



CIO Special

July 20, 2021

Authors:
Gerit Heinz
Global Chief Investment Strategist

Stefan Köhling
Investment Strategist Europe

German elections: Life after Merkel

01 Introduction

02 Possible coalitions

03 Key policy topics and differences

04 Capital market implications

05 Conclusion

Key take aways

- With Angela Merkel not running for another term, the German federal elections will result not only in a new Bundestag but also in a new Chancellor. Current polls and party-political preferences suggest that the existing CDU/CSU and SPD coalition will also not survive.
- Negotiating a coalition agreement may take some time after the election, given the often contradictory nature of parties' policy objectives. At present a CDU/CSU and Green coalition looks the most likely outcome, but there are other possibilities.
- Fixed income markets may be more sensitive to potential coalition partners' views on spending and debt, at both a national and an EU level. Coalition agreements will be important for some equities sectors, but probably less so for the equity market overall.

01 Introduction

German federal elections will be held on September 26. After 16 years at the helm, Angela Merkel is not running again: there will therefore be both a new Bundestag and a new German Chancellor.

Current opinion polls suggest that the existing coalition allies (i.e. the CDU/CSU and SPD) will not command a majority in the Bundestag. Furthermore, it seems that the CDU/CSU and SPD would not want to continue with their existing coalition anyway. This implies that a new coalition at a federal level of two or even three parties will be necessary. We discuss the possible options below.

The Bundestag elects the Chancellor (they are not elected directly) and, up to now, all the Chancellors in the history of the Federal Republic of Germany have been either from the CDU or SPD. Merkel's CDU/CSU has as its Chancellor candidate Armin Laschet, the incumbent prime minister of North Rhine-Westphalia, Germany's biggest state by population. The SPD has incumbent finance minister Olaf Scholz as its chancellor candidate. With the real possibility of a Green chancellor this time around, the Greens have nominated party co-chair Annalena Baerbock. (The term chancellor candidate does not exist in the German constitution, but has been used by the parties since the 1960s to indicate their preferred choice in the event of an election.)

Some of the potential government coalition combinations do exist on a state level but have not happened at a federal level so far. The next Bundestag will most likely comprise six parliamentary groups meaning that many coalition options are possible and negotiations could be complicated. Potential coalition partners may have no previous working relationship and their opposing positions on many issues could make agreement difficult, particularly if parties come out of the election with a similar share of the vote.

It may therefore take a while until a new government is formed after the federal election. At present, a combination of CDU/CSU and the Greens (the so-called "black-green" coalition) looks the most likely, but opinion polls are fluctuating. Some of their positions with regards to climate protection (market based or regulation), taxation or



Please use the QR code to access a selection of other Deutsche Bank CIO reports.



defense policy seem quite at odds. Involving a third party could further complicate negotiations. Four years ago, talks between CDU/CSU, Greens and FDP failed, resulting in another CDU/CSU and SPD coalition.

In this report we look into possible coalition combinations and the consequences for economic policy and financial markets.

02 Possible coalitions

Since the last federal election in 2017 the German Bundestag has comprised six parliamentary groups: the CDU/CSU, SPD, AfD, Greens, Linke and FDP. A party needs to get 5% or more of the overall vote (or three directly-elected seats) to be represented in the Bundestag: as polls stand, all these six groups will meet this threshold. The German chancellor usually comes from the party with the biggest share of votes trying to form a government.

While some coalition options are politically infeasible, there are still many possibilities. As noted above, polls suggest that a “black-green” (CDU/CSU + Greens) coalition may get the majority of seats. If needed, they may be joined by the FDP to form a so-called “Jamaica” coalition (like the Jamaican flag – black, green and the FDP’s yellow). An alternative “Kenya” coalition of the CDU/CSU, SPD and Greens (black, red, green) is possible but seems unlikely as the SPD seems unwilling to support another CDU chancellorship. A “Germany” coalition (black for CDU/CSU, red for SPD and yellow for FDP) is probably more of a theoretical option than a realistic one, as would be a combination of Greens, SPD and FDP (a “Traffic Light” coalition) as the liberal FDP may find it difficult to support a more leftist government. All other options can be excluded for the time being.

