

Long-Term Issuer Rating: A-
Outlook: negative

Short-Term Rating: L2

Preferred Sen. Unsec. Debt: A-
Non-Preferred Sen. Unsec. Debt: BBB+
Tier 2 Capital: BB+
AT1 Capital: BB

26 November 2020

Rating Action:

Creditreform Rating downgrades Banco Santander's (Group) long-term issuer rating by one notch to 'A-' (Outlook: negative) and adjusted the credit rating of Banco Santander Totta accordingly. The ratings of the subsidiary Banco Popular Espanol was set to "not rated".

Creditreform Rating (CRA) has downgraded Banco Santander's long-term issuer rating to 'A-' from 'A' and affirmed the short-term rating at 'L2'. The rating outlook was revised from watch negative to negative.

At the same time, we downgrade Banco Santander's 'senior preferred unsecured' debt instruments to 'A-' from 'A' and the non-preferred senior unsecured to 'BBB+' from 'A-'. In addition, Tier 2 capital was downgraded to 'BB+' from 'BBB-' and AT1 capital to 'BB' from 'BB+'. Concurrently we downgrade the issuer rating of the Group's subsidiary Banco Santander Totta S.A., which reflects Banco Santander (Group) issuer rating, in line with our methodology. By contrast, the Long-Term Issuer Rating, the Short-Term Issuer Rating as well as the Ratings of Bank Capital and Debt Instruments of Banco Popular Espanol S.A. has been withdrawn and set to "not rated" – "n.r."

Please find a complete list of rating actions regarding the bank and its affected subsidiaries at the end of this rating update.

Key Rating Driver

CRA has revised the rating of Banco Santander S.A. and its bank capital and debt instruments as a result of its periodic monitoring process for the following reasons:

- Very high impairments on assets in 2020
- Many geographical regions of the loan portfolio are significantly affected by the Covid19 pandemic
- Capital ratios remain below average
- Interest income will not reach pre-crisis levels for a while

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Rating Considerations and Rationale

Banco Santander's credit rating downgrade was primarily driven by its lower profitability and the higher impairments on its loan portfolio and on goodwill. We therefore consider that Banco Santander's annual results will not reach the pre-crisis level for a while.

Profitability

The Bank has steadily increased its interest income in recent years. Banco Santander benefited in particular from its strong South American business, which allowed higher interest margins

than in Europe. The reduced personnel costs in South America also enabled the Bank to work more efficiently and to achieve a higher ROA and ROE than its European peers.

In 2020 the corona crisis has stopped this growth. Both, interest income and fee and commission income will be lower in 2020 than in 2019. Admittedly the Bank is able to improve its cost structure, but not to the same extent. The high risk provisioning (€9.6 billion) and the goodwill impairments (UK: €6.1 billion, US: €2.33 billion and Poland: €1.19 billion) will lead to a negative year-end result in 2020. In 2021, we do not yet expect the Bank to achieve the same earnings as of the pre-corona crisis. Earnings will likely suffer by the crisis in the upcoming years as well.

Asset Situation and Asset Quality

Banco Santander's asset quality improved slightly in 2019 compared to the previous year. NPLs and RWAs were reduced slightly in relation to total assets. However, this development requires a higher write-down ratio compared to the peer group banks. Loan loss provisions grew in line with the loan portfolio and were adequate in 2019.

However, the Corona crisis led to a deviation from the development in recent years. The coverage ratio increased considerably and was at 76% in Q3/2020 (Q3/2019: 67%). At the same time, the cost of risk increased by more than 25%. Despite the slight reduction of the Bank's NPL ratio compared to the previous year, Banco Santander reports increasing movements of loans from stage 1 to stage 2 classification, which indicates increasing risk. In particular, the loan portfolio in South America and Southern Europe will continue to be strongly affected by the corona crisis in 2021.

