The securities described herein have not been registered under the Peruvian Securities Market Law (Decreto Supremo No 093-2002-EF) or before the Superintendencia del Mercado de Valores (the "SMV"). There will be no public offering of the securities in Peru and the securities may only be offered or sold to institutional investors (as defined in Appendix I of the Institutional Investors Market Regulation) in Peru by means of a private placement. The securities offered and sold in Peru may not be sold or transferred to any person other than an institutional investor unless such securities have been registered with the Registro Público del Mercado de Valores kept by the SMV. The SMV has not reviewed the information provided to the investor. This material is for the exclusive use of institutional investors in Peru and is not for public distribution.

The financial products described herein may be offered or sold in Bermuda only in compliance with the provisions of the Investment Business Act 2003 of Bermuda. Additionally, non-Bermudian persons may not carry on or engage in any trade or business in Bermuda unless such persons are authorized to do so under applicable Bermuda legislation. Engaging in the activity of offering or marketing the financial products described herein in Bermuda to persons in Bermuda may be deemed to be carrying on business in Bermuda.

Vanguard does not intend, and is not licensed or registered, to conduct business in, from or within the Cayman Islands, and the interests in the financial products described herein shall not be offered to members of the public in the Cayman Islands.

The financial products described herein have not been and will not be registered with the Securities Commission of The Bahamas. The financial products described herein are offered to persons who are non-resident or otherwise deemed non-resident for Bahamian Exchange Control purposes. The financial products described herein are not intended for persons (natural persons or legal entities) for which an offer or purchase would contravene the laws of their state (on account of nationality or domicile/registered office of the person concerned or for other reasons). Further, the offer constitutes an exempt distribution for the purposes of the Securities Industry Act, 2011 and the Securities Industry Regulations, 2012 of the Commonwealth of The Bahamas.

This document is not, and is not intended as, a public offer or advertisement of, or solicitation in respect of, securities, investments, or other investment business in the British Virgin Islands ("BVI"), and is not an offer to sell, or a solicitation or invitation to make offers to purchase or subscribe for, any securities, other investments, or services constituting investment business in BVI. Neither the securities mentioned in this document nor any prospectus or other document relating to them have been or are intended to be registered or filed with the Financial Services Commission of BVI or any department thereof.

This document is not intended to be distributed to individuals that are members of the public in the BVI or otherwise to individuals in the BVI. The funds are only available to, and any invitation or offer to subscribe, purchase, or otherwise acquire such funds will be made only to, persons outside the BVI, with the exception of persons resident in the BVI solely by virtue of being a company incorporated in the BVI or persons who are not considered to be "members of the public" under the Securities and Investment Business Act, 2010 ("SIBA").

Any person who receives this document in the BVI (other than a person who is not considered a member of the public in the BVI for purposes of SIBA, or a person resident in the BVI solely by virtue of being a company incorporated in the BVI and this document is received at its registered office in the BVI) should not act or rely on this document or any of its contents.

Any person who receives this document in the BVI (other than a person who is not considered a member of the public in the BVI for purposes of SIBA, or a person resident in the BVI solely by virtue of being a company incorporated in the BVI and this document is received at its registered office in the BVI) should not act or rely on this document or any of its contents.

The sale of the VGSH qualifies as a private placement pursuant to section 2 of Uruguayan law 18.627. Vanguard represents and agrees that it has not offered or sold, and will not offer or sell, any VGSH to the public in Uruguay, except in circumstances which do not constitute a public offering or distribution under Uruguayan laws and regulations. Neither the VGSH nor issuer are or will be registered with the Superintendency of Financial Services of the Central Bank of Uruguay to be publicly offered in Uruguay."

The VGSH correspond to investment funds that are not investment funds regulated by Uruguayan law 16,774 dated 27 September 1996, as amended.

This document does not constitute an offer or solicitation to invest in the securities mentioned herein. It is directed at professional / sophisticated investors in the United States for their use and information. The financial products described herein are only available for investment by non-U.S. investors, and this document should not be given to a retail investor in the United States. Any entity responsible for forwarding this material, which is produced by VIGM, S.A. de C.V., Asesor en Inversiones Independiente in Mexico, to other parties takes responsibility for ensuring compliance with applicable securities laws in connection with its distribution.

Data provided by Morningstar is property of Morningstar and Morningstar's data providers and it should therefore not be copied or distributed. Morningstar and its data providers are not responsible for any certification or representation with respect to data validity, certainty, or accuracy and are therefore not responsible for any losses derived from the use of such information.

**Vanguard**

**Connect with Vanguard®**

© 2022 The Vanguard Group, Inc. All rights reserved.