

The Kraft Heinz Co. (KHC)

## The BBBubble Is Bursting

Lower KHC to UW as we expect the credit to be downgraded to HY. We see FV as 5% (~300bp) for the long end and high-3% (220bp) in the 10y, though levels are likely to overshoot. Key drivers of our expectation include no change in the dividend and a lack of commitment to asset sales, which point to a longer time to de-lever.

*Trade ideas:* Sell 2029s/sell KHC 5y CDS; sell high-dollar-price KHC 2032s, 6.875s of 2039, 7.125s of 2039, 6.5s of 2040; Buy 2026s and 2045s.

**We lower our rating on Kraft Heinz to Underweight as we expect downgrades from at least S&P and Fitch, given that the company is now unlikely to meet the deleveraging objectives that each had previously outlined.** We also expect leverage to tick higher in 2020, which when coupled with the aforementioned, and a strategic review date in early May, points to a higher likelihood that the agencies could act sooner rather than wait until May.

**Barclays Rating:** Underweight (from Market Weight)

**Moody's/S&P/Fitch Rating:** Baa3 (Stable)/BBB- (Neg)/BBB- (Neg)

## Investment Summary

Management outlined a desire to get leverage “below 4x as soon as practical” but without asset sales (no committed timeline or hurry on asset sales at this point, per the CFO) or a cut in the dividend, it appears difficult to meet the expectations set by the aforementioned agencies. Fitch looked for leverage moving “towards 4x” on \$5bn of asset sales in 2020 (with a downgrade threshold of leverage sustained above 4.25x in 2020 or beyond) while S&P had outlined a need for KHC to be below 4x by mid-2021. Further, each of the two agencies had been looking for some combination of dividend cut and asset sales to retain their current low-BBB ratings. The company ended FY19 with gross leverage of 4.8x and net leverage of 4.45x. Based on guidance for an 8% decline in EBITDA for 2020, and an assumption that only 2020 maturities are repaid, we estimate the company will end the year with leverage of 5.1x on a gross basis and 4.7x on a net basis, before potentially moving towards 4.75x gross/4.46x net in 2021, assuming modest EBITDA growth.

CORE  
#bbbubble

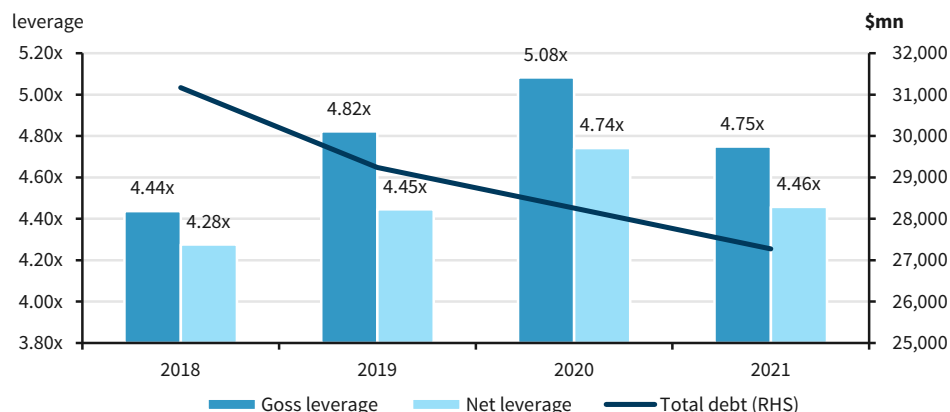
Priya Ohri-Gupta, CFA  
+1 212 412 3759  
priya.ohrigupta@barclays.com  
BCI, US

Hale Holden  
+1 212 412 1524  
hale.holden@barclays.com  
BCI, US

This document is intended for institutional investors and is not subject to all of the independence and disclosure standards applicable to debt research reports prepared for retail investors under U.S. FINRA Rule 2242. Barclays trades the securities covered in this report for its own account and on a discretionary basis on behalf of certain clients. Such trading interests may be contrary to the recommendations offered in this report.

**Please see analyst certifications and important disclosures beginning on page 9 .**

Completed: 14-Feb-20, 00:30 GMT Released: 14-Feb-20, 00:35 GMT Restricted - External

**FIGURE 1. Leverage expected to rise again in 2020**

Source: Company reports, Barclays Research

In our view, the commentary on the call also highlighted the ability to operate as a HY company, and demonstrated a recognition from management that while it valued IG status, it understood that the decline in leverage “may not come as rapidly as desired,” with the last point implicitly acknowledging rating agency expectations. As we discussed in [Where the Ratings Risks Lie](#), operationally, we see limited hindrance to the credit as a HY credit and estimate that the company should be able to generate sufficient cash flow to cover its maturities through 2020-21, which should limit refinancing risk until 2022. To the latter point, CFO Basilio noted on the call that it expected to pay down 2020 maturities with cash on hand, having ended the year at a balance of \$2.3bn.

#### ***Key points from the call:***

- IG status remains important but decline in leverage may not come as rapidly as desired
- Get leverage to below 4x as soon as practical, while maintaining the current dividend, with cash flow generation and any divestiture proceeds going to debt reduction
- No hurry to execute on divestitures, and no timeline, though they expect to be explored opportunistically, with the company remaining disciplined on price
- For 2020, the company forecasts that it can generate FCF after dividends of at least \$500mn
- Company expected to discuss strategic review in early May

## Relative value as a HY credit

While bonds widened as much as 60-70bp in the higher dollar/off the run long bonds and are now about 10-15bp off the wides, we think that selling pressure will pick up again once releases comes through from the rating agencies. At these levels, pricing reflects one downgrade to HY in our view, but not two. As we consider the comp set (see Figure 2) we think that bonds are likely to widen further, potentially overshooting where FV would lie by as much as 50bp as they migrate from IG to HY. In our opinion, as a full HY credit (ie, at least two of three agencies), we see fair value in the high-3% area (or 220bp) in 10y and about 5% (or around 300bp) in the long end given a large amount of longer-dated paper (see Figure 2 for where KHC is trading versus the comp set).

Typically, higher dollar long bonds are likely to perform the worst on the curve, with fallen angels priced below \$98 and/or less than 10 years to maturity seeing the best outperformance vs. HY after the downgrade. Given the move today, KHC is trading on average at a profile of \$106 with just under 16y maturity, and while the on the run long bonds (2042s, 2046s, 2049s) are trading within a few points of par, there are still a number of off the run/high coupon bonds with dollar prices in the 120s, which are likely to underperform more on a relative basis.

We expect most of the downside to the credit to be borne in the IG world, and outperformance likely if it enters the HY universe. Given that the company is looking to establish a foundation from which it can ultimately grow the business, asset sales coupled with EBITDA growth in out years, could help KHC return to IG in a relatively short time frame, and elicit greater investor comfort post a potential downgrade. We estimate that if part of the HY universe, KHC would represent 41.5% of the food and beverage sector and 1.73% of the HY Index, which would bring food and beverage to 4.18% of the HY Index (see Figure 3). This is likely to provide strong investor demand on the HY side, once levels get closer to the peer set.

