



# ESG 2022 Outlook

## 3 Themes Driving Capital Flow

#PositiveImpact

*Deutsche Bank ESG Advisory*

January 2022

# Top 3 ESG Trends in 2022 & Implications for Capital Flow

## 1 Net-zero transition

*The energy transition to net-zero by 2050 has \$130 trillion of capital linked to it, impacting not just how energy is generated and distributed, but also how energy is consumed.*

*Corporates will be expected to*

- 1) communicate clear transition strategies,*
- 2) invest in 'smart-infrastructure' to prepare for 'Energy-as-a-Service' business models, and*
- 3) demonstrate emission reduction in the medium-long term*

## 2 Impact of regulation on ESG investments & financing

*Rapid growth in ESG investments is creating differing regulatory regimes, fragmenting ESG investor expectations for corporates with a cross-border investor base.*

*Regulations that define green in Europe could (in the long-term) result in differentiation for 'dark green' debt that is demonstrably aligned to a net-zero by 2050 objective.*

## 3 Private markets

*As more investors turn to alternate strategies, ESG is becoming mainstream in private markets at all stages (early to mature).*

*ESG is relevant for*

- 1) assessing a company's return profile*
- 2) scaling decarbonization technology and*
- 3) demonstrating exit preparedness in mature companies*

# Net-Zero transition: \$130 trillion of capital linked to the transition

## Legislative changes incentivizing the net-zero transition

### Net-Zero Coalition

Country Level

- Over 130 countries have committed to reach **Net-Zero emissions** by 2050
- Over 150 countries have submitted their **Nationally Determined Contributions (NDCs)**
- Nearly 200 nations signed the new deal to implement **Article 6 of the Paris Agreement** – making grounds for a global **carbon market**

### EU pushes forward investor regulation

Investor Level

Sustainable Finance regulation in the EU focusses on **incentivizing flow of capital to green** as defined by the EU's net-carbon neutrality by 2050 goal

Sustainable Finance Disclosure Regulation

EU Taxonomy

EU Green Bond Standard



Corporate Level

- UK to enforce mandatory disclosure of **transition plans** (2023)
  - UK-listed firms are to publish **net-zero transition plans**
  - Companies are to demonstrate how Climate Change will impact their operations & decision making
- US SEC to focus on disclosure of ESG risks & Climate Change factors

## Net-zero transition pushing 'Energy-as-a-service'

*'Energy-as-a-service' refers to a change in the way energy is generated, distributed and consumed, indicating a shift to a decentralized system, that facilitates a two-way flow of consumption of data, and in which the consumer is an equal participant*

1  
**Decentralization & Distributed Networks**

As energy sources transition to renewables, energy distribution systems will become more decentralized, relying on multiple generation and storage points

2  
**Digitization**

Short-term higher costs of renewable energy will be offset by consumers through technology to improve efficiency

Corporates will actively participate in energy distribution through smart infrastructure that facilitates two-way flow of consumption data

