

Investment Strategy Bulletin

German elections: the end of an era opens up a range of scenarios

Investment Solutions 27 August 2021

- The 26 September federal elections will change Germany's leadership after four terms of Chancellor Angela Merkel. The next government's composition is highly uncertain.
- Current polls point to a three-way coalition including both centre-left and centre-right parties, meaning any policy change will be modest.
- Nevertheless, the next government's fiscal stance should be more expansionary than pre-Covid, as all parties see the need to invest in the energy transition.
- A shift in fiscal policy will be measured rather than revolutionary: centre-right parties continue to advocate balanced budgets and resist rising debt.
- Some additional flexibility in EU fiscal matters looks possible, but bold EU fiscal rule reforms, or continuing the Recovery Fund, would face centre-right opposition.

Germany's Chancellor, Angela Merkel, has steered her country through a series of crises over the last 15 years, from the global financial crisis to the European debt crisis and the Covid pandemic. While every other European country has regularly changed its head of government, Germany has been a notable exception. The result will set the tone for fiscal policy in both Europe's biggest economy, and across the European Union.

In September, Germany's voters will elect a new Chancellor. Crucially, the result is likely to create a three-way coalition, as this appears the only way to achieve a governing majority in the parliament, or Bundestag.

A fragmented electorate means a range of possible outcomes

Poll data in decent months point to a close and volatile race with the lead already swapping (see chart 1, page 2). Over the summer months, the alliance between the Christian Democratic Union (CDU) and the Christian Social Union (CSU), known as the Union Party, has been challenged by the Greens, and most recently, the Social Democratic Party (SPD). With no combination of two parties close to a majority of 50%, current polls, if accurate, point to a three-party coalition. This is especially true if we rule out the possibility of another 'grand coalition' between the CDU/CSU and the SPD, a scenario opposed by the latter.

Box: German electoral system and the principle of proportionality

Each voter casts two votes:

- The first is a vote for a candidate in their constituency (Wahlkreise). The candidate with the most votes is directly elected to the Bundestag. The 299 constituencies each elects a representative by majority voting.
- 2. The second vote is cast for a party. This **proportional voting** process determines each party's share of seats in the Bundestag.

Parties with less than 5% of votes get no seats, except for those won in majority voting. In contrast, parties with at least 5% of votes, are awarded seats in line with their proportional share of the vote.

For example, a party winning 150 seats by majority voting and 200 seats in the proportional vote process wins an additional 50 seats. A party winning 150 seats by majority voting, but only 100 by proportional vote, would keep the 'extra' 50 seats, to respect the proportionality principle. This explains why the number of Bundestag seats can vary between 598 and 750.

Since absolute majority is rarely achieved by a single party¹, it is then up to parliament to elect the Chancellor for a four-year term through coalition negotiations.

¹ The only exception to this has been Konrad Adenauer's win in the 1957 elections that handed the CDU/CSU an absolute majority

The precise vote needed for a majority in the Bundestag is hard to establish, given the particularities of Germany's electoral system. As explained in the box on the left, the number of parliamentary seats is not fixed. Nevertheless, a total vote share of around 48% should be enough to secure a majority.

This situation leads to a wide range of possible outcomes (summarised in the Appendix), given the number of different three-way combinations that could create a Bundestag majority.

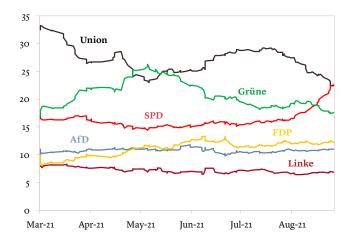
A key implication is that, despite the differences in party agendas (discussed below), we expect most of these possible outcomes to result in a significant degree of policy continuity. This is because most scenarios would include both centre-left and centre-right parties. The very process of forming a coalition inevitably requires these two sides to reach a compromise. This tends to lead to 'lowest common denominator' government coalitions, with the most ambitious items on each party's agenda likely to be dropped.

There is however one such combination that would result in a marked departure from status quo: an SPD-Green-Left government, known as an 'RRG' (Red-Red-Green) coalition, which would stand for a significant increase in investment, some tax hikes, and a more favorable stance towards fiscal transfers at an EU level. This is a low-probability outcome, give that their current poll numbers only barely sum to 50%, and SPD candidate Olaf Scholz has taken a stance against governing with the Left.