As discussed in [Large Angels Fall Harder but Bounce Higher](#), issuers with large cap structures on average widen 189bp into the downgrade and tighten 60bp in the six months after entering the HY universe (see Figure 4). While we do not expect KHC's widening to be as extensive if it becomes HY, we do note that the name only underperformed the Credit Index by 19bp from early August (pre-2Q19 earnings) to yesterday (Figure 5), pointing to continued room to widen despite the move today.

### Trade ideas:

- **Sell KHC 5y CDS:** In 5y CDS, KHC was quoted 90/100 versus 79/87 for Newell, and 107/115 for Kohl's and Nordstrom. We think that while modest widening is possible as clarity on ratings occurs, given the comp set, investor bias should be to sell as that occurs. Fundamentally, KHC should continue to trade tight to KSS and JWN.
- Sell 2029s (quoted 176/168)/sell KHC 5y CDS (quoted 90/100) - as discussed above, we view CDS as closer to the wides, while KHC 29s still have room to widen 50bp to get to fair value and could likely widen further as they migrate to HY. They are also 7pts higher than the 2030s.
- Sell high-dolla-price KHC 2032s (quoted 255/240, \$124), 6.875s of 2039 (quoted 290/280, \$123), 7.125s of 2039 (quoted 295/284, \$126), 6.5s of 2040 (quoted 299/289, \$118), as we expect these bonds to underperform the most. While the yield is closer to FV, the high dollar price on these is likely to make them less appealing to the HY buyer base.
- Buy 2026s (quoted 156/148, \$100) and 5.2s of 2045 (quoted 282/272, \$104) - we see these bonds as having the least downside relative to FV (about 20bp on the 26s and 10bp on the 45s).

**FIGURE 2. KHC vs HY comp set shows 25-40bp widening to get to FV, but levels likely overshoot on migration from IG to HY**

Security	Bid Px	Ask Px	Bid Yield	Ask Yield	Bid GSpd	Ask GSpd	Moody	S&P
KHC 3.0 26	100.0	100.5	3.00	2.92	149	143	Baa3	BBB-
LW 4.875 26	105.5	106.3	2.94	2.51	151	108	Ba2	BB+
SMG 5.25 26	106.3	107.3	3.11	2.57	168	114	B1	B+
ARMK 4.75 26	104.6	105.1	2.88	2.50	143	105	Ba3	BB
NWL 4.2 26	105.1	105.6	3.47	3.38	200	191	Baa3	BB+
POST 5 26	104.3	104.8	3.78	3.37	224	191	B2	B+
<b>Average (ex KHC)</b>	<b>105.2</b>	<b>105.8</b>	<b>3.24</b>	<b>2.87</b>	<b>177</b>	<b>142</b>		
KHC 4.625 29	109.4	110.0	3.38	3.30	179	171	Baa3	BBB-
KHC 3.75 30	102.6	103.3	3.43	3.35	182	175	Baa3	BBB-
PBH 5.125 28	105.0	105.8	3.99	3.83	257	241	B3	B+
ARMK 5 28	105.8	106.5	3.73	3.48	234	208	Ba3	BB
POST 5.625 28	106.6	107.1	4.06	3.87	264	246	B2	B+
CENT 5.125 28	105.3	106.3	4.02	3.67	263	227	B1	BB
SMG 4.5 29	103.8	104.8	3.93	3.78	239	224	B1	B+
POST 5.5 29	106.4	106.9	4.52	4.42	299	298	B2	B+
JBSSBZ 6.5 29	112.6	113.4	3.91	3.73	248	230	Ba2	BB
JBSSBZ 5.5 30	109.8	110.5	3.82	3.66	238	223	Ba2	BB
VVW 4.25 30	101.3	102.0	4.07	3.96	252	241	Ba3	BB
POST 4.625 30	100.8	101.3	4.51	4.44	294	286	B2	B+
<b>Average (ex KHC)</b>	<b>105.7</b>	<b>106.4</b>	<b>4.06</b>	<b>3.88</b>	<b>259</b>	<b>242</b>		
KHC 5 35	108.0	109.0	4.27	4.19	252	244	Baa3	BBB-
NWL 5.375 36	110.5	111.5	4.67	4.58	293	285	Baa3	BB+
KHC 4.375 46	94.9	96.3	4.72	4.62	264	254	Baa3	BBB-
KHC 4.875 49	101.5	102.3	4.78	4.73	271	266	Baa3	BBB-
NWL 5.5 46	109.25	110.25	5.08	5.02	311	304	Baa3	BB+

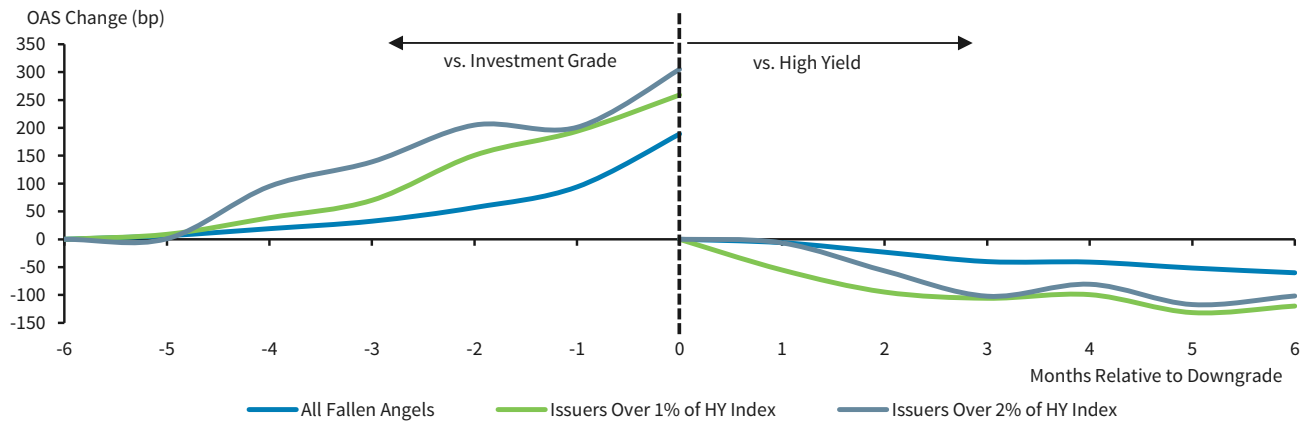
Source: Barclays Research

**FIGURE 3. KHC would be the largest issuer in HY food and beverage if downgraded, with \$23.3bn of eligible HY debt**

	Current HY				With KHC			
	% of Food and Bev	% of US HY	Market Value (\$ bn)	Amount Outstanding (\$ bn)	% of Food and Bev	% of US HY	Market Value (\$ bn)	Amount Outstanding (\$ bn)
<b>KHC</b>	0.0%	0.0%	0.00	0.00	41.50%	1.73%	23.31	22.02
<b>Food and Bev</b>		2.5%	32.85	30.97		4.18%	56.16	53.00
<b>US HY</b>			1,320.88	1,282.91			1,344.19	1,304.93

Source: Bloomberg Barclays Indices, Barclays Research

**FIGURE 4. Larger debt structures underperform more before downgrade but outperform more after the downgrade; if downgraded, KHC would be 1.7% of the HY Index**



Source: Bloomberg Barclays Indices.