Refinancing and Capital Quality

Although regulatory capital ratios increased slightly in 2019, they remained slightly below average. However, the long-term target of a CET1 ratio of 12% was achieved in 2020. With the higher regulatory capital ratios, Banco Santander is approaching the peer group average. Furthermore, the regulatory capital ratios have sufficient buffer to the SREP minimum capital requirements, mainly due to the Covid adjustments. This higher capital buffer enables Banco Santander a further growth.

The balance sheet equity remains above average. However, due to the expected negative annual result in 2020, the edge on to the peer group will be reduced. Accordingly, the proposed capital increase is essential to ensure adequate capital adequacy.

Liquidity

Banco Santander's liquidity situation is adequate even during the Corona crisis.

Environmental, Social and Governance (ESG) Score Card

Banco Santander has one significant and two moderate ESG rating drivers

- Corporate Governance is identified as a highly significant rating driver. The relevance for the credit rating results from the impact of the Corporate Governance factor on all other ESG factors and the overall well-being of the bank. This sub-factor is rated positive due to Banco Santander strong and sustainable earning figures, the widespread ESG policies and its ambitious ESG targets.

- Corporate Behaviour and Green Financing / Promoting are identified as moderate rating driver. While Green Financing / Promoting is rated neutral due to relatively low amount of green bonds, Coporate Behaviour is rated neutral due the misconduct in recent years due to the banks issues in relation with money laundering.

ESG Score

3,1 / 5

ESG Score Guidance	
> 4,25	Outstanding
>3,5 - 4,25	Above-average
>2,5 - 3,5	Average
>1,75 - 2,5	Substandard
<= 1,75	Poor

Factor	Sub-Factor	Consideration	Relevance Scale 2020	Eval.
Environmental	1.1 Green Financing / Promoting	The sub-factor "Green Financing/Promoting" has a moderate relevance for the credit rating, and is rated neutral in terms of the CRA ESG criteria.	3	()
	1.2 Exposure to Environmental Factors	The sub-factor "Exposure to Environmental Factors" has a low relevance for the credit rating, and is rated neutral in terms of the CRA ESG criteria.	2	()
	1.3 Resource Efficiency	The sub-factor "Resource Efficiency" has no significant relevance for the credit rating, and is rated neutral in terms of the CRA ESG criteria.	1	()

Social	2.1 Human Capital	The sub-factor "Human Capital" has low relevance for the credit rating, and is rated neutral in terms of the CRA ESG criteria.	2	()
	2.2 Social Responsibility	The sub-factor "Social Responsibility" has no significant relevance for the credit rating, and is rated neutral in terms of the CRA ESG criteria.	1	()

Governance	3.1 Corporate Governance	The sub-factor "Corporate Governance" is highly relevant for the credit rating, and is rated positive in terms of the CRA ESG criteria.	4	(+)
	3.2 Corporate Behaviour	The sub-factor "Corporate Behaviour" has a moderate relevance for the credit rating, and is rated negative in terms of the CRA ESG criteria.	3	(-)
	3.3 Corporate Transparency	The sub-factor "Corporate Transparency" has no significant relevance for the credit rating, and is rated positive in terms of the CRA ESG criteria.	1	(+)

ESG Relevance Scale	
5	Highest Relevance
4	High Relevance
3	Moderate Relevance
2	Low Relevance
1	No significant Relevance

ESG Evaluation Guidance	
(+ +)	Strong positive
(+)	Positive
()	Neutral
(-)	Negative
(- -)	Strong negativ

The ESG Score is based on the Methodology "Environmental, Social and Governance Score of Banken (Version 1.0)" of Creditreform Rating AG, which is available on our homepage <https://creditreform-rating.de/en/about-us/regulatory-requirements.html>. In addition, we refer to CRA's position paper "Considering the Impact of ESG Factors".

Outlook

The outlook of the Long-Term Issuer Rating and its bank capital and debt instruments of Banco Santander was revised to 'negative' from 'watch negative'. In the medium term, CRA expects a deterioration in profitability and asset quality, with the recent worldwide lockdowns aggravating the situation. The bank already reported a negative net income in the first nine quarters of 2020, and CRA expects a negative result for the whole of 2020.

