EMEA Credit Comment 27 July 2020



European Banks - Weekly Credit Update

 UBS' capitalization metrics rebound in Q2 was credit positive, yet its results for the second quarter were largely underwhelming.

• The ECB is reportedly looking into extending its request for a halt on dividend payments until the end of the year, which we see as somewhat sensible amid the uncertain environment.

• Primary markets remained quiet, with only UBS and RBI tapping the market; secondaries tightened noticeably amid the approval of the €750bn recovery fund by the EU council.

Israel Da Costa, CFA

Credit Analyst +44 20 7597 8355 |srael.DaCosta@uk.daiwacm.com

2Q20 Earnings: UBS

UBS was the only name in our coverage universe to report their Q2 result last week. After a solid Q1, its Q2 figures were rather underwhelming, as lower USD interest rates impacted wealth management earnings whilst Equities trading disappointed. Positively, the bank reported a strong rebound in its CET1 ratio (+50bps Q/Q to 13.3%), partly recovering from the 90bps decline in Q1, whilst the leverage ratio, the bank's actual capital binding constrain, was up by 10bps Q/Q to 5.5%, after a 30bps decline in Q1.

In global markets, the bank saw FICC earnings rise by 118% Y/Y (above the +95% aggregate of the top 5 American banks, albeit from a smaller base), yet Equities trading, which is supposed to be the bank's strength, were down 9% Y/Y, as strong Cash Equities and Financing Services were offset by lower Equity Derivatives. Interestingly, the share of capital markets income arising from Equities trading in 2Q20 was 53%, vs. 47% from FICC, whilst the split in 2Q19 was 73% / 27%. Yet this is more reflective of the volatile nature of trading income, rather than a targeted change in strategy by the bank.

Loan loss provisions remained at a low 14.7% of pre-impairment profit in 2Q, flat Q/Q, highlighting the strong quality of the bank's loan book and limited exposure to consumer and corporate lending. UBS has signaled that pandemic driven provisioning levels have now peaked, with its baseline scenario for Switzerland projecting a 5.5% decline in GDP in 2020, followed by a 4.4% recovery in 2021.

(Table1) UBS 2020 Financials

| (\$m) | 2Q20 | 1Q20 |
|---|-------|-------|
| Revenues | 7,403 | 7,934 |
| Expenses | 5,821 | 5,926 |
| Impairments | 272 | 268 |
| Net Profit | 1,232 | 1,595 |
| WM¹ AuM (\$bn) | 2,590 | 2,339 |
| WM ¹ Net New Money (\$bn) | 9.2 | 11.6 |
| Ratios (%) | | |
| CIR | 75.8 | 72.3 |
| RoTE | 9.6 | 12.8 |
| CET1 | 13.3 | 12.8 |
| Leverage Ratio | 5.5 | 5.4 |
| LR TLAC | 9.6 | 9.8 |
| RWA TLAC | 32.7 | 32.7 |
| LCR | 155.0 | 145.0 |

Source: UBS. Figures as stated by the bank. ¹WM=Wealth Management

This week is going to be far busier in terms of Q2 results, with Barclays, Santander and

Deutsche reporting on Wednesday, Standard Chartered, Credit Suisse, BBVA and Lloyds on Thursday, and BNP Paribas and RBS (now called NatWest Group) on Friday. Focus will remain on provisioning levels, which we expect to be material, but partially offset by strong FICC performance in those banks with sizeable capital markets activities. Capitalization metrics will also be of great interest, as they have generally beaten expectations so far, a welcome development following sharp deteriorations in Q1.

Euro Area Banks Dividends

Following an ESRB recommendation from May 2020, the ECB is reportedly looking into extending the request for euro area banks to halt dividend payments until the end of the year. Currently in place until October, the extension would be marginally supportive to subordinated debt. Yet large, strong banks might resist the request, given the already very low attractiveness of their shares, as reflected in their low market capitalization. That said, as furlough schemes and payment holidays are still in place across a number of euro area countries, it will still take time for banks to materially feel the actual impact of the pandemic on their balance sheet. Together with concerns of a second Covid-19 wave in Europe, the potential ECB's move would come as somewhat sensible. We note however that European banks started the current crisis with strong capital and liquidity levels, and have been subsequently further supported by various measures announced by regulators and governments to support the economy and financial sector. Accordingly, amid the lower *ad infinitum* interest rate environment, we expect profitability to be the main negative credit driver for euro area banks in the medium term rather than solvability or liquidity.