**FIGURE 5. Prior to today, KHC had only underperformed the Index by 19bp since early August 2019**



Source: Bloomberg Barclays Indices, Barclays Research

## Operational Highlights

KHC reported adjusted EPS for 4Q19 of \$0.72, above consensus of \$0.68, aided by below the line items as sales were a bit weaker than consensus while EBITDA was in line. Management acknowledged that 2019 had been a difficult year for the company.

- Net revenues of \$6.5bn, were down 5.2% y/y and \$69mn below consensus, while organic net sales decreased 2.2%, worse than consensus of down 1.33%.
  - US organic net sales declined 2.7% as pricing rose 3.1% due to higher list prices as well as higher key commodity costs. Volume/mix decreased by 5.8% due to a decrease in cheese, coffee, cold cuts, and bacon shipments, which were partially offset by growth in condiments and sauces.
  - Canada organic net sales declined 2.5%, due to a negative 21.4% impact from Canadian natural cheese divestiture. Pricing was down 5% due to unfavorable trade expense as well as higher promotional activity around the holidays. Volume/mix was up 2.5% due to consumption growth in peanut butter and pasta sauce, which was partially offset by lower cheese shipments coupled with continued weakness in coffee.

- EMEA organic net sales increased 0.3% due to favorable pricing led by the UK, which was partially offset by lower pricing in Russia. Volume/mix grew by 0.2% as the condiments and sauces segment grew in Russia.
- Rest of the World segment organic net sales decreased 1.6% as pricing grew 0.7% mainly due to higher pricing in Latin America and China partially offset by lower pricing in Australia. Volume/mix decreased 2.3% due to lower shipments in Australia and New Zealand partially offset by growth in Indonesia and Brazil.
- Gross margin declined 40bp to 32.1% due to supply chain costs and low project preparation of SKUs.
- Operating margin increased 80bp, to 20.0%, as a result of gains from cost savings initiatives as cogs and SG&A expenses decreased \$211mn and \$19mn, respectively, coupled with a \$355mn decline in total revenue.
- EBITDA for the quarter totaled \$1.56bn, a decrease of 6.6% y/y but \$13mn above consensus, resulting in LTM EBITDA of \$6.1bn.
- Gross leverage decreased by 0.1x to 4.8x and net leverage decreased by 0.2x to 4.4x as total debt decreased by \$1.4bn sequentially.
- Free cash flow was \$886mn, versus \$702mn in 4Q18 as capex and dividends were lower by \$45mn and \$273mn, respectively, partially offset by a \$134mn decrease in cash from operations. LTM free cash flow came in at \$831mn, owing to the seasonal cadence in the company's cash flow generation.
- Cash returned to shareholders totaled \$489mn through dividends as the company continues to not repurchase shares.
- Cash stood at \$2.3bn, a decrease of \$36mn sequentially.

**FIGURE 6. Select financial metrics - KHC**

	4Q19	3Q19	4Q18	4Q19	LTM
(\$mn)	Actual	Actual	Actual	Consensus	
Revenues	6,536	6,076	6,891	6,605	24,977
Gross Profit	2,101	1,968	2,245	2,128	8,138
Operating Profit	1,309	1,226	1,434	1,290	5,079
EBITDA	1,564	1,469	1,674	1,551	6,064
Gross Margin	32.1%	32.4%	32.6%	32.2%	32.6%
Operating Margin	20.0%	20.2%	20.8%	19.5%	20.3%
EBITDA Margin	23.9%	24.2%	24.3%	23.5%	24.3%
CFO	1,562	665	1,696		3,552
Dividends	(489)	(488)	(762)		(1,953)
Capex	(187)	(133)	(232)		(768)
FCF	886	44	702		831
Total Debt	29,244	30,672	31,168		
Cash	2,279	2,315	1,130		
LTM Credit Metrics					
Debt/EBITDA (x)	4.8x	5.0x	4.4x		
Net Leverage (x)	4.4x	4.6x	4.3x		
EBITDA/Interest Expense (x)	4.8x	4.9x	5.5x		
Total Debt % of Total Capitalization	36.1%	37.2%	37.6%		

Source: Company reports, Bloomberg, Barclays Research

## Guidance

Kraft Heinz provided the following guidance for 2020:

- The company expects 50% fewer projects as it shifts from expansions to expansionary launches behind existing brands.
  - It expects to redirect funds disproportionately towards supporting flagship brands.
- Net sales are expected to face a 300bp headwind vs 2019 due to divestitures and business exits (175bp), commodities, distribution and supply chain (65bp), and FX (60bp).
- Adjusted EBITDA vs 2019 is expected to be \$460mn (or 8%) lower y/y due to a \$110mn hit from divestitures and business exits, a \$140mn hit from incentive compensation, a \$150mn decrease due to commodities, distribution, and supply chain, and a \$60mn decrease due to FX.
- The company also expects ~ a \$0.38 decrease to adjusted EPS vs 2019 due to a \$110mn hit from stock-based compensation, a \$270mn decrease due to other income, and a ~22% effective tax rate.
- The company expects to increase its spend in working media by 30%.
- It will maintain its \$0.40/share dividend.
- Target leverage is expected to be below 4x “as soon as practical”.

Summary of Ratings

Bloomberg Barclays U.S. Credit Index

	Old	New
U.S. HG Food and Beverage	Market Weight	Market Weight
KRAFT HEINZ FOODS CO	Market Weight	<b>Underweight</b>

Source: Barclays Research



**Analyst(s) Certification(s):**

We, Hale Holden and Priya Ohri-Gupta, CFA, hereby certify (1) that the views expressed in this research report accurately reflect our personal views about any or all of the subject securities or issuers referred to in this research report and (2) no part of our compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

**Important Disclosures:**

This document is intended for institutional investors and is not subject to all of the independence and disclosure standards applicable to debt research reports prepared for retail investors under U.S. FINRA Rule 2242. Barclays trades the securities covered in this report for its own account and on a discretionary basis on behalf of certain clients. Such trading interests may be contrary to the recommendations offered in this report.