Predicting coalition outcomes is difficult at this stage. Opinion

polls seem to have lost some of their predictive power due to changes in the electorate’s behavior, as witnessed at the last state election in Saxony-Anhalt. The popularity of new faces may also fade, as happened during the last federal election campaign to Mrs. Merkel’s SPD rival, Martin Schulz.

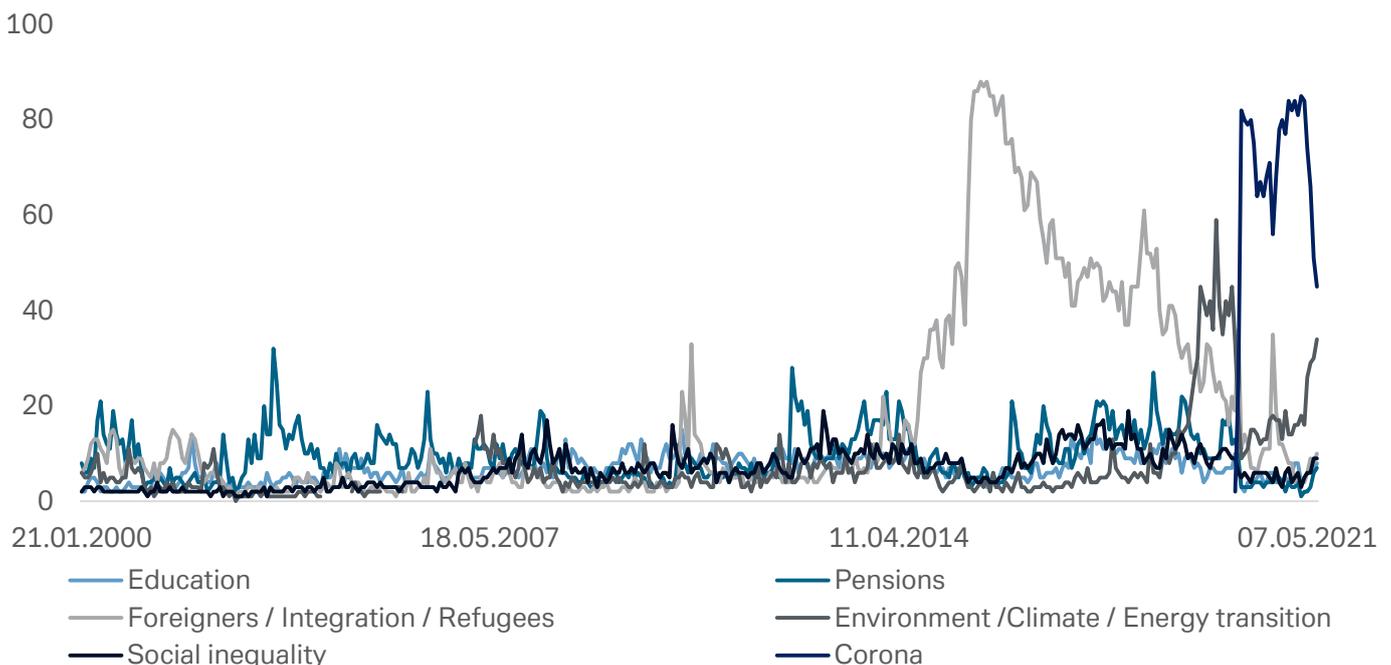
What is also important, as coalition negotiations get under way after the election, will be the parties’ share of the popular vote. The Greens were part of a “red-green” coalition under Chancellor Schröder from 1998-2005. What has changed since then is their possible share of the vote. These days they are hovering around 20% in the polls (having been as high as 25% some weeks ago), whereas back then they were below 10%. A greater voting share may help them push through more of their election programme, were they to be part of the new government.

Figure 1: Results of Bundestag elections in the past 30 years (in %)

Year	CDU/CSU	SPD	FDP	Bundis 90/Die Grünen	Die Linke	AfD	Others
2017	32,9	20,5	10,7	8,9	9,2	12,6	5,0
2013	41,5	25,7	4,8	8,4	8,6		11,0
2009	33,8	23,0	14,6	10,7	11,9		6,0
2005	35,2	34,2	9,8	8,1	8,7		4,0
2002	38,5	38,5	7,4	8,6	4,0		3,0
1998	35,2	40,9	6,2	6,7	5,1		5,9
1994	41,5	36,4	6,9	7,3	4,4		3,5

Source: Bundestag.de, Deutsche Bank AG. Data as of July 15, 2021.

