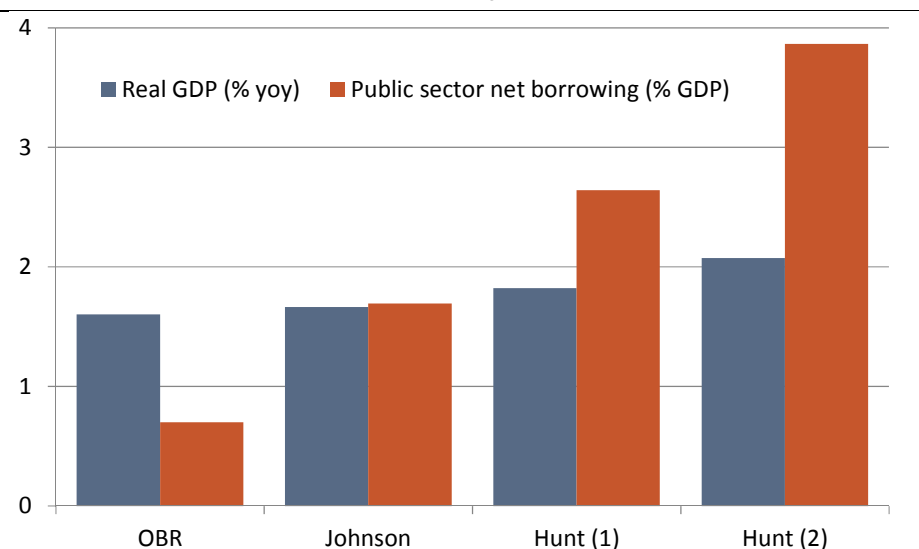


UK fiscal stimulus ahead? Consequences and risks

- **Going for broke:** Amid pressure to stimulate the economy and reverse the Conservative Party's ongoing slide in the polls, Boris Johnson and Jeremy Hunt, the candidates to be the next Conservative Party leader and UK prime minister (PM), promise significant fiscal easing if they end up in 10 Downing Street.
- **A major u-turn:** A fiscal stimulus would mark a major change of course. Since coming to power in 2010, the Conservative Party has pursued mostly sensible economic policies. Due to a combination of gradual fiscal consolidation and pro-growth reforms, public-sector net borrowing has fallen from a peacetime high of 9.9% of GDP in 2009 to sustainable 1.1% in 2018.
- **What the candidates promise:** Johnson proposes significant income tax cuts to stimulate demand. Hunt promises a combination of tax-and-spending policies that will mostly lift demand but could boost supply too. Both candidates plan to finance their policies through additional borrowing.
- **Stronger growth for a while, at a high price:** In our view, a large demand-side stimulus at this stage of the economic cycle would be misguided and carries risks. To differing degrees, all the plans being proposed would lift real growth for a few years. However, a stimulus would add to inflationary pressures and amplify existing long-run fiscal challenges linked to rising health costs and an ageing population.
- **Bottom line:** While markets may respond well to the initial sugar high of fiscal easing, the risks are not worth it, in our view. A better approach would focus on improving the UK's low trend rate of productivity growth. That would raise confidence among foreign and domestic firms – confidence that has been badly knocked by the Brexit vote.
- **Tighter monetary policy:** A pro-cyclical fiscal expansion that raised demand and inflation over the medium term would likely elicit more rate hikes by the BoE than our current expectation of two 25bp rate hikes in 2020.

Chart 1: Impact of fiscal proposals (2020-23 average)



Annual data. Source: IFS, OBR, Berenberg. See page 2 of this note for details of the three proposals

Note: The calculations in this report are intended as a guide to the potential impacts of the candidates' fiscal plans and are not our base case for the UK economy. Uncertainty about whether such plans will be enacted and under what circumstances remains high – eg what if there is a hard Brexit? Furthermore, a lot will depend on who the future PM chooses as his chancellor

Key macro reports

Understanding Germany: A last golden decade ahead
October 2010

Euro crisis: The role of the ECB
29 July 2011

The lessons of the crisis: what Europe needs
27 June 2014

Brexit: assessing the domestic policy options
2 November 2016

After Trump: notes on the perils of populism
14 November 2016

Reforming Europe: which ideas make sense?
19 June 2017

Notes on the inflation puzzle
5 October 2017

Can productivity growth keep inflation at bay?
5 February 2018

10 years after: 10 lessons from the financial crisis
11 September 2018

China's slowdown has significant global effects
15 November 2018

Global outlook 2019: Coping with a cocktail of risks
6 January 2019

How weak is the German economy?
22 February 2019

European Progress Monitor: ready for a new shock?
10 May 2019

UK: Political tail risks edge higher
29 May 2019

4 July 2019

On the campaign trail, both Johnson and Hunt have so far discussed a wide-ranging set of policies. In this note, we focus on the key tax and spending plans highlighted and costed in two detailed reports by the Institute for Fiscal Studies (IFS): [Boris Johnson's tax policies: what they cost and who would benefit?](#) and [Jeremy Hunt's tax and spending policies: what they cost and who would benefit?](#). All estimates in this note are based on the assumption that the UK will avoid a hard Brexit.