Barclays Research is produced by the Investment Bank of Barclays Bank PLC and its affiliates (collectively and each individually, "Barclays").

All authors contributing to this research report are Research Analysts unless otherwise indicated. The publication date at the top of the report reflects the local time where the report was produced and may differ from the release date provided in GMT.

**Availability of Disclosures:**

For current important disclosures regarding any issuers which are the subject of this research report please refer to

<https://publicresearch.barclays.com> or alternatively send a written request to: Barclays Research Compliance, 745 Seventh Avenue, 13th Floor, New York, NY 10019 or call +1-212-526-1072.

Barclays Capital Inc. and/or one of its affiliates does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that Barclays may have a conflict of interest that could affect the objectivity of this report. Barclays Capital Inc. and/or one of its affiliates regularly trades, generally deals as principal and generally provides liquidity (as market maker or otherwise) in the debt securities that are the subject of this research report (and related derivatives thereof). Barclays trading desks may have either a long and / or short position in such securities, other financial instruments and / or derivatives, which may pose a conflict with the interests of investing customers. Where permitted and subject to appropriate information barrier restrictions, Barclays fixed income research analysts regularly interact with its trading desk personnel regarding current market conditions and prices. Barclays fixed income research analysts receive compensation based on various factors including, but not limited to, the quality of their work, the overall performance of the firm (including the profitability of the Investment Banking Department), the profitability and revenues of the Markets business and the potential interest of the firm's investing clients in research with respect to the asset class covered by the analyst. To the extent that any historical pricing information was obtained from Barclays trading desks, the firm makes no representation that it is accurate or complete. All levels, prices and spreads are historical and do not necessarily represent current market levels, prices or spreads, some or all of which may have changed since the publication of this document. Barclays Research Department produces various types of research including, but not limited to, fundamental analysis, equity-linked analysis, quantitative analysis, and trade ideas. Recommendations and trade ideas contained in one type of Barclays Research may differ from those contained in other types of Barclays Research, whether as a result of differing time horizons, methodologies, or otherwise.

In order to access Barclays Statement regarding Research Dissemination Policies and Procedures, please refer to

<https://publicresearch.barcap.com/S/RD.htm>. In order to access Barclays Research Conflict Management Policy Statement, please refer to:

<https://publicresearch.barcap.com/S/CM.htm>.

**Primary Issuers/Bonds**

**KRAFT HEINZ FOODS CO**, Underweight, A/CD/D/J/K/L/M

**Valuation Methodology:** We rate Kraft Heinz Underweight as we expect the credit to be lowered to HY by at least two agencies and see meaningful widening pressure as the bonds migrate from IG to HY.

**Risks that May Impede Achievement of the Rating:** \* Divestitures that generate sufficient proceeds to accelerate the pace of deleveraging

\* A cut in the dividend with proceeds directed to debt paydown

\* Faster pace of debt paydown/deleveraging than expected.

\* Category growth below recent trends.

\* Ratings agencies affording the company greater leniency and time to execute its plan

Representative Bond: KHC 4 5/8 01/30/29 (USD 111.36, 12-Feb-2020)

**Materially Mentioned Issuers/Bonds**

**KRAFT HEINZ FOODS CO**, Underweight, A/CD/D/J/K/L/M

KHC 3 06/01/26 (USD 101.57, 12-Feb-2020)

KHC 4 5/8 01/30/29 (USD 111.36, 12-Feb-2020)

KHC 5.2 07/15/45 (USD 111.44, 12-Feb-2020)

KHC 6 1/2 02/09/40 (USD 125.81, 12-Feb-2020)

KHC 6 3/4 03/15/32 (USD 128.70, 12-Feb-2020)

KHC 6 7/8 01/26/39 (USD 129.78, 12-Feb-2020)

KHC 7 1/8 08/01/39 (USD 133.34, 12-Feb-2020)

All pricing information is indicative only. Unless otherwise indicated, prices are sourced from Refinitiv and reflect the closing price in the relevant trading market, which may not be the last available price at the time of publication.

**Disclosure Legend:**

**A:** Barclays Bank PLC and/or an affiliate has been lead manager or co-lead manager of a publicly disclosed offer of securities of the issuer in the previous 12 months.

**B:** An employee or non-executive director of Barclays PLC is a director of this issuer.

**CD:** Barclays Bank PLC and/or an affiliate is a market-maker in debt securities issued by this issuer.

**CE:** Barclays Bank PLC and/or an affiliate is a market-maker in equity securities issued by this issuer.

**D:** Barclays Bank PLC and/or an affiliate has received compensation for investment banking services from this issuer in the past 12 months.

**E:** Barclays Bank PLC and/or an affiliate expects to receive or intends to seek compensation for investment banking services from this issuer within the next 3 months.

**FA:** Barclays Bank PLC and/or an affiliate beneficially owns 1% or more of a class of equity securities of this issuer, as calculated in accordance with US regulations.

**FB:** Barclays Bank PLC and/or an affiliate beneficially owns a long position of more than 0.5% of a class of equity securities of this issuer, as calculated in accordance with EU regulations.

**FC:** Barclays Bank PLC and/or an affiliate beneficially owns a short position of more than 0.5% of a class of equity securities of this issuer, as calculated in accordance with EU regulations.

**FD:** Barclays Bank PLC and/or an affiliate beneficially owns 1% or more of a class of equity securities of this issuer, as calculated in accordance with South Korean regulations.

**GD:** One of the Research Analysts on the fundamental credit coverage team (or a member of his or her household) has a long position in the common equity securities of this issuer.

**GE:** One of the Research Analysts on the fundamental equity coverage team (or a member of his or her household) has a long position in the common equity securities of this issuer.

**H:** This issuer beneficially owns more than 5% of any class of common equity securities of Barclays PLC.

**I:** Barclays Bank PLC and/or an affiliate is party to an agreement with this issuer for the provision of financial services to Barclays Bank PLC and/or an affiliate.

**J:** Barclays Bank PLC and/or an affiliate is a liquidity provider and/or trades regularly in the securities of this issuer and/or in any related derivatives.

**K:** Barclays Bank PLC and/or an affiliate has received non-investment banking related compensation (including compensation for brokerage services, if applicable) from this issuer within the past 12 months.

**L:** This issuer is, or during the past 12 months has been, an investment banking client of Barclays Bank PLC and/or an affiliate.

**M:** This issuer is, or during the past 12 months has been, a non-investment banking client (securities related services) of Barclays Bank PLC and/or an affiliate.

**N:** This issuer is, or during the past 12 months has been, a non-investment banking client (non-securities related services) of Barclays Bank PLC and/or an affiliate.

**O:** Not in use.

**P:** A partner, director or officer of Barclays Capital Canada Inc. has, during the preceding 12 months, provided services to the subject company for remuneration, other than normal course investment advisory or trade execution services.

