

# Beyond giving

New ways to channel philanthropic funding that drive increased investment into the Sustainable Development Goals

A report by the UBS Sustainability and Impact Institute  
August 2023



# Contents

Contents .....	2
Executive Summary .....	3
1. From philanthropy to impact .....	4
2. Recognizing what matters.....	6
3. Data for transparent impact .....	8
4. Joining forces for greater good.....	10
5. Leveraging all forms of capital .....	12
6. Summing up.....	15
About the Institute.....	16
Disclaimer.....	17

**Authors:**

Nalini Tarakeshwar  
Karin Tang

**Editor:**

Richard Morrow

**Reviewers:**

Maya Ziswiler  
Mike Ryan  
Grégoire Muhr  
William Nicole  
Jackie Bauer

**Project Management:**

Jackie Bauer

# Executive Summary

Philanthropic efforts have long helped to alleviate poverty and direct funds into areas that are left behind by profit-oriented forms of investment. However, philanthropic capital is also well placed to play a unique and potentially vital role as the world looks to adapt its output-focused economy to become more sustainable, evolving to the impact economy.

Mounting concerns about climate change, biodiversity loss and social inequity are putting pressure on countries to shift their economic focus from solely looking at maximizing production levels to also considering the inherent value of natural capital, biodiversity, and the ecological health of the planet. This requires a shift to the impact economy, which would place quantifiable values on natural resources and social equality.

Philanthropy can play an important role in this adjustment. Funds used for philanthropic purposes are, by definition, not concerned about investment returns, but their capital is carefully monitored for real-world value, or impact. These funds can be utilized with the larger pool of profit-oriented private capital to support the many investment projects that are urgently required to combat climate change and biodiversity loss.

The idea would be to combine public finance, philanthropic capital, and private capital in varying forms of blended finance. The philanthropic element would be integral to this, as it can act as a catalyst to support relatively risky projects and help to ensure funds are employed effectively so as to maximize impact.

For example, philanthropic capital can potentially work with public or multilateral funds to act as first-loss absorbers when it comes to financing emerging technologies or to support investments into infrastructure projects in emerging countries. This blended finance approach should help to persuade major asset owners such as pension funds, sovereign wealth funds and major asset management companies to use some of their investment capital to support these projects.

# 1. From philanthropy to impact

---

## At a glance

- The rise of the impact economy brings an opportunity for philanthropy to do more with its resources and to have greater impact.
  - In doing so, philanthropy can help demonstrate the viability of the impact economy and create the conditions for it to flourish.
- 

In our May 2023 paper, *The Rise of the Impact Economy*<sup>1</sup>, we highlighted the need for the world economy to shift away from a sole focus on one-dimensional output measures such as gross domestic product and toward a broader set of socioeconomic outcomes and impacts that would enable people and planet to thrive, simultaneously and sustainably, long into the future.

“An impact economy is one that balances people, profit and planet, and it understands the interconnection between them.” Fiona Reynolds, CEO of Conexus Financial, speaking to *Monocle’s Bulletin* with UBS

The paper introduced the potential of philanthropy to catalyze investment into impact by brokering social investments such as those that use blended finance approaches. In this follow-on analysis, we delve deeper into how philanthropy can support the rise of the impact economy. It is an opportunity that is already crystallizing as societal norms, financial innovation, data revolutions and strategic alliances align to support more impactful philanthropy, in service of a fairer economic system.

## The promise of philanthropy for the impact economy of tomorrow

Global philanthropy today stands at about USD 1.2 trillion, but it is expected to grow tenfold over the next 20 years to reach nearly USD 12 trillion. As the scale of philanthropy continues to grow, so does its scope. Increasingly, philanthropists focus less on “how much” has been spent (which tells us nothing about the outcomes and impact philanthropy generates for people and planet) than “how” funds are spent, and whether they are being allocated equitably and sustainably.

One way that philanthropists can have a bigger impact is by putting funds to work through social investments that combine philanthropic with other forms of capital. Philanthropic capital can bridge the gap between public finance that targets the common good and private finance that targets individual returns. Used thoughtfully, it can be flexible and nimble, responding quickly to needs as

---

<sup>1</sup> <https://www.ubs.com/impact-economy>

they arise; or it can support long-term results that are more systemic<sup>2</sup> and more sustainable. Philanthropic capital can take greater risks without requiring higher returns.

This approach fits neatly in an impact economy, where the lines begin to blur between private finance, impact investing and philanthropy, and where silos between different forms of capital—public and private, catalytic, and commercial—start to blur.

This provides an unprecedented opportunity for philanthropy to do more: to play an essential role, alongside governments, businesses, and the financial sector, in demonstrating the viability of the impact economy and creating the conditions for it to flourish.

---

<sup>2</sup> A systemic change is a modification to how a system works, and what happens as a result. It should be sustainable, scalable and resilient. See DCED (2021) 'Assessing Systemic Change. Implementation Guidelines for the DCED Standard'

## 2. Recognizing what matters

---

### At a glance

- Philanthropy and the impact economy share an understanding of “value” which recognizes the importance of natural, social, and human capital, and not just produced capital.
  - Value is vested in the impacts and outcomes—the real-world change—that economic activities generate, and not just the outputs.
- 

Impact economics resets our approach to economic thinking by broadening our mindset as to what we value and how we measure that value. First, it redefines “value” to encompass assets such as natural, social, and human capital, in addition to produced capital. That value, once known, can then be accounted for in financial markets, enabling investment that is based on “impact-adjusted” returns.

The carbon markets have demonstrated, albeit imperfectly, how an intangible good (the absence of or reduction in carbon emissions) can be priced and traded in order to bring about a positive result, namely less CO<sub>2</sub> in the atmosphere. Such models can deliver other positive results, including financial and non-financial benefits for communities whose activities, such as protecting mangroves, contribute to the reduction of carbon emissions. Similarly, “outcomes-based” contracts reward providers for delivering social and environmental outcomes. For example, a development impact bond (DIB) such as the Quality Education India DIB, charges a lower interest rate if borrowers achieve above-target results—in this case increased levels of learning among primary school children in India.