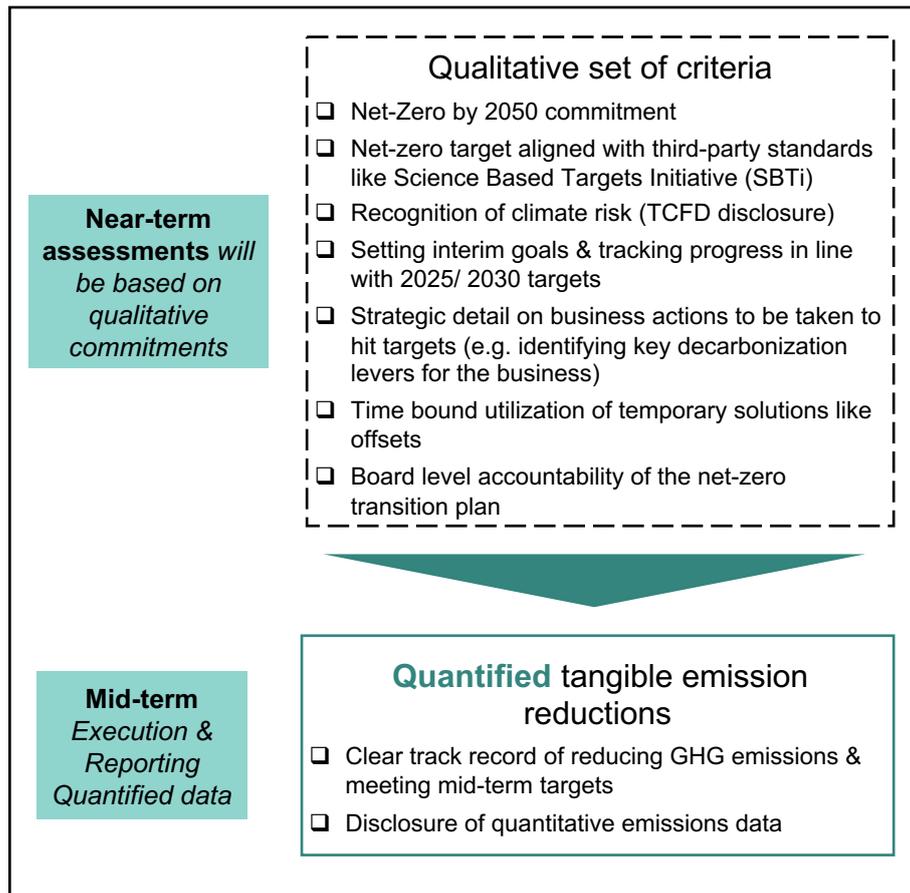
**Decarbonization**

# Net-Zero energy transition: Implications for Corporates

Quickly evolving business models – “Smart” infrastructure key to enabling decarbonization

## Communicating a credible transition strategy

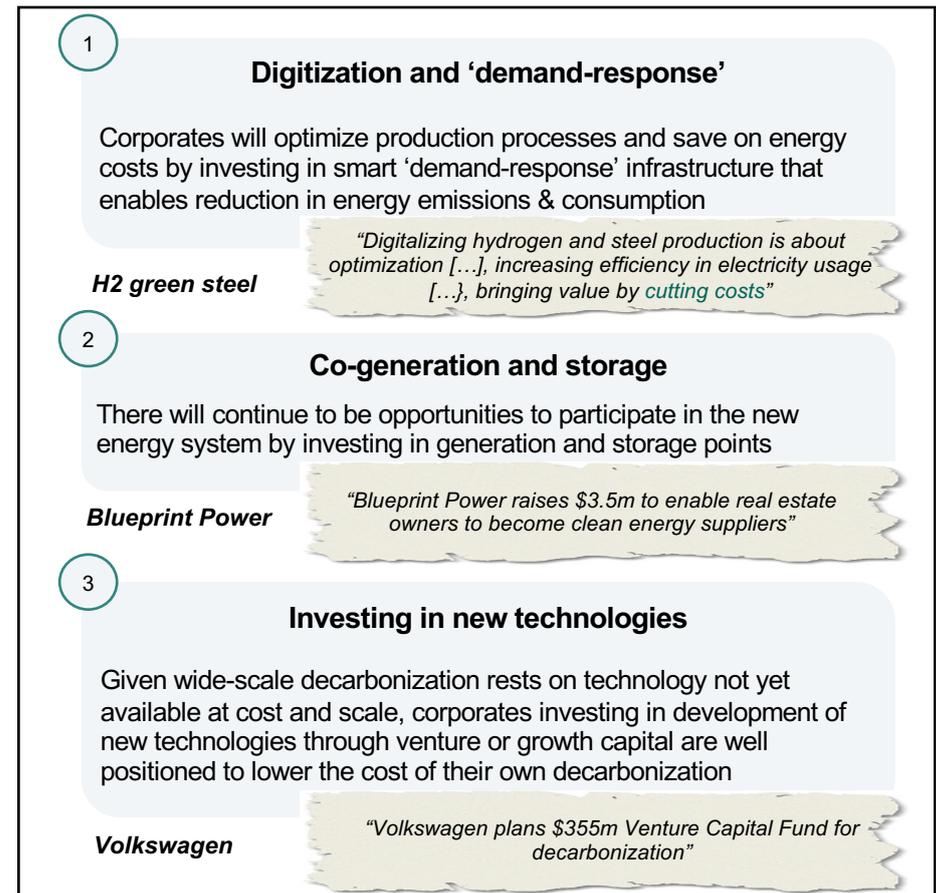
How will capital allocators assess ‘credible transition’?