**Q:** Barclays Bank PLC and/or an affiliate is a Corporate Broker to this issuer.

**R:** Barclays Capital Canada Inc. and/or an affiliate has received compensation for investment banking services from this issuer in the past 12 months.

**S:** This issuer is a Corporate Broker to Barclays PLC.

**T:** Barclays Bank PLC and/or an affiliate is providing equity advisory services to this issuer.

**U:** The equity securities of this Canadian issuer include subordinate voting restricted shares.

**V:** The equity securities of this Canadian issuer include non-voting restricted shares.

#### **Explanation of the Barclays Research Corporate Credit Sector Rating System**

##### **Overweight (OW):**

For sectors rated against the Bloomberg Barclays U.S. Credit Index, the Bloomberg Barclays Pan-European Credit Index, the Bloomberg Barclays EM Asia USD High Grade Credit Index or the Bloomberg Barclays EM USD Corporate and Quasi-Sovereign Index, the analyst expects the six-month excess return of the sector to exceed the six-month excess return of the relevant index.

For sectors rated against the Bloomberg Barclays U.S. High Yield 2% Issuer Capped Credit Index, the Bloomberg Barclays Pan-European High Yield 3% Issuer Capped Credit Index excluding Financials, the Bloomberg Barclays Pan-European High Yield Finance Index or the Bloomberg Barclays EM Asia USD High Yield Corporate Credit Index, the analyst expects the six-month total return of the sector to exceed the six-month total return of the relevant index.

##### **Market Weight (MW):**

For sectors rated against the Bloomberg Barclays U.S. Credit Index, the Bloomberg Barclays Pan-European Credit Index, the Bloomberg Barclays EM Asia USD High Grade Credit Index or the Bloomberg Barclays EM USD Corporate and Quasi-Sovereign Index, the analyst expects the six-month excess return of the sector to be in line with the six-month excess return of the relevant index.

For sectors rated against the Bloomberg Barclays U.S. High Yield 2% Issuer Capped Credit Index, the Bloomberg Barclays Pan-European High Yield 3% Issuer Capped Credit Index excluding Financials, the Bloomberg Barclays Pan-European High Yield Finance Index or the Bloomberg Barclays EM Asia USD High Yield Corporate Credit Index, the analyst expects the six-month total return of the sector to be in line with the six-month total return of the relevant index.

##### **Underweight (UW):**

For sectors rated against the Bloomberg Barclays U.S. Credit Index, the Bloomberg Barclays Pan-European Credit Index, the Bloomberg Barclays EM Asia USD High Grade Credit Index or the Bloomberg Barclays EM USD Corporate and Quasi-Sovereign Index, the analyst expects the six-month excess return of the sector to be less than the six-month excess return of the relevant index.

For sectors rated against the Bloomberg Barclays U.S. High Yield 2% Issuer Capped Credit Index, the Bloomberg Barclays Pan-European High Yield 3% Issuer Capped Credit Index excluding Financials, the Bloomberg Barclays Pan-European High Yield Finance Index or the Bloomberg Barclays EM Asia USD High Yield Corporate Credit Index, the analyst expects the six-month total return of the sector to be less than the six-month total return of the relevant index.

**Sector definitions:**

Sectors in U.S. High Grade Research are defined using the sector definitions of the Bloomberg Barclays U.S. Credit Index and are rated against the Bloomberg Barclays U.S. Credit Index.

Sectors in U.S. High Yield Research are defined using the sector definitions of the Bloomberg Barclays U.S. High Yield 2% Issuer Capped Credit Index and are rated against the Bloomberg Barclays U.S. High Yield 2% Issuer Capped Credit Index.

Sectors in European High Grade Research are defined using the sector definitions of the Bloomberg Barclays Pan-European Credit Index and are rated against the Bloomberg Barclays Pan-European Credit Index.

Sectors in Industrials and Utilities in European High Yield Research are defined using the sector definitions of the Bloomberg Barclays Pan-European High Yield 3% Issuer Capped Credit Index excluding Financials and are rated against the Bloomberg Barclays Pan-European High Yield 3% Issuer Capped Credit Index excluding Financials.

Sectors in Financials in European High Yield Research are defined using the sector definitions of the Bloomberg Barclays Pan-European High Yield Finance Index and are rated against the Bloomberg Barclays Pan-European High Yield Finance Index.

Sectors in Asia High Grade Research are defined on Barclays Live and are rated against the Bloomberg Barclays EM Asia USD High Grade Credit Index.

Sectors in Asia High Yield Research are defined on Barclays Live and are rated against the Bloomberg Barclays EM Asia USD High Yield Corporate Credit Index.

Sectors in EEMEA and Latin America Research are defined on Barclays Live and are rated against the Bloomberg Barclays EM USD Corporate and Quasi-Sovereign Index. These sectors may contain both High Grade and High Yield issuers.

To view sector definitions and monthly sector returns for Asia, EEMEA and Latin America Research, go to <https://live.barcap.com/go/research/EMSectorReturns> on Barclays Live.

**Explanation of the Barclays Research Corporate Credit Rating System**

For all High Grade issuers covered in the US, Europe or Asia, and for all issuers in Latin America and EEMEA, the credit rating system is based on the analyst's view of the expected excess return over a six-month period of the issuer's index-eligible corporate debt securities\* relative to the expected excess return of the relevant sector, as specified on the report.

**Overweight (OW):** The analyst expects the six-month excess return of the issuer's index-eligible corporate debt securities to exceed the six-month expected excess return of the relevant sector.

**Market Weight (MW):** The analyst expects the six-month excess return of the issuer's index-eligible corporate debt securities to be in line with the six-month expected excess return of the relevant sector.

**Underweight (UW):** The analyst expects the six-month excess return of the issuer's index-eligible corporate debt securities to be less than the six-month expected excess return of the relevant sector.

**Rating Suspended (RS):** The rating has been suspended temporarily due to market events that make coverage impracticable or to comply with applicable regulations and/or firm policies in certain circumstances including where the Investment Bank of Barclays Bank PLC is acting in an advisory capacity in a merger or strategic transaction involving the company.

**Coverage Suspended (CS):** Coverage of this issuer has been temporarily suspended.

**Not Covered (NC):** Barclays' fundamental credit research team does not provide formal, continuous coverage of this issuer and has not assigned a rating to the issuer or its debt securities. Any analysis, opinion or trade recommendation provided on a Not Covered issuer or its debt securities is valid only as of the publication date of this report and there should be no expectation that additional reports relating to the Not Covered issuer or its debt securities will be published thereafter.

For all High Yield issuers (excluding those covered in EEMEA or Latin America), the credit rating system is based on the analyst's view of the expected total returns over a six-month period of the rated debt security relative to the expected total return of the relevant sector, as specified on the report.