Figure 2: Areas of concern for the German electorate (in %)



Source: Forschungsgruppe Wahlen, Deutsche Bank AG. Data as of June 25, 2021.



03 Key policy topics and differences

During the 2017 federal election, and its aftermath, migration was the dominant topic for the German electorate. Environmental and climate change topics were prominent in 2019 before being displaced by coronavirus in 2020 and 2021. Climate change nonetheless remains the second most important topic for electors (Figure 2) and is therefore likely to play a prominent role in the upcoming election campaign.

Climate politics is at the centre of the Greens' election manifesto. Given that CO2 reduction targets are now agreed to, this focus is less unique than it was in the past. (Following a recent ruling of the German Constitutional Court, Germany is now aiming for a 65% reduction in CO2 emissions by 2030, compared to 1990, and net zero CO2 emissions by 2045.) Other parties also address environmental concerns in their election programmes. Note also that the European Union itself has recently launched its "Fit for 55" climate package recently aiming at 55% CO2 reduction by 2030 and zero emissions by 2050.

As regards other issues, the Greens remain enthusiastic about more European integration, and on reducing social inequality e.g. via a higher minimum wage. They have limited faith in market mechanisms and regulation is seen as a way to achieve some objectives. Their fiscal policy proposals include a reform of the "debt brake" (German's balanced budgets requirement), and higher taxes for top earners and for the wealthy. The reduction of environmentally-harmful subsidies is also proposed as one way to improve the fiscal situation.

The CDU/CSU puts a great weight on economic policy and foreign affairs in its election manifesto. On the environmental front, they propose some market-based instruments such as CO2 emission trading and tax deductions for investments in climate-friendly technologies. Increases in taxes are ruled out and they hold out the hope of some modest tax reductions. The CDU/CSU also want the Next Generation EU fund to be a one-off event and (unlike the Greens) are not in favour of further EU fiscal integration. They want a re-imposition of the currently-suspended rules of the EU Stability and Growth Pact.

CDU/CSU positions on many topics are close to those of the economically-liberal FDP, in particular on economic affairs and market-based instruments for the fight against climate change. The FDP wants to reduce corporate taxes but they could be willing to compromise. At the beginning of their election manifesto they make clear that they want to win enough votes that no government can be formed without them. In this context it is worth remembering that the FDP was criticised for withdrawing from negotiations for a "Jamaica" coalition in 2017.

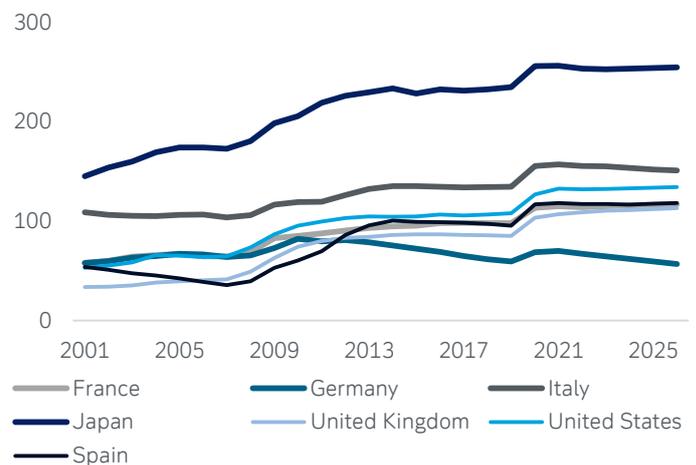
SPD positions are in many senses closer to the Greens and include a strong focus on climate change with more regulation and higher taxes for the wealthy but also on European integration. The SPD stresses humanitarian topics such as inequality and refugee policies as part of its generally left-leaning policy agenda.

In the most likely scenario of a "black-green" coalition government (CDU/CSU and the Greens), neither side will be able to implement all of its ideas. (As noted above, much could depend on the Greens' share of the popular vote: if they get 20%

of the vote, they will be more able to implement important parts of their election manifesto.) If the FDP joins coalition negotiations (for a "Jamaica" coalition) the contrast between the more market-based FDP and CDU/CSU and the more regulation-based Greens may be an obstacle. A "traffic light" coalition (FDP, SPD, Greens) would also face difficulties.