Boris Johnson's tax plan

- 1) **Raise the threshold level of income at which the higher rate of income tax (40%) is applied to £80,000 from £50,000.**
- 2) **Raise the threshold level of income at which workers begin to pay National Insurance (NI) contributions.**

Total cost £20bn pa: Increasing the higher rate threshold on income tax would imply that earnings between £50,000 and £80,000 would be taxed at 20% instead of 40%. The IFS calculates that this would cost £9bn pa. Johnson has not specified whether the change would occur in one go or whether it would be phased in gradually.

Johnson has not provided much detail on his plans to change NI. Currently, NI is paid on annual earnings above £8,632 (at 12% on earnings up to £50k pa and 2% on earnings thereafter). The IFS calculates that it would cost roughly £3bn pa for every £1,000 that the threshold is increased. Raising the threshold to the current personal allowance level for income tax (£12,500), as proposed by Conservative MP Dominic Raab, would thus reduce revenues by £11bn pa.

Jeremy Hunt's tax-and-spending plan

- 1) **Cut the main rate of corporation tax to 12.5% from 19% (current legislated cuts will reduce the rate to 17% by April 2020).**
- 2) **Raise the level of income at which workers begin to pay NI.**
- 3) **Increase defence spending in a "decisive" way from 2% of national income to between 2.5% and 4%.**
- 4) **Reduce the interest rate paid on student loans to the annual rate of RPI (retail price index) – whereas it is currently RPI plus X – with X depending on the individual's annual income.**

Total costs: £40bn-65bn pa: The IFS estimates that cutting the rate of corporation tax to 12.5% would cost £13bn pa; raising the NI threshold to £12,500 would cost £11bn; raising defence spending to between 2.5% and 4% of GDP would cost £15bn-40bn; and the changes to student loan interest rates would cost £1bn pa.

Economic consequences

Estimating the economic consequences of fiscal policy changes is tricky. As for the impact on aggregate demand, past experience may not provide a sensible guide as to how much of the windfall from tax cuts will be spent, and what consumers and businesses will spend it on. Some of the additional income for households and firms, which we assume to be equivalent to the IFS cost estimates, will be saved or used to pay down debt, while firms may pay out dividends. There is significant uncertainty about how much of the rise in demand will translate into higher output and/or higher inflation, and how much the stimulus will lift growth after the first year.

To simplify the discussion and illustrate potential effects, we therefore assume that:

- 90% of cost of the change to NI is spent; 50% of the cost of the income tax change is spent, and 25% of the cost of the change to corporate tax is spent;
- the increase in spending in year one boosts incomes, which raises spending thereafter, but the effects gradually fade; for the Johnson proposals, we assume that businesses and consumers will follow up on the boost to income generated by the fiscal stimulus in the first year by spending 40% of that increase in the second year and so on; for Hunt, owing to the positive impact on supply potential from the tax cut for businesses, we assume this rate is 50%. Note that by 2023, real GDP growth rates for all proposals are at, or close to, the Office for Budget Responsibility's (OBR) baseline as the initial impulse fades.

- the marginal propensity to import is 25% and 35% of the lift to nominal GDP from the fiscal boost finds its way back into the public sector coffers via taxes;
- there are no crowding-out effects and no reduction in expenditure from lower payments to unemployed workers;
- all policies are enacted in year one and continue thereafter based on the IFS estimates of the costs.

We estimate impacts on headline real GDP growth and public sector net borrowing based on three proposals: Johnson, Hunt (1) and Hunt (2). Hunt (1) assumes defence spending rises to 2.5% of national income while Hunt (2) assumes it rises to 4.0%. As our base case, we take the economic and fiscal projections from the OBR's [Economic and fiscal outlook](#) of March 2019.

Table 1 sets out our estimates for real GDP growth to 2023. We calculate that all three plans would lift growth relative to the OBR's March 2019 forecast with the boost occurring in the near term and fading thereafter. However, the positive impact of the proposals on real GDP is likely to decrease as the stimulus increases, owing to the resulting rise in inflation. Due to rounding, the numbers in the tables may differ slightly from the description of the data below. We calculate that:

- Johnson's plans would raise real GDP growth by 0.3ppt in 2020, and by an average of 0.1ppt pa from 2020 to 2023, and lift the GDP deflator from an average of 1.9% yoy (OBR current estimate) from 2020-2023 to 2.1%;
- Hunt (1) would raise growth by 0.7ppt in 2020, and by an average of 0.2ppt pa from 2020-2023, with the yoy rate in the GDP deflator averaging 2.1% between 2020 and 2023;
- Hunt (2) would lift real growth by 1.4ppt in 2020, and by an average of 0.5ppt pa (2020-2023), with the rate in the GDP deflator averaging 2.2% between 2020 and 2023 (Chart 2).