**Overweight (OW):** The analyst expects the six-month total return of the debt security subject to this rating to exceed the six-month expected total return of the relevant sector.

**Market Weight (MW):** The analyst expects the six-month total return of the debt security subject to this rating to be in line with the six-month expected total return of the relevant sector.

**Underweight (UW):** The analyst expects the six-month total return of the rated debt security subject to this rating to be less than the six-month expected total return of the relevant sector.

**Rating Suspended (RS):** The rating has been suspended temporarily due to market events that make coverage impracticable or to comply with applicable regulations and/or firm policies in certain circumstances including where the Investment Bank of Barclays Bank PLC is acting in an advisory capacity in a merger or strategic transaction involving the company.

**Coverage Suspended (CS):** Coverage of this issuer has been temporarily suspended.

**Not Covered (NC):** Barclays' fundamental credit research team does not provide formal, continuous coverage of this issuer and has not assigned a rating to the issuer or its debt securities. Any analysis, opinion or trade recommendation provided on a Not Covered issuer or its debt securities is valid only as of the publication date of this report and there should be no expectation that additional reports relating to the Not Covered issuer or its debt securities will be published thereafter.

Where a recommendation is made at the issuer level, it does not apply to any sanctioned securities, where trading in such securities would be prohibited under applicable law, including sanctions laws and regulations.

\*In EEMEA and Latin America (and in certain other limited instances in other regions), analysts may occasionally rate issuers that are not part of the Bloomberg Barclays U.S. Credit Index, the Bloomberg Barclays Pan-European Credit Index, the Bloomberg Barclays EM Asia USD High Grade Credit Index or Bloomberg Barclays EM USD Corporate and Quasi Sovereign Index. In such cases the rating will reflect the analyst's view of the expected excess return over a six-month period of the issuer's corporate debt securities relative to the expected excess return of the relevant sector, as specified on the report.

**Distribution of ratings assigned by Barclays Corporate Credit Research at the issuer level:**

27% have been assigned an Overweight rating which, for purposes of mandatory regulatory disclosures, is classified as a Buy rating; 60% of issuers with this rating category are investment banking clients of the Firm; 78% of the issuers with this rating have received financial services from the Firm.

46% have been assigned Market Weight rating which, for purposes of mandatory regulatory disclosures, is classified as a Hold rating; 61% of issuers with this rating category are investment banking clients of the Firm; 83% of the issuers with this rating have received financial services from the Firm.

27% have been assigned an Underweight rating which, for purposes of mandatory regulatory disclosures, is classified as a Sell rating; 44% of issuers with this rating category are investment banking clients of the Firm; 79% of the issuers with this rating have received financial services from the Firm.

**Distribution of ratings assigned by Barclays Corporate Credit Research at the bond level:**

21% have been assigned an Overweight rating which, for purposes of mandatory regulatory disclosures, is classified as a Buy rating; 51% of bonds with this rating category are investment banking clients of the Firm; 69% of the issuers with this rating have received financial services from the Firm.

55% have been assigned Market Weight rating which, for purposes of mandatory regulatory disclosures, is classified as a Hold rating; 56% of bonds with this rating category are investment banking clients of the Firm; 78% of the issuers with this rating have received financial services from the Firm.

25% have been assigned an Underweight rating which, for purposes of mandatory regulatory disclosures, is classified as a Sell rating; 46% of bonds with this rating category are investment banking clients of the Firm; 71% of the issuers with this rating have received financial services from the Firm.

**Explanation of the Barclays EM Sovereign Credit Issuer Rating System**

**Overweight (OW):**

The analyst expects the six-month excess return of the country's index eligible bonds to exceed the six-month excess return of the Bloomberg Barclays EM USD Sovereign Index.

**Market Weight (MW):**

The analyst expects the six-month excess return of the country's index eligible bonds to be in line with the six-month excess return of the Bloomberg Barclays EM USD Sovereign Index.

**Underweight (UW):**

The analyst expects the six-month excess return of the country's index eligible bonds to be less than the six-month excess return of the Bloomberg Barclays EM USD Sovereign Index.

**Rating Suspended (RS):**

The rating has been suspended temporarily due to market events that make coverage impracticable or to comply with applicable regulations and/or firm policies in certain circumstances including where the Investment Bank of Barclays Bank PLC is acting in an advisory capacity.

**Distribution of ratings assigned by Barclays Emerging Markets Sovereign Research at the issuer level:**

32% have been assigned an Overweight rating which, for purposes of mandatory regulatory disclosures, is classified as a Buy rating; 9% of issuers with this rating category are investment banking clients of the Firm; 64% of the issuers with this rating have received financial services from the Firm.

35% have been assigned Market Weight rating which, for purposes of mandatory regulatory disclosures, is classified as a Hold rating; 8% of issuers with this rating category are investment banking clients of the Firm; 83% of the issuers with this rating have received financial services from the Firm.

32% have been assigned an Underweight rating which, for purposes of mandatory regulatory disclosures, is classified as a Sell rating; 9% of issuers with this rating category are investment banking clients of the Firm; 91% of the issuers with this rating have received financial services from the Firm.

**Types of investment recommendations produced by Barclays FICC Research:**

In addition to any ratings assigned under Barclays' formal rating systems, this publication may contain investment recommendations in the form of trade ideas, thematic screens, scorecards or portfolio recommendations that have been produced by analysts in FICC Research. Any such investment recommendations produced by non-Credit Research teams shall remain open until they are subsequently amended, rebalanced or closed in a future research report. Any such investment recommendations produced by the Credit Research teams are valid at current market conditions and may not be otherwise relied upon.

**Disclosure of other investment recommendations produced by Barclays FICC Research:**

Barclays FICC Research may have published other investment recommendations in respect of the same securities/instruments recommended in this research report during the preceding 12 months. To view all investment recommendations published by Barclays FICC Research in the preceding 12 months please refer to <https://live.barcap.com/go/research/Recommendations>.