As natural, social, and human capital become more integrated in financial markets, the social and environmental agenda of philanthropy will become increasingly aligned with that of the main economy. Second, the impact economy considers all the impacts and outcomes of economic activities when calculating their value, rather than focusing on their outputs alone (box 1). For example, an education program designed to address child labor in coffee plantations may have the output of training a set of teachers; but its full value lies in medium-term outcomes such as improvements in literacy skills, and in long-term impact such as a measurable reduction in child labor. These achievements may take several years to materialize, but they hold considerable value for any society.

### **Box 1: Outputs, outcomes, and impact—what’s the difference?**

The Organisation for Economic Co-operation and Development (OECD) defines the results of development interventions as follows:

- **Outputs:** The products, capital goods, and services which result from development interventions.
- **Outcomes:** The likely or achieved short-term and medium-term change and effects of intervention outputs.
- **Impact:** Positive and negative, primary, and secondary, long-term effects produced by development interventions.

Third, the impact economy depends on the ability to be able to measure and verify impacts and outcomes, and this aligns well with the evolution of development assistance. For more than three decades the global development agenda has increasingly sought to establish the principle that development assistance should do more than just give money to good causes, and that this money should demonstrably help to create the outcomes and impacts that funders, sovereign governments, and communities want to see.

This trend was crystallized in 2005 with the Paris Declaration on Aid Effectiveness and then further reinforced in 2011 by the Global Partnership for Effective Development Cooperation, which had been established in Busan, South Korea. These agreements are designed to enhance the effectiveness of development cooperation and they have been reflected in the evolving agendas of foundations and organizations such as the Center for Effective Philanthropy.

The focus on outcomes has been equally important for private philanthropy. As philanthropic funding for social and environmental causes has grown, so has research and advice on “good donorship” that ensures funding delivers genuine change<sup>3</sup>.

---

<sup>3</sup> <https://pacscenter.stanford.edu/research/effective-philanthropy-learning-initiative/>

# 3. Data for transparent impact

---

## At a glance

- Harmonized standards and benchmarks for measurement of impact are the bedrock on which a mature impact economy rests.
  - Impact evaluation to assess the change—the impacts and outcomes—of funded interventions has transformative power to shine a light on what works.
  - Philanthropy brings a long track record of monitoring and evaluation to support the task of developing robust standards and benchmarks that could be game-changing.
- 

The full introduction of the impact economy will take time. As of today, there is no general agreement about how to value impact in a way that allows for meaningful comparisons between various social and environmental impacts. The impact economy can only be realized by creating credible standards for what to measure and how to measure it, how to judge what level of impact is “good enough”, and, finally, equitable methods to value these impacts.

Philanthropy can play an important role in this process. The industry has a long track record of accounting (to donors, implementing organizations, and communities) for the results of philanthropic funding. One established best practice is that of impact evaluation, which assesses the change caused by an intervention, before and after, or over time. Impact evaluations are now routinely conducted and have contributed to a global evidence base of what works, for whom, and in which contexts. Box 2 illustrates how impact evaluation has demonstrated the effectiveness of a primary school teaching approach, helping to promote its wider adoption and replication.

The transformative power of rigorous impact evaluation was internationally recognized in 2019 when the Nobel Prize for Economics was awarded to Esther Duflo, Abhijit Banerjee, and Michael Kremer. Their innovative work demonstrated how experimental impact evaluation methods can provide reliable answers about the best ways to fight global poverty, covering topics such as health, education, agriculture, and gender.

Once they have been shown to work, social and environmental programs need to scale with public and/or private sources of funding. In place of impact evaluations, we need simpler and standardized metrics, tools, and benchmarks to indicate if a program is on track to achieve its desired impact.

The Global Impact Investment Network (GIIN) offers one example. It has developed the “IRIS+” system for measuring and managing impact based on core metric sets, which are designed to be consistent with other frameworks. Another possibility would be to create a single, composite rating for certain forms of investments which, like a bond rating, provides an at-a-glance indicator of how impactful they are. This is important if philanthropists and investors are to continue to invest in these programs.



**Box 2: The role of impact evaluation in knowing what works: Teaching at the Right Level**

Traditionally, school children are grouped based on age. Indian NGO Pratham, however, aims to build foundational reading and math skills by grouping primary school children based on learning levels instead, using an approach called Teaching at the Right Level (TaRL).

The approach assesses children's learning levels using a simple tool and works with each group using a range of engaging teaching and learning activities. It focuses on foundational skills rather than solely on the curriculum, and tracks children's progress.

Rigorous impact evaluations across several countries have proven TaRL to be highly cost-effective in improving learning outcomes. In India, for instance, various versions of TaRL have been shown to produce large gains in numeracy and literacy. Before a 50-day supplemental school program was implemented, 39 percent of children could not recognize letters and 85 percent could not read a paragraph or story. Children who did not receive TaRL instructions made little improvement. But for children who participated in the program, assessment evidence showed 92 percent could recognize letters and 49 percent could read a paragraph or story. The evaluations also find that the method has the best results when teachers are mentored in the approach and when governments have strong ownership of the program and data on children's learning.

Based on this evidence, TaRL is considered a "smart buy" in improving learning in low- and middle-income countries. According to the Global Education Evidence Advisory Panel, public and private investment in proven approaches such as TaRL are urgently needed to address the learning loss due to COVID-19.

There are risks to overly simplifying and standardizing such measurement. Moreover, seeing philanthropic giving as a for-profit investment—philanthrocapitalism—has been criticized for the power it gives to those who have benefited from the inequities perpetuated by the global economic system. In addition, there is skepticism about the benefits of a focus on efficiency, measurement, and management for those affected by these inequities. Issues resulting from gender-based power imbalance, for example, are harder to "quantify" and will take time to change.