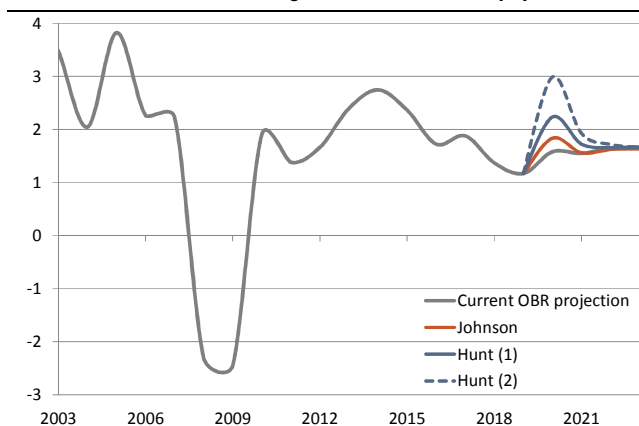
Table 1: Real GDP (GDP deflator), (% yoy)

	2019	2020	2021	2022	2023
OBR March 2019	1.2 (1.9)	1.6 (1.8)	1.5 (2.0)	1.6 (1.9)	1.6 (2.0)
Johnson		1.8 (2.1)	1.6 (2.1)	1.6 (2.0)	1.6 (2.0)
Hunt (1)		2.2 (2.2)	1.7 (2.2)	1.7 (2.1)	1.7 (2.0)
Hunt (2)		3.0 (2.3)	1.9 (2.3)	1.7 (2.1)	1.7 (2.1)

Source: OBR, Berenberg

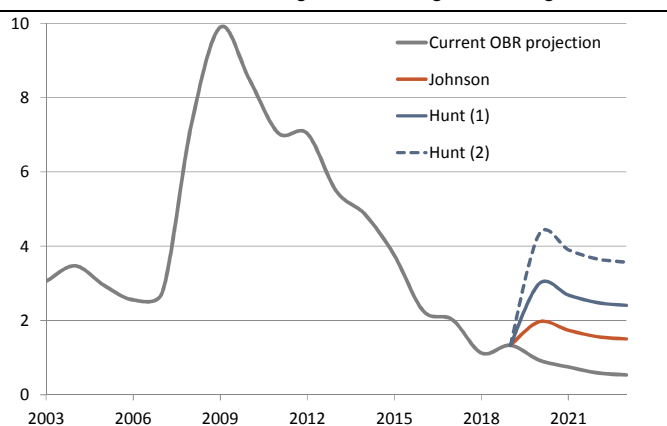
Table 2 shows our estimates for public sector net borrowing. In March 2019 the OBR forecast that net borrowing as a percentage of GDP would fall from 1.3% in 2019 to 0.5% by 2023. We calculate that, following an initial jump in 2020 for all three plans, borrowing as a percentage of GDP would be 1.5% by 2023 for the Johnson plan, 2.4% for Hunt (1), and 3.6% for Hunt (2) – see Chart 2. To put Hunt's plans into perspective, borrowing during the most profligate Gordon Brown years – 2002 to 2007 – averaged 2.9%. Table 3 sets out our estimates for the impact of the three plans on public sector net debt as a percentage of GDP.

Chart 2: Stimulus would lift growth... (real GDP % yoy)



Annual data. Source: OBR, IFS, Berenberg calculations

Chart 3: ...But at the cost of higher borrowing (borrowing % GDP)



Annual data. Source: OBR, IFS, Berenberg calculations
The chart shows public sector net borrowing % GDP

Figure 2: Public sector net borrowing (% GDP)

	2019	2020	2021	2022	2023
OBR March 2019	1.3	0.9	0.7	0.6	0.5
Johnson		2.0	1.7	1.6	1.5
Hunt (1)		3.0	2.7	2.5	2.4
Hunt (2)		4.3	3.9	3.7	3.6

Source: OBR, Berenberg

Figure 3: Public sector net debt (% GDP)

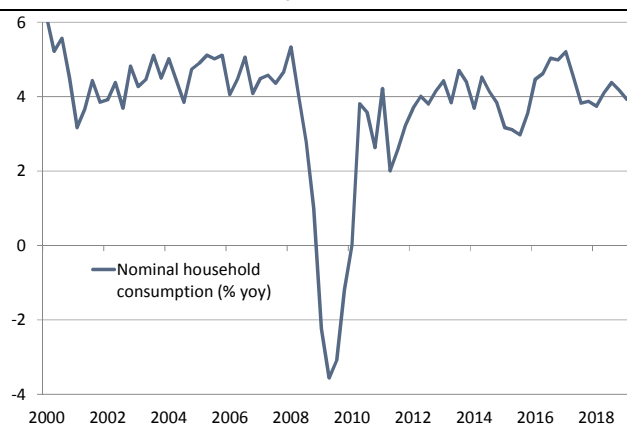
	2019	2020	2021	2022	2023
OBR March 2019	83.6	80.4	76.3	75.3	74.3
Johnson		82.4	81.2	79.9	78.6
Hunt (1)		83.0	82.6	82.1	81.6
Hunt (2)		83.7	84.3	84.8	85.3