The Greens are very likely to be part of the new government in one of the coalitions mentioned before. However, coalition would mean compromise with either CDU/CSU and/or FDP. As both of these emphasize the stability of public finances, the need for return to the Stability and Growth pact, the one-off character of the NGEU and the importance of adherence to the debt brake, a significant change in Germany's overall fiscal position seems unlikely. Germany managed to reduce debt levels the global financial crisis (GFC) and this seems also likely post COVID-19 crisis subsidies – making Germany as a notable exception amongst the largest western economies (see Figure 3).

Figure 3: Debt/GDP levels (IMF forecasts for 2021 and beyond)



Source: IMF, Deutsche Bank AG. Data as of April 2021.

04 Capital market implications

Coalition agreements on spending are however likely to have the most immediate impact on capital markets. Two separate issues add to the challenges here: first, extra spending to deal with environmental issues and, second, the impact of pan-EU spending in response to the coronavirus pandemic. On the first issue, for example, the Greens' manifesto foresees additional spending of EUR50bn per year for this decade for public investments. On the second issue, the CDU/CSU and FDP argue that the Next Generation EU fund (the EU's main coronavirus spending vehicle) and its corollary of EU common debt should be a one-off effort. They also want a return to the pre-pandemic rules of the EU stability and growth pact.

The impact of these two issues – environmental and EU pandemic-response spending – could be most evident for the fixed income markets.



More (debt-financed) spending implies that government bond supply must increase strongly. More spending, via adding to economic momentum, could also reinforce inflationary pressures meaning that the German economy starts to overheat. (There are echoes of the discussion currently taking place in the U.S. around the Biden administration's spending plans.) Growth momentum and higher debt supply would, *ceteris paribus*, suggest rising German yields in the medium to longer term.

There is also a concern that, from a fixed income investor's perspective, discussions around the Next Generation EU fund to turn it into a permanent fiscal fixture could change perceptions around German government bonds as a potential alternative may arise. This development would be least imaginable in a coalition with FDP participation.

The impact of the various possible election outcomes on equities might be less profound. The Greens' participation in a coalition and their focus on climate topics and corresponding spending would support certain areas, e.g. clean energy or infrastructure. Higher taxes and higher minimum wages, also key points in the SPD manifesto, would tend to reduce profit margins.

But, as many exchange-listed German large cap companies have substantial foreign revenues and also production located abroad to meet foreign demand, the effect on corporate earnings might be muted, but note planned global corporate tax reforms.

05 Conclusion

The federal election in September will bring change to Germany. On the basis of current polling (which may change, or prove wrong) the next chancellor will probably be Armin Laschet (CDU) but the potential government coalition is far from certain. Most likely the Greens will join the CDU/CSU in a "black-green" coalition but a "Jamaica" coalition with Greens and FDP is possible.

Any coalition will need to reconcile its members' often contradictory policy objectives. Climate change is on political agendas of all the parties that could be involved in coalition talks, but with different proposed solutions. With regards to economic policy we would still expect a focus on debt reduction in the coalitions suggested above, given it is a key priority for CDU/CSU and FDP. In return, the Greens may be allowed to push through more regulation on climate matters.

From a capital markets perspective, spending and debt will remain key issues. Spending pressures will come from two sources: spending to counter the effects of climate change, and increased national and pan-EU spending to deal with the effects of the coronavirus pandemic. Increased national debt issuance will have an impact on German bund yields. European debt issuance could also have a profound impact on perceptions around German yields. These will be important issues for the next German federal government, whatever its complexion.



Glossary

AfD (Alternative for Germany) is a right-wing populist German political party.

The **CDU/CSU** is an alliance of two German centre-right political parties, the Christian Democratic Union and the Bavarian Christian Social Union.

Die Linke (the Left) is a left-wing German political party.

The **FDP** (Free Democratic Party) is a German liberal centre-right political party.

The **global financial crisis (GFC)** is the financial crisis that started in 2007/2008 and led to a recession in many major economies, originating from an asset bubble in the U.S. mortgage market.

The **Next Generation EU (NGEU)** stands for European Union recovery package to support member states hit by the COVID-19 pandemic.

The **SPD** is a centre-left German political party, currently forming a coalition government with the CDU/CSU.



