

Robeco FinTech

As digital currencies rise, banking systems remain very much needed

Sustainable Investing Expertise by
ROBECOSAM

- Major central banks are considering issuing digital currencies
- Central bank digital currencies could offer important advantages
- But traditional banking systems are still very much needed

Digitalization is everywhere. And money is no exception. While most media attention around digital money has focused on cryptocurrencies – mainly bitcoin – over the past couple of years, other more discreet but equally transformational developments have been taking place in the background. This is the case for so-called central bank digital currencies (CBDCs). The rapid rise of digital finance has pushed many central banks to mull over launching their own digital currencies. In fact, central banks from more than 70 countries, representing the bulk of global GDP, have been or are currently exploring the idea of setting up CBDCs, although a few of them have also decided not to proceed further for the time being.¹ Compared to existing systems of traditional currencies and electronic transfers, CBDCs could offer important advantages, raising the risk of potential disruption for the financial industry.

Two wakeup calls

Over the past few of years, central banks have received two major wakeup calls regarding digital fiat currencies, which have forced them to start forming an opinion on CBDCs. The first wake-up call came from Facebook's Libra white paper, published in June 2019. At this point, a large tech company with more than three billion users was suddenly considering setting up its own currency, basically threatening the monopoly of central banks on currency issuance. But ultimately, central banks and regulators around the world were able to temporarily fend off this first 'attack' from Facebook, even though the tech giant has come back with a 2.0 version called Diem.

¹ Source: Atlantic Council, April 2021.

Article
For professional investors
May 2021

Patrick Lemmens, Michiel van Voorst and
Koos Burema

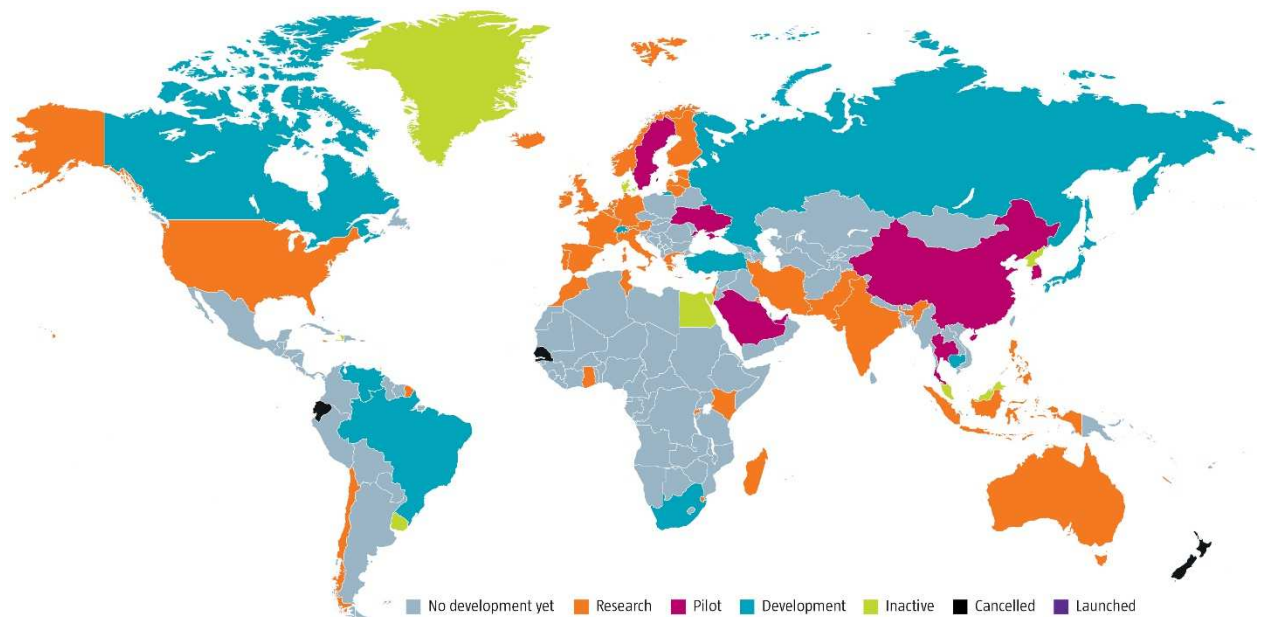


The second wakeup call came from the People’s Bank of China (PBoC), with its rapid progress regarding the launch of its own CBDC. In April 2020, China started implementing programs to test a digital currency – otherwise known as digital currency electronic payments (DCEP) – in four cities, allowing for transactions such as salary payments to civil servants, payments for public transport services and energy, as well as supply chain trading. These pilot programs were then expanded to other cities in the second half of the year, while the PBoC also expects that some of these facilities will be used during the 2022 Winter Olympics.