Source: OBR, Berenberg

Further observations

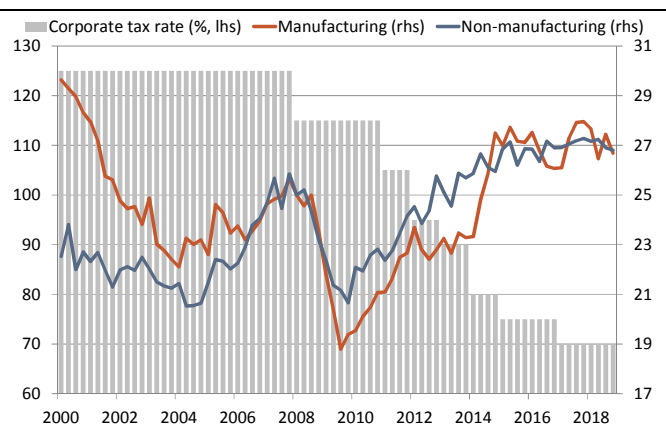
- The boost to domestic demand from tax cuts may disappoint:** Nominal household spending growth averaged 4.4% yoy in the three years to Q1 2019, in line with the boom years of 2001-2007 – see Chart 4. Households continue to report solid finances and resilient confidence. It is not obvious, therefore, that income is a major constraint on household demand. Consumer credit growth remains tame. Households may choose to save more than we had assumed in our calculations. Johnson’s proposal to increase the higher-rate income tax threshold will mostly benefit the top 10% of earners whose propensity to consume is, according to empirical studies, the lowest of all income groups. However, the increase in the threshold for NI payments might be a different story. As raising the NI threshold would predominately benefit lower-income individuals – whose propensity to consume should be relatively high – it is likely to give, on a pound-for-pound basis, a relatively large boost to household spending growth.
- Imports could rise sharply:** The UK economy is very close to, or at, full employment. Most estimates suggest only a negligible gap between aggregate supply and aggregate demand. Since households have access to both domestic and foreign goods, part of any rise in household demand from tax cuts will flow out of the UK. This would widen the trade deficit and drag on headline GDP growth. It would also raise the UK’s foreign liabilities and widen the current account deficit – a recurring risk for the UK. In 2018, the UK already ran a high current account deficit of 3.9% of GDP.

Chart 4: Household demand growth remains firm (% yoy)



Quarterly data. Source: ONS, Berenberg

Chart 5: Corporate tax cuts have lifted investment



Quarterly data. Source: ONS, Berenberg. Investment data - 2008 Q1 = 100

- Corporate tax cuts are likely to lift private business investment:** But that may not translate into stronger gains in productivity. The UK standard corporate tax rate has fallen from 30% in 2007 to 19% in 2019. By boosting profits, the tax cut has promoted healthy gains in private sector business investment – see Chart 5. Hunt’s plan to reduce the corporate tax rate to 12.5% goes further than the existing planned cuts to 17% by 2020. At 12.5%, the UK rate would be the joint lowest in the OECD, along with that of the

Republic of Ireland. Unlike the proposed changes to income tax and NI, which would lift aggregate demand, lower corporate taxes can also raise supply potential by promoting spending on capacity and productivity-enhancing capital investment. However, despite the recovery in business investment over the last 10 years, productivity growth has broadly flatlined. This is partly the result of the unusually rapid rate at which firms have hired workers relative to increases in production. This has constrained output-per-worker growth. As firms hit greater supply constraints in the workforce they are likely to invest more to boost their productive capacity. This ought to raise productivity growth, if and when it happens.

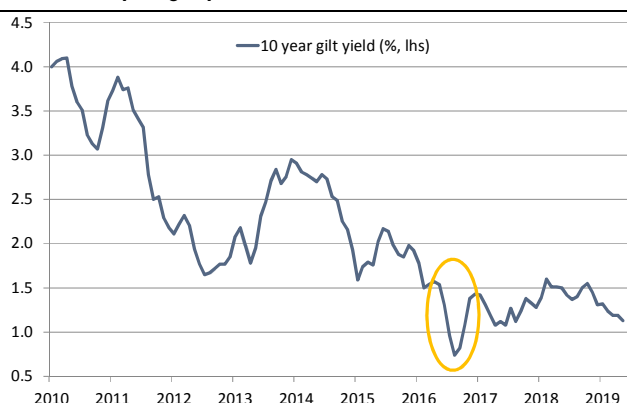
- Uncertain demand impact of defence spending:** Hunt's planned increase in defence spending would lift aggregate demand to the extent that the rise was spent in the UK – which would show up in public investment and consumption – rather than abroad (say on technology and arms). Hunt has provided little detail beyond the headline numbers. Once again, the boost to UK domestic demand could end up being lower than the total cost of the spending plans may suggest.