The other implication is that the government formation process may prove both long and complicated. Following the

1. Polls point to an unusually close race

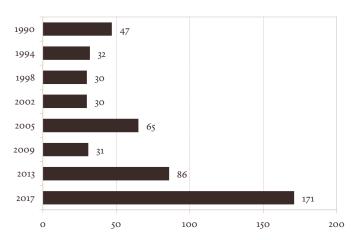
Average of last five polls, in percent



Sources: Polling companies, Wikipedia, Lombard Odier

2. Forming a government coalition is a complicated affair

Days between elections and government formation



Sources: Bundeswahleiter, Lombard Odier

last general election in 2017, it took almost six months for a new government to be formed. This is historically exceptional (see chart 2, page 2), but all governments for the last 30 years have been two-party coalitions, reducing the complexity of negotiations to form a government.

A three-party coalition therefore risks a protracted period of uncertainty while negotiations work through different scenarios. This may have a market impact. In the near term, the macroeconomic risk is limited, as the outgoing government will act as caretaker and continue to implement 2021's budget. However, if the talks extend beyond 2021, when the current budget expires, the government would then face important spending constraints. Nevertheless, our baseline expectation is the urgency of dealing with the pandemic should help accelerate the process of forming a multi-party government.

A shift in fiscal stance is the key macro variable

The key areas of market interest are the fiscal plans and the approach to EU/euro area matters.

In the recent (pre-pandemic) past, Germany ran a particularly tight fiscal policy, with government budgets consistently in surplus (see chart 3). The flipside of these budget surpluses is Germany's well-known lack of public investment. The reduced fiscal impact from limited public spending can act as a drag on near-term GDP growth. More importantly, it affects the economy's long-term growth prospects as this underinvestment has allowed the quality of public infrastructure to deteriorate. This became evident during the pandemic as severe shortfalls

in digital services and the education system have made the topic an electoral issue this year.

A tight fiscal stance also has acritical effect on financial markets: the limited borrowing by German government has resulted in bond scarcity, which – together with increased demands for safe assets —has contributed to the marked fall in Bund yields: 10-year yields fell below 0% in May 2019 and have remained negative ever since.

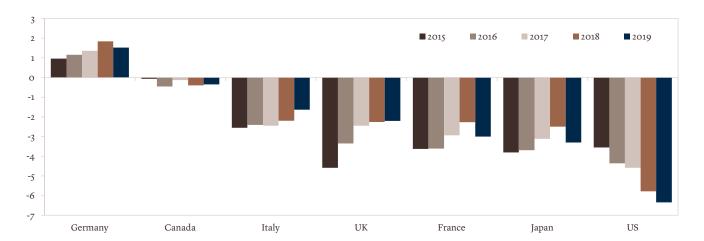
The budget surpluses are a result of policy decisions, the most important of which is the Constitutional 'debt brake'. This bans structural deficits in excess of 0.35% of GDP, and in 2009 it was enshrined in the constitution, backed by a two-thirds majority. The current government coalition went further than the constraint imposed by the debt brake, committing to the policy of 'Schwarze Null' (black zero), effectively banning fiscal deficits.

In the Covid pandemic, the debt brake was suspended until 2022, given the need for a forceful policy response to the crisis. But the political left and right differ significantly on the fiscal way forward, once the emergency is over. The centre-right parties (CDU/CSU and Free Democratic Party) argue in favour of a tight fiscal stance, specifically re-implementing the debt brake, while discussing plans to reduce the debt-to-GDP ratio and quickly repay all of the public debt from the pandemic.

The Greens support a change in Germany's constitution to remove the debt brake, permitting a significant increase in public investment, and campaign for additional investments of EUR 50 billion (or about 1.5% of GDP) per year until 2030. The

3. Germany stands out among G7 economies for budgets consistently in surplus before the pandemic crisis

General government net lending/borrowing, in percent of GDP



Sources: IMF, Lombard Odier

SPD, while also in favour of increasing public investment, takes a less ambitious fiscal approach, arguing that the two-thirds majority needed to change the constitution is hard to achieve.

All parties acknowledge the need to invest in relating to combat climate change, support the clean energy transition, and address the issues raised by the pandemic. But the urgency and the scope differ materially, with the Greens (and the left) looking for larger investments and a sharper reduction of carbon emissions, while the centre-right has a more gradualist approach (see Appendix).