Officially, the stated goal of Mainland China’s central bank is to replace cash currently in circulation in its economy, as well as other payment means with a more cost-efficient digital version of the yuan. However, the idea that a Chinese CBDC might also be used in an international context to lower the cost of cross-border transactions with improved efficiency, and eventually start competing with other more established currencies, has also raised the alarm in other countries, particularly in the US where the Federal Reserve remains in the early stages of researching a potential CBDC.

Meanwhile, other major central banks, such as the European Central Bank (ECB) and Bank of England (BoE) for example, have already been investigating CBDCs for some time, in an effort to keep their own currencies relevant as international trade and reserve instruments. One key idea behind this research is that currencies such as the euro, Japanese yen or British pound might end up being the ultimate losers at the global level, if both the US and Mainland China are able to fully implement their CBDCs. Figure 1 recapitulates official CBDC initiatives carried out worldwide.

Figure 1 | CBDC developments around the world



Source: Atlantic Council, Robeco, April 2021.

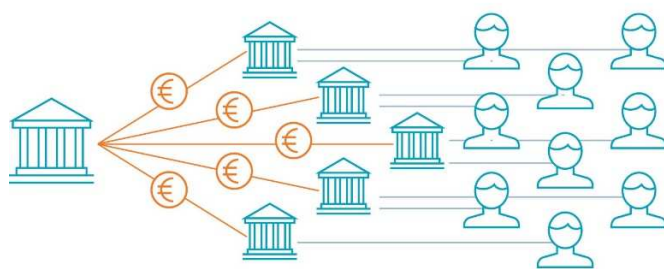
Three reasons to consider CBDCs

For now, most central banks seem to be considering CBDCs mainly as a potential replacement of physical cash as they rethink the overall design of their current monetary frameworks. While existing infrastructures of commercial bank accounts and digital payments systems already provide relatively accessible and cost-efficient financial services in many countries around the world, CBDCs could also offer important advantages for both monetary authorities and ultimate users.

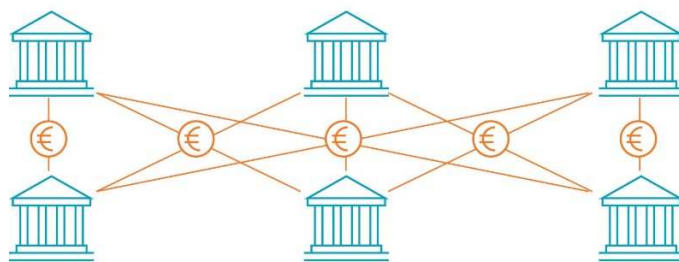
The first reason to consider CBDCs is that they would be a liability of a central bank and would therefore not require any deposit insurance. CBDCs would be issued and maintained by a central bank, which would provide the underlying technical architecture. Commercial bank deposits, on the other hand, are the liability of fallible entities and must be backed by reserves. Meanwhile, banks can use the deposits they receive as they please, within regulatory boundaries. They can, for example, lend them to individuals or companies.

Figure 2 | Two main types of CBDCs

Retail CBDC



Wholesale CBDC



Source: Visa, Robeco.