An impact economy with a standardized and transparent measurement and management approach provides an opportunity to build trust among all the stakeholders involved. Frameworks and metrics such as those of the Sustainable Development Goals, the Impact Management Project, and IRIS+ have contributed to a common understanding and taxonomy around impact and which metrics are to be used. What is currently missing are the standards around how to track these metrics and performance benchmarks.

The creation of a standard impact rating methodology could be game-changing in helping to bring this about, especially when complemented by an "impact marketplace" (learning from the carbon markets) where such ratings are verified by independent parties and shared with donors for investment.

# 4. Joining forces for greater good

---

## At a glance

- Philanthropic partnerships provide a platform for advocating for action to achieve the objectives of the impact economy.
  - They can use their influence to help facilitate new kinds of alliances, focused on addressing intractable challenges.
  - And they can be a force for ensuring equal and inclusive partnerships, in which all stakeholders have voice and representation.
- 

Philanthropic partnerships are important channels for amplifying reach and impact. They serve three important and interrelated objectives that, taken together, can help develop the institutional capacity that would be needed for a robust and fair impact economy:

### 1. Advocacy and influence

Philanthropists have platforms and resources that enable them to advocate for positive social and environmental change. They can work through their networks to raise awareness among diverse stakeholders, build coalitions and consensus, mobilize resources, and help change mindsets.

This provides philanthropists with a lever to help move the agenda from debate to action at a global scale, to help embed the impact economy. Amazon founder Jeff Bezos announced his Climate Pledge to reach net zero carbon emissions 10 years ahead of the 2050 Paris Agreement deadline; so far more than 400 companies have signed up to the pledge. Companies that do so have to make tangible commitments to regularly report greenhouse gas emissions, implement real business changes that eliminate carbon, and credibly offset any remaining emissions.

### 2. Convening diverse stakeholders around critical issues

Catalytic collaborations with partners and leaders in the impact space will be needed to bring together commitment, assets, and expertise from across different stakeholder groups to address difficult challenges more effectively and build a broad coalition around the goals of the impact economy. The philanthropic sector is key in this stakeholder universe, alongside governments, business, and civil society.

Landmark examples include the Bill & Melinda Gates Foundation which, in the late 1990s, successfully moved the topic of immunization up the global agenda and spearheaded a partnership with the World Health Organization, UNICEF, and the World Bank to establish Gavi, the Vaccine Alliance.

Today, Gavi vaccinates almost half of the world's children and has been central to the COVAX program to guarantee fair and equitable access to COVID-19 vaccines.

An impact economy will require innovative types of partnership that can unlock entrenched technical, social, or political positions and provide new ways of tackling stubborn problems. It will be important to be open to evolving types of partnership and the potential for innovation that they offer.

An example of this is Project Last Mile, which brought together the Coca-Cola Company, the Bill & Melinda Gates Foundation, USAID, and the Global Fund to Fight AIDS, Tuberculosis and Malaria to help provide access to essential medicines. This innovative, cross-sectoral partnership applies Coca-Cola's supply chain intelligence and networks to improve the functioning of medical supply chains in countries such as Mozambique, Tanzania, and Nigeria, and ensure that essential medicines get to the last mile in a sustainable and scalable way.

### **3. Ensuring just transitions for all**

At the heart of all philanthropy are the many different communities that the funding is intended to serve. These are often communities that are marginalized economically, politically, and socially, through unequal growth, undemocratic systems and practices, or denial of their basic human rights.

A fundamental principle of impact partnerships should be to ensure communities have a voice and representation in decision-making that affects their assets and resources, their lives and livelihoods. The Agency Fund<sup>4</sup> is a good example of a multi-donor collaborative that was established to change the funding ecosystem and expand people's agency and self-determination; and the Child Learning and Education Facility (CLEF) illustrates how multi-sector partnerships can bring together public, private, and civil society actors, to ensure voice and representation for all stakeholders (box 3).

#### **Box 3: Working through partnerships for scale, sustainability and effective collaboration**

Children in poor households in Côte d'Ivoire are at high risk of being recruited for child labor, including in the harvesting of cocoa and coffee. There have been several projects run by different ministries within government, bilateral donors, and cocoa industry partners to improve farmer livelihoods, increase access to education, and provide poverty relief to these households.

In February 2023, the Child Learning and Education Facility was launched, a USD 77 million public-private partnership between the Government of Côte d'Ivoire, cocoa and chocolate companies and philanthropic organizations (including UBS Optimus Foundation and the Jacobs Foundation), to support access to quality education as an essential tool to promote children's rights and fight child labor in Côte d'Ivoire. This multi-stakeholder partnership works in alignment with the National Sustainable Cocoa Strategy and the Ivorian Education Sector Plan to support the scaling of evidence-based interventions, sustainability, and inclusive decision-making.

---

<sup>4</sup> <https://www.agency.fund/>

# 5. Leveraging all forms of capital

---

## At a glance

- Philanthropic capital can be the “bridge” that enables both public and private capital to participate in the same impact-aligned investment.
  - “Blended finance” refers to a range of financing arrangements that combine philanthropic, public and private risk appetites and return expectations.
  - Philanthropy can provide the visionary risk tolerance that promising new ventures need.
- 

A growing number of philanthropists consider themselves to be “investors” in social and environmental impact, seeking to stimulate a culture of risk and innovation. There are two important ways in which such philanthropic investment can support an impact economy:

### **1. Philanthropy can be a bridge that brings together different forms of capital in a single investment.**

Successful innovations require size and scale if they are to gain traction and bring about embedded, sustainable change at a systems level. Social finance offers various mechanisms and instruments to leverage investments to achieve scale of financing as well as of impact—and it is continuously evolving to meet the needs and expectations of a variety of problems, contexts, and investors.

The ability of philanthropists to collaborate and take long-term risks is likely to prove vital to this process and their entrepreneurship can help to drive the commercialization of innovation at scale. This is particularly the case with blended finance (box 4), where philanthropic and public funding can improve the risk-return profile of projects and catalyze increased investment into blended finance transactions that offer impact and positive financial returns.