Overall, we expect the next government to take a more expansionary fiscal stance, but the extent will depend on the composition of the coalition and the negotiations in the process of forming a coalition government. Given the opposition to reforming the debt brake by centre-right parties and their electorate, we believe that there is only a modest likelihood of a meaningful long-term shift in German fiscal policy.

Domestic and European fiscal matters: some strong parallels

German government priorities are critical to European economic policy, as any EU-level reform efforts are highly unlikely to succeed without German support. Conversely, a German government increasing public investment at home to combat climate change, may give the momentum needed to promote similar initiatives at an EU level.

While not as strict, or strictly enforced, as Germany's debt brake, the EU's fiscal rules² have often added to an already contractionary fiscal mix across the euro area, contributing to sub-par growth outcomes. Their complexity has also been

Timeline

29 August: TV debate

12 September: TV debate

23 September: final debate

26 September: election date

criticised by many observers including official institutions such as the <u>International Monetary Fund</u>, and the need for reform has been a <u>matter of intense debate</u>, pre-dating the pandemic.

Covid has raised even more questions. The crisis allowed for a suspension of fiscal rules until 2022. But what happens once the crisis is over remains an open question. A strict re-introduction of the EU fiscal rules –as advocated by the FDP – would create contractionary fiscal policy across the euro area as any country with a debt-to-GDP ratio above 60% would need to run budget surpluses to bring it back towards this threshold. That would certainly slow the economic recovery, and make the future normalisation of monetary policy by the European Central Bank (even) more challenging, if not impossible.

At the other end of the spectrum, the Greens propose a reform of the Stability and Growth Pact to protect investment, an increase in the EU budget with new revenue sources from digital and financial taxes, and support for the Recovery Fund as a permanent crisis-fighting tool.

While the fiscally conservative parties are likely to block the more ambitious parts of such an agenda, a more flexible policy may materialise, especially if the next German government is controlled by centre-left parties. This flexibility may include further suspensions in the near term to deal with the impact of the crisis, or medium-term carve-outs for expenditures to deal with much-needed investment in certain sectors.

The future of the Recovery Fund will demand a longer discussion – and its outcome will depend on whether the funds, just starting to be disbursed across the EU, are spent effectively. But even if the September elections do not provide a definitive answer, we will be watching this closely given its critical role in the EU's financial architecture.

It is worth highlighting, however, that German political-party differences on European issues are primarily a matter of degree rather than approach. Building and preserving the European project has been a key German policy in the postwar era, and we believe this will continue: all the major party candidates are deeply committed to the EU and the euro. Unlike elections in other EU countries, where the tail risk of a Eurosceptic win can worry markets, such a scenario looks extremely unlikely in the German elections.

Bill Papadakis, Macro Strategist

² The fiscal rules were enshrined in the founding documents of the European Monetary Union. The 1992 Maastricht Treaty requires members to keep public debt below 60% and public deficits below 3% of GDP. In 1997 the Stability and Growth Pact (SGP) provided the associated enforcement mechanisms.

Table 1: Summary of key agenda items by party

Party	Taxes & Fiscal	Public Investment	Climate	Europe	Industrial & trade policy
CDU/CSU	No change to constitutional debt brake No wealth tax Tax cuts for low and middle incomes	Improve traffic connection with eastern neighbors EUR 500mn for healthcare EUR 15bn until 2025 for tel. networks	2045 – climate neutral Widen emissions certificate trading (ETS)	No eurozone debt mutualisation NextGenEU is welcome, but a one-off	Less bureaucracy Sovereignty offensive for pharma industry
FDP	Repay pandemic's gov. debt asap Cap corporate taxation at 25%	Public infrastructure investment EUR 2.5bn per year extra in education Future fund for start-up	 Limit global warming to 1.5 degrees 2050 - Climate neutral Widen emissions certificate trading (ETS) 	Full reinstatement of the stability pact NextGenEU is welcome, but a one-off	More free trade agreement, including trans-atlantic
SPD	No austerity after the crisis 1% wealth tax on very large wealth Financial transaction tax	Government as "strategic investor Investment in public transport, digital schools, healthcare	Limit global warming to 2 degrees 2050 - Climate neutral 2038 end of coal power	Expand EU-wide public investment initiatives	Focus on re-onshoring pharmaceuticals production Battery technology
Grüne	Exempt public investment from constitutional debt brake 45% income tax > EUR took Abolish 25% capital gains tax	EUR 50bn per year additional public investment until 2030 More culture spending	Limit global warming to 1.5 degrees Emission-free cars only from 2030 Raise CO2 price in 2023	European fiscal policy to complement monetary policy Reduce intra Eurozone imbalances	Battery technology Foster semi-conductors industry
Linke	Abolish debt brake Wealth tax up to 5% on net asset > EUR 1 mios Raise tax free allowance to EUR 14K	EUR 20bn per year "transformation fund", EUR 10bn for social housing, EUR 38bn for public transport	100% renewable energy by 2030	EUR 1-2 trillion debt-funded EU investment program Strengthen fiscal supervision	Nationalise all health care providers Nationalise energy grid.