**Legal entities involved in producing Barclays Research:**

Barclays Bank PLC (Barclays, UK)

Barclays Capital Inc. (BCI, US)

Barclays Bank Ireland PLC, Frankfurt Branch (BBI, Frankfurt)

Barclays Bank Ireland PLC, Paris Branch (BBI, Paris)  
Barclays Bank Ireland PLC, Milan Branch (BBI, Milan)  
Barclays Securities Japan Limited (BSJL, Japan)  
Barclays Bank PLC, Hong Kong branch (Barclays Bank, Hong Kong)  
Barclays Capital Canada Inc. (BCCI, Canada)  
Barclays Bank Mexico, S.A. (BBMX, Mexico)  
Barclays Securities (India) Private Limited (BSIPL, India)  
Barclays Bank PLC, India branch (Barclays Bank, India)  
Barclays Bank PLC, Singapore branch (Barclays Bank, Singapore)  
Barclays Bank PLC, DIFC Branch (Barclays Bank, DIFC)

**Disclaimer:**

This publication has been produced by Barclays Research Department in the Investment Bank of Barclays Bank PLC and/or one or more of its affiliates (collectively and each individually, “Barclays”). It has been prepared for institutional investors and not for retail investors. It has been distributed by one or more Barclays affiliated legal entities listed below. It is provided to our clients for information purposes only, and Barclays makes no express or implied warranties, and expressly disclaims all warranties of merchantability or fitness for a particular purpose or use with respect to any data included in this publication. To the extent that this publication states on the front page that it is intended for institutional investors and is not subject to all of the independence and disclosure standards applicable to debt research reports prepared for retail investors under U.S. FINRA Rule 2242, it is an “institutional debt research report” and distribution to retail investors is strictly prohibited. Barclays also distributes such institutional debt research reports to various issuers, media, regulatory and academic organisations for their own internal informational news gathering, regulatory or academic purposes and not for the purpose of making investment decisions regarding any debt securities. Media organisations are prohibited from re-publishing any opinion or recommendation concerning a debt issuer or debt security contained in any Barclays institutional debt research report. Any such recipients that do not want to continue receiving Barclays institutional debt research reports should contact [debtresearch@barclays.com](mailto:debtresearch@barclays.com). Clients that are subscribed to receive equity research reports, will not receive certain cross asset research reports co-authored by equity and FICC research analysts that are distributed as “institutional debt research reports” unless they have agreed to accept such reports. Eligible clients may get access to such cross asset reports by contacting [debtresearch@barclays.com](mailto:debtresearch@barclays.com). Barclays will not treat unauthorized recipients of this report as its clients and accepts no liability for use by them of the contents which may not be suitable for their personal use. Prices shown are indicative and Barclays is not offering to buy or sell or soliciting offers to buy or sell any financial instrument.

Without limiting any of the foregoing and to the extent permitted by law, in no event shall Barclays, nor any affiliate, nor any of their respective officers, directors, partners, or employees have any liability for (a) any special, punitive, indirect, or consequential damages; or (b) any lost profits, lost revenue, loss of anticipated savings or loss of opportunity or other financial loss, even if notified of the possibility of such damages, arising from any use of this publication or its contents.

Other than disclosures relating to Barclays, the information contained in this publication has been obtained from sources that Barclays Research believes to be reliable, but Barclays does not represent or warrant that it is accurate or complete. Barclays is not responsible for, and makes no warranties whatsoever as to, the information or opinions contained in any written, electronic, audio or video presentations of third parties that are accessible via a direct hyperlink in this publication or via a hyperlink to a third-party web site (“Third-Party Content”). Any such Third-Party Content has not been adopted or endorsed by Barclays, does not represent the views or opinions of Barclays, and is not incorporated by reference into this publication. Third-Party Content is provided for information purposes only and Barclays has not independently verified its accuracy or completeness.

The views in this publication are solely and exclusively those of the authoring analyst(s) and are subject to change, and Barclays Research has no obligation to update its opinions or the information in this publication. Unless otherwise disclosed herein, the analysts who authored this report have not received any compensation from the subject companies in the past 12 months. If this publication contains recommendations, they are general recommendations that were prepared independently of any other interests, including those of Barclays and/or its affiliates, and/or the subject companies. This publication does not contain personal investment recommendations or investment advice or take into account the individual financial circumstances or investment objectives of the clients who receive it. The securities and other investments discussed herein may not be suitable for all investors. Barclays is not a fiduciary to any recipient of this publication. Investors must independently evaluate the merits and risks of the investments discussed herein, consult any independent advisors they believe necessary, and exercise independent judgment with regard to any investment decision. The value of and income from any investment may fluctuate from day to day as a result of changes in relevant economic markets (including changes in market liquidity). The information herein is not intended to predict actual results, which may differ substantially from those reflected. Past performance is not necessarily indicative of future results. The information provided does not constitute a financial benchmark and should not be used as a submission or contribution of input data for the purposes of determining a financial benchmark.

**United Kingdom:** This document is being distributed (1) only by or with the approval of an authorised person (Barclays Bank PLC) or (2) to, and is directed at (a) persons in the United Kingdom having professional experience in matters relating to investments and who fall within the definition of “investment professionals” in Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the “Order”); or (b) high net worth companies, unincorporated associations and partnerships and trustees of high value trusts as described in Article 49(2) of the Order; or (c) other persons to whom it may otherwise lawfully be communicated (all such persons being “Relevant Persons”). Any investment or investment activity to which this communication relates is only available to and will only be engaged in with Relevant Persons. Any other persons who receive this communication should not rely on or act upon it. Barclays Bank PLC is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority and is a member of the London Stock Exchange.

**European Economic Area (“EEA”):** This material is being distributed in the EEA by Barclays Bank PLC. Barclays Bank PLC is not registered in France with the Autorité des marchés financiers or the Autorité de contrôle prudentiel.

**Americas:** The Investment Bank of Barclays Bank PLC undertakes U.S. securities business in the name of its wholly owned subsidiary Barclays Capital Inc., a FINRA and SIPC member. Barclays Capital Inc., a U.S. registered broker/dealer, is distributing this material in the United States and, in

connection therewith accepts responsibility for its contents. Any U.S. person wishing to effect a transaction in any security discussed herein should do so only by contacting a representative of Barclays Capital Inc. in the U.S. at 745 Seventh Avenue, New York, New York 10019.

Non-U.S. persons should contact and execute transactions through a Barclays Bank PLC branch or affiliate in their home jurisdiction unless local regulations permit otherwise.

This material is distributed in Canada by Barclays Capital Canada Inc., a registered investment dealer, a Dealer Member of IIROC ([www.iiroc.ca](http://www.iiroc.ca)), and a Member of the Canadian Investor Protection Fund (CIPF).

This material is distributed in Mexico by Barclays Bank Mexico, S.A. This material is distributed in the Cayman Islands and in the Bahamas by Barclays Capital Inc., which it is not licensed or registered to conduct and does not conduct business in, from or within those jurisdictions and has not filed this material with any regulatory body in those jurisdictions.

**Japan:** This material is being distributed to institutional investors in Japan by Barclays Securities Japan Limited. Barclays Securities Japan Limited is a joint-stock company incorporated in Japan with registered office of 6-10-1 Roppongi, Minato-ku, Tokyo 106-6131, Japan. It is a subsidiary of Barclays Bank PLC and a registered financial instruments firm regulated by the Financial Services Agency of Japan. Registered Number: Kanto Zaimukyokucho (kinsho) No. 143.

**Asia Pacific (excluding Japan):** Barclays Bank PLC, Hong Kong Branch is distributing this material in Hong Kong as an authorised institution regulated by the Hong Kong Monetary Authority. Registered Office: 41/F, Cheung Kong Center, 2 Queen's Road Central, Hong Kong.