## Investing for the energy-transition

How can corporates prepare for ‘Energy-as-a-service?’

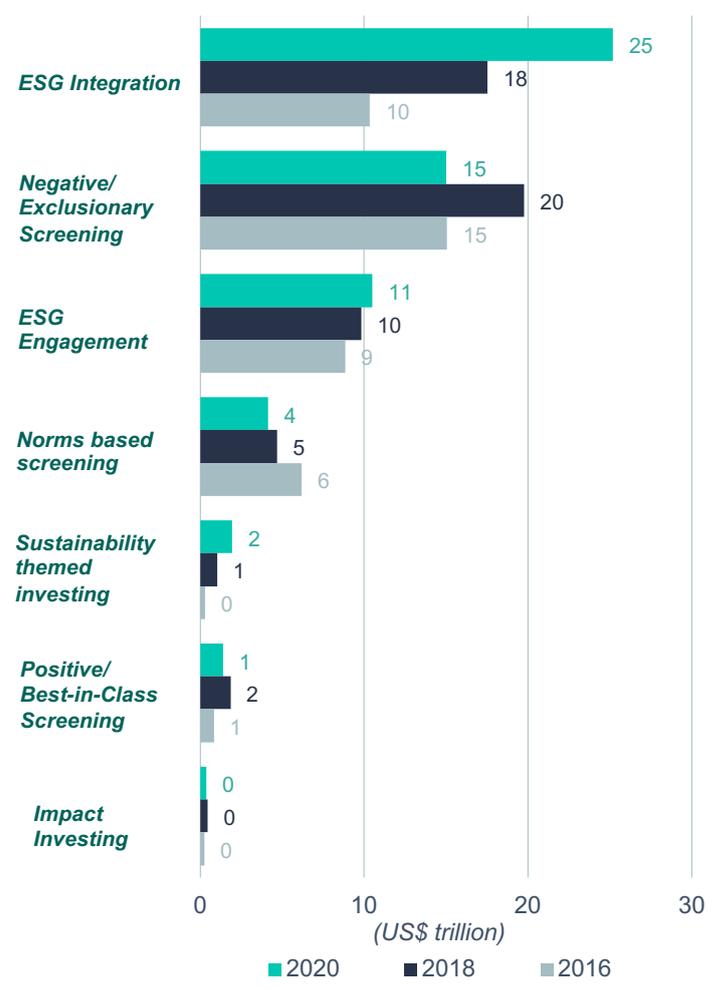
The shift in the way energy is generated, distributed and consumed requires corporate business models to evolve, and we expect the following 3 types of decarbonization investments to continue to grow



# Differing ESG regulations in Europe and US

As ESG capital flows increase, differing regulations widen regional differences in investment strategies

## Global Growth in ESG Investment Strategies ('16-'20)



## Europe: Aligning capital to net-zero



## USA: Disclosing ESG Risk & Integrating ESG

In the USA, the current SEC focus is on **disclosing ESG risk** factors that are financially material, particularly around climate risks