Sources: parties manifestos

Table 2: Possible coalition scenarios*

		Fiscal stance		Climate transition investments	EU / Euro area issues	
Combined vote share in polls		Taxes	New spending	mvestments	EU Budget	EU Federalism
53%	Jamaica CDU/CSU- Greens-FDP	-	=	+	-	+
52%	Traffic Light SPD-FDP-Greens	+	+	++	=+	+
62%	Kenya CDU/CSU- Greens-SPD	+	+	++	=+	=
57%	Germany CDU/CSU- SPD-FDP	-	=	+	-	=
45%	R2G SPD-Left-Greens	++	++	++	++	+

 $^{^{2}~}$ all parties have ruled out the possibility of forming a coalition with the Eurosceptic AfD

Source: Lombard Odier

Important information

This is a marketing communication issued by Bank Lombard Odier & Co Ltd (hereinafter "Lombard Odier").

It is not intended for distribution, publication, or use in any jurisdiction where such distribution, publication, or use would be unlawful, nor is it aimed at any person or entity to whom it would be unlawful to address such a marketing communication.

This marketing communication is provided for information purposes only. It does not constitute an offer or a recommendation to subscribe, purchase, sell or hold any security or financial instrument. It contains the opinions of Lombard Odier, as at the date of issue. These opinions and the information contained herein do not take into account an individual's specific circumstances, objectives, or needs. No representation is made that any investment or strategy is suitable or appropriate to individual circumstances or that any investment or strategy constitutes personalised investment advice to any investor. Tax treatment depends on the individual circumstances of each person and may be subject to change in the future. Lombard Odier does not provide tax advice. Therefore, you must verify the above and all other information provided in the marketing communication or otherwise review it with your external tax advisors. Some investment products and services, including custody, may be subject to legal restrictions or may not be available worldwide on an unrestricted basis.

The information and analysis contained herein are based on sources considered reliable. Lombard Odier uses its best effort to ensure the timeliness, accuracy, and comprehensiveness of the information contained in this marketing communication. Nevertheless, all information and opinions as well as the prices, market valuations and calculations indicated herein may change without notice.

Investments are subject to a variety of risks. Before entering into any transaction, an investor should consult his/her investment advisor and, where necessary, obtain independent professional advice in respect of risks, as well as any legal, regulatory, credit, tax, and accounting consequences. Past performance is no guarantee of current or future returns, and the investor may receive back less than he/she invested. The value of any investment in a currency other than the base currency of a portfolio is subject to foreign exchange rate risk. Exchange rates may fluctuate and adversely affect the value of the investment when it is realised and converted back into the investor's base currency. The liquidity of an investment is subject to supply and demand. Some products may not have a well-established secondary market or in extreme market conditions may be difficult to value, resulting in price volatility and making it difficult to obtain a price to dispose of the asset.

European Union Members: This marketing communication has been approved for use by Lombard Odier (Europe) S.A. in Luxembourg and by each of its branches operating in the following territories: **Belgium**: Lombard Odier (Europe) S.A. Luxembourg • Belgium branch; **France**: Lombard Odier (Europe) S.A. • Succursale en France; **Italy**: Lombard Odier (Europe) S.A. • Italian branch; **Spain**: Lombard Odier (Europe) S.A. • Succursal en España. Lombard Odier (Europe) S.A. is a credit institution authorised and regulated by the Commission de Surveillance du Secteur Financier (CSSF) in Luxembourg.

In addition, this marketing communication has also been approved for use by the following entity domiciled within the European Union: **Spain**: Lombard Odier Gestión (España) S.G.I.I.C., S.A.U., an investment management company authorised and regulated by the Comisión Nacional del Mercado de Valores (CNMV), Spain.