All Indian securities-related research and other equity research produced by Barclays' Investment Bank are distributed in India by Barclays Securities (India) Private Limited (BSIPL). BSIPL is a company incorporated under the Companies Act, 1956 having CIN U67120MH2006PTC161063. BSIPL is registered and regulated by the Securities and Exchange Board of India (SEBI) as a Research Analyst: INH000001519; Portfolio Manager INP000002585; Stock Broker/Trading and Clearing Member: National Stock Exchange of India Limited (NSE) Capital Market INB231292732, NSE Futures & Options INF231292732, NSE Currency derivatives INE231450334, Bombay Stock Exchange Limited (BSE) Capital Market INB011292738, BSE Futures & Options INF011292738; Depository Participant (DP) with the National Securities & Depositories Limited (NSDL): DP ID: IN-DP-NSDL-299-2008; Investment Adviser: INA000000391. The registered office of BSIPL is at 208, Ceejay House, Shivsagar Estate, Dr. A. Besant Road, Worli, Mumbai – 400 018, India. Telephone No: +91 2267196000. Fax number: +91 22 67196100. Any other reports produced by Barclays' Investment Bank are distributed in India by Barclays Bank PLC, India Branch, an associate of BSIPL in India that is registered with Reserve Bank of India (RBI) as a Banking Company under the provisions of The Banking Regulation Act, 1949 (Regn No BOM43) and registered with SEBI as Merchant Banker (Regn No INM000002129) and also as Banker to the Issue (Regn No INBI00000950). Barclays Investments and Loans (India) Limited, registered with RBI as Non Banking Financial Company (Regn No RBI CoR-07-00258), and Barclays Wealth Trustees (India) Private Limited, registered with Registrar of Companies (CIN U93000MH2008PTC188438), are associates of BSIPL in India that are not authorised to distribute any reports produced by Barclays' Investment Bank.

This material is distributed in Singapore by the Singapore branch of Barclays Bank PLC, a bank licensed in Singapore by the Monetary Authority of Singapore. For matters in connection with this material, recipients in Singapore may contact the Singapore branch of Barclays Bank PLC, whose registered address is 10 Marina Boulevard, #23-01 Marina Bay Financial Centre Tower 2, Singapore 018983.

This material is distributed to persons in Australia by Barclays Bank PLC. None of Barclays Bank PLC, nor any other Barclays group entity, holds an Australian financial services licence and instead relies on an exemption from the requirement to hold such a licence. This material is intended to only be distributed to "wholesale clients" as defined by the Australian Corporations Act 2001. This material is distributed in New Zealand by Barclays Bank PLC, but it has not been registered, filed or approved by any New Zealand regulatory authority or under or in accordance with the Financial Markets Conduct Act of 2013, and this material is not a disclosure document under New Zealand law.

**Middle East:** Nothing herein should be considered investment advice as defined in the Israeli Regulation of Investment Advisory, Investment Marketing and Portfolio Management Law, 1995 ("Advisory Law"). This document is being made to eligible clients (as defined under the Advisory Law) only. Barclays Israeli branch previously held an investment marketing license with the Israel Securities Authority but it cancelled such license on 30/11/2014 as it solely provides its services to eligible clients pursuant to available exemptions under the Advisory Law, therefore a license with the Israel Securities Authority is not required. Accordingly, Barclays does not maintain an insurance coverage pursuant to the Advisory Law.

This material is distributed in the United Arab Emirates (including the Dubai International Financial Centre) and Qatar by Barclays Bank PLC. Barclays Bank PLC in the Dubai International Financial Centre (Registered No. 0060) is regulated by the Dubai Financial Services Authority (DFSA). Principal place of business in the Dubai International Financial Centre: The Gate Village, Building 4, Level 4, PO Box 506504, Dubai, United Arab Emirates. Barclays Bank PLC-DIFC Branch, may only undertake the financial services activities that fall within the scope of its existing DFSA licence. Related financial products or services are only available to Professional Clients, as defined by the Dubai Financial Services Authority. Barclays Bank PLC in the UAE is regulated by the Central Bank of the UAE and is licensed to conduct business activities as a branch of a commercial bank incorporated outside the UAE in Dubai (Licence No.: 13/1844/2008, Registered Office: Building No. 6, Burj Dubai Business Hub, Sheikh Zayed Road, Dubai City) and Abu Dhabi (Licence No.: 13/952/2008, Registered Office: Al Jazira Towers, Hamdan Street, PO Box 2734, Abu Dhabi). This material does not constitute or form part of any offer to issue or sell, or any solicitation of any offer to subscribe for or purchase, any securities or investment products in the UAE (including the Dubai International Financial Centre) and accordingly should not be construed as such. Furthermore, this information is being made available on the basis that the recipient acknowledges and understands that the entities and securities to which it may relate have not been approved, licensed by or registered with the UAE Central Bank, the Dubai Financial Services Authority or any other relevant licensing authority or governmental agency in the UAE. The content of this report has not been approved by or filed with the UAE Central Bank or Dubai Financial Services Authority. Barclays Bank PLC in the Qatar Financial Centre (Registered No. 00018) is authorised by the Qatar Financial Centre Regulatory Authority (QFCRA). Barclays Bank PLC-QFC Branch may only undertake the regulated activities that fall within the scope of its existing QFCRA licence. Principal place of business in Qatar: Qatar Financial Centre, Office 1002, 10th Floor, QFC Tower, Diplomatic Area, West Bay, PO Box 15891, Doha, Qatar. Related financial products or services are only available to Business Customers as defined by the Qatar Financial Centre Regulatory Authority.

**Russia:** This material is not intended for investors who are not Qualified Investors according to the laws of the Russian Federation as it might contain information about or description of the features of financial instruments not admitted for public offering and/or circulation in the Russian Federation and thus not eligible for non-Qualified Investors. If you are not a Qualified Investor according to the laws of the Russian Federation, please dispose of any copy of this material in your possession.

**IRS Circular 230 Prepared Materials Disclaimer:** Barclays does not provide tax advice and nothing contained herein should be construed to be tax advice. Please be advised that any discussion of U.S. tax matters contained herein (including any attachments) (i) is not intended or written to be used, and cannot be used, by you for the purpose of avoiding U.S. tax-related penalties; and (ii) was written to support the promotion or marketing of the transactions or other matters addressed herein. Accordingly, you should seek advice based on your particular circumstances from an independent tax advisor.

© Copyright Barclays Bank PLC (2020). All rights reserved. No part of this publication may be reproduced or redistributed in any manner without the prior written permission of Barclays. Barclays Bank PLC is registered in England No. 1026167. Registered office 1 Churchill Place, London, E14 5HP. Additional information regarding this publication will be furnished upon request.

BRCF2242