Primary and secondary markets

Primary market activity remained limited last week amid the earnings season and the summer low, yet UBS and RBI took advantage of the positive market sentiment and investors' chase for yields to tap the market for AT1 placements. UBS' placement, which came a day after the release of its Q2 earnings, was met with a strong 7.7x coverage, whilst RBI's was met with a decent 3.2x coverage. **Secondary** spreads tightened noticeably last week following the EU approval of its €750bn recovery plan, particularly for lower ranked Italian and Spanish euro paper.

(Table 2) Key Transactions

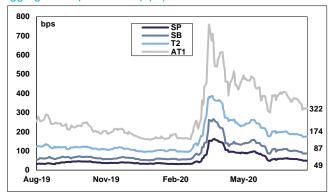
| Bank | Rank | Amount | Maturity | Final Spread (bps) | IPT (bps) | Book Orders |
|------|----------|----------|------------|--------------------|----------------|-------------|
| UBS | AT1 | USD750m | PNC6 | 5.125% (coupon) | 5.75% (coupon) | >USD5.75bn |
| | | AUD1bn | 30 July 23 | 3mBBSW+67 | 3mBBSW+75/80 | |
| UBS | Sr Op Co | AUD1.25 | 30 July 25 | 3mBBSW+87 | 3mBBSW+95/100 | |
| | | AUD0.5bn | 30 July 25 | BBSW+87 | BBSW+95/100 | |
| RBI | AT1 | EUR500m | PNC6 | 6.0% (coupon) | 6.5% (coupon) | >EUR1.6bn |

Source BondRadar, Bloomberg.

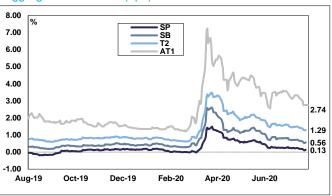


Western European Banks EUR Spreads and Yields

Aggregate Z-spread LTM (bps)



Aggregate Yields LTM (bps)



Source: Bloomberg, Daiwa Capital Markets Europe. SP = Senior Preferred/Senior OpCo; SB = Senior Non- Preferred/ Senior HoldCo; T2= Tier 2; AT1 = Additional Tier 1. All figures based on Z to worst spread of public benchmark issuances.