The ability to “recycle” funding is another important strategy for scaling finance. There are several mechanisms through which philanthropic funding can be recycled. For instance, outcomes-based financing can use philanthropic capital to fund the implementation of a project, and this is then reimbursed by an “outcomes payer” (usually a government or development finance institution) once the expected outcomes have been delivered and confirmed. In this way, philanthropic funding can be used many times over, multiplying its impact.

#### **Box 4: Blended finance: using philanthropic capital to catalyze commercial capital at scale**

Within the broader field of social finance, blended finance is a powerful key to “unlock” large volumes of funding for the impact economy that might not normally be invested.

It uses philanthropic and public funding—which typically has higher risk tolerance and/or lower return expectations than private investment capital—to de-risk investments sufficiently that they become “bankable” for private investors and thus attract commercial investment. Once an investment has developed a track record, enabling it to operate on commercial terms, the de-risking function of philanthropic and public funding is no longer needed.

A blended finance structure comprises different tranches of capital, with each tranche tailored to the risk and reward expectations of a different group of investors, to attract more private investment to projects.

This can work through a variety of mechanisms—individually and in combination. For instance:

- The **SDG Outcomes Initiative** is a pioneering USD 100 million blended finance initiative focused on delivering SDG-aligned outcomes, investing alongside private investors. In the blended finance structure, UBS Optimus, funded by donations from over 30 UBS clients, provides 20% first-loss capital to unlock additional impact aligned commercial capital.
- The **Swedish International Development Cooperation Agency** (Sida) uses a guarantee instrument, backed by the Swedish government, to enhance lending to promote sustainable development, inclusive economic growth and poverty reduction. By issuing a guarantee Sida can take a share of the underlying risk in order to unlock financing and investments to serve development purposes.
- The **Blue Alliance**, a network of marine protected areas in the Philippines, is financed through a USD 50 million blended finance facility which combines grants, returnable grants and different debt tranches including an impact-linked loan from the UBS Optimus Foundation.

## **2. Philanthropy can use its risk tolerance to support new ventures in the early stages.**

New businesses responding to opportunities in the impact economy, as well as social enterprises and impact-oriented organizations, require considerable early-stage, risk-tolerant capital to establish enterprises on a stable footing. However, they face several barriers in securing finance, with access to investors being the most frequent. While venture capital can provide early-stage investment, it typically focuses on minimizing risk and maximizing return. Philanthropy, in contrast, has the potential to help meet the need for visionary funders with the patience to wait for longer-term returns and the risk appetite to put their money behind innovation and diversity at an early stage.

Initiatives such as the RS Group’s Terratai are designed to meet these needs. Terratai is a “venture builder” for nature that provides resources, expertise, and early-stage investment to foster the growth of nature-based companies until they can reach scale and attract institutional capital.

Philanthropy can draw on its funding flexibility to catalyze investment and facilitate access to expertise across the development finance spectrum, from early project development to early-stage finance, to risk sharing and mitigation. It can underpin this financial support by engaging networks and convening power to mobilize actors around important challenges and issue areas, and to promote and advocate for the expansion of successful approaches.

In practical terms, this might involve:

- **Pipeline strengthening.** Identifying ventures with the greatest potential to build a pipeline of good ideas and impactful investments. This could be by awarding prizes or competitive challenge funds that focus on priority needs.
- **Keeping frontline issues in focus.** Focusing support on those actors tackling intractable, frontline issues, for example interventions in fragile states or innovation in difficult sectors facing structural obstacles to private investment. The impact economy should enable risk capital to go where the mainstream won't.
- **Building scale.** Supporting ventures with grants, patient investments, and innovative impact finance to help them scale. For example, facilitating access to investors through impact accelerators or incubators.
- **Promoting good ideas.** Celebrating ventures that emerge as leaders to provide inspiration and ideas in breakthrough areas.

## 6. Summing up

Philanthropy combines financial flexibility and risk appetite with resources—financial, social, and political capital—that can help foster the change needed for an impact economy to flourish. Current economic and financial trends are bringing impact to the fore, making data more and more accessible, emphasizing partnership, and opening up new forms of investment. As all these factors converge, we believe philanthropy can bring its resources, skills, and influence to bear to help:

1. **change the focus** from outputs to outcomes and impacts;
2. **change accounting practices** around how we value people, planet, and profit;
3. **change mindsets** to form inclusive and fair partnerships, so all voices are heard; and
4. **change investment** to leverage all forms of capital into impact solutions.

# About the Institute

The UBS Sustainability and Impact Institute was founded in 2021 to contribute to the sustainability debate, with a focus on actionable and timely contributions. The Institute is a collaborative effort with sustainability experts from across UBS's business divisions. We strive to encourage objective and fact-based debate, provide new impulses for action, and identify innovations that will help shape our collective efforts and awareness about sustainability and impact.

## Fellows of the Institute

Jackie Bauer	Grégoire Muhr
Francis Condon	Richard Mylles
Gillian Dexter	William Nicolle
Paul Donovan	Stephanie Oesch
Adam Gustafsson	Mike Ryan
Vicki Kalb	Antonia Sariyska
Karianne Lancee	Nalini Tarakeshwar
Andrew Lee	Veronica Weisser
Stevica Levajkovski	Annabel Willder
Richard Morrow	Maya Ziswiler