Important information

General

This document may not be distributed in Canada or Japan. This document is intended for retail or professional clients only. This document is being circulated in good faith by Deutsche Bank AG, its branches (as permitted in any relevant jurisdiction), affiliated companies and its officers and employees (collectively, "Deutsche Bank").

This material is for your information only and is not intended as an offer, or recommendation or solicitation of an offer to buy or sell any investment, security, financial instrument or other specific product, to conclude a transaction, or to provide any investment service or investment advice, or to provide any research, investment research or investment recommendation, in any jurisdiction. All materials in this communication are meant to be reviewed in their entirety.

If a court of competent jurisdiction deems any provision of this disclaimer unenforceable, the remaining provisions will remain in full force and effect. This document has been prepared as a general market commentary without consideration of the investment needs, objectives or financial circumstances of any investor. Investments are subject to generic market risks which derive from the instrument or are specific to the instrument or attached to the particular issuer. Should such risks materialise, investors may incur losses, including (without limitation) a total loss of the invested capital. The value of investments can fall as well as rise and you may not recover the amount originally invested at any point in time. This document does not identify all the risks (direct or indirect) or other considerations which may be material to an investor when making an investment decision. This document and all information included herein are provided "as is", "as available" and no representation or warranty of any kind, express, implied or statutory, is made by Deutsche Bank regarding any statement or information contained herein or in conjunction with this document. All opinions, market prices, estimates, forward looking statements, hypothetical statements, forecast returns or other opinions leading to financial conclusions contained herein reflect Deutsche Bank's subjective judgment on the date of this report. Without limitation, Deutsche Bank does not warrant the accuracy, adequacy, completeness, reliability, timeliness or availability of this communication or any information in this document and expressly disclaims liability for errors or omissions herein. Forward looking statements involve significant elements of subjective judgments and analyses and changes thereto and/or consideration of different or additional factors could have a material impact on the results indicated. Therefore, actual results may vary, perhaps materially, from the results contained herein.

Deutsche Bank does not assume any obligation to either update the information contained in this document or inform investors about available updated information. The information contained in this document is subject to change without notice and based on a number of assumptions which may not prove valid, and may be different from conclusions expressed by other departments within Deutsche Bank. Although the information contained in this document has been diligently compiled by Deutsche Bank and derived from sources that Deutsche Bank considers trustworthy and reliable, Deutsche Bank does not guarantee or cannot make any guarantee about the completeness, fairness, or accuracy of the information and it should not be relied upon as such. This document may provide, for your convenience, references to websites and other external sources. Deutsche Bank takes no responsibility for their content and their content does not form any part of this document. Accessing such external sources is at your own risk.

Before making an investment decision, investors need to consider, with or without the assistance of an investment adviser, whether any investments and strategies described or provided by Deutsche Bank, are appropriate, in light of their particular investment needs, objectives, financial circumstances and instrument specifics. When making an investment decision, potential investors should not rely on this document but only on what is contained in the final offering documents relating to the investment. As a global financial services provider, Deutsche Bank from time to time faces actual and potential conflicts of interest. Deutsche Bank's policy is to take all appropriate steps to maintain and operate effective organisational and administrative arrangements to identify and manage such conflicts. Senior management within Deutsche Bank are responsible for ensuring that Deutsche Bank's systems, controls and procedures are adequate to identify and manage conflicts of interest.

Deutsche Bank does not give tax or legal advice, including in this document and nothing in this document should be interpreted as Deutsche Bank providing any person with any investment advice. Investors should seek advice from their own tax experts, lawyers and investment advisers in considering investments and strategies described by Deutsche Bank. Unless notified to the contrary in a particular case, investment instruments are not insured by any governmental entity, not subject to deposit protection schemes and not guaranteed, including by Deutsche Bank. This document may not be reproduced or circulated without Deutsche Bank's express written authorisation. Deutsche Bank expressly prohibits the distribution and transfer of this material to third parties. Deutsche Bank accepts no liability whatsoever arising from the use or distribution of this material or for any action taken or decision made in respect of investments mentioned in this document the investor may have entered into or may enter in future.