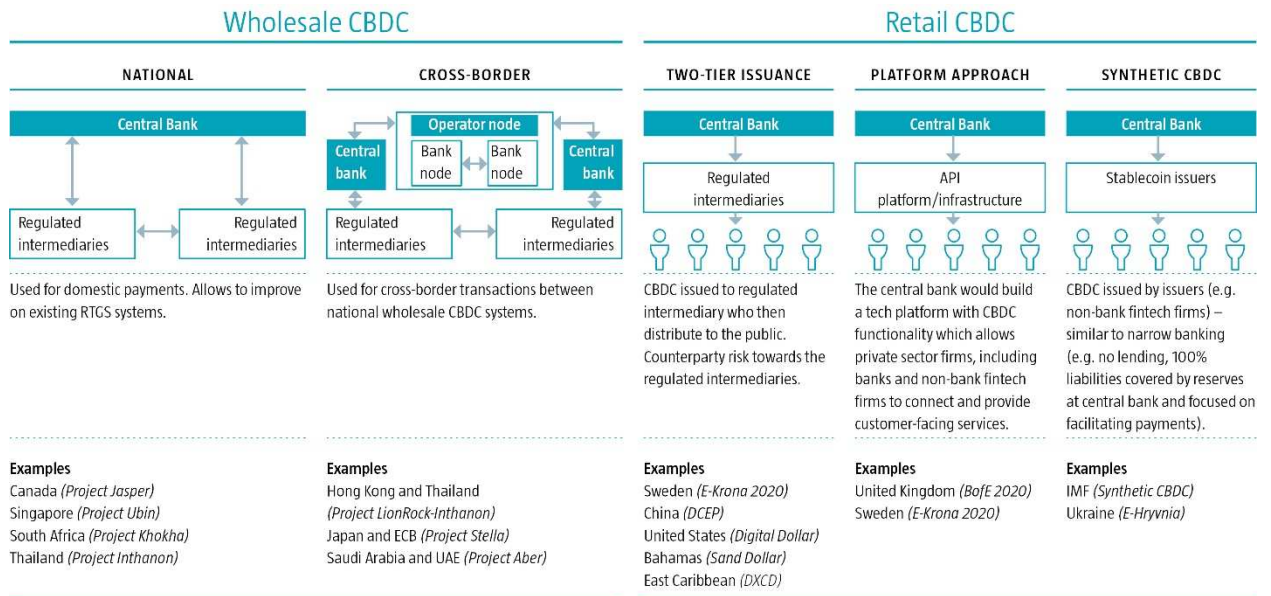
A second important reason to consider CBDCs is that they could eliminate, or at least reduce, the need for financial intermediaries, such as commercial banks and payments processors, to transfer money and perform payments. This could lead to lower friction costs for users. However, it would also depend on the type of CBDC chosen, with the main distinction being made between wholesale and retail CBDCs (see Figure 2), and whether regulated financial intermediaries should be part of the issuance of CBDCs.

Figure 3 describes the different types of CBDCs in more detail and provides examples of countries exploring them. One key difference between CBDCs and existing traditional currencies is that with retail CBDCs, individuals could have an account directly with a central bank. As a consequence, central banks opting for this model would need to perform 'know-your-customer' (KYC) and 'anti-money-laundering' (AML) checks. These grueling tasks are currently performed by heavily regulated financial institutions, typically commercial banks, many of which have been heavily fined for their shortcomings.

This choice between setting up direct retail accounts at the central bank, or still using commercial banks as intermediaries, brings us to the third important reason for central banks to consider CBDCs: improving financial inclusion. This is relevant not only in emerging countries but also in developed ones, where a non-negligible share of the population still doesn't have access to a bank account. According to the World Bank, 1.7 billion adults across the world, or 31% of all adults, did not have a basic transaction account in 2017, even after 1.2 billion people opened a bank account between 2011 and 2017.²

² See: "The global Findex Database 2017" report, The World Bank.

Figure 3 | CBDCs and their characteristics



Source: Henri Arslanian/Twitter, Robeco, August 2020.

Commercial banks are typically reluctant to open bank accounts for individuals who do not offer enough business potential. However, the possibility of opening bank accounts directly at a central bank would be one way to help solve this problem, although this would require central banks to perform KYC and AML duties. Another solution would be to create digital wallets with ‘tokenized’ CBDCs.³ This, however, would result in limited financial services and not really solve the financial inclusion problem.

A third solution would be to encourage commercial banks and other regulated intermediaries to enable CBDC accounts for everyone with a phone (i.e., mobile phone number) and proof of their (digital) identity. This type of account would help banks build financial data over time and ultimately make it possible for unbanked individuals to apply for a loan, for example. Central banks could also incentivize the opening of such CBDC accounts by adding to their balance, with specific spending instructions. In other words: helicopter Money 2.0.