# Disclaimer

**Important Information:** This material has been prepared by UBS AG, its subsidiary or affiliate ("UBS"). This material and the information contained herein are provided solely **for information purposes**. It is not to be regarded as investment advice, investment research, sales prospectus, an offer or a solicitation of an offer to enter in any investment activity. It has no regard to the specific investment objectives, financial situation or particular needs of any specific recipient. The information contained in this material is as of the date hereof only and is subject to change without notice. UBS is under no obligation to update or keep current the information contained herein. This material is not a complete statement of the markets and developments referred to herein. The information contained herein should not be regarded by recipients as a substitute for the exercise of their own judgment. Prior to entering into a transaction you should consult with your own legal, regulatory, tax, financial and accounting advisers to the extent you deem necessary to make your own investment, hedging and trading decisions. UBS does not provide legal or tax advice and makes no representations as to the tax treatment of assets or the investment returns thereon, either in general or with reference to specific client's circumstances and needs. Certain services and products are subject to legal provisions and cannot be offered world-wide on an unrestricted basis. In particular, this material is not intended for distribution into jurisdictions where its distribution by UBS would be restricted. UBS specifically prohibits the redistribution or reproduction of this material in whole or in part without the written permission of UBS and UBS accepts no liability whatsoever for the actions of third parties in this respect. Neither UBS nor any of its directors, officers, employees or agents accepts any liability for any loss or damage arising out of the use of all or any part of this material. Source of all information is UBS unless otherwise stated. UBS makes no representation or warranty relating to any information herein which is derived from independent sources. The views and opinions expressed in this material by third parties are not those of UBS. Accordingly, UBS does not accept any liability over the content shared by third parties or any claims, losses or damages arising from the use or reliance of all or any part thereof.

**Important Information About Sustainable Investing:** An increasing number of products and services are using terms or labels related to sustainable investments. However, industry standards and terminology related to sustainable investments will differ and are evolving. Therefore, you should carefully review the offering materials to understand why a particular product or strategy may or may not be classified as a sustainable investment and if their approach aligns with your goals and objectives. At UBS, we continue to develop our own standards and a framework for sustainable investing. However we do not review every product to determine consistency with our standards, nor do all products that we make available align with our approach.

At UBS, we believe sustainable investment strategies should have an explicit focus on sustainability objectives or outcomes. Sustainable investments across geographies and styles approach the integration of environmental, social and governance (ESG) factors and other sustainability considerations and incorporate the findings in a variety of ways. Sustainable investing-related strategies may or may not result in favorable investment performance and the strategy may forego favorable market opportunities in order to adhere to sustainable investing-related strategies or mandates. Issuers may not necessarily meet high performance standards on all aspects of ESG or other sustainability considerations. In addition, there is no guarantee that a product's sustainable investing-related strategy will be successful. The ability to implement the approaches to sustainable investing will depend on the product or service selected, they are not available for all products, services or accounts offered through UBS.

**Bahrain:** UBS is a Swiss bank not licensed, supervised or regulated in Bahrain by the Central Bank of Bahrain to undertake banking or investment business activities in Bahrain. Therefore, prospects/clients do not have any protection under local banking and investment services laws and regulations. **Brazil:** This publication is only intended for Brazilian residents who are directly purchasing or selling securities in the Brazil capital market through a local authorized institution. **Canada:** The information contained herein is not, and under no circumstances is to be construed as, a prospectus, an advertisement, a public offering, an offer to sell securities described herein, solicitation of an offer to buy securities described herein, in Canada or any province or territory thereof. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the dealer registration requirement in the relevant province or territory of Canada in which such offer or sale is made. Under no circumstances is the information contained herein to be construed as investment advice in any province or territory of Canada and is not tailored to the needs of the recipient. To the extent that the information contained herein references securities of an issuer incorporated, formed or created under the laws of Canada or a province or territory of Canada, any trades in such securities must be conducted through a dealer registered in Canada or, alternatively, pursuant to a dealer registration exemption. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon these materials, the information contained herein or the merits of the securities described herein and any representation to the contrary is an offence. In Canada, this publication is distributed by UBS Investment Management Canada Inc.. **China:** This document and any offering material such as term sheet, research report, other product or service documentation or any other information (the "Material") sent with this document was done so as a result of a request received by UBS from you and/or persons entitled

to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete it and inform UBS immediately. This document is prepared by UBS Switzerland AG or its offshore subsidiary or affiliate (collectively as "UBS Offshore"). UBS Offshore is an entity incorporated out of China and is not licensed, supervised or regulated in China to carry out banking or securities business. The recipient should not contact UBS Offshore or authors who produced this report for advice as they are not licensed to provide securities investment advice in China. The recipient should not use this document or otherwise rely on any of the information contained in this document in making investment decisions and UBS takes no responsibility in this regard. **Czech Republic:** UBS is not a licensed bank in the Czech Republic and thus is not allowed to provide regulated banking or investment services in the Czech Republic. This communication and/or material is distributed for marketing purposes and constitutes a "Commercial Message" under the laws of the Czech Republic in relation to banking and/or investment services. Please notify UBS if you do not wish to receive any further correspondence.

**Denmark:** This publication is not intended to constitute a public offer under Danish law. It is distributed only for information purposes to clients of UBS Europe SE, Denmark Branch, filial af UBS Europe SE, with place of business at Sankt Annae Plads 13, 1250 Copenhagen, Denmark, registered with the Danish Commerce and Companies Agency, under No. 38 17 24 33. UBS Europe SE, Denmark Branch, filial af UBS Europe SE is subject to the joint supervision of the European Central Bank, the German Central Bank (Deutsche Bundesbank), the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin"), as well as of the Danish Financial Supervisory Authority (Finanstilsynet), to which this publication has not been submitted for approval. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by BaFin. **Egypt:** Securities or other investment products are not being offered or sold by UBS to the public in Egypt and they have not been and will not be registered with the Egyptian Financial Regulatory Authority (FRA). **France:** This publication is not intended to constitute a public offer under French law, it does not constitute a personal recommendation as it is distributed only for information purposes to clients of UBS (France) S.A., French "société anonyme" with share capital of € 132.975.556, at 69 boulevard Haussmann F-75008 Paris, registered with the "Registre du Commerce et des Sociétés" of Paris under N° B 421 255 670. UBS (France) S.A. is a provider of investment services duly authorized according to the terms of the "Code monétaire et financier", regulated by French banking and financial authorities as the "Autorité de contrôle prudentiel et de résolution" and "Autorité des marchés financiers", to which this publication has not been submitted for approval.