The manner of circulation and distribution of this document may be restricted by law or regulation in certain countries, including, without limitation, the United States. 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, publication, availability or use would be contrary to law or regulation or which would subject Deutsche Bank to any registration or licensing requirement within such jurisdiction not currently met. Persons into whose possession this document may come are required to inform themselves of, and to observe, such restrictions. Past performance is no guarantee of future results; nothing contained herein shall constitute any representation, warranty or prediction as to future performance. Further information is available upon investor's request.

Kingdom of Bahrain

For Residents of the Kingdom of Bahrain: This document does not constitute an offer for sale of, or participation in, securities, derivatives or funds marketed in Bahrain within the meaning of Bahrain Monetary Agency Regulations. All applications for investment should be received and any allotments should be made, in each case from outside of Bahrain. This document has been prepared for private information purposes of intended investors only who will be institutions. No invitation shall be made to the public in the Kingdom of Bahrain and this document will not be issued, passed to, or made available to the public generally. The Central Bank (CBB) has not reviewed, nor has it approved, this document or other marketing of such securities, derivatives or funds in the Kingdom of Bahrain. Accordingly, the securities, derivatives or funds may not be offered or sold in Bahrain or to residents thereof except as permitted by Bahrain law. The CBB is not responsible for performance of the securities, derivatives or funds.

State of Kuwait

This document has been sent to you at your own request. This presentation is not for general circulation to the public in Kuwait. The Interests have not been licensed for offering in Kuwait by the Kuwait Capital Markets Authority or any other relevant Kuwaiti government agency. The offering of



Important information

the Interests in Kuwait on the basis a private placement or public offering is, therefore, restricted in accordance with Decree Law No. 31 of 1990 and the implementing regulations thereto (as amended) and Law No. 7 of 2010 and the bylaws thereto (as amended). No private or public offering of the Interests is being made in Kuwait, and no agreement relating to the sale of the Interests will be concluded in Kuwait. No marketing or solicitation or inducement activities are being used to offer or market the Interests in Kuwait.

United Arab Emirates

Deutsche Bank AG in the Dubai International Financial Centre (registered no. 00045) is regulated by the Dubai Financial Services Authority. Deutsche Bank AG -DIFC Branch may only undertake the financial services activities that fall within the scope of its existing DFSA license. Principal place of business in the DIFC: Dubai International Financial Centre, The Gate Village, Building 5, PO Box 504902, Dubai, U.A.E. This information has been distributed by Deutsche Bank AG. Related financial products or services are only available to Professional Clients, as defined by the Dubai Financial Services Authority.

State of Qatar

Deutsche Bank AG in the Qatar Financial Centre (registered no. 00032) is regulated by the Qatar Financial Centre Regulatory Authority. Deutsche Bank AG -QFC Branch may only undertake the financial services activities that fall within the scope of its existing QFCRA license. Principal place of business in the QFC: Qatar Financial Centre, Tower, West Bay, Level 5, PO Box 14928, Doha, Qatar. This information has been distributed by Deutsche Bank AG. Related financial products or services are only available to Business Customers, as defined by the Qatar Financial Centre Regulatory Authority.

Kingdom of Belgium

This document has been distributed in Belgium by Deutsche Bank AG acting through its Brussels Branch. Deutsche Bank AG is a stock corporation ("Aktiengesellschaft") incorporated under the laws of the Federal Republic of Germany and licensed to carry on banking business and to provide financial services subject to the supervision and control of the European Central Bank ("ECB") and the German Federal Financial Supervisory Authority ("Bundesanstalt für Finanzdienstleistungsaufsicht" or "BaFin"). Deutsche Bank AG, Brussels Branch has its registered address at Marnixlaan 13-15, B-1000 Brussels, registered at the RPM Brussels, under the number VAT BE 0418.371.094. Further details are available on request or can be found at www.deutschebank.be.

Kingdom of Saudi Arabia

Deutsche Securities Saudi Arabia Company (registered no. 07073-37) is regulated by the Capital Market Authority. Deutsche Securities Saudi Arabia may only undertake the financial services activities that fall within the scope of its existing CMA license. Principal place of business in Saudi Arabia: King Fahad Road, Al Olaya District, P.O. Box 301809, Faisaliah Tower, 17th Floor, 11372 Riyadh, Saudi Arabia.