Mainland China as a precursor

As already mentioned, Mainland China’s PBoC seems to be the most advanced in this field among the world’s major central banks. The PBoC has already deployed its so-called DCEP system in various Chinese cities using special bank accounts accessible through mobile phones. With this digital cash, individuals can carry out transactions with selected merchants, without using Chinese yuan coins and banknotes, nor the QR code-based payment systems offered by Alibaba and Tencent.

Interestingly, this Chinese digital currency is only mentioned as a two-tiered retail CBDC in Figure 3, even though the country seems very likely to investigate a potential cross-border wholesale CBDC. Will China introduce a wholesale CBDC that may become a serious competitor to traditional reserve currencies such as the Japanese yen, euro, and, most importantly, US dollar? This may seem like a long shot today, but the situation could evolve rapidly, given China’s ambition to expand its influence across the globe.

³ The term ‘tokenization’ refers to the process of issuing a blockchain token that digitally represents a specific real tradable asset.

China continues to develop its 'Belt and Road' initiative, which started as a global infrastructure development strategy but now increasingly comprises initiatives designed to acquire technological capabilities, stimulate international trade and gain additional knowledge beyond the initial plan of building physical infrastructure that enables transport along the original historic trade routes between the east and the west. In this context, launching a wholesale CBDC would seem like a logical step.

Potential impact on banking systems

As central banks continue to look for a response to Facebook's Diem, China's nascent CBDC and rising competition from cryptocurrencies, one would almost forget the potential impact of CBDCs on banking systems. In our view, the economic damage could be significant if central banks were to launch retail and wholesale CBDCs that would squeeze out most of the commercial banking system. For one, despite challenger banks, fintech companies and tech giants encroaching on the most profitable segments of financial services, incumbent commercial banks still fulfill very important roles.

In the absence of credible technological solutions to ensure (digital) identification, as well as KYC and AML duties, traditional commercial banks will remain much needed. The Aadhaar project sponsored by the government of India, for digital identification, provides a good example. Aadhaar is a 12-digit unique identity number based on biometric and demographic data. But its status has become less powerful since September 2018, after the Supreme Court of India upheld the use of Aadhaar, but declared its mandatory linking with bank accounts or mobile SIM cards as unconstitutional.

The ruling came after several Indian civil rights groups voiced privacy concerns. The Indian government is clearly frustrated about the ruling, as it hampers financial inclusion which had greatly improved with the help of Aadhaar. As a result of the Court's ruling, Aadhaar is not mandatory to open bank accounts, getting a mobile phone number or being admitted to a school. Despite that, however, Aadhaar remains in use. Minor adjustments could perhaps address the privacy concerns raised.

One additional and very fundamental function of commercial banks is to provide funding to the economy. Banks take deposits and lend money to individuals and companies. The introduction of CBDCs could change those dynamics depending on their design. Potential funding shortages could be 'solved' by offering direct central bank funding. But that would increase the economic power of central banks, while many of them – due to their independent status – are not subject to any type of significant control from governments.

Finally, the potential economic impact resulting from central banks deciding to play a more important role in cross-border money transfers, through wholesale digital currencies, could also be material. On the positive side, such currencies could replace existing and less efficient international money transfer systems, such as SWIFT. However, wholesale digital currencies could also challenge, and potentially kill, other more efficient commercial initiatives, thus restricting potential innovation.

All in all, we believe that most large central banks will therefore be very cautious when they eventually implement CBDCs. For example, they might restrict individuals to limited deposits with them. This would curtail potentially destabilizing deposit flights from commercial banks to central banks once retail CBDCs are introduced. From this perspective, the disruption in the financial industry, that can be expected from the rise of CBDCs, should remain relatively limited for the foreseeable future.

