

BLACKROCK MUNIYIELD INVESTMENT QUALITY FUND
Form N-CSR
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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT

INVESTMENT COMPANIES

Investment Company Act file number: 811-07156

Name of Fund: BlackRock MuniYield Investment Quality Fund (MFT)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

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Registrant's telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 07/31/2018

Date of reporting period: 07/31/2018

Item 1 Report to Stockholders

JULY 31, 2018

ANNUAL REPORT

BlackRock MuniHoldings California Quality Fund, Inc. (MUC)

BlackRock MuniHoldings New Jersey Quality Fund, Inc. (MUJ)

BlackRock MuniYield Investment Quality Fund (MFT)

BlackRock MuniYield Michigan Quality Fund, Inc. (MIY)

BlackRock MuniYield Pennsylvania Quality Fund (MPA)

**Not FDIC Insured May Lose Value No Bank
Guarantee**

The Markets in Review

Dear Shareholder,

In the 12 months ended July 31, 2018, the strongest corporate profits in seven years drove the equity market higher, while rising interest rates constrained bond returns. Though the market's appetite for risk remained healthy, risk-taking was tempered somewhat, as shorter-term, higher-quality securities led the bond market, and U.S. equities outperformed most international stock markets.

Strong equity performance worldwide was driven by synchronized economic growth across the most influential economies. However, volatility in emerging market stocks rose, as U.S.-China trade relations and debt concerns weighed heavily on the Chinese stock market, while Turkey became embroiled in a currency crisis shortly after the end of the reporting period.

Short-term U.S. Treasury interest rates rose the fastest, while longer-term rates slightly increased, leading to a negative return for long-term U.S. Treasuries and a substantial flattening of the yield curve. Many investors are concerned with the flattening yield curve as a harbinger of recession, but given the extraordinary monetary measures in the last decade, we believe a more accurate barometer for the economy is the returns along the risk spectrums in stock and bond markets. Although the fundamentals in credit markets remained relatively solid, investment-grade bonds declined slightly, and high-yield bonds posted modest returns.

In response to rising growth and inflation, the U.S. Federal Reserve (the Fed) increased short-term interest rates three times during the reporting period. The Fed also reduced its \$4.3 trillion balance sheet by approximately \$180 billion during the reporting period, gradually reversing the unprecedented stimulus measures it enacted after the financial crisis. Meanwhile, the European Central Bank announced that its bond-purchasing program would conclude at the end of the year, while also expressing its commitment to low interest rates. In contrast, the Bank of Japan continued to expand its balance sheet through bond purchasing while lowering its expectations for inflation.

The U.S. economy continued to gain momentum despite the Fed's modest reduction of economic stimulus; unemployment declined to 3.9%, wages increased, and the number of job openings reached a record high. Strong economic performance may justify a more rapid pace of rate hikes in 2018, as the headline inflation rate and investors' expectations for inflation have already surpassed the Fed's target of 2.0%.

While U.S. monetary policy is seeking to restrain economic growth and inflation, fiscal policy has produced new sources of growth that could nourish the economy for the next few years. Corporate tax cuts and repatriation of capital held abroad could encourage a virtuous cycle of business spending. Lower individual tax rates coupled with the robust job market may refresh consumer spending.

We continue to believe the primary risks to economic expansion are trade protectionism, rapidly rising interest rates, and geopolitical tension. Given the deflationary forces of technology and globalization, a substantial increase in inflation is unlikely to materialize as long as the unemployment rate remains above 3.0%. However, we are closely monitoring trade protectionism and the rise of populism in Western nations. In particular, the outcome of trade negotiations between the United States and China is likely to influence the global growth trajectory and set the tone for free trade in many other nations.

In this environment, investors need to think globally, extend their scope across a broad array of asset classes, and be nimble as market conditions change. We encourage you to talk with your financial advisor and visit **blackrock.com** for further insight about investing in today's markets.

Sincerely,

Rob Kapito

President, BlackRock Advisors, LLC

Rob Kapito

President, BlackRock Advisors, LLC

Total Returns as of July 31, 2018

| | 6-month | 12-month |
|--|----------------|-----------------|
| U.S. large cap equities (S&P 500® Index) | 0.70% | 16.24% |
| U.S. small cap equities (Russell 2000® Index) | 6.75 | 18.73 |
| International equities (MSCI Europe, Australasia, Far East Index) | (5.12) | 6.40 |
| Emerging market equities (MSCI Emerging Markets Index) | (11.94) | 4.36 |
| 3-month Treasury bills (ICE BofAML 3-Month U.S. Treasury Bill Index) | 0.85 | 1.43 |
| U.S. Treasury securities (ICE BofAML 10-Year U.S. Treasury Index) | (0.95) | (3.66) |
| U.S. investment grade bonds (Bloomberg Barclays U.S. Aggregate Bond Index) | (0.45) | (0.80) |
| Tax-exempt municipal bonds (S&P Municipal Bond Index) | 1.20 | 1.21 |
| U.S. high yield bonds (Bloomberg Barclays U.S. Corporate High Yield 2% Issuer Capped Index) | 0.65 | 2.60 |

Past performance is no guarantee of future results. Index performance is shown for illustrative purposes only. You cannot invest directly in an index.