Selected Names

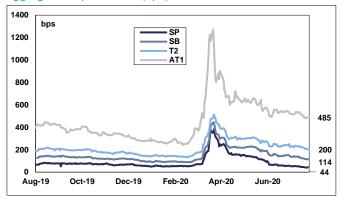
| | Sr Preferred/Sr OpCo | | | | | | Sr Non-Preferred/Sr HoldCo | | | | | Tier 2 | | | | | |
|-------------|----------------------|-------|-----|----------|----------|------|----------------------------|-----|----------|----------|------|--------|-----|----------|----------|--|--|
| | Dur. | Yield | Z | Z 5D∆ | Z YTD | Dur. | Yield | Z | Z 5D∆ | Z YTD | Dur. | Yield | Z | Z 5D∆ | Z YTD | | |
| Commerz | 4.7 | 0.5 | 77 | -12 | 29 | 4.1 | 1.0 | 135 | -11 | 64 | 5.0 | 3.2 | 345 | -16 | 148 | | |
| Barclays | 3.7 | 0.5 | 73 | -4 | 28 | 3.3 | 0.5 | 87 | -12 | 32 | 3.6 | 1.7 | 171 | -54 | 41 | | |
| BBVA | 4.8 | 0.4 | 70 | -9 | 19 | 4.4 | 0.8 | 108 | -10 | 52 | 5.9 | 1.8 | 211 | -20 | 97 | | |
| BFCM | 3.9 | 0.1 | 41 | -6 | 10 | 9.2 | 0.6 | 83 | -8 | 21 | 5.3 | 1.2 | 151 | -9 | 58 | | |
| BNPP | 2.5 | 0.0 | 29 | -5 | 11 | 5.1 | 0.5 | 86 | -9 | 30 | 4.9 | 1.1 | 139 | -7 | 56 | | |
| BPCE | 3.8 | 0.1 | 43 | -6 | 14 | 4.6 | 0.5 | 80 | -9 | 30 | 2.8 | 0.7 | 102 | -13 | 42 | | |
| Credit Ag. | 3.4 | 0.0 | 35 | -4 | 5 | 5.6 | 0.5 | 81 | -9 | 30 | 5.0 | 1.8 | 202 | -9 | 63 | | |
| Credit Sui. | 4.7 | 0.5 | 77 | -12 | 29 | 6.5 | 0.8 | 107 | -7 | 39 | 4.1 | 2.0 | 161 | -7 | 64 | | |
| Danske | 2.8 | 0.0 | 39 | -6 | 3 | 2.8 | 0.7 | 106 | -9 | 31 | 6.3 | 1.6 | 194 | -23 | 48 | | |
| Deutsche | 4.8 | 0.4 | 77 | -13 | -10 | 2.8 | 1.2 | 143 | -12 | 22 | 4.8 | 3.2 | 349 | -26 | 61 | | |
| DNB | 3.3 | 0.0 | 35 | -6 | 4 | 4.1 | 0.7 | 102 | -1 | 65 | 6.5 | 1.1 | 138 | -10 | 78 | | |
| HSBC | 3.2 | 0.1 | 42 | -7 | 8 | 3.0 | 0.3 | 61 | -8 | 18 | 5.9 | 0.9 | 121 | -7 | 37 | | |
| ING | 1.5 | -0.1 | 27 | -6 | 13 | 5.1 | 0.3 | 57 | -10 | 11 | 5.4 | 1.2 | 147 | -10 | 51 | | |
| Intesa | 4.5 | 0.9 | 115 | -12 | 38 | 5.1 | 0.3 | 57 | -10 | 11 | 5.4 | 2.2 | 246 | -25 | 95 | | |
| Lloyds | 2.1 | -0.2 | 11 | -5 | -14 | 3.9 | 0.5 | 83 | -9 | 32 | 7.5 | 1.6 | 193 | -13 | 79 | | |
| Nordea | 4.4 | -0.1 | 25 | -4 | 1 | 2.9 | 0.2 | 50 | -12 | 12 | 2.0 | 0.9 | 101 | -13 | 49 | | |
| Rabobank | 2.5 | -0.1 | 21 | -4 | 4 | 6.2 | 0.3 | 59 | -8 | 22 | 2.2 | 0.4 | 70 | -5 | 22 | | |
| RBS | 3.6 | 0.4 | 70 | -3 | 31 | 6.2 | 0.3 | 59 | -8 | 22 | 2.2 | 0.4 | 70 | -5 | 22 | | |
| Santander | 3.9 | 0.2 | 51 | -7 | 9 | 5.2 | 0.8 | 112 | -11 | 34 | 5.5 | 1.5 | 177 | -20 | 76 | | |
| San UK | 3.0 | 0.0 | 33 | -9 | 2 | 3.3 | 0.8 | 105 | -15 | 45 | 5.5 | 1.5 | 177 | -20 | 76 | | |
| SocGen | 1.9 | 0.1 | 42 | -5 | 15 | 6.0 | 0.9 | 116 | -10 | 45 | 3.3 | 1.1 | 138 | -11 | 51 | | |
| StanChart | 4.1 | 0.3 | 58 | -4 | 6 | 6.7 | 0.8 | 112 | -8 | 40 | 2.2 | 1.0 | 81 | -10 | 15 | | |
| Swedbank | 4.7 | 0.2 | 55 | -3 | | 4.2 | 0.4 | 69 | -10 | 6 | 7.1 | 1.3 | 163 | -7 | 61 | | |
| UBS | 1.4 | -0.1 | 27 | -6 | 7 | 3.5 | 0.3 | 63 | -7 | 22 | 0.8 | 2.4 | 212 | -77 | 10 | | |
| UniCredit | 4.0 | 1.1 | 133 | -10 | 51 | 5.3 | 2.0 | 221 | -10 | 67 | 2.7 | 2.7 | 292 | -46 | 112 | | |