Important Information

Robeco Institutional Asset Management B.V. has a license as manager of Undertakings for Collective Investment in Transferable Securities (UCITS) and Alternative Investment Funds (AIFs) (“Fund(s)”) from The Netherlands Authority for the Financial Markets in Amsterdam. This marketing document is solely intended for professional investors, defined as investors qualifying as professional clients, have requested to be treated as professional clients or are authorized to receive such information under any applicable laws. Robeco Institutional Asset Management B.V. and/or its related, affiliated and subsidiary companies, (“Robeco”), will not be liable for any damages arising out of the use of this document. Users of this information who provide investment services in the European Union have their own responsibility to assess whether they are allowed to receive the information in accordance with MiFID II regulations. To the extent this information qualifies as a reasonable and appropriate minor non-monetary benefit under MiFID II, users that provide investment services in the European Union are responsible to comply with applicable recordkeeping and disclosure requirements. The content of this document is based upon sources of information believed to be reliable and comes without warranties of any kind. Without further explanation this document cannot be considered complete. Any opinions, estimates or forecasts may be changed at any time without prior warning. If in doubt, please seek independent advice. It is intended to provide the professional investor with general information on Robeco’s specific capabilities, but has not been prepared by Robeco as investment research and does not constitute an investment recommendation or advice to buy or sell certain securities or investment products and/or to adopt any investment strategy and/or legal, accounting or tax advice. All rights relating to the information in this document are and will remain the property of Robeco. This material may not be copied or used with the public. No part of this document may be reproduced, or published in any form or by any means without Robeco’s prior written permission. Investment involves risks. Before investing, please note the initial capital is not guaranteed. Investors should ensure that they fully understand the risk associated with any Robeco product or service offered in their country of domicile. Investors should also consider their own investment objective and risk tolerance level. Historical returns are provided for illustrative purposes only. The price of units may go down as well as up and the past performance is not indicative of future performance. If the currency in which the past performance is displayed differs from the currency of the country in which you reside, then you should be aware that due to exchange rate fluctuations the performance shown may increase or decrease if converted into your local currency. The performance data do not take account of the commissions and costs incurred on trading securities in client portfolios or on the issue and redemption of units. Unless otherwise stated, the prices used for the performance figures of the Luxembourg-based Funds are the end-of-month transaction prices net of fees up to 4 August 2010. From 4 August 2010, the transaction prices net of fees will be those of the first business day of the month. Return figures versus the benchmark show the investment management result before management and/or performance fees; the Fund returns are with dividends reinvested and based on net asset values with prices and exchange rates of the valuation moment of the benchmark. Please refer to the prospectus of the Funds for further details. Performance is quoted net of investment management fees. The ongoing charges mentioned in this document are the ones stated in the Fund’s latest annual report at closing date of the last calendar year. This document is not directed to, or intended for distribution to or use by any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, document, availability or use would be contrary to law or regulation or which would subject any Fund or Robeco Institutional Asset Management B.V. to any registration or licensing requirement within such jurisdiction. Any decision to subscribe for interests in a Fund offered in a particular jurisdiction must be made solely on the basis of information contained in the prospectus, which information may be different from the information contained in this document. Prospective applicants for shares should inform themselves as to legal requirements also applying and any applicable exchange control regulations and applicable taxes in the countries of their respective citizenship, residence or domicile. The Fund information, if any, contained in this document is qualified in its entirety by reference to the prospectus, and this document should, at all times, be read in conjunction with the prospectus. Detailed information on the Fund and associated risks is contained in the prospectus. The prospectus and the Key Investor Information Document for the Robeco Funds can all be obtained free of charge at www.robeco.com.

Additional Information for US investors

Robeco is considered “participating affiliated” and some of their employees are “associated persons” of Robeco Institutional Asset Management US Inc. (“RIAM US”) as per relevant SEC no-action guidance. Employees identified as associated persons of RIAM US perform activities directly or indirectly related to the investment advisory services provided by RIAM US. In those situations these individuals are deemed to be acting on behalf of RIAM US, a US SEC registered investment adviser. SEC regulations are applicable only to clients, prospects and investors of RIAM US. RIAM US is wholly owned subsidiary of ORIX Corporation Europe N.V. and offers investment advisory services to institutional clients in the US.