Hong Kong: This marketing communication has been approved for use by Lombard Odier (Hong Kong) Limited, a licensed entity regulated and supervised by the Securities and Futures Commission in Hong Kong for the general information of professional investors and other persons in accordance with the Securities and Futures Ordinance (Chapter 571) of the laws of Hong Kong.

Singapore: This marketing communication has been approved for use by Lombard Odier (Singapore) Ltd for the general information of accredited investors and other persons in accordance with the conditions specified in Sections 275 and 305 of the Securities and Futures Act (Chapter 289). Recipients in Singapore should contact Lombard Odier (Singapore) Ltd, an exempt financial adviser under the Financial Advisers Act (Chapter 110) and a merchant bank regulated and supervised by the Monetary Authority of Singapore, in respect of any matters arising from, or in connection with this marketing communication. The recipients of this marketing communication represent and warrant that they are accredited investors and other persons as defined in the Securities and Futures Act (Chapter 289). This advertisement has not been reviewed by the Monetary Authority of Singapore.

Panama: This marketing communication has been approved for use in Panama by by Lombard Odier (Panama) Inc., an entity authorised and regulated by the Superintendencia del Mercado de Valores de Panamá. Licensed to operate as an Investment Adviser. Res. SMV No.528-2013.

Israel: This marketing communication has been approved for use in Israel by the Israel Representative Office of Bank Lombard Odier & Co Ltd, an entity not supervised by the Supervisor of Banks in the Bank of Israel, but by the Swiss Financial Market Supervisory Authority, which supervises the activities of Bank Lombard Odier & Co Ltd.

South Africa: This marketing communication has been approved for use in South Africa by the South Africa Representative Office of Bank Lombard Odier & Co Ltd, an authorised financial services provider. Registration number 48505.

Uruguay: This marketing communication has been approved for use in Uruguay by Lombard Odier (Uruguay) SA, an entity supervised by Banco Central del Uruguay.

Switzerland: This marketing communication has been approved for use in Switzerland by Bank Lombard Odier & Co Ltd, a bank and securities firm authorised and regulated by the Swiss Financial Market Supervisory Authority (FINMA).

United Kingdom: This marketing communication has been approved for use in the United Kingdom by Lombard Odier (Europe) S.A. – UK Branch, a bank authorised and regulated by the Commission de Surveillance du Secteur Financier ('CSSF') in Luxembourg and deemed authorised in the UK by the Prudential Regulation Authority ('PRA'). Subject to regulation by the Financial Conduct Authority ('FCA') and limited regulation by the Prudential Regulation Authority. Financial Services Firm Reference Number 597896. **Details about the extent of our authorisation and regulation by the Prudential Regulation Authority and regulation by the Financial Conduct Authority are available from us on request.**

United States: Neither this document nor any copy thereof may be sent to, taken into, or distributed in the United States of America, any of its territories or possessions or areas subject to its jurisdiction, or to or for the benefit of a United States Person. For this purpose, the term "United States Person" shall mean any citizen, national or resident of the United States of America, partnership organised or existing in any state, territory or possession of the United States of America, a corporation organised under the laws of the United States or of any state, territory or possession thereof, or any estate or trust that is subject to United States Federal income tax regardless of the source of its income.

This marketing communication may not be reproduced (in whole or in part), transmitted, modified, or used for any public or commercial purpose without the prior written permission of Lombard Odier.

Data protection: You may be receiving this communication because you have provided us with your contact details. If this is the case, note that we may process your personal data for direct marketing purposes. If you wish to object to this processing, please address your objection to the Group's Data Protection Officer: Bank Lombard Odier & Co Ltd, Group Data Protection Officer, 11, Rue de la Corraterie, 1204 Geneva, Switzerland. E-Mail: group-dataprotection@lombardodier.com. For more information on Lombard Odier's data protection policy, please refer to www.lombardodier.com/privacy-policy.

© 2021 Bank Lombard Odier & Co Ltd - all rights reserved. Ref. LOCH/LOESA/LOASIA-GM-en-012021.

SWITZERLAND

GENEVA

Bank Lombard Odier & Co Ltd1

Rue de la Corraterie 11 · 1204 Genève · Suisse geneva@lombardodier.com

Lombard Odier Asset Management (Switzerland) SA

Avenue des Morgines 6 · 1213 Petit-Lancy · Suisse Support-Client-LOIM@lombardodier.com Management Company regulated by the FINMA.