Is it worth the risks?

Despite a growing case for a modest easing of fiscal policy in the UK, the policy proposals of Johnson and Hunt appear to be aimed at grabbing headlines rather than tackling the economic problems facing the UK. As a case in point, Johnson's plans to increase the higher-rate threshold for income tax would reduce the number of payers from just under 4m to 1.3m (IFS estimate). That number is the same as in 1990-1991 – the final year of Margaret Thatcher's prime ministership. That may or may not be a coincidence. In our view, rather than funding an expensive – if politically attractive – tax cut, the money borrowed could be better spent on improving key sectors that can boost long-term growth, such as infrastructure, education and energy.

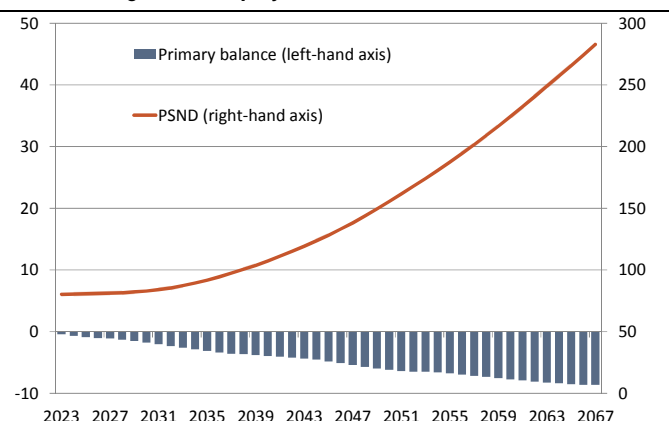
Perhaps the candidates have been encouraged by the recent US example, where a sizeable fiscal stimulus combined with some supply-side reform has lifted US GDP growth since 2017. However, the sugar rush of the fiscal easing in the US seems to be fading fast. After peaking at 4.2% annualised in Q2 2018, US real GDP growth looks set to level off at slightly above 2% yoy later this year, and by 2020 it should be roughly in line with the five-year average before Donald Trump became president and Congress passed his expensive tax-and-spending plan. The US public sector deficit, meanwhile, looks set to hit 4.5% this year, up from 3.2% in 2016.

Chart 6: 10-year gilt yield (%)



Monthly data. Source: BoE

Chart 7: Long-run fiscal projections (% GDP)



Annual data. Source: OBR. PSND = public sector net debt.

The impact on UK fiscal sustainability in the long run is a related issue. Currently, financial markets do not worry much about UK fiscal sustainability. Long-term gilt yields even declined in June 2016 following the EU referendum, despite the Brexit-related risks to the UK's long-run growth potential – and thus the fiscal outlook – see Chart 6. The fall in yields reflected the market's lower-expected GDP growth and chance of a monetary stimulus from the BoE. If markets had genuinely believed that the risks to the UK's fiscal position had increased materially, long-term bond yields would have risen instead.

However, the UK's fiscal position is not completely in the safe zone. The OBR's most recent forecasts suggest that the UK's long-run fiscal outlook is currently unsustainable. Based on

current tax-and-spending projections, the public sector primary balance is forecast to worsen from -0.5% of GDP in 2023, to -8% of GDP by the 2060s as debt as a percentage of GDP rises above 250% – see Chart 7. The expected explosion in borrowing is mainly the result of a likely sharp rise in healthcare costs and other spending linked to the UK’s ageing population. As the OBR does not project that the costs will really begin to accumulate in a major way until the 2030s, when the deficit could begin to rise above 2% of GDP, there is still time to set fiscal policy on a sustainable course.

However, the Johnson and Hunt proposals would bring these risks and challenges to the fore. A hard Brexit, in which both Johnson and Hunt promise to spend way beyond the policy measures we cover in this paper, could turn the UK’s long-run debt sustainability into an urgent issue. We calculate that a hard Brexit could lower UK potential growth to sub-1.5% from +2% inside the EU. On its own, this would have a significant detrimental impact on the UK’s fiscal outlook. Add to it Johnson’s or Hunt’s plans and the UK could rapidly find itself in deep fiscal waters.

Implications for monetary policy

When an economy is approaching full employment, a demand-side stimulus typically raises both real output and inflation. Facing strong demand and supply constraints, firms will likely raise prices. With the unemployment rate at 3.8% – well below the pre-crisis level and the lowest since 1973 – a fiscal stimulus at this stage in the cycle is unusual, to put it mildly, and would be likely to exacerbate existing inflation risks in the UK economy that have developed since the Brexit vote.

A pro-cyclical fiscal expansion that raised inflation over the medium-term would be likely to elicit more rate hikes by the BoE than we currently expect in our base case (two 25bp rate hikes in 2020). The impacts on inflation and real output will likely differ across the three plans. On the one hand, Johnson’s plan proposes the smallest stimulus – but it is entirely focused on raising demand. On the other hand, both Hunt’s proposals entail more borrowing, to the order of two or three times that of Johnson’s plan, but include corporate tax cuts which would contribute to the UK’s supply potential by stimulating private-sector investment spending. While Hunt’s plans may lift medium-term inflation by more than Johnson’s plan, the BoE could take the view that the long-term upside risks to the inflation outlook would not be materially higher since the extra demand would be compensated by additional supply.