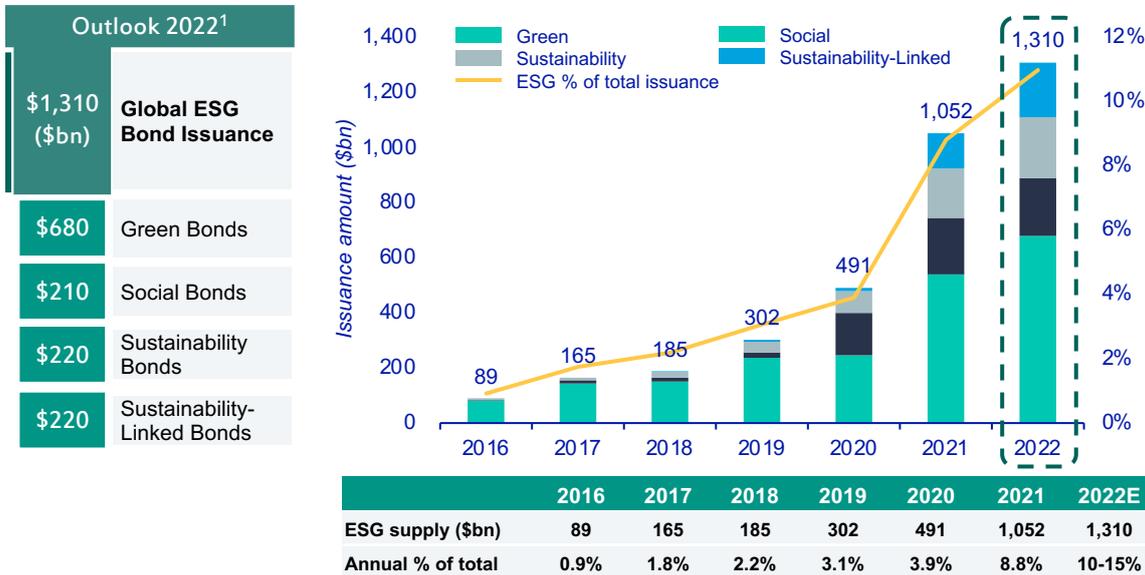
## Implications for cross-border capital flow

- Regulation expected to widen difference in expectations of European vs. US investors ESG investors.
- US investors focused on ESG risk management vs. European investors have an additional focus on emissions reduction and 'do-no-harm' exclusions.
- Corporates with a cross-border investor base will increasingly need to develop strategies that meet varying investor expectations.
- Cross-border acquisitions are expected to start considering impact on ESG profile of acquirer based on the expectations of the investor base.

# Financing the Transition: ESG labelled bonds 10-15% of total issuance in 2022

Regulations could result in pricing differentiation for 'dark green' debt

## Global ESG bond issuance (\$bn)

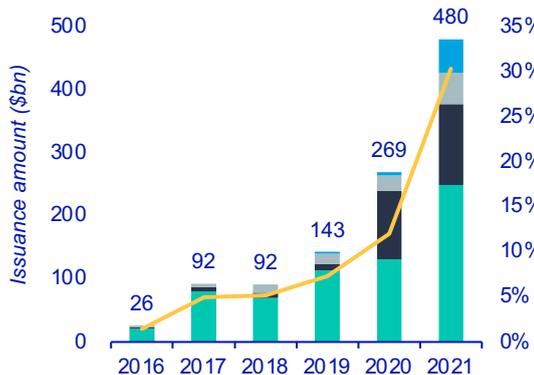


## Drivers of issuance

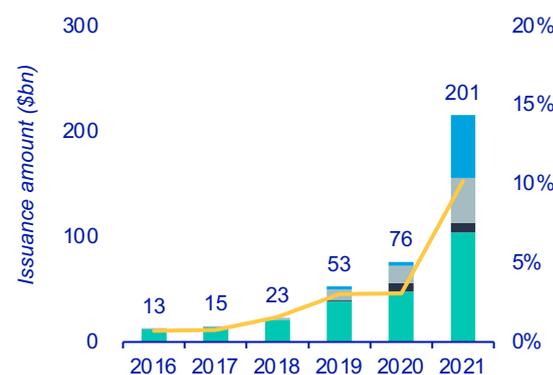
While the need to finance decarbonization initiatives spurs growth in ESG labelled issuance, regulation to standardize definitions of 'green' will act counter rate of growth.