Source: Bloomberg, Daiwa Capital Markets Europe. Dur.= Duration. Yield= Yield to worst (%). Z = Z-Spread to Worst (bps). $Z = SD\Delta = Iast 5$ days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z = Iast 5 days Z-spread net change (bps). Z-spr



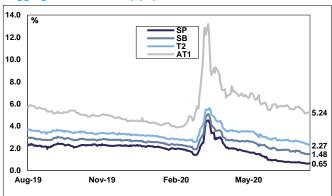
Western European Banks USD Spreads and Yields

Aggregate Z-spread LTM (bps)



Aggregate Yields LTM (bps)

27 July 2020



Source: Bloomberg, Daiwa Capital Markets Europe. SP = Senior Preferred/Senior OpCo; SB = Senior Non- Preferred/ Senior HoldCo; T2= Tier 2; AT1 = Additional Tier 1. All figures based on Z to worst spread of public benchmark issuances.

Selected Names

| | Sr Preferred/Sr OpCo | | | | | | Sr Non-Pi | referred/S | Sr HoldC | 0 | Tier 2 | | | | | |
|-------------|----------------------|-------|-----|----------|----------|------|-----------|------------|----------|----------|--------|-------|-----|----------|----------|--|
| | Dur. | Yield | Z | Z 5D∆ | Z YTD | Dur. | Yield | Z | Z 5D∆ | Z YTD | Dur. | Yield | Z | Z 5D∆ | Z YTD | |
| Barclays | 2.6 | 0.8 | 55 | -4 | 2 | 4.4 | 1.6 | 128 | -10 | 16 | 5.4 | 2.8 | 228 | -12 | 55 | |
| BFCM | 2.5 | 0.8 | 59 | -4 | 5 | 4.4 | 1.6 | 128 | -10 | 16 | 5.4 | 2.8 | 228 | -12 | 55 | |
| BNPP | 1.7 | 0.4 | 18 | -2 | -13 | 4.6 | 1.5 | 109 | -8 | 29 | 5.1 | 2.1 | 172 | -10 | 53 | |
| BPCE | 2.4 | 0.9 | 62 | -4 | 10 | 4.2 | 1.7 | 124 | -7 | 26 | 3.6 | 2.1 | 172 | -3 | 62 | |
| Credit Ag. | 2.2 | 0.8 | 57 | -8 | 6 | 3.9 | 1.2 | 80 | -14 | 13 | 8.2 | 2.2 | 155 | -10 | 40 | |
| Credit Sui. | 1.7 | 0.7 | 38 | -3 | 4 | 4.3 | 1.6 | 99 | -10 | 38 | 2.8 | 3.5 | 317 | -27 | 99 | |
| Danske | 1.5 | 0.8 | 76 | -2 | 4 | 2.9 | 1.6 | 131 | -12 | 34 | 2.8 | 3.5 | 317 | -27 | 99 | |
| Deutsche | | | | | | 3.0 | 2.2 | 181 | -10 | 39 | 6.6 | 5.6 | 507 | -32 | 103 | |
| HSBC | 3.9 | 1.6 | 141 | 3 | 32 | 4.8 | 1.7 | 123 | -8 | 30 | 10.8 | 2.7 | 215 | -16 | 91 | |
| ING | 1.0 | 0.4 | 18 | -6 | -7 | 4.8 | 1.2 | 80 | -8 | 6 | 3.1 | 2.1 | 171 | -7 | 71 | |
| Intesa | 3.7 | 2.2 | 181 | -17 | 47 | 4.8 | 1.2 | 80 | -8 | 6 | 4.1 | 4.0 | 358 | -35 | 119 | |
| Lloyds | 3.2 | 1.2 | 90 | -6 | 24 | 3.7 | 1.1 | 80 | -8 | 0 | 5.0 | 2.2 | 179 | -11 | 41 | |
| Nordea | 2.8 | 0.6 | 34 | -3 | | 2.9 | 1.3 | 88 | 0 | 19 | 2.0 | 1.4 | 93 | -9 | 25 | |
| Rabobank | 2.4 | 0.6 | 31 | -3 | -8 | 3.8 | 1.0 | 58 | -7 | -1 | 4.9 | 1.6 | 123 | -9 | 26 | |
| RBS | 2.4 | 0.6 | 31 | -3 | -8 | 3.8 | 1.0 | 58 | -7 | -1 | 4.9 | 1.6 | 123 | -9 | 26 | |
| Santander | 5.8 | 1.5 | 114 | -13 | 28 | 5.2 | 1.8 | 143 | -17 | 30 | 4.7 | 2.5 | 207 | -12 | 97 | |
| San UK | 2.4 | 0.7 | 49 | -1 | 10 | 2.3 | 1.3 | 90 | -10 | 10 | 4.5 | 2.7 | 233 | -9 | 86 | |
| SocGen | 4.8 | 1.1 | 79 | -3 | | 4.1 | 1.9 | 154 | -10 | 56 | 4.5 | 2.7 | 231 | -6 | 79 | |
| StanChart | 0.9 | 0.9 | 68 | -19 | -184 | 4.4 | 2.0 | 163 | -9 | 63 | 5.7 | 2.7 | 232 | -13 | 94 | |
| UBS | 9.9 | 1.4 | 86 | -11 | 34 | 4.7 | 1.3 | 89 | -8 | 16 | 5.7 | 2.7 | 232 | -13 | 94 | |
| UniCredit | 2.2 | 2.3 | 214 | -21 | 54 | 2.2 | 2.4 | 196 | -24 | 71 | 7.5 | 4.9 | 434 | -23 | 92 | |