**Germany:** This publication is not intended to constitute a public offer under German law. It is distributed only for information purposes to clients of UBS Europe SE, Germany, with place of business at Bockenheimer Landstrasse 2-4, 60306 Frankfurt am Main. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin") and supervised jointly by the European Central Bank, the German Central Bank (Deutsche Bundesbank) and the BaFin, to which this publication has not been submitted for approval.

**Hong Kong SAR:** This publication is distributed to clients of UBS AG Hong Kong Branch by UBS AG Hong Kong Branch, a licensed bank under the Hong Kong Banking Ordinance and a registered institution under the Securities and Futures Ordinance. UBS AG Hong Kong Branch is incorporated in Switzerland with limited liability. **India:** Distributed by UBS Securities India Private Ltd. (Corporate Identity Number U67120MH1996PTC097299) 2/F, 2 North Avenue, Maker Maxity, Bandra Kurla Complex, Bandra (East), Mumbai (India) 400051. Phone: +912261556000. It provides brokerage services bearing SEBI Registration Number INZ000259830; merchant banking services bearing SEBI Registration Number: INM000010809 and Research Analyst services bearing SEBI Registration Number: INH000001204. UBS AG, its affiliates or subsidiaries may have debt holdings or positions in the subject Indian company/companies. UBS AG, its affiliates or subsidiaries may have financial interests (e.g. like loan/derivative products, rights to or interests in investments, etc.) in the subject Indian company/companies from time to time. Within the past 12 months, UBS AG, its affiliates or subsidiaries may have received compensation for non-investment banking securities-related services and/or non-securities services from the subject Indian company/companies. The subject company/companies may have been a client/clients of UBS AG, its affiliates or subsidiaries during the 12 months preceding the date of distribution of this publication with respect to investment banking and/or non-investment banking securities-related services and/or non-securities services. With regard to information on associates, please refer to the Annual Report

at: [http://www.ubs.com/global/en/about\\_ubs/investor\\_relations/annualreporting.html](http://www.ubs.com/global/en/about_ubs/investor_relations/annualreporting.html). **Indonesia:** This communication and any offering material term sheet, research report, other product or service documentation or any other information (the "Material") sent with this communication was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed without the consent of UBS. None of the Material has been registered or filed under the prevailing laws and with any financial or regulatory authority in your jurisdiction. The Material may not have been approved, disapproved, endorsed, registered or filed with any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or products or futures contracts). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including futures contracts) nor is it an offer to buy or to sell any securities or products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided on and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Israel:** UBS is a premier global financial firm offering wealth management, asset management and investment banking services from its headquarters in Switzerland and its operations in over 50 countries worldwide to individual, corporate and institutional investors. In Israel, UBS Switzerland AG is registered as Foreign Dealer in cooperation with UBS Wealth Management Israel Ltd., a wholly owned UBS subsidiary. UBS Wealth Management Israel Ltd. is an Investment Marketing licensee which engages in Investment Marketing and is regulated by the Israel Securities Authority. This publication is intended for information only and is not intended as an offer to buy or solicitation of an offer. Furthermore, this publication is not intended as an investment advice. No action has been, or will be, taken in Israel that would permit an offering of the product(s) mentioned in this document or a distribution of this document to the public in Israel. In particular, this document has not been reviewed or approved by the Israeli Securities Authority. The product(s) mentioned in this document is/are being offered to a limited number