A higher deficit to finance a fiscal stimulus would likely limit the headroom to stimulate demand via fiscal policy during the next downturn. However, by enabling the BoE to hike rates by more beforehand, it may lead to a situation where monetary policy would have more headroom to stimulate demand during the downturn. Is this a sensible policy? Probably not. While the BoE may react more quickly than the government to a future economic slump, monetary policy has a much longer lag to boost demand than fiscal policy.

By how much the BoE would step up the pace of rate hikes if a fiscal stimulus goes ahead is not obvious. As monetary policy works with a lag of more than a year, the BoE would likely react to an anticipated stimulus only once the details of the policies became clear. The BoE would probably take its cue from market-implied indicators of inflation expectations and changes in long-term bond rates as markets judge the implications of any policies. A big jump in market expectations for growth and inflation would likely prompt a swift reaction by the BoE whereas more muted reaction by markets would give the BoE some room to wait and see how the data develop.

Disclaimer

This document was compiled by the above mentioned authors of the economics department of Joh. Berenberg, Gossler & Co. KG (hereinafter referred to as “the Bank”). The Bank has made any effort to carefully research and process all information. The information has been obtained from sources which we believe to be reliable such as, for example, Thomson Reuters, Bloomberg and the relevant specialised press. However, we do not assume liability for the correctness and completeness of all information given. The provided information has not been checked by a third party, especially an independent auditing firm. We explicitly point to the stated date of preparation. The information given can become incorrect due to passage of time and/or as a result of legal, political, economic or other changes. We do not assume responsibility to indicate such changes and/or to publish an updated document. The forecasts contained in this document or other statements on rates of return, capital gains or other accession are the personal opinion of the author and we do not assume liability for the realisation of these.

This document is only for information purposes. It does not constitute a financial analysis within the meaning of § 34b or § 31 Subs. 2 of the German Securities Trading Act (Wertpapierhandelsgesetz), no investment advice or recommendation to buy financial instruments. It does not replace consulting regarding legal, tax or financial matters.

Remarks regarding foreign investors

The preparation of this document is subject to regulation by German law. The distribution of this document in other jurisdictions may be restricted by law, and persons, into whose possession this document comes, should inform themselves about, and observe, any such restrictions.

United Kingdom

This document is meant exclusively for institutional investors and market professionals, but not for private customers. It is not for distribution to or the use of private investors or private customers.

United States of America

This document has been prepared exclusively by Joh. Berenberg, Gossler & Co. KG. Although Berenberg Capital Markets LLC, an affiliate of the Bank and registered US broker-dealer, distributes this document to certain customers. This document does not constitute research of Berenberg Capital Markets LLC. In addition, this document is meant exclusively for institutional investors and market professionals, but not for private customers. It is not for distribution to or the use of private investors or private customers.

This document is classified as objective for the purposes of FINRA rules. Please contact Berenberg Capital Markets LLC (+1 617.292.8200), if you require additional information.

Copyright

The Bank reserves all the rights in this document. No part of the document or its content may be rewritten, copied, photocopied or duplicated in any form by any means or redistributed without the Bank's prior written consent.

© 2018 Joh. Berenberg, Gossler & Co. KG



JOH. BERENBERG, GOSSLER & CO. KG

EQUITY RESEARCH

GENERAL MID CAP

MID CAP - DACH	
Carl-Oscar Bredengen	+44 20 3753 3160
Marta Bruska	+44 20 3753 3187
Martin Comtesse	+44 20 3207 7878
Charlotte Friedrichs	+44 20 3753 3077
Gustav Froberg	+44 20 3465 2655
James Letten	+44 20 3753 3176
Alexander O'Donoghue	+44 20 3207 7804
Gerhard Orgonas	+44 20 3465 2635
Benjamin Pfannes-Varrow	+44 20 3465 2620

MID CAP - EU core

Beatrice Allen	+44 20 3465 2662
Fraser Donlon	+44 20 3465 2674
Christoph Greulich	+44 20 3753 3119
Andreas Markou	+44 20 3753 3022
Anna Patrice	+44 20 3207 7863
Trion Reid	+44 20 3753 3113
Jan Richard	+44 20 3753 3029

MID CAP - UK

Joseph Barron	+44 20 3207 7828
Galum Battersby	+44 20 3753 3118
Joseph Bloomfield	+44 20 3753 3248
Robert Chantry	+44 20 3207 7861
Sam Cullen	+44 20 3753 3183
Ned Hammond	+44 20 3753 3017
Edward James	+44 20 3207 7811
Kieran Lee	+44 20 3465 2736
Lush Mahendrarajah	+44 20 3207 7896
Benjamin May	+44 20 3465 2667
Iain Pearce	+44 20 3465 2665
Anthony Plom	+44 20 3207 7908
Eoghan Reid	+44 20 3753 3055
Owen Shirley	+44 20 3465 2731
Donald Tait	+44 20 3753 3031
Sean Thapar	+44 20 3465 2657