FRIBOURG

Banque Lombard Odier & Cie SA · Bureau de Fribourg¹

Rue de la Banque 3 · 1700 Fribourg · Suisse fribourg@lombardodier.com

LAUSANNE

Bank Lombard Odier & Co Ltd1

Place St-François 11 · 1003 Lausanne · Suisse lausanne@lombardodier.com

Banque Lombard Odier & Cie SA · Agence de Vevey¹

Rue Jean-Jacques Rousseau 5 · 1800 Vevey · Suisse vevey@lombardodier.com

ZURICH

Bank Lombard Odier & Co Ltd1

Utoschloss · Utoquai 29-31 · 8008 Zürich · Schweiz zurich@lombardodier.com

EUROPE

BRUSSELS

Lombard Odier (Europe) S.A. Luxembourg · Belgium branch²

Avenue Louise 81 · Box 12 · 1050 Brussels · Belgium brussels@lombardodier.com

Credit institution supervised in Belgium by the National Bank of Belgium (NBB) and the Financial Services and Markets Authority (FSMA).

LONDON

Lombard Odier (Europe) S.A.· UK Branch²

Queensberry House · 3 Old Burlington Street · London W1S 3AB · United Kingdom

london@lombardodier.com

The Bank is deemed authorised in the UK by the Prudential Regulation Authority (PRA). Subject to regulation by the Financial Conduct Authority (FCA) and limited regulation by the Prudential Regulation Authority. Financial Services Firm Reference Number 597896. Details about the extent $of our \, authorisation \, and \, regulation \, by \, the \, Prudential$ Regulation Authority and regulation by the Financial Conduct Authority are available from us on request.

Lombard Odier Asset Management (Europe) Limited

Queensberry House \cdot 3 Old Burlington Street \cdot London W1S 3AB · United Kingdom

london@lombardodier.com

Investment firm authorised and regulated by the Financial Conduct Authority (FCA register No.515393).

LUXEMBOURG

Lombard Odier (Europe) S.A.

291, route d'Arlon · 1150 · Luxembourg · Luxembourg luxembourg@lombardodier.com

Credit institution authorised and regulated by the Commission de Surveillance du Secteur Financier (CSSF) in Luxembourg.

Lombard Odier Funds (Europe) S.A.

291, route d'Arlon · 1150 · Luxembourg · Luxembourg luxembourg@lombardodier.com

- Private bank and securities firm authorised and regulated by the Swiss Financial Market Supervisory Authority (FINMA).
- Branch of Lombard Odier (Europe) S.A., a credit institution based in Luxembourg, authorised and regulated by the Commission de Surveillance du Secteur Financier (CSSF) in Luxembourg.

MADRID

Lombard Odier (Europe) S.A. · Sucursal en España²

Paseo de la Castellana 66 · 4ª Pl. · 28046 Madrid · España · madrid@lombardodier.com

Credit institution supervised in Spain, by the Banco de España and the Comisión Nacional del Mercado de Valores

Lombard Odier Gestión (España) S.G.I.I.C, S.A.U.

Paseo de la Castellana 66, 4ª Pl. · 28046 Madrid · España · madrid@lombardodier.com

Management Company supervised by the Comisión Nacional del Mercado de Valores (CNMV).

MILAN

Lombard Odier (Europe) S.A. · Succursale in Italia²

Via Santa Margherita 6 · 20121 Milano · Italia milano-cp@lombardodier.com

Credit institution supervised in Italy by the Commissione Nazionale per le Società e la Borsa (CONSOB) and la Banca d'Italia.

MOSCOW

Bank Lombard Odier & Co Ltd · Representative Office Moscow

Letnikovskaya st. 2, bld. 1 · 115114 Moscow · Russian Federation · moscow@lombardodier.com Under the supervisory authority of the Central Bank of the Russian Federation.

PARIS

Lombard Odier (Europe) S.A. · Succursale en France²

8, rue Royale · 75008 Paris · France. RCS PARIS B 803 905 157 · paris@lombardodier.com Credit institution supervised in France by the Autorité de contrôle prudentiel et de résolution (ACPR) and by the Autorité des Marchés Financiers (AMF) in respect of its investment services activities. Business permit No.23/12. Registered in Luxembourg · No.B169 907. Insurance intermediary authorised by the Commissariat aux Assurances (CAA) No.2014 CMOO2. The registration with the CAA can be verified at www.orias.fr.