Source: Bloomberg, Daiwa Capital Markets Europe. Dur.= Duration. Yield= Yield to worst (%). Z = Z-Spread to Worst (bps). $Z 5D\Delta = last 5 days Z$ -spread net change (bps). Z YTD = year to date Z-Spread net change (bps). Blank cells represent lack of statistically significant data. Figures may not be representative of the whole market.



Credit Research

Key contacts

| London Head of Research | Chris Scicluna | +44 20 7597 8326 |
|--|----------------------|------------------|
| Financials, Supras/Sovereigns & Agencies | Israel Da Costa, CFA | +44 20 7597 8355 |
| Research Assistant | Katherine Ludlow | +44 20 7597 8318 |
| Tokyo | | |
| Domestic Credit | | |
| Chief Credit Analyst | Toshiyasu Ohashi | +81 3 5555 8753 |
| Electronics, Automobiles, Non-Banks, Real Estate, REIT | Takao Matsuzaka | +81 3 5555 8763 |
| Chemicals, Iron & Steel | Kazuaki Fujita | +81 3 5555 8765 |
| International Credit | | |
| Non-Japanese/Samurai, European Sovereigns | Hiroaki Fujioka | +81 3 5555 8761 |
| Non-Japanese/Samurai | Fumio Taki | +81 3 5555 8787 |
| Non-Japanese | Jiang Jiang | +81 3 5555 8755 |
| | | |
| London Translation | | |
| Head of Translation, Economic and Credit | Mariko Humphris | +44 20 7597 8327 |
| | | |

DAIR <GO>

All of the research published by the London and New York research teams is available on our Bloomberg page at DAIR <GO>.

Access our research at:

http://www.uk.daiwacm.com/ficc-research/research-reports



Follow us

@DaiwaEurope

This document is produced by Daiwa Securities Co. Ltd and/or its affiliates and is distributed by Daiwa Capital Markets Europe Limited in the European Union, Iceland, Liechtenstein, Norway and Switzerland. Daiwa Capital Markets Europe Limited is authorised and regulated by The Financial Conduct Authority, is a member of the London Stock Exchange and an exchange participant of Eurex. Daiwa Capital Markets Europe Limited and its affiliates may, from time to time, to the extent permitted by law, participate or invest in, or be mandated in respect of, other transactions with the issuer(s) referred to herein, perform services for or solicit business from such issuer(s), and/or have a position or effect transactions in a particular issuer's securities or options thereof and/or may have acted as an underwriter during the past twelve months in respect of a particular issuer of its securities. In addition, employees of Daiwa Capital Markets Europe Limited and its affiliates may have positions and effect transactions in such securities or options and may serve as Directors of a particular issuer. Daiwa Capital Markets Europe Limited may, to the extent permitted by applicable UK law and other applicable law or regulation, effect transactions in securities of a particular issuer before this material is published to recipients.