THEMATIC RESEARCH

Steven Bowen	+44 20 3753 3057
Julia Schrameier	+44 20 3753 3172

EQUITY SALES

SPECIALIST SALES

AEROSPACE & DEFENCE & CAPITAL GOODS	
Cara Luciano	+44 20 3753 3146
AUTOS & TECHNOLOGY	
Edward Wales	+44 20 3207 7815

BANKS & DIVERSIFIED FINANCIALS

Alex Medhurst	+44 20 3753 3047
---------------	------------------

BUSINESS SERVICES, LEISURE & TRANSPORT

Rebecca Langley	+44 20 3207 7930
-----------------	------------------

CONSUMER DISCRETIONARY

Victoria Maigrot	+44 20 3753 3010
------------------	------------------

CONSUMER STAPLES

Ramnique Sroa	+44 20 3753 3064
---------------	------------------

HEALTHCARE

David Hogg	+44 20 3465 2628
------------	------------------

MEDIA & TELECOMS

Jonathan Smith	+44 20 3207 7842
----------------	------------------

METALS & MINING

Sanam Nourbakhsh	+44 20 3207 7924
------------------	------------------

OIL & GAS AND UTILITIES

Jason Turner	+44 20 3753 3063
--------------	------------------

THEMATICS

Chris Armstrong	+44 20 3207 7809
-----------------	------------------

SALES

BENELUX	
Miel Bakker	+44 20 3207 7808
Bram van Hijfte	+44 20 3753 3000

SALES TRADING

LONDON

Charles Beddow	+44 20 3465 2691
Mike Berry	+44 20 3465 2755
Joseph Chappell	+44 20 3207 7885
Stewart Cook	+44 20 3465 2752
Mark Edwards	+44 20 3753 3004
Tom Floyd	+44 20 3753 3156
Tristan Hedley	+44 20 3753 3006
Luke Holmes	+44 20 3465 2750
Peter King	+44 20 3753 3139
Simon Messman	+44 20 3465 2754

BERENBERG CAPITAL MARKETS LLC

Member FINRA & SIPC

EQUITY RESEARCH

CONSTRUCTION

Robert Muir	+1 646 949 9028
Daniel Wang	+1 646 949 9025

GENERAL MID CAP - US

Samuel England	+1 646 949 9035
Alex Marocchia	+1 646 949 9033
Brett Knoblauch	+1 646 949 9032

HEALTHCARE

BIOTECH/THERAPEUTICS	
Shanshan Xu	+1 646 949 9023

MED. TECH/SERVICES

Ravi Misra	+1 646 949 9028
------------	-----------------

SPECIALTY PHARMA/BIOTECH

Patrick R. Trucchio	+1 646 949 9027
---------------------	-----------------

CAPITAL GOODS

Andrew Buscaglia	+1 646 949 9040
------------------	-----------------

LEISURE

Brennan Matthews	+1 646 949 9024
------------------	-----------------

BUSINESS SERVICES, LEISURE & TRANSPORT

BUSINESS SERVICES	
Zaim Beekawa	+44 20 3207 7855
Tom Burton	+44 20 3207 7852

LEISURE

Roberta Ciaccia	+44 20 3207 7805
Jack Cummings	+44 20 3753 3161
Stuart Gordon	+44 20 3207 7858
Annabel Hay-Jahans	+44 20 3465 2720

TRANSPORT & LOGISTICS

William Fitzalan Howard	+44 20 3465 2640
Joel Spungin	+44 20 3207 7867
Adrian Yanoshik	+44 20 3753 3073

CONSUMER

BEVERAGES	
Javier Gonzalez Lastra	+44 20 3465 2719
Matt Reid	+44 20 3753 3075

FOOD MANUFACTURING AND HPC

Ebba Bjorkild	+44 20 3753 3247
Rosie Edwards	+44 20 3207 7880
James Targrett	+44 20 3207 7873

FOOD RETAIL

Dusan Milosavljevic	+44 20 3753 3123
---------------------	------------------

GENERAL RETAIL

Michael Benedict	+44 20 3753 3175
Thomas Davies	+44 20 3753 3104
Oliver Anderson	+44 20 3753 3173
Graham Renwick	+44 20 3207 7851
Michelle Wilson	+44 20 3465 2663

LUXURY GOODS

Mariana Horn	+44 20 3753 3044
Lauren Molyneux	+44 20 3207 7892

ENERGY

OIL & GAS

Baha Bassatine	+44 20 3753 3158
John Gleeson	+44 20 3465 2716
Ilkin Karimli	+44 20 3465 2684

FRANCE

Alexandra Chevasus	+33 1 5844 9512
Dalia Farigoule	+33 1 5844 9510
Kevin Nor	+33 1 5844 9505
Guillaume Viret	+33 1 5844 9507