Additional Information for investors with residence or seat in Australia and New Zealand

This document is distributed in Australia by Robeco Hong Kong Limited (ARBN 156 512 659) (“Robeco”), which is exempt from the requirement to hold an Australian financial services license under the Corporations Act 2001 (Cth) pursuant to ASIC Class Order 03/1103. Robeco is regulated by the Securities and Futures Commission under the laws of Hong Kong and those laws may differ from Australian laws. This document is distributed only to “wholesale clients” as that term is defined under the Corporations Act 2001 (Cth). This document is not for distribution or dissemination, directly or indirectly, to any other class of persons. In New Zealand, this document is only available to wholesale investors within the meaning of clause 3(2) of Schedule 1 of the Financial Markets Conduct Act 2013 (“FMCA”). This document is not for public distribution in Australia and New Zealand.

Additional Information for investors with residence or seat in Austria

This information is solely intended for professional investors or eligible counterparties in the meaning of the Austrian Securities Oversight Act.

Additional Information for investors with residence or seat in Brazil

The Fund may not be offered or sold to the public in Brazil. Accordingly, the Fund has not been nor will be registered with the Brazilian Securities Commission – CVM, nor has it been submitted to the foregoing agency for approval. Documents relating to the Fund, as well as the information contained therein, may not be supplied to the public in Brazil, as the offering of the Fund is not a public offering of securities in Brazil, nor may they be used in connection with any offer for subscription or sale of securities to the public in Brazil.

Additional Information for investors with residence or seat in Canada

No securities commission or similar authority in Canada has reviewed or in any way passed upon this document or the merits of the securities described herein, and any representation to the contrary is an offence. Robeco Institutional Asset Management B.V. is relying on the international dealer and international adviser exemption in Quebec and has appointed McCarthy Tétrault LLP as its agent for service in Quebec.

Additional Information for investors with residence or seat in the Republic of Chile

Neither Robeco nor the Robecofunds have been registered with the *Comisión para el Mercado Financiero* pursuant to law no. 18.045, the *Ley de Mercado de Valores* and regulations thereunder. This document does not constitute an offer of, or an invitation to subscribe for or purchase, shares of the Funds in the Republic of Chile, other than to the specific person who individually requested this information on his own initiative. This may therefore be treated as a “private offering” within the meaning of article 4 of the *Ley de Mercado de Valores* (an offer that is not addressed to the public at large or to a certain sector or specific group of the public).

Additional Information for investors with residence or seat in Colombia

This document does not constitute a public offer in the Republic of Colombia. The offer of the Fund is addressed to less than one hundred specifically identified investors. The Fund may not be promoted or marketed in Colombia or to Colombian residents, unless such promotion and marketing is made in compliance with Decree 2555 of 2010 and other applicable rules and regulations related to the promotion of foreign Funds in Colombia.

Additional Information for investors with residence or seat in the Dubai International Financial Centre (DIFC), United Arab Emirates

This material is being distributed by Robeco Institutional Asset Management B.V. (DIFC Branch) located at Office 209, Level 2, Gate Village Building 7, Dubai International Financial Centre, Dubai, PO Box 482060, UAE. Robeco Institutional Asset Management B.V. (DIFC Branch) is regulated by the Dubai Financial Services Authority (“DFSA”) and only deals with Professional Clients or Market Counterparties and does not deal with Retail Clients as defined by the DFSA.

Additional Information for investors with residence or seat in France

Robeco Institutional Asset Management B.V. is at liberty to provide services in France. Robeco France is a subsidiary of Robeco whose business is based on the promotion and distribution of the group’s funds to professional investors in France.

Additional Information for investors with residence or seat in Germany

This information is solely intended for professional investors or eligible counterparties in the meaning of the German Securities Trading Act.

Additional Information for investors with residence or seat in Hong Kong

The contents of this document have not been reviewed by the Securities and Futures Commission (“SFC”) in Hong Kong. If you are in any doubt about any of the contents of this document, you should obtain independent professional advice. This document has been distributed by Robeco Hong Kong Limited (“Robeco”). Robeco is regulated by the SFC in Hong Kong.

Additional Information for investors with residence or seat in Italy

This document is considered for use solely by qualified investors and private professional clients (as defined in Article 26 (1) (b) and (d) of Consob Regulation No. 16190 dated 29 October 2007). If made available to Distributors and individuals authorized by Distributors to conduct promotion and marketing activity, it may only be used for the purpose for which it was conceived. The data and information contained in this document may not be used for communications with Supervisory Authorities. This document does not include any information to determine, in concrete terms, the investment inclination and, therefore, this document cannot and should not be the basis for making any investment decisions.