This publication is intended for investors who are not Retail Clients in the United Kingdom within the meaning of the Rules of the FCA and should not therefore be distributed to such Retail Clients in the United Kingdom. Should you enter into investment business with Daiwa Capital Markets Europe's affiliates outside the United Kingdom, we are obliged to advise that the protection afforded by the United Kingdom regulatory system may not apply; in particular, the benefits of the Financial Services Compensation Scheme may not be available.

Daiwa Capital Markets Europe Limited is part of Daiwa Securities Group Inc. Daiwa Securities Group Inc., its subsidiaries or affiliates, or its or their respective directors, officers and employees from time to time have trades as principals, or have positions in, or have other interests in the securities of the company under research including market making activities, derivatives in respect of such securities or may have also performed investment banking and other services for the issuer of such securities. Daiwa Securities Group Inc., its subsidiaries or affiliates do and seek to do business with the company(s) covered in this research report. Therefore, investors should be aware that a conflict of interest may exist.

Daiwa Capital Markets Europe Limited has in place organisational arrangements for the prevention and avoidance of conflicts of interest. Our conflict management policy is available at http://www.uk.daiwacm.com/about-us/corporate-governance-regulatory. Regulatory disclosures of investment banking relationships are available at http://www.us.daiwacm.com/.

The statements in the preceding paragraphs are made as of July 2020.



Explanatory Document of Unregistered Credit Ratings

In order to ensure the fairness and transparency in the markets, Credit Rating Agencies became subject to the Credit Rating Agencies' registration system based on the Financial Instruments and Exchange Act. In accordance with this Act, in soliciting customers, Financial Instruments Business Operators, etc. shall not use the credit ratings provided by unregistered Credit Rating Agencies without informing customers of the fact that those Credit Rating Agencies are not registered, and shall also inform customers of the significance and limitations of credit ratings, etc.

■ The Significance of Registration

Registered Credit Rating Agencies are subject to the following regulations:

- 1) Duty of good faith.
- 2) Establishment of control systems (fairness of the rating process, and prevention of conflicts of interest, etc.).
- 3) Prohibition of the ratings in cases where Credit Rating Agencies have a close relationship with the issuers of the financial instruments to be rated, etc.
- 4) Duty to disclose information (preparation and publication of rating policies, etc. and public disclosure of explanatory documents).

In addition to the above, Registered Credit Rating Agencies are subject to the supervision of the Financial Services Agency ("FSA"), and as such may be ordered to produce reports, be subject to on-site inspection, and be ordered to improve business operations, whereas unregistered Credit Rating Agencies are free from such regulations and supervision.

■ Credit Rating Agencies

[Standard & Poor's]

The Name of the Credit Rating Agencies group, etc

The name of the Credit Rating Agencies group: S&P Global Ratings ("Standard & Poor's")

The name and registration number of the Registered Credit Rating Agency in the group: S&P Global Ratings Japan Inc. (FSA commissioner (Rating) No.5)

How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings

The information is posted under "Unregistered Rating Information" (http://www.standardandpoors.co.jp/unregistered) in the "Library and Regulations" section on the website of S&P Global Ratings Japan Inc. (http://www.standardandpoors.co.jp)

Assumptions, Significance and Limitations of Credit Ratings

Credit ratings assigned by Standard & Poor's are statements of opinion on the future credit quality of specific issuers or issues as of the date they are expressed and they are not indexes which show the probability of the occurrence of the failure to pay by the issuer or a specific debt and do not guarantee creditworthiness. Credit ratings are not a recommendation to purchase, sell or hold any securities, or a statement of market liquidity or prices in the secondary market of any issues.