In addition, we assume a downturn of economic environment in Banco Santander's markets of operations.

Scenario Analysis

In a scenario analysis, the bank is able to reach an "A+" rating in the "best case" scenario and an "BBB-" rating in the "worst case" scenario. The ratings of bank capital and senior unsecured debt would behave similarly based on our rating mechanism. These ratings are especially sensitive to changes in total equity and to the bank capital and debt structure in general.

We could upgrade Banco Santander's long-term issuer credit rating and its bank capital and debt instruments if we see Banco Santander manages to return to pre-crisis levels. In addition, a continuous improvement of the regulatory equity ratios, the reduction of its non-performing exposures as well as a sustainable and adequate profitability might lead to an upgrade.

By contrast, a downgrade of Banco Santander's long-term issuer credit rating and its bank capital and debt instruments is likely if we see that Banco Santander is not able to reach its profitability level of the pre-crisis periods in the next years. In addition, an increase of write-offs and of the non-performing exposure might lead to a downgrade of the Banco Santander's long-term issuer rating and its bank capital and debt instruments as well.

Best-case scenario: A+

Worst-case scenario: BBB-

Please note:

The scenarios are based on information available at the time of the rating. Within the forecast horizon, circumstances may occur that could lead to a change of the rating out of the indicated range.

CRA's rating actions at a glance

Banco Santander S.A.:

- Long-Term Issuer Rating downgraded to 'A-' from 'A', negative outlook
- Short-term rating affirmed at 'L2'
- Senior unsecured preferred senior unsecured debt downgraded to 'A-' from 'A'
- Non-preferred senior unsecured debt downgraded to 'BBB-' from 'A'
- Tier 2 capital downgraded to 'BB+' from 'BBB-'
- AT1 capital downgraded to 'BB' from 'BB+'

Banco Santander Totta S.A.:

- Long-Term Issuer Rating downgraded to 'A-' from 'A', negative outlook
- Short-term rating affirmed at 'L2'
- Senior unsecured preferred senior unsecured debt downgraded to 'A-' from 'A'
- Non-preferred senior unsecured debt downgraded to 'BBB-' from 'A'
- Tier 2 capital downgraded to 'BB+' from 'BBB-'
- AT1 capital downgraded to 'BB' from 'BB+'

Banco Popular Espanol S.A.:

- Long-Term Issuer Rating set to 'n.r.' from 'A', negative outlook
- Short-term rating set to 'n.r.'
- Senior unsecured preferred senior unsecured debt set to 'n.r.' from 'A'
- Non-preferred senior unsecured debt set to 'n.r.' from 'A'
- Tier 2 capital set to 'n.r.' from 'BBB-'
- AT1 capital set to 'n.r.' from 'BB+'

Ratings Detail

Bank ratings

The bank ratings are dependent on a host of quantitative and qualitative factors. An improvement in either sub-category may result in a higher rating score.

LT Issuer / Outlook / Short-Term **A- / negative / L2**

Bank Capital and Debt Instruments Ratings

The ratings for bank capital and debt instruments are inter alia dependent on subordination and relative size of the instrument class, based on the long-term issuer rating of the bank.

Preferred senior unsecured debt (PSU): **A-**
 Non-preferred senior unsecured debt (NPS): **BBB+**
 Tier 2 (T2): **BB+**
 Additional Tier 1 (AT1): **BB**

Rating History

Please consult our website www.creditreform-rating.de for additional information regarding the dates of publication.