Additional Information for investors with residence or seat in Japan

This document is considered for use solely by qualified investors and are being distributed by Robeco Japan Company Limited, registered in Japan as a Financial Instruments Business Operator, [Registered No. the Director of Kanto Local Financial Bureau (Financial Instruments Business Operator), No. 2780, Member of Japan Investment Advisors Association].

Additional Information for investors with residence or seat in Mexico

The funds have not been and will not be registered with the National Registry of Securities, maintained by the Mexican National Banking and Securities Commission and, as a result, may not be offered or sold publicly in Mexico. Robeco and any underwriter or purchaser may offer and sell the funds in Mexico on a private placement basis to Institutional and Accredited Investors, pursuant to Article 8 of the Mexican Securities Market Law.

Additional Information for investors with residence or seat in Peru

The Fund has not been registered with the Superintendencia del Mercado de Valores (SMV) and is being placed by means of a private offer. SMV has not reviewed the information provided to the investor. This document is only for the exclusive use of institutional investors in Peru and is not for public distribution.

Additional Information for investors with residence or seat in Shanghai

This material is prepared by Robeco Overseas Investment Fund Management (Shanghai) Limited Company (“Robeco Shanghai”) and is only provided to the specific objects under the premise of confidentiality. Robeco Shanghai was registered as a private fund manager with the Asset Management Association of China in September 2018. Robeco Shanghai is a wholly foreign-owned enterprise established in accordance with the PRC laws, which enjoys independent civil rights and civil obligations. The statements of the shareholders or affiliates in the material shall not be deemed to a promise or guarantee of the shareholders or affiliates of Robeco Shanghai, or be deemed to any obligations or liabilities imposed to the shareholders or affiliates of Robeco Shanghai.

Additional Information for investors with residence or seat in Singapore

This document has not been registered with the Monetary Authority of Singapore (“MAS”). Accordingly, this document may not be circulated or distributed directly or indirectly to persons in Singapore other than (i) to an institutional investor under Section 304 of the SFA, (ii) to a relevant person pursuant to Section 305(1), or any person pursuant to Section 305(2), and in accordance with the conditions specified in Section 305, of the SFA, or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA. The contents of this document have not been reviewed by the MAS. Any decision to participate in the Fund should be made only after reviewing the sections regarding investment considerations, conflicts of interest, risk factors and the relevant Singapore selling restrictions (as described in the section entitled “Important Information for Singapore Investors”) contained in the prospectus. You should consult your professional adviser if you are in doubt about the stringent restrictions applicable to the use of this document, regulatory status of the Fund, applicable regulatory protection, associated risks and suitability of the Fund to your objectives. Investors should note that only the sub-Funds listed in the appendix to the section entitled “Important Information for Singapore Investors” of the prospectus (“Sub-Funds”) are available to Singapore investors. The Sub-Funds are notified as restricted foreign schemes under the Securities and Futures Act, Chapter 289 of Singapore (“SFA”) and are invoking the exemptions from compliance with prospectus registration requirements pursuant to the exemptions under Section 304 and Section 305 of the SFA. The Sub-Funds are not authorized or recognized by the MAS and shares in the Sub-Funds are not allowed to be offered to the retail public in Singapore. The prospectus of the Fund is not a prospectus as defined in the SFA. Accordingly, statutory liability under the SFA in relation to the content of prospectuses would not apply. The Sub-Funds may only be promoted exclusively to persons who are sufficiently experienced and sophisticated to understand the risks involved in investing in such schemes, and who satisfy certain other criteria provided under Section 304, Section 305 or any other applicable provision of the SFA and the subsidiary legislation enacted thereunder. You should consider carefully whether the investment is suitable for you. Robeco Singapore Private Limited holds a capital markets services license for fund management issued by the MAS and is subject to certain clientele restrictions under such license.