SCANDINAVIA

Donata Leonova	+44 20 3753 3156
Marco Weiss	+49 40 3506 0719

UK

Thomas Baker	+44 20 3753 3062
James Burt	+44 20 3207 7807
Fabian De Smet	+44 20 3207 7810
Marta De-Sousa Fialho	+44 20 3753 3098
Katie Ferry	+44 20 3753 3041
Robert Floyd	+44 20 3753 3018
David Franklin	+44 20 3465 2747
Sean Heath	+44 20 3465 2742
Stuart Holt	+44 20 3465 2646
James Hunt	+44 20 3753 3007
James McRae	+44 20 3753 3036
David Morlock	+44 20 3207 7850
Eleni Papoula	+44 20 3465 2741
Bhavin Patel	+44 20 3207 7926
Kushal Patel	+44 20 3753 3038
Richard Payman	+44 20 3207 7825

LONDON (cont'd)

AJ Pulleyn	+44 20 3465 2756
Paul Somers	+44 20 3465 2753
Frans Van Wakeren	+44 20 3753 3079

PARIS

Vincent Klein	+33 1 58 44 95 09
---------------	-------------------

ENERGY (cont'd)

OIL & GAS (cont'd)	
Edward Pizzey	+44 20 3753 3185
Henry Tarr	+44 20 3207 7827

UTILITIES

Oliver Brown	+44 20 3207 7922
Andrew Fisher	+44 20 3207 7937
Lawson Steele	+44 20 3207 7887

FINANCIALS

BANKS

Adam Barrass	+44 20 3207 7923
Frederick Brennan	+44 20 3753 3171
Michael Christodoulou	+44 20 3207 7920
Andrew Lowe	+44 20 3465 2743
Eoin Mullany	+44 20 3207 7854
Peter Richardson	+44 20 3465 2681

DIVERSIFIED FINANCIALS

Panos Ellinas	+44 20 3753 3149
Chris Turner	+44 20 3753 3019

REAL ESTATE

Kai Klose	+44 20 3207 7888
-----------	------------------

HEALTHCARE

Scott Barco	+44 20 3207 7869
Klara Fernandes	+44 20 3465 2718
Michael Healy	+44 20 3753 3201
Tom Jones	+44 20 3207 7877
Michael Ruzic-Gauthier	+44 20 3753 3128

INDUSTRIALS

AEROSPACE & DEFENCE

Andrew Gollan	+44 20 3207 7891
Ross Law	+44 20 3465 2692
George McWhirter	+44 20 3753 3163

AUTOMOTIVES

Cristian Dirpes	+44 20 3465 2721
Asad Farid	+44 20 3207 7932
Alexander Haissl	+44 20 3465 2749
Viktoria Oushatova	+44 20 3207 7890

UK (cont'd)

Christopher Pyle	+44 20 3753 3076
Adam Robertson	+44 20 3753 3095
Joanna Sanders	+44 20 3207 7925
Mark Sheridan	+44 20 3207 7802
George Smibert	+44 20 3207 7911
Sam Stannah	+44 20 3753 3157
Paul Walker	+44 20 3465 2632

GERMANY

Simone Arnheiter	+49 69 91 30 90 740
Nina Buechs	+49 69 91 30 90 735
André Grosskurth	+49 69 91 30 90 734

SWITZERLAND, AUSTRIA & ITALY

Duncan Downes	+41 22 317 1062
Andrea Ferrari	+41 44 283 2020
Gianni Lavigna	+41 44 283 2038
Jamie Nettleton	+41 44 283 2026
Yeannie Rath	+41 44 283 2029

COO Office

Fenella Neill	+44 20 3207 7868
Greg Swallow	+44 20 3207 7833

EQUITY TRADING

HAMBURG

David Hohn	+49 40 350 60 761
Lukas Niehoff	+49 40 350 60 798
Lennart Pleus	+49 40 350 60 596
Marvin Schweden	+49 40 350 60 576
Philipp Wechmann	+49 40 350 60 346
Christof Winter	+49 40 350 60 559

LONDON

Christopher Brown	+44 20 3753 3085
Edward Burlison-Rush	+44 20 3753 3005

INDUSTRIALS (cont'd)

CAPITAL GOODS	
Jonathan Coubrough	+44 20 3465 2699
Phillippe Lorrain	+44 20 3207 7823
Rizk Maldi	+44 20 3207 7806
Simon Tonnessen	+44 20 3207 7819
Ethan Zhang	+44 20 3465 2634

MATERIALS

CHEMICALS	
Sebastian Bray	+44 20 3753 3011
Xian Deng	+44 20 3753 3014
Anthony Manning	+44 20 3753 3092
Rikin Patel	+44 20 3753 3080

METALS & MINING

Richard Hatch	+44 20 3753 3070
Laurent Kimman	+44 20 3465 2675
Michael Stoner	+44 20 3465 2643