Figure 1: Rating History

Bank Issuer Rating	Rating Date	Result
LT / Outlook / Short-Term (Initial)	15.08.2018	A / stable / L2
Rating Update	22.11.2019	A / stable / L2
Monitoring	24.03.2020	A / NEW / L2
Rating Update	26.11.2020	A- / negative / L2
Bank Capital and Debt Instruments	Rating Date	Result
Senior Unsecured / T2 / AT1 (Initial)	15.08.2018	A / BBB- / BB+
PSU / NPS / T2 / AT1	22.11.2019	A / A- / BBB- / BB+
PSU / NPS / T2 / AT1	24.03.2020	A / A- / BBB- / BB+ (NEW)
PSU / NPS / T2 / AT1	26.11.2020	A- / BBB+ / BB+ / BB
Subsidiaries of the Bank	Rating Date	Result
Banco Popular Español S.A.		
LT / Outlook / Short-Term (Initial)	25.09.2018	A / stable / L2
Rating Update	22.11.2019	A / stable / L2
Monitoring	24.03.2020	A / NEW / L2
Rating Update	26.11.2020	n.r.
Bank Capital and Debt Instruments of Banco Popular Español S.A.		
Senior Unsecured / T2 / AT1 (Initial)	25.09.2018	A / BBB- / BB+
PSU / NPS / T2 / AT1	22.11.2019	A / A- / BBB- / BB+
PSU / NPS / T2 / AT1	24.03.2020	A / A- / BBB- / BB+ (NEW)
PSU / NPS / T2 / AT1	26.11.2020	n.r. / n.r. / n.r. / n.r.

Banco Santander Totta S.A.		
LT / Outlook / Short-Term (Initial)	25.09.2018	A / stable / L2
Rating Update	22.11.2019	A / stable / L2
Monitoring	24.03.2020	A / NEW / L2
Rating Update	26.11.2020	A- / negative / L2
Bank Capital and Debt Instruments of Banco Santander Totta S.A.		
Senior Unsecured / T2 / AT1 (Initial)	25.09.2018	A / BBB- / BB+
PSU / NPS / T2 / AT1	22.11.2019	A / A- / BBB- / BB+
PSU / NPS / T2 / AT1	24.03.2020	A / A- / BBB- / BB+ (NEW)
PSU / NPS / T2 / AT1	26.11.2020	A- / BBB+ / BB+ / BB

Appendix

Figure 2: Group income statement | Source: eValueRate / CRA

Income Statement	2016	2017	2018	%	2019
Income (€m)					
Net Interest Income	31.089	34.296	34.341	+2,7	35.283
Net Fee & Commission Income	10.325	11.597	11.485	+2,6	11.779
Net Insurance Income	63	249	51	> +100	120
Net Trading Income	2.101	1.664	1.797	-14,8	1.531
Equity Accounted Results	444	704	737	-56,0	324
Dividends from Equity Instruments	413	384	370	+44,1	533
Other Income	1.774	1.427	1.671	+84,8	3.088
Operating Income	46.209	50.321	50.452	+4,4	52.658
Expenses (€m)					
Depreciation and Amortisation	2.504	3.866	2.615	+76,8	4.624
Personnel Expense	11.004	12.047	11.865	+2,3	12.141
Tech & Communications Expense	2.362	2.545	2.077	+29,0	2.679
Marketing and Promotion Expense	691	757	646	+6,0	685
Other Provisions	2.508	3.058	2.223	+57,0	3.490
Other Expense	6.657	7.017	7.766	-11,0	6.912
Operating Expense	25.726	29.290	27.192	+12,3	30.531
Operating Profit & Impairment (€m)					
Pre-impairment Operating Profit	20.483	21.031	23.260	-4,9	22.127
Asset Writedowns	9.626	9.259	8.936	+4,7	9.352
Net Income (€m)					
Non-Recurring Income	52	522	0	-	0
Non-Recurring Expense	141	203	123	+88,6	232
Pre-tax Profit	10.768	12.091	14.201	-11,7	12.543
Income Tax Expense	3.282	3.884	4.886	-9,4	4.427
Discontinued Operations	-	-	-	-	-
Net Profit (€m)	7.486	8.207	9.315	-12,9	8.116
Attributable to minority interest (non-controlling interest)	1.282	1.588	1.505	+6,4	1.601
Attributable to owners of the parent	6.204	6.619	7.810	-16,6	6.515