2022 Drivers of issuance	
<p><b>Corporates incentivized to issue in ESG format to signal progress of net-zero strategies</b></p>	<ul style="list-style-type: none"> <li>– 62% of corporates keen to use ESG bonds to convey decarbonization and sustainability strategy.<sup>3</sup></li> <li>– Proven execution and pricing benefits in labelled bonds.</li> </ul>
<p><b>High demand for ESG issuances</b></p>	<ul style="list-style-type: none"> <li>– \$35 trillion, or 36% of global AUM, have an ESG mandate.</li> <li>– US and Europe continue to represent &gt;80% of global sustainable investing assets.</li> </ul>
<p><b>Sustainability-Linked Bond (SLB) issuance as 'transition' instruments</b></p>	<ul style="list-style-type: none"> <li>– Investors view as most promising near term ESG instrument<sup>3</sup> unlocking significant growth of the ESG market.</li> <li>– Democratizes issuance to non-capex heavy and emissions intensive sectors that may not be issue in 'green format.'</li> </ul>
<p><b>Increased regulation and scrutiny around 'green' and 'SLB' labels</b></p>	<ul style="list-style-type: none"> <li>– Driven by the EU taxonomy and other regulations, investors are increasingly scrutinizing the 'quality' of ESG/green debt to be in line with 1.5 degree decarbonization trajectory.</li> <li>– While this could counter the rate of growth, we expect this new found focus on definition of green to over time result in a pricing benefit for higher quality green/ESG debt.</li> </ul>

## EUR ESG bond issuance (\$bn)



## USD Corp & FI ESG bond issuance (\$bn)<sup>2</sup>



(1) Environmental Finance  
 (2) Includes Corporates and Financials  
 (3) Deutsche Bank ESG Survey - What corporates and investors think (November 2021)  
 Source: Deutsche Bank, Bloomberg, Dealogic

# ESG is becoming mainstream in private markets

As capital flows into alternatives, ESG is seen as key to an investment's return profile at all stages of investing

## Private capital to "growth equity" investing



Growth equity has **more than doubled** from 2016 to 2021<sup>(a)</sup>

**73% of 200+ institutional investors** stated they plan on increasing investments in the private markets<sup>(b)</sup>

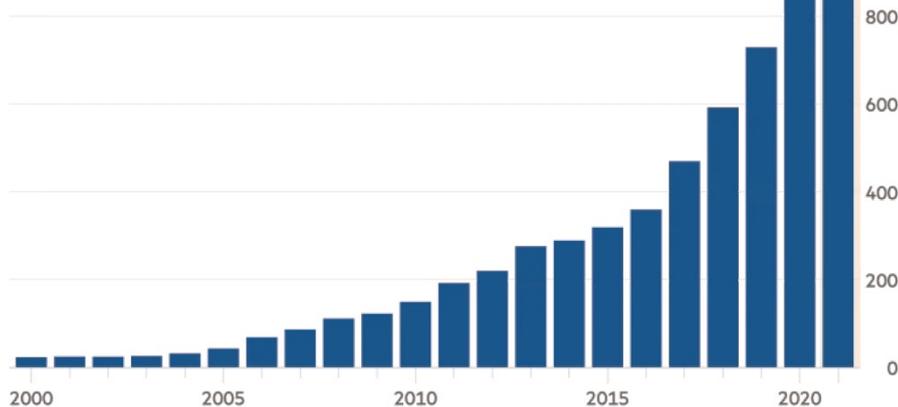
## Capital towards fast-growing private companies

### The growth in 'growth equity' investing

Assets under management (\$bn)

\$920bn as of March 2021

End of first quarter



Source: Preqin  
© FT

<sup>(a)</sup> Preqin, March 2021

<sup>(b)</sup> Numis Securities' survey, 2021

<sup>(c)</sup> PwC, "State of Climate Tech 2021", 2021

<sup>(d)</sup> Dealogic

<sup>(e)</sup> Penningtons Manches Cooper, 2021

Source: Deutsche Bank, Preqin – FT

1

## ESG data to further improve practice & disclosure

### ESG due diligence to increase value-add for exits

- Private equity firms and VCs are increasingly carrying **ESG due diligence**, impacting their **investment decisions & exit strategies**
- Shifting from risk management to value creation, private investors are seeking **ESG best practices** at an early stage

2

## Opportunities: Climate solutions technology

### Directed capital to developing disruptive technologies

- **\$222 bn of capital** has been invested towards technology contributing to the net-zero economy transition between 2013 – 2021 (\$87.5bn in 2020-2021 alone on **climate solutions**)<sup>(c)</sup>
- **Mobility & Transport**, is the area currently benefitting from the most funding
- **Strong growth** expected in climate technology in various sectors following COP26