United Kingdom

In the United Kingdom ("UK"), this publication is considered a financial promotion and is approved by DB UK Bank Limited on behalf of all entities trading as Deutsche Bank Wealth Management in the UK. Deutsche Bank Wealth Management is a trading name of DB UK Bank Limited. Registered in England & Wales (No. 00315841). Registered Office: 23 Great Winchester Street, London EC2P 2AX. DB UK Bank Limited is authorised and regulated by the Financial Conduct Authority and its Financial Services Registration Number is 140848. Deutsche Bank reserves the right to distribute this publication through any of its UK subsidiaries, and in any such case, this publication is considered a financial promotion and is approved by such subsidiary where it is authorised by the appropriate UK regulator (if such subsidiary is not so authorised, then this publication is approved by another UK member of the Deutsche Bank Wealth Management group that has the requisite authorisation to provide such approval).

Hong Kong

This document and its contents are provided for information only. Nothing in this document is intended to be an offer of any investment or a solicitation or recommendation to buy or to sell an investment and should not be interpreted or construed as an offer, solicitation or recommendation. To the extent that this document makes reference to any specific investment opportunity, its contents have not been reviewed. The contents of this document have not been reviewed by any regulatory authority in Hong Kong. You are advised to exercise caution in relation to the investments contained herein. If you are in any doubt about any of the contents of this document, you should obtain independent professional advice. This document has not been approved by the Securities and Futures Commission in Hong Kong nor has a copy of this document been registered by the Registrar of Companies in Hong Kong and, accordingly, (a) the investments (except for investments which are a "structured product", as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong) (the "SFO")) may not be offered or sold in Hong Kong by means of this document or any other document other than to "professional investors" within the meaning of the SFO and any rules made thereunder, or in other circumstances which do not result in the document being a "prospectus" as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32 of the Laws of Hong Kong) ("CO") or which do not constitute an offer to the public within the meaning of the CO and (b) no person shall issue or possess for the purposes of issue, whether in Hong Kong or elsewhere, any advertisement, invitation or document relating to the investments which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to the investments which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" within the meaning of the SFO and any rules made thereunder.

Singapore

The contents of this document have not been reviewed by the Monetary Authority of Singapore ("MAS"). The investments mentioned herein are not allowed to be made to the public or any members of the public in Singapore other than (i) to an institutional investor under Section 274 or 304 of the Securities and Futures Act (Cap 289) ("SFA"), as the case may be (as any such Section of the SFA may be amended, supplemented and/or replaced from time to time), (ii) to a relevant person (which includes an Accredited Investor) pursuant to Section 275 or 305 and in accordance with other



Important information

conditions specified in Section 275 or 305 respectively of the SFA, as the case may be (as any such Section of the SFA may be amended, supplemented and/or replaced from time to time), (iii) to an institutional investor, an accredited investor, expert investor or overseas investor (each as defined under the Financial Advisers Regulations) ("FAR") (as any such definition may be amended, supplemented and/or replaced from time to time) or (iv) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA or the FAR (as the same may be amended, supplemented and/or replaced from time to time).

United States

In the United States, brokerage services are offered through Deutsche Bank Securities Inc., a broker-dealer and registered investment adviser, which conducts securities activities in the United States. Deutsche Bank Securities Inc. is a member of FINRA, NYSE and SIPC. Banking and lending services are offered through Deutsche Bank Trust Company Americas, member FDIC, and other members of the Deutsche Bank Group. In respect of the United States, see earlier statements made in this document. Deutsche Bank makes no representations or warranties that the information contained herein is appropriate or available for use in countries outside of the United States, or that services discussed in this document are available or appropriate for sale or use in all jurisdictions, or by all counterparties. Unless registered, licensed as otherwise may be permissible in accordance with applicable law, none of Deutsche Bank or its affiliates is offering any services in the United States or that are designed to attract US persons (as such term is defined under Regulation S of the United States Securities Act of 1933, as amended). This United States-specific disclaimer will be governed by and construed in accordance with the laws of the State of Delaware, without regard to any conflicts of law provisions that would mandate the application of the law of another jurisdiction.