Additional Information for investors with residence or seat in Spain

Robeco Institutional Asset Management BV, Sucursal en España with identification number W0032687F and having its registered office in Madrid at Calle Serrano 47-14º, is registered with the Spanish Commercial Registry in Madrid, in volume 19.957, page 190, section 8, sheet M-351927 and with the National Securities Market Commission (CNMV) in the Official Register of branches of European investment services companies, under number 24. The investment funds or SICAV mentioned in this document are regulated by the corresponding authorities of their country of origin and are registered in the Special Registry of the CNMV of Foreign Collective Investment Institutions marketed in Spain.

Additional Information for investors with residence or seat in South Africa

Robeco Institutional Asset Management B.V. is registered and regulated by the Financial Sector Conduct Authority in South Africa.

Additional Information for investors with residence or seat in Switzerland

The Fund(s) are domiciled in Luxembourg. This document is exclusively distributed in Switzerland to qualified investors as defined in the Swiss Collective Investment Schemes Act (CISA). This material is distributed by Robeco Switzerland Ltd, postal address: Josefstrasse 218, 8005 Zurich, ACOLIN Fund Services AG, postal address: Afoltenstrasse 56, 8050 Zurich, acts as the Swiss representative of the Fund(s). UBS Switzerland AG, Bahnhofstrasse 45, 8001 Zurich, postal address: Europastrasse 2, P.O. Box, CH-8152 Opfikon, acts as the Swiss paying agent. The prospectus, the Key Investor Information Documents (KIIDs), the articles of association, the annual and semi-annual reports of the Fund(s), as well as the list of the purchases and sales which the Fund(s) has undertaken during the financial year, may be obtained, on simple request and free of charge, at the office of the Swiss representative ACOLIN Fund Services AG. The prospectuses are also available via the website www.robeco.ch.

Additional Information relating to RobecoSAM-branded funds / services

Robeco Switzerland Ltd, postal address Josefstrasse 218, 8005 Zurich, Switzerland has a license as asset manager of collective assets from the Swiss Financial Market Supervisory Authority FINMA. RobecoSAM-branded financial instruments and investment strategies referring to such financial instruments are generally managed by Robeco Switzerland Ltd. The RobecoSAM brand is a registered trademark of Robeco Holding B.V. The brand RobecoSAM is used to market services and products which do entail Robeco’s expertise on Sustainable Investing (SI). The brand RobecoSAM is not to be considered as a separate legal entity.

Additional Information for investors with residence or seat in Liechtenstein

This document is exclusively distributed to Liechtenstein-based duly licensed financial intermediaries (such as e.g. banks, discretionary portfolio managers, insurance companies, fund of funds, etc.) which do not intend to invest on their own account into Fund(s) displayed in the document. This material is distributed by Robeco Switzerland Ltd, postal address: Josefstrasse 218, 8005 Zurich, Switzerland. LGT Bank Ltd., Herrengasse 12, FL-9490 Vaduz, Liechtenstein acts as the representative and paying agent in Liechtenstein. The prospectus, the Key Investor Information Documents (KIIDs), the articles of association, the annual and semi-annual reports of the Fund(s) may be obtained from the representative or via the website www.robeco.ch.

Additional Information for investors with residence or seat in the United Arab Emirates

Some Funds referred to in this marketing material have been registered with the UAE Securities and Commodities Authority (the Authority). Details of all Registered Funds can be found on the Authority’s website. The Authority assumes no liability for the accuracy of the information set out in this material/document, nor for the failure of any persons engaged in the investment Fund in performing their duties and responsibilities.

Additional Information for investors with residence or seat in the United Kingdom

Robeco is subject to limited regulation in the UK by the Financial Conduct Authority. Details about the extent of our regulation by the Financial Conduct Authority are available from us on request.

Additional Information for investors with residence or seat in Uruguay

The sale of the Fund qualifies as a private placement pursuant to section 2 of Uruguayan law 18,627. The Fund must not be offered or sold to the public in Uruguay, except in circumstances which do not constitute a public offering or distribution under Uruguayan laws and regulations. The Fund is not and will not be registered with the Financial Services Superintendency of the Central Bank of Uruguay. The Fund corresponds to investment funds that are not investment funds regulated by Uruguayan law 16,774 dated September 27, 1996, as amended.