3

## ESG linked-finance to demonstrate exit preparedness

### ESG-linked leverage finance volume

- For more mature companies, growth of ESG-linked leverage finance is an example of how demonstrating commitment to ESG in private markets is important for creating a 'halo' effect on exit strategies
- New-issue volume hit an all-time high in 2021
  - EMEA's volume for FY 2021 was EUR 114m<sup>(d)</sup>
  - More than half was debt raised to support M&A activity<sup>(e)</sup>

# Deutsche Bank's ESG credentials

## Notable Deutsche Bank-led sustainable bond transactions

Deutsche Bank's Sustainable Finance team has been a driving force in helping issuers bring ESG-related transactions to market. The team has been at the forefront of innovative transactions, both as Green Bond structuring agent as well as active Bookrunner.

### Recent sustainable bond transactions

EUR-denominated transactions					
VodafoneZigo	Lanxess	Kerry Group	Talanx	Xunta de Galicia	Electricite De France SA
(B1/B+/BB) €750m 3.500% 15-Jan-2032 \$1.525bn 5.000% 15-Jan-2032	(Baa2/BBB/BBB+) €600m 0.625% 01-Dec-2029	(Baa2/BBB/-) €750m 0.875% 01-Dec-2031	(-/A/-) €500m 1.750% 01-Dec-2042	(Baa1/A/-) €500m 0.268% 30-Jul-2028	(A3/BBB+/A-) €1.75bn 1.000% 29-Nov-2033
Joint Bookrunner January 2022	Sole Sustainability-Linked Structuring Advisor and Joint Active Bookrunner November 2021	Joint Bookrunner November 2021	Joint Bookrunner November 2021	Joint Bookrunner November 2021	Joint Bookrunner November 2021
Sustainability-Linked Bond	Sustainability-Linked Bond	Sustainability-Linked Bond	Green Bond	Sustainable Bond	Green Bond

USD-denominated transactions			Transaction issued in other currencies		
Merck & Co Inc	Vistra Corp	General Mills	The World Bank	United Kingdom	Treasury Corporate of Victoria
(A1/A+/-) \$1.0bn 1.900% 10-Dec-2028	(-/B/-) \$1.0bn 7.000% Perp	(Baa2/BBB/-) \$500m 2.250% 05-Oct-2031	(Aaa/AAA/-) A\$500m 1.350% 22-Apr-2027 A\$300m 1.100% 18-Nov-2030	(Aa3/AA/AA-) £10bn 0.875% 31-Jul-2033	(Aa1/AA/-) A\$2.5bn 2.000% 17-Sep-2035
Joint Lead Manager December 2021	Joint Bookrunner December 2021	Joint Bookrunner October 2021	Joint Bookrunner October 2021	Joint Lead Manager September 2021	Joint Bookrunner September 2021
Inaugural Sustainability Bond	Green Bond	Inaugural Sustainability-Linked Bond	Sustainable Bond and IBRD's first AUD benchmark in 2021	Inaugural Green Gilt	Sustainable Bond

Green Bond	Social Bond	Sustainability Bond	Sustainability-Linked Bond
------------	-------------	---------------------	----------------------------

### All Global ESG Debt Products FY2021

Rank	Bookrunner	% Share
1	JPMorgan	7.2%
2	Citi	5.7%
3	BofA Securities	5.7%
4	BNP Paribas	5.4%
5	<b>Deutsche Bank</b>	<b>4.6%</b>
6	Goldman Sachs	4.6%
7	HSBC	4.5%
8	Barclays	4.2%
9	Credit Agricole CIB	3.9%
10	Morgan Stanley	3.8%
<b>Total</b>		<b>100</b>

# Disclaimer

## IMPORTANT NOTICE

These materials have been prepared by Deutsche Bank AG or one of its subsidiaries, affiliates or branches (“DB”), solely for the benefit of the recipient (the “Recipient”) and are being provided for information purposes only, to assist the Recipient to evaluate the matter to which these materials relate. By accepting these materials, the Recipient agrees to use them only for such purpose and to be bound by the following limitations

These materials speak only as of their date, and the views expressed are subject to change based upon a number of factors, including macroeconomic and equity market conditions, investor attitude and demand and the business prospects of the Recipient (or any other person). These materials and the conclusions contained herein are necessarily based on economic, market and other conditions, as in effect on, and the information made available to DB as of, their date. These materials do not purport to contain a complete description of the Recipient (or any other person) or the market(s) in which the Recipient (or such other person) operates, nor do they provide an audited valuation of the Recipient (or such other person). The analyses contained herein are not, and do not purport to be, appraisals of the assets, stock or business of the Recipient (or any other person). These materials are incomplete without reference to, and should be considered solely in conjunction with, the oral briefing provided in relation to these materials.