of sophisticated investors who qualify as one of the investors listed in the first supplement to the Israeli Securities Law, 5728-1968. This document may not be reproduced or used for any other purpose, nor be furnished to any other person other than those to whom copies have been sent. Anyone who purchases the product(s) mentioned herein shall do so for its own benefit and for its own account and not with the aim or intention of distributing or offering the product(s) to other parties. Anyone who purchases the product(s) shall do so in accordance with its own understanding and discretion and after it has received any relevant financial, legal, business, tax or other advice or opinion required by it in connection with such purchase(s). The word "advice" and/or any of its equivalent terms shall be read and construed in conjunction with the definition of the term "investment marketing" as defined under the Israeli Regulation of Investment Advice, Investment Marketing and Portfolio Management Law. **Italy:** This publication is not intended to constitute a public offer under Italian law. It is distributed only for information purposes to clients of UBS Europe SE, Succursale Italia, with place of business at Via del Vecchio Politecnico, 3-20121 Milano. UBS Europe SE, Succursale Italia is subject to the joint supervision of the European Central Bank, the German Central Bank (Deutsche Bundesbank), the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin"), as well as of the Bank of Italy (Banca d'Italia) and the Italian Financial Markets Supervisory Authority (CONSOB—Commissione Nazionale per le Società e la Borsa), to which this publication has not been submitted for approval. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by BaFin. **Jersey:** UBS AG, Jersey Branch, is regulated and authorized by the Jersey Financial Services Commission for the conduct of banking, funds and investment business. Where services are provided from outside Jersey, they will not be covered by the Jersey regulatory regime. UBS AG, Jersey Branch is a branch of UBS AG a public company limited by shares, incorporated in Switzerland whose registered offices are at Aeschenvorstadt 1, CH-4051 Basel and Bahnhofstrasse 45, CH 8001 Zurich. UBS AG, Jersey Branch's principal place of business is 1, IFC Jersey, St Helier, Jersey, JE2 3BX. **Luxembourg:** This publication is not intended to constitute a public offer under Luxembourg law. It is distributed only for information purposes to clients of UBS Europe SE, Luxembourg Branch ("UBS Luxembourg"), R.C.S. Luxembourg n° B209123, with registered office at 33A, Avenue J. F. Kennedy, L-1855 Luxembourg. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea (HRB n° 107046), with registered office at Bockenheimer Landstrasse 2-4, D-60306 Frankfurt am Main, Germany, duly authorized by the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin") and subject to the joint prudential supervision of BaFin, the European Central Bank and the central bank of Germany (Deutsche Bundesbank). UBS Luxembourg is furthermore supervised by the Luxembourg prudential supervisory authority (Commission de Surveillance du Secteur Financier), in its role as host member state authority. This publication has not been submitted for approval to any public supervisory authority. **Malaysia:** This communication and any offering material term sheet, research report, other product or service documentation or any other information (the "Material") sent with this communication was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed in whole or in part in or into your jurisdiction without the consent of UBS. The Material may not have been reviewed, approved, disapproved, endorsed, registered or filed with any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or derivatives products). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including future contracts) nor is it an offer to buy or to sell any securities or derivatives products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided on and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Mexico:** This information is distributed by UBS Asesores México, S.A. de C.V. ("UBS Asesores"), an affiliate of UBS Switzerland AG, incorporated as a non-independent investment advisor under the Mexican regulation due to the relation with a Foreign Bank. UBS Asesores is registered under number 30060-001-(14115)-21/06/2016 and subject to the supervision of the Mexican Banking and Securities Commission ("CNBV") exclusively regarding the rendering of (i) portfolio management services, (ii) securities investment advisory services, analysis and issuance of individual investment recommendations, and (iii) anti-money laundering and terrorism financing matters. Such registry does not imply the adherence of UBS Asesores to the regulations applicable to the services it provides, nor the accuracy or veracity of the information provided to its clients. This UBS publication or any material related thereto is addressed only to Sophisticated or Institutional Investors located in Mexico. **Monaco:** This document is not intended to constitute a public offering or a comparable solicitation under the Principality of Monaco laws, but might be made available for information purposes to clients of UBS (Monaco) SA, a regulated bank having its registered office 2 avenue de Grande Bretagne 98000 Monaco operating under a banking license granted by the "Autorité de Contrôle Prudentiel et de Résolution" (ACPR) and the Monegasque government which authorizes the provision of banking services in Monaco. UBS (Monaco) S.A. is also licensed by the "Commission de Contrôle des Activités Financières" (CCAF) to provide investment services in Monaco. The latter has not approved this publication. **Nigeria:** The investment products mentioned in this material are not being offered or sold by UBS to the public in Nigeria and they have not been submitted for approval nor registered with the Securities and Exchange Commission of Nigeria. If you are interested in products of this nature, please let us know. The investment products mentioned in this material are not being directed to, and are not being made available for subscription by any persons within Nigeria other than the selected investors to whom the offer materials have been addressed as a private sale or domestic concern within the exemption and meaning of Section 69(2) of the Investments and Securities Act, 2007 (ISA). This material has been provided to you at your specific unsolicited request and for your information only. **Philippines:** This communication was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed in whole or in part in or into your jurisdiction without the consent of UBS. The Material may not have been reviewed, approved, disapproved, endorsed, registered or filed with any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or derivatives products). The Material is neither an offer nor a solicitation to enter into

any transaction or contract (including future contracts) nor is it an offer to buy or to sell any securities or derivatives products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided on and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Portugal:** UBS Switzerland AG is not licensed to conduct banking and financial activities in Portugal nor is UBS Switzerland AG supervised by the Portuguese regulators (Bank of Portugal "Banco de Portugal" and Portuguese Securities Exchange Commission "Comissão do Mercado de Valores Mobiliários"). **Qatar:** UBS Qatar LLC is authorized by the Qatar Financial Centre Regulatory Authority, with QFC no. 01169, and has its registered office at 14<sup>th</sup> Floor, Burj Alfardan Tower, Building 157, Street No. 301, Area No. 69, Al Majdami, Lusail, Qatar. UBS Qatar LLC neither offers any brokerage services nor executes any order with, for or on behalf of its clients. A client order will have to be placed with, and executed by, UBS Switzerland AG in Switzerland or an affiliate of UBS Switzerland AG, that is domiciled outside Qatar. It is in the sole discretion of UBS Switzerland AG in Switzerland or its affiliate to accept or reject an order and UBS Qatar LLC does not have authority to provide a confirmation in this respect. UBS Qatar LLC may however communicate payment orders and investment instructions to UBS Switzerland AG in Switzerland for receipt, acceptance and execution. UBS Qatar LLC is not authorized to act for and on behalf of UBS Switzerland AG or an affiliate of UBS Switzerland AG. This document and any attachments hereto are intended for eligible counterparties and business customers only. **Russia:** This document or information contained therein is for information purposes only and constitutes neither a public nor a private offering, is not an invitation to make offers, to sell, exchange or otherwise transfer any financial instruments in the Russian Federation to or for the benefit of any Russian person or entity and does not constitute an advertisement or offering of securities in the Russian Federation within the meaning of Russian securities laws. The information contained herein is not an "individual investment recommendation as defined in Federal Law of 22 April 1996 No 39-FZ "On Securities Market" (as amended) and the financial instruments and operations specified herein may not be suitable for your investment profile or your investment goals or expectations. The determination of whether or not such financial instruments and operations are in your interests or are suitable for your investment goals, investment horizon or the acceptable risk level is your responsibility. We assume no liability for any losses connected with making any such operations or investing into any such financial instruments and we do not recommend to use such information as the only source of information for making an investment decision. **Saudi Arabia:** UBS Saudi Arabia is authorised and regulated by the Capital Market Authority to conduct securities business under licence number 08113-37. **Singapore:** Clients of UBS AG Singapore branch are asked to please contact UBS AG Singapore branch, an exempt financial adviser under the Singapore Financial Advisers Act (Cap. 110) and a wholesale bank licensed under the Singapore Banking Act (Cap. 19) regulated by the Monetary Authority of Singapore, in respect of any matters arising from, or in connection with, the analysis or report. UBS AG is incorporated in Switzerland with limited liability. UBS AG has a branch registered in Singapore (UEN S98FC5560C). This communication and any offering material term sheet, research report, other product or service documentation or any other information (the "Material") sent with this communication was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed in whole or in part in or into your jurisdiction without the consent of UBS. The Material may not have been reviewed, approved, disapproved or endorsed by any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or products or futures contracts). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including future contracts) nor is it an offer to buy or to sell any securities or products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided on and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Sweden:** This publication is not intended to constitute a public offer under Swedish law. It is distributed only for information purposes to clients of UBS Europe SE, Sweden Bankfilial, with place of business at Regeringsgatan 38, 11153 Stockholm, Sweden, registered with the Swedish Companies Registration Office under Reg. No 516406-1011. UBS Europe SE, Sweden Bankfilial is subject to the joint supervision of the European Central Bank, the German Central Bank (Deutsche Bundesbank), the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin"), as well as of the Swedish supervisory authority (Finansinspektionen), to which this publication has not been submitted for approval. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by BaFin. **Taiwan:** This material is provided by UBS AG, Taipei Branch in accordance with laws of Taiwan, in agreement with or at the request of clients/prospects. **Thailand:** This communication and any offering material, term sheet, research report, other product or service documentation or any other information (the "Material") sent with this communication were done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed in whole or in part in or into your jurisdiction without the consent of UBS. The Material may not have been reviewed, approved, disapproved, endorsed, registered or filed with any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or derivatives products). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including future contracts) nor is it an offer to buy or to sell any securities or derivatives products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided and/or trades

executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Turkey:** The information in this document is not provided for the purpose of offering, marketing or sale of any capital market instrument or service in the Republic of Turkey. Therefore, this document may not be considered as an offer made, or to be made, to residents of the Republic of Turkey in the Republic of Turkey. UBS Switzerland AG is not licensed by the Turkish Capital Market Board (the CMB) under the provisions of the Capital Market Law (Law No. 6362). Accordingly, neither this document nor any other offering material related to the instrument/service may be utilized in connection with providing any capital market services to persons within the Republic of Turkey without the prior approval of the CMB. However, according to article 15 (d) (ii) of the Decree No. 32 residents of the Republic of Turkey are allowed to purchase or sell the financial instruments traded in financial markets outside of the Republic of Turkey. Further to this, pursuant to article 9 of the Communiqué on Principles Regarding Investment Services, Activities and Ancillary Services No. III-37.1, investment services provided abroad to residents of the Republic of Turkey based on their own initiative are not restricted. **United Arab Emirates (UAE):** UBS is not a financial institution licensed in the UAE by the Central Bank of the UAE nor by the Emirates' Securities and Commodities Authority and does not undertake banking activities in the UAE. UBS AG Dubai Branch is licensed by the DFSA in the DIFC. This document is provided for your information only and does not constitute financial advice. **United Kingdom:** This document is issued by UBS Wealth Management, a division of UBS AG which is authorised and regulated by the Financial Market Supervisory Authority in Switzerland. In the United Kingdom, UBS AG is authorised by the Prudential Regulation Authority and is subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. Details about the extent of regulation by the Prudential Regulation Authority are available from us on request. A member of the London Stock Exchange. This publication is distributed to retail clients of UBS Wealth Management. Where products or services are provided from outside the UK, they will not be covered by the UK regulatory regime or the Financial Services Compensation Scheme. **Ukraine:** UBS is not registered and licensed as a bank/financial institution under Ukrainian legislation and does not provide banking and other financial services in Ukraine. UBS has not made and will not make any offer of the mentioned products to the public in Ukraine. No action has been taken to authorize an offer of the mentioned products to the public in Ukraine and the distribution of this document shall not constitute financial services for the purposes of the Law of Ukraine "On Financial Services and State Regulation of Financial Services Markets" dated 12 July 2001. Any offer of the mentioned products shall not constitute an investment advice, public offer, circulation, transfer, safekeeping, holding or custody of securities in the territory of Ukraine. Accordingly, nothing in this document or any other document, information or communication related to the mentioned products shall be interpreted as containing an offer, a public offer or invitation to offer or to a public offer, or solicitation of securities in the territory of Ukraine or investment advice under Ukrainian law. Electronic communication must not be considered as an offer to enter into an electronic agreement or other electronic instrument within the meaning of the Law of Ukraine "On Electronic Commerce" dated 3 September 2015. This document is strictly for private use by its holder and may not be passed on to third parties or otherwise publicly distributed. **USA:** As a firm providing wealth management services to clients, UBS Financial Services Inc. offers investment advisory services in its capacity as an SEC-registered investment adviser and brokerage services in its capacity as an SEC-registered broker-dealer. Investment advisory services and brokerage services are separate and distinct, differ in material ways and are governed by different laws and separate arrangements. It is important that clients understand the ways in which we conduct business, that they carefully read the agreements and disclosures that we provide to them about the products or services we offer. For more information, please review client relationship summary provided at [ubs.com/relationshipssummary](https://ubs.com/relationshipssummary). There are two sources of UBS research. Reports from the first source, UBS CIO Wealth Management Research, are designed for individual investors and are produced by UBS Wealth Management Americas (which includes UBS Financial Services Inc. and UBS International Inc.) and UBS Wealth Management. The second research source is UBS Investment Research, and its reports are produced by UBS Investment Bank, whose primary business focus is institutional investors. The two sources operate independently and may therefore have different recommendations. The various research content provided does not take into account the unique investment objectives, financial situation or particular needs of any specific individual investor. This material is not independent research and not subject to regulatory rules regarding research in the US. This material is intended for educational purposes only. If you have any questions, please consult your Financial Advisor. UBS Financial Services Inc. is a subsidiary of UBS AG and an affiliate of UBS International Inc.

© 2023 UBS AG. The key symbol and UBS are among the registered and unregistered trademarks of UBS. All rights reserved.

Approval Date: 8/22/2023

Expiration: 8/31/2024

Review Code: IS2305116

[www.ubs.com](http://www.ubs.com)