Figure 3: Group key earnings figures | Source: eValueRate / CRA

Income Ratios (%)	2016	2017	2018	%	2019
Cost Income Ratio (CIR)	55,67	58,21	53,90	+4,08	57,98
Cost Income Ratio ex. Trading (CIRex)	58,33	60,20	55,89	+3,83	59,72
Return on Assets (ROA)	0,56	0,57	0,64	-0,11	0,53
Return on Equity (ROE)	7,29	7,68	8,68	-1,34	7,33
Return on Assets before Taxes (ROAbT)	0,80	0,84	0,97	-0,15	0,82
Return on Equity before Taxes (ROEbT)	10,49	11,32	13,23	-1,89	11,33
Return on Risk-Weighted Assets (RORWA)	1,27	1,36	1,57	-0,23	1,34
Return on Risk-Weighted Assets before Taxes (RORWAbT)	1,83	2,00	2,40	-0,33	2,07
Net Interest Margin (NIM)	2,68	2,70	2,67	-0,06	2,62
Pre-Impairment Operating Profit / Assets	1,53	1,46	1,59	-0,14	1,45
Cost of Funds (COF)	2,00	1,67	1,52	+0,05	1,56
Change in %Points					

Figure 4: Development of assets | Source: eValueRate / CRA

Assets (€m)	2016	2017	2018	%	2019
Cash and Balances with Central Banks	104.427	137.273	129.264	-8,2	118.600
Net Loans to Banks	27.847	29.387	25.032	+25,5	31.412
Net Loans to Customers	773.861	830.051	850.611	+5,4	896.515
Total Securities	211.842	226.427	205.993	-1,3	203.246
Total Derivative Assets	83.901	67.067	65.634	+10,2	72.315
Other Financial Assets	37.476	40.629	75.083	+12,3	84.297
Financial Assets	1.239.354	1.330.834	1.351.617	+4,1	1.406.385
Equity Accounted Investments	4.836	6.184	7.588	+15,6	8.772
Other Investments	2.516	2.324	1.563	-37,7	973
Insurance Assets	331	341	534	-9,4	484
Non-current Assets & Discontinued Ops	5.772	15.280	5.426	-15,2	4.601
Tangible and Intangible Assets	50.191	49.333	53.154	+16,5	61.949
Tax Assets	27.678	30.243	30.251	-2,2	29.585
Total Other Assets	8.447	9.766	9.138	+8,8	9.946
Total Assets	1.339.125	1.444.305	1.459.271	+4,3	1.522.695

Figure 5: Development of asset quality | Source: eValueRate / CRA

Asset Ratios (%)	2016	2017	2018	%	2019
Net Loans/ Assets	57,79	57,47	58,29	+0,59	58,88
Risk-weighted Assets/ Assets	43,92	41,89	40,59	-0,84	39,75
NPLs*/ Net Loans to Customers	2,77	2,96	3,73	-0,41	3,32
NPLs*/ Risk-weighted Assets	3,64	4,06	5,65	-0,39	5,26
Potential Problem Loans**/ Net Loans to Customers	1,44	1,41	6,13	-0,50	5,63
Reserves/ NPLs*	113,82	97,54	69,65	+0,21	69,86
Reserves/ Net Loans	3,15	2,88	2,74	-0,26	2,48
Net Write-offs/ Net Loans	1,24	1,12	1,05	-0,01	1,04
Net Write-offs/ Risk-weighted Assets	1,64	1,53	1,51	+0,04	1,55
Net Write-offs/ Total Assets	0,72	0,64	0,61	+0,00	0,61
Level 3 Assets/ Total Assets	0,41	0,53	0,58	+0,21	0,80
Change in %Points					

* NPLs are represented from 2017 onwards by Stage 3 Loans.