Neither DB nor any of its affiliates has acted or is acting (and does not purport to act in any way) in a fiduciary capacity. Nothing herein should be construed as financial, legal, regulatory, tax, accounting, actuarial or other specialist advice. These materials are not intended to provide, and must not be taken as, investment advice nor the basis of any investment decision or other valuation and should not be considered as a recommendation by DB (or any of its affiliates) that the Recipient enter into any transaction. The Recipient must make its own independent assessment and such investigation as it deems necessary to determine its interest in participating in any transaction. No reliance should be placed upon these materials in connection with any actual mandate or transaction. Any decision as to whether or not to enter into any transaction should be taken solely by the Recipient.

These materials have been provided on the basis that the Recipient and its representatives, directors, officers, employees and advisers keep these materials (and any other information that may be provided to the Recipient) confidential. These materials (and such other information) may not be disclosed, summarised or otherwise reproduced, distributed or referred to, in whole or in part, without the prior written consent of DB, provided, however, that the Recipient may disclose these materials on a confidential and non-reliance basis to (i) its legal advisers and (ii) as required by applicable law or regulation. The information used in preparing these materials was obtained from the Recipient or its representatives or from public sources (or has been used with the express or implied consent of the Recipient). DB and its affiliates assume no responsibility for the independent verification of any such information and have relied on it being complete and accurate in all material respects. Neither DB nor any of its affiliates makes any representation or warranty, express or implied, with respect to the fairness, correctness, accuracy, reasonableness or completeness of such information, these materials (including any opinion contained therein), any of their contents or any of the results that can be derived from them. Without limiting a person's liability for fraud, no responsibility or liability (whether in contract, tort or otherwise) is or will be accepted by DB (or any of its affiliates or any of its or their respective representatives, directors, officers, employees or advisers) as to, or in relation to, these materials, their contents, the accuracy, reliability, adequacy or completeness of the information used in preparing these materials, any of the results that can be derived from these materials or any written or oral information provided in connection therewith (including (i) in relation to the distribution or possession of these materials in any jurisdiction or (ii) for any loss or damage of any kind whatsoever arising as a result of the use or misuse of these materials), (iii) for updating or revising these materials, or (iv) for correcting (or notifying the Recipient of) any inaccuracy in these materials or their contents (or any other written or oral information provided in connection therewith) which may become apparent, and any such responsibility, liability or obligation is expressly disclaimed, except to the extent that it cannot be excluded by law. Analyses and opinions contained herein may be based on assumptions that, if altered, can change the analyses or opinions expressed. No audit of these materials has been undertaken by an independent third party.

Any statement or opinion contained herein regarding the investment case, positioning and valuation of the Recipient or any other person is not, and should not be construed as, an indication that DB will provide favourable (or any) research coverage about the Recipient or such other person or publish research containing any particular rating or price target for the securities of the Recipient or such other person. DB has adopted policies and guidelines designed to preserve the independence of any research analyst employed by DB or any of its affiliates, which prohibit any such research analyst from being compensated for his or her involvement in investment banking transactions, and which prohibit its employees (and the employees of any of its affiliates) from offering, directly or indirectly, a favourable research rating or specific price target, or offering to change a research rating or price target, as consideration for or an inducement to obtain business or other compensation.

These materials shall not be construed as a prospectus or an offer to sell, or a solicitation of an offer to buy, any security or any business or assets, nor to enter into any agreement or contract with the Recipient, DB (or any of its affiliates) or any other person. Any transaction will be made pursuant to separate documentation and in such case the information contained herein will be superseded in its entirety by such documentation in final form.