AFRICA | AMERICAS | MIDDLE EAST

ABU-DHABI

Bank Lombard Odier & Co Ltd · Abu Dhabi Global Market Branch

Al Maryah Island · Abu Dhabi Global Market Square · Al Khatem Tower · 8th floor · P.O. Box 764646 · Abu Dhabi · UAE · abudhabi@lombardodier.com Arranging Deals in Investments · Advising on Investment or Credit · Arranging Credit. Regulated by the ADGM Financial Services Regulatory Authority.

BERMUDA

Lombard Odier Trust (Bermuda) Limited

3rd Floor, Victoria Place \cdot 31 Victoria Street \cdot Hamilton HM 10 · Bermuda · bermuda@lombardodier.com Licensed to conduct Trust, Investment and Corporate Service Provider Business by the Bermuda Monetary Authority.

BRASIL

Lombard Odier (Brasil) Consultoria de Valores Mobiliários Ltda.

Avenida 9 de Julho No. 3624, Torre DGN 360, 6° andar · Jardim Paulista · CEP 01406-000 · São Paulo · Brasil sao.paulo.office@lombardodier.com Supervised by the Comissão de Valores Mobiliários of Brazil.

Bank Lombard Odier & Co Ltd · Representative Office Dubai

Conrad Business Tower · 12th Floor · Sheikh Zayed Road · P.O. Box 212240 · Dubai · UAE dubai@lombardodier.com Under the supervisory authority of the Central Bank of the

ISRAEL

Israel Representative Office ·

Bank Lombard Odier & Co Ltd

Alrov Tower 11th floor · 46 Rothschild Blvd. · Tel Aviv 6688312 · Israel · telaviv@lombardodier.com Not supervised by the Supervisor of Banks in the Bank of Israel, but by Swiss Financial Market Supervisory Authority which supervises the activities of Bank Lombard Odier & Co

JOHANNESBURG

South Africa Representative Office · Bank Lombard Odier & Co Ltd

4 Sandown Valley Crescent · Sandton · Johannesburg 2196 · South Africa · johannesburg@lombardodier.com Authorised financial services provider Registration number

NASSAU

Lombard Odier & Cie (Bahamas) Limited

Lyford Cay House · Western Road · P.O. Box N-4938 · Nassau \cdot Bahamas \cdot nassau@lombardodier.com Supervised by the Central Bank of the Bahamas and the Securities Commission of the Bahamas.

PANAMA

Lombard Odier & Cie (Bahamas) Limited · Representative Office in Panama

Oceania Business Plaza Torre 2000 · Oficina 38-D · Blvd. Pacifica · Urb. Punta Pacifica · Corregimiento de San Francisco · Panamá · panama@lombardodier.com Supervised by the Central Bank of the Bahamas and the Superintendencia de Bancos de Panamá.

Lombard Odier (Panama) Inc.

Oceania Business Plaza Torre 2000 · Oficina 38-D · Blvd. Pacifica · Urb. Punta Pacifica · Corregimiento de San Francisco · Panamá · panama@lombardodier.com Supervised by the Superintendencia del Mercado de valores de Panamá. Licensed to operate as an Investment Adviser. Res. SMV No.528-2013.

ASIA - PACIFIC

HONG KONG

Lombard Odier (Hong Kong) Limited

3901, Two Exchange Square · 8 Connaught Place · Central · Hong Kong · hongkong@lombardodier.com A licensed entity regulated and supervised by the Securities and Futures Commission in Hong Kong.

SINGAPORE

Lombard Odier (Singapore) Ltd.

9 Raffles Place · Republic Plaza #46-02 · Singapore 048619 · singapore@lombardodier.com A merchant bank regulated and supervised by the Monetary Authority of Singapore.

Lombard Odier Trust (Japan) Limited

Izumi Garden Tower 41
F \cdot 1-6-1 Roppongi, Minato-ku \cdot Tokyo 106-6041 · Japan · tokyo@lombardodier.com Regulated and supervised by the Financial Services Agency (FSA) in Japan. It holds a trust business license (FSA No.208) and is registered with Kanto Local Finance Bureau for Financial Instruments Business Operator (No. 470).