** Potential Problem Loans are Stage 2 Loans where available.

Figure 6: Development of refinancing and capital adequacy | Source: eValueRate / CRA

Liabilities (€m)	2016	2017	2018	%	2019
Total Deposits from Banks	111.832	139.515	142.499	-3,0	138.155
Total Deposits from Customers	648.350	724.721	747.736	+5,0	785.454
Total Debt	248.771	239.476	246.619	+6,2	261.977
Derivative Liabilities	82.973	66.266	62.007	+11,8	69.333
Securities Sold, not yet Purchased	-	-	-	-	-
Other Financial Liabilities	109.949	131.705	117.836	+2,1	120.277
Total Financial Liabilities	1.201.875	1.301.683	1.316.697	+4,4	1.375.196
Insurance Liabilities	652	1.117	765	-3,4	739
Non-current Liabilities & Discontinued Ops	-	-	-	-	-
Tax Liabilities	8.373	7.592	8.135	+14,6	9.322
Provisions	14.459	14.489	13.225	+5,8	13.987
Total Other Liabilities	11.067	12.591	13.088	-2,3	12.792
Total Liabilities	1.236.426	1.337.472	1.351.910	+4,4	1.412.036
Total Equity	102.699	106.833	107.361	+3,1	110.659
Total Liabilities and Equity	1.339.125	1.444.305	1.459.271	+4,3	1.522.695

Figure 7: Development of capital ratios | Source: eValueRate / CRA

Capital Ratios (%)	2016	2017	2018	%	2019
Total Equity/ Total Assets	7,67	7,40	7,36	-0,09	7,27
Leverage Ratio	5,00	5,28	5,22	-0,07	5,15
Fully Loaded: Common Equity Tier 1 Ratio (CET1)	10,55	10,84	11,30	+0,35	11,65
Fully Loaded: Tier 1 Ratio (CET1 + AT1)	11,53	12,11	12,80	+0,25	13,05
Fully Loaded: Total Capital Ratio (CET1 + AT1 + T2)	13,87	14,48	14,77	+0,25	15,02
SREP Capital Requirements	7,75	8,65	9,70	-0,01	9,69
MREL / TLAC Ratio	-	-	-	-	-
Change in %Points					

Figure 8: Development of liquidity | Source: eValueRate / CRA

Liquidity (%)	2016	2017	2018	%	2019
Net Loans/ Deposits (LTD)	119,36	114,53	113,76	+0,38	114,14
Interbank Ratio	24,90	21,06	17,57	+5,17	22,74
Liquidity Coverage Ratio	146,00	133,00	158,00	-11,00	147,00
Customer Deposits / Total Funding (excl. Derivates)	56,21	57,01	57,97	+0,53	58,50
Net Stable Funding Ratio (NSFR)	-	-	114,00	-2,00	112,00
Change in %Points					

Regulatory

Creditreform Rating AG was neither commissioned by the rating object nor by any other third party for the rating. The analysis took place on a voluntary basis by Creditreform Rating AG and is to be described in the regulatory sense as an unsolicited rating. The following scheme clarifies the level of participation of the rated entity (rating object):

Unsolicited Credit Rating	
With Rated Entity or Related Third Party Participation	No
With Access to Internal Documents	No
With Access to Management	No

The rating is based on publicly available information and internal evaluation methods for the rated bank. The quantitative analysis is based mainly on the latest annual accounts, interim reports, other investor relations information of the bank, and calculated key figures by eValueRate / CRA. Subject to a peer group analysis were 24 competing institutes.

The information and documents processed met the requirements of the rating system of Creditreform Rating AG as published on the website www.creditreform-rating.de. The rating was carried out on the basis of the rating methodology for [bank ratings as \(Version 2.0\)](#), the methodology for the [rating of bank capital and unsecured debt instruments \(Version 2.0\)](#) as well as the rating methodology for [Environmental, Social and Governance Score for Banks \(Version 1.0\)](#) in conjunction with Creditreform's basic document [Rating Criteria and Definitions \(Version 1.3\)](#).