Credit ratings may change depending on various factors, including issuers' performance, changes in external environment, performance of underlying assets, creditworthiness of counterparties and others. Standard & Poor's conducts rating analysis based on information it believes to be provided by the reliable source and assigns credit ratings only when it believes there is enough information in terms of quality and quantity to make a conclusion. However, Standard & Poor's does not perform an audit, due diligence or independent verification of any information it receives from the issuer or a third party, or guarantee its accuracy, completeness or timeliness of the results by using the information. Moreover, it needs to be noted that it may incur a potential risk due to the limitation of the historical data that are available for use depending on the rating.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of March 7th, 2017, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of S&P Global Ratings Japan Inc. (http://www.standardandpoors.co.jp)

[Moody's]

The Name of the Credit Rating Agencies Group, etc

The name of the Credit Rating Agencies group: Moody's Investors Service ("MIS")

The name and registration number of the Registered Credit Rating Agency in the group: Moody's Japan K.K. (FSA commissioner (Rating) No.2)

How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings

The information is posted under "Unregistered Rating explanation" in the section on "The use of Ratings of Unregistered Agencies" on the website of Moody's Japan K.K. (The website can be viewed after clicking on "Credit Rating Business" on the Japanese version of Moody's website (https://www.moodys.com/pages/default_ja.aspx)

Assumptions, Significance and Limitations of Credit Ratings

Credit ratings are Moody's Investors Service's ("MIS") current opinions of the relative future credit risk of entities, credit commitments, or debt or debt-like securities. MIS defines credit risk as the risk that an entity may not meet its contractual, financial obligations as they come due and any estimated financial loss in the event of default. Credit ratings do not address any other risk, including but not limited to: liquidity risk, market value risk, or price volatility. Credit ratings do not constitute investment or financial advice, and credit ratings are not recommendations to purchase, sell, or hold particular securities. No warranty, express or implied, as to the accuracy, timeliness, completeness, merchantability or fitness for any particular purpose of any such rating or other opinion or information, is given or made by MIS in any form or manner whatsoever.

Based on the information received from issuers or from public sources, the credit risks of the issuers or obligations are assessed. MIS adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MIS considers to be reliable. However, MIS is not an auditor and cannot in every instance independently verify or validate information received in the rating process.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of April 16th, 2018, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of Moody's Japan K.K. (https://www.moodys.com/pages/default_ja.aspx)

[Fitch]

The Name of the Credit Rating Agencies group, etc

The name of the Credit Rating Agencies group: Fitch Ratings ("Fitch")

The name and registration number of the Registered Credit Rating Agency in the group: Fitch Ratings Japan Limited (FSA commissioner (Rating) No.7)

How to acquire information related to an outline of the rating policies and methods adopted by the person who determines Credit Ratings

The information is posted under "Outline of Rating Policies" in the section of "Regulatory Affairs" on the website of Fitch Ratings Japan Limited (https://www.fitchratings.com/site/japan)

Assumptions, Significance and Limitations of Credit Ratings

Ratings assigned by Fitch are opinions based on established criteria and methodologies. Ratings are not facts, and therefore cannot be described as being "accurate" or "inaccurate". Credit ratings do not directly address any risk other than credit risk. Credit ratings do not comment on the adequacy of market price or market liquidity for rated instruments. Ratings are relative measures of risk; as a result, the assignment of ratings in the same category to entities and obligations may not fully reflect small differences in the degrees of risk. Credit ratings, as opinions on relative ranking of vulnerability to default, do not imply or convey a specific statistical probability of default.

In issuing and maintaining its ratings, Fitch relies on factual information it receives from issuers and underwriters and from other sources Fitch believes to be credible. Fitch conducts a reasonable investigation of the factual information relied upon by it in accordance with its ratings methodology, and obtains reasonable verification of that information from independent sources, to the extent such sources are available for a given security or in a given jurisdiction. The assignment of a rating to any issuer or any security should not be viewed as a guarantee of the accuracy, completeness, or timeliness of the information relied on in connection with the rating or the results obtained from the use of such information. If any such information should turn out to contain misrepresentations or to be otherwise misleading, the rating associated with that information may not be appropriate. Despite any verification of current facts, ratings can be affected by future events or conditions that were not anticipated at the time a rating was issued or affirmed.

For the details of assumption, purpose and restriction of credit ratings, please refer to "Definitions of ratings and other forms of opinion" on the website of Fitch Rating Japan Limited.

This information is based on information Daiwa Securities Co. Ltd. has received from sources it believes to be reliable as of September 27th, 2019, but it does not guarantee accuracy or completeness of this information. For details, please refer to the website of Fitch Rating Japan Limited (https://www.fitchratings.com/site/japan)

February 2020