Germany

This document has been created by Deutsche Bank Wealth Management, acting through Deutsche Bank AG and has neither been presented to nor approved by the German Federal Financial Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht). For certain of the investments referred to in this document, prospectuses have been approved by competent authorities and published. Investors are required to base their investment decision on such approved prospectuses including possible supplements. Further, this document does not constitute financial analysis within the meaning of the German Securities Trading Act (Wertpapierhandelsgesetz) and, thus, does not have to comply with the statutory requirements for financial analysis. Deutsche Bank AG is a stock corporation ("Aktiengesellschaft") incorporated under the laws of the Federal Republic of Germany with principal office in Frankfurt am Main. It is registered with the district court ("Amtsgericht") in Frankfurt am Main under No HRB 30 000 and licensed to carry on banking business and to provide financial services. Supervisory authorities: The European Central Bank ("ECB"), Sonnemannstrasse 22, 60314 Frankfurt am Main, Germany and the German Federal Financial Supervisory Authority ("Bundesanstalt für Finanzdienstleistungsaufsicht" or "BaFin"), Graurheindorfer Strasse 108, 53117 Bonn and Marie-Curie-Strasse 24-28, 60439 Frankfurt am Main, Germany.

India

The investments mentioned in this document are not being offered to the Indian public for sale or subscription. This document is not registered and/or approved by the Securities and Exchange Board of India, the Reserve Bank of India or any other governmental/ regulatory authority in India. This document is not and should not be deemed to be a "prospectus" as defined under the provisions of the Companies Act, 2013 (18 of 2013) and the same shall not be filed with any regulatory authority in India. Pursuant to the Foreign Exchange Management Act, 1999 and the regulations issued there under, any investor resident in India may be required to obtain prior special permission of the Reserve Bank of India before making investments outside of India including any investments mentioned in this document.

Italy

This report is distributed in Italy by Deutsche Bank S.p.A., a bank incorporated and registered under Italian law subject to the supervision and control of Banca d'Italia and CONSOB.

Luxembourg

This report is distributed in Luxembourg by Deutsche Bank Luxembourg S.A., a bank incorporated and registered under Luxembourg law subject to the supervision and control of the Commission de Surveillance du Secteur Financier.

Spain

Deutsche Bank, Sociedad Anónima Española is a credit institution regulated by the Bank of Spain and the CNMV, and registered in their respective Official Registries under the Code 019. Deutsche Bank, Sociedad Anónima Española may only undertake the financial services and banking activities that fall within the scope of its existing license. The principal place of business in Spain is located in Paseo de la Castellana number 18, 28046 - Madrid. This information has been distributed by Deutsche Bank, Sociedad Anónima Española.

Portugal

Deutsche Bank AG, Portugal Branch is a credit institution regulated by the Bank of Portugal and the Portuguese Securities Commission ("CMVM"), registered with numbers 43 and 349, respectively and with commercial registry number 980459079. Deutsche Bank AG, Portugal Branch may only undertake the financial services and banking activities that fall within the scope of its existing license. The registered address is Rua Castilho, 20, 1250-069 Lisbon, Portugal. This information has been distributed by Deutsche Bank AG, Portugal Branch.



Important information

Austria

This document is distributed by Deutsche Bank AG Vienna Branch, registered in the commercial register of the Vienna Commercial Court under number FN 140266z. Deutsche Bank AG is a public company incorporated under German law and authorized to conduct banking business and provide financial services. It is supervised by the European Central Bank (ECB), Sonnemannstraße 22, 60314 Frankfurt am Main, Germany and by the Federal Financial Supervisory Authority (BaFin), Graurheindorfer Straße 108, 53117 Bonn, Germany and Marie-Curie-Strasse 24-28, 60439 Frankfurt am Main, Germany. The Vienna branch is also supervised by the Austrian Financial Market Authority (FMA), Otto-Wagner Platz 5, 1090 Vienna. This document has neither been submitted to nor approved by the aforementioned supervisory authorities. Prospectuses may have been published for certain of the investments mentioned in this document. In such a case, investment decisions should be made solely on the basis of the published prospectuses, including any annexes. Only these documents are binding. This document constitutes marketing material for informational and promotional purposes only and is not the result of any financial analysis or research.

The Netherlands

This document is distributed by Deutsche Bank AG, Amsterdam Branch, with registered address at De entree 195 (1101 HE) in Amsterdam, the Netherlands, and registered in the Netherlands trade register under number 33304583 and in the register within the meaning of Section 1:107 of the Netherlands Financial Supervision Act (Wet op het financieel toezicht). This register can be consulted through www.dnb.nl.

050055 071621