The complete presentation of the rating methodologies used by Creditreform Rating AG and the basic document Rating Criteria and Definitions (Version 1.3) are published on our homepage:

<https://www.creditreform-rating.de/en/about-us/regulatory-requirements.html>

On 26 November 2020, the rating was presented by the analysts to the rating committee and adopted in a resolution.

The rating result was communicated to Banco Santander S.A. and its subsidiaries, and the preliminary rating report was made available to the bank. There was no change in the rating score.

The rating is valid until withdrawal and is subject to monitoring from the rating date (see cover page). The rating will be comprehensively reviewed at least once every year. Within this period, the rating can be updated.

In 2011 Creditreform Rating AG was registered within the European Union according to EU Regulation 1060/2009 (CRA-Regulation). Based on the registration Creditreform Rating AG (CRA) is allowed to issue credit ratings within the EU and is bound to comply with the provisions of the CRA-Regulation. Rating Endorsement Status:

The rating of Banco Santander S.A. was not endorsed by Creditreform Rating AG from a third country as defined in Article 4 (3) of the CRA-Regulation.

Conflict of Interests

No conflicts of interest were identified during the rating process that might influence the analyses and judgements of the rating analysts involved or any other natural person whose services are placed at the disposal or under the control of Creditreform Rating AG and who are directly involved in credit rating activities or approving credit ratings and rating outlooks.

In case of providing ancillary services to the rated entity, CRA will disclose all ancillary services in the credit rating report.

Rules on the Presentation of Credit Ratings and Rating Outlooks

The approval of credit ratings and rating outlooks follows our internal policies and procedures. In line with our policy "Rating Committee," all credit ratings and rating outlooks are approved by a rating committee based on the principle of unanimity.

To prepare this credit rating, CRA has used following substantially material sources:

1. Aggregated data base by eValueRate
2. Annual Report and interim reports
3. Investors relations information and other publications
4. Website of the rated bank
5. Public and internal market analyses
6. Internet research

There are no other attributes and limitations of the credit rating or rating outlook other than displayed on the CRA website. Furthermore CRA considers satisfactory the quality and extent of information available on the rated entity. In regard to the rated entity Creditreform Rating AG regarded available historical data as sufficient.

Between the disclosure of the credit rating to the rated entity and the public disclosure no amendments were made to the credit rating.

The "Basic data" information card indicates the principal methodology or version of methodology that was used in determining the rating, with a reference to its comprehensive description.

In case where the credit rating is based on more than one methodology or where reference only to the principal methodology might cause investors to overlook other important aspects of the credit rating, including any significant adjustments and deviations, Creditreform Rating AG explains this fact in the credit rating and indicates how the different methodologies or these other aspects are taken into account in the credit rating. This information is integrated in the credit rating report.

The meaning of each rating category, the definition of default or recovery and any appropriate risk warning, including a sensitivity analysis of the relevant key rating assumptions, such as mathematical or correlation assumptions, accompanied by worst-case scenario credit ratings as well as best-case scenario credit ratings are explained in mentioned methodologies and / or in the credit rating report.

The date at which the credit rating was released for distribution for the first time and when it was last updated including any rating outlooks is indicated clearly and prominently in the "Basic data" card as a "Rating action"; first release is indicated as "initial rating", other updates are indicated as an "update", "upgrade or downgrade", "not rated", "confirmed", "selective default" or "default".

In the case of a rating outlook, the time horizon is provided during which a change in the credit rating is expected. This information is available within „Basic data“ information card.

In accordance to Article 11 (2) EU-Regulation (EC) No 1060/2009 registered or certified credit rating agency shall make available in a central repository established by ESMA information on its historical performance data, including the ratings transition frequency, and information about credit ratings issued in the past and on their changes. Requested data are available at the ESMA website: <https://cerep.esma.europa.eu/cerep-web/statistics/defaults.xhtml>.

An explanatory statement of the meaning of Creditreform's default rates are available in the credit rating methodologies disclosed on the website.

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