Table of Contents

| | Page |
|--|-------------|
| <u>The Markets in Review</u> | 2 |
| Annual Report: | |
| <u>Municipal Market Overview</u> | 4 |
| <u>The Benefits and Risks of Leveraging</u> | 5 |
| <u>Derivative Financial Instruments</u> | 5 |
| <u>Fund Summaries</u> | 6 |
| Financial Statements: | |
| <u>Schedules of Investments</u> | 16 |
| <u>Statements of Assets and Liabilities</u> | 42 |
| <u>Statements of Operations</u> | 43 |
| <u>Statements of Changes in Net Assets</u> | 44 |
| <u>Statements of Cash Flows</u> | 47 |
| <u>Financial Highlights</u> | 48 |
| <u>Notes to Financial Statements</u> | 53 |
| <u>Report of Independent Registered Public Accounting Firm</u> | 63 |
| <u>Disclosure of Investment Advisory Agreements</u> | 64 |
| <u>Automatic Dividend Reinvestment Plans</u> | 68 |
| <u>Director and Officer Information</u> | 69 |
| <u>Additional Information</u> | 72 |
| <u>Glossary of Terms Used in this Report</u> | 75 |

Municipal Market Overview For the Reporting Period Ended July 31, 2018

Municipal Market Conditions

Municipal bonds experienced positive performance during the period despite rising interest rates resulting from continued Fed monetary policy normalization, firmer economic data, and the anticipated impacts of fiscal stimulus. Ongoing reassurance from the Fed that rates would be increased gradually and would likely remain low overall resulted in continued demand for fixed income investments. More specifically, investors favored the tax-exempt income, diversification, quality, and value of municipal bonds amid fiscal policy uncertainty, which saw tax reform ultimately lower the top individual tax rate just 2.6% while eliminating deductions and increasing demand for tax shelter. During the 12 months ended July 31, 2018, municipal bond funds experienced net inflows of approximately \$24 billion (based on data from the Investment Company Institute).

For the same 12-month period, total new issuance was moderate from a historical perspective at \$370 billion (well below the \$408 billion issued in the prior 12-month period), but displayed significant month to month volatility. Notably, issuance in December posted the highest monthly total on record at \$56 billion, as issuers rushed deals to market ahead of the expected elimination of the tax-exemption for advanced refunding bonds and possibly private activity bonds (PABs). Ultimately, the final version of the Tax Cuts and Jobs Act left PABs unchanged, though the elimination of advanced refundings has suppressed supply in 2018, providing a powerful technical tailwind.

A Closer Look at Yields

S&P Municipal Bond Index
Total Returns as of July 31, 2018
6 months: 1.20%
12 months: 1.21%

From July 31, 2017 to July 31, 2018, yields on AAA-rated 30-year municipal bonds increased by 27 basis points (bps) from 2.74% to 3.01%, while 10-year rates increased by 50 bps from 1.95% to 2.45% and 5-year rates increased by 76 bps from 1.21% to 1.97% (as measured by Thomson Municipal Market Data). The municipal yield curve bear flattened over the 12-month period with the spread between 2- and 30-year maturities flattening by 41 bps, however remained a significant 72 bps steeper than the corresponding U.S. Treasury curve.

During the same time period, on a relative basis, tax-exempt municipal bonds strongly outperformed U.S. Treasuries with the greatest outperformance experienced in the front and intermediate portions of the yield curve. The relative positive performance of municipal bonds was driven largely by a supply/demand imbalance within the municipal market as investors sought income and incremental yield in an environment where opportunities became increasingly scarce. The asset class is known for its lower relative volatility and preservation of principal with an emphasis on

income as tax rates rise.

Financial Conditions of Municipal Issuers

The majority of municipal credits remain strong, despite well-publicized problems among a few issuers. Four of the five states with the largest amount of debt outstanding—California, New York, Texas and Florida—continue to exhibit improved credit fundamentals. However, several states with the largest unfunded pension liabilities are faced with elevated borrowing costs and difficult budgetary decisions. Across the country on the local level, property values support credit stability. Revenue bonds continue to drive performance as investors continue to seek higher yield bonds in the tobacco sector. BlackRock maintains the view that municipal bond defaults will remain minimal and in the periphery while the overall market is fundamentally sound. We continue to advocate careful credit research and believe that a thoughtful approach to structure and security selection remains imperative amid uncertainty in a modestly improving economic environment.

The opinions expressed are those of BlackRock as of July 31, 2018, and are subject to change at any time due to changes in market or economic conditions. The comments should not be construed as a recommendation of any individual holdings or market sectors. Investing involves risk including loss of principal. Bond values fluctuate in price so the value of your investment can go down depending on market conditions. Fixed income risks include interest-rate and credit risk. Typically, when interest rates rise, there is a corresponding decline in bond values. Credit risk refers to the possibility that the bond issuer will not be able to make principal and interest payments. There may be less information on the financial condition of municipal issuers than for public corporations. The market for municipal bonds may be less liquid than for taxable bonds. Some investors may be subject to Alternative Minimum Tax (AMT). Capital gains distributions, if any, are taxable.

The Standard & Poor's Municipal Bond Index, a broad, market value-weighted index, seeks to measure the performance of the U.S. municipal bond market. All bonds in the index are exempt from U.S. federal income taxes or subject to the AMT. Past performance is no guarantee of future results. Index performance is shown for illustrative purposes only. It is not possible to invest directly in an index.

The Benefits and Risks of Leveraging

The Funds may utilize leverage to seek to enhance the distribution rate on, and net asset value (NAV) of, their common shares (Common Shares). However, there is no guarantee that these objectives can be achieved in all interest rate environments.

In general, the concept of leveraging is based on the premise that the financing cost of leverage, which is based on short-term interest rates, is normally lower than the income earned by a Fund on its longer-term portfolio investments purchased with the proceeds from leverage. To the extent that the total assets of the Funds (including the assets obtained from leverage) are invested in higher-yielding portfolio investments, the Funds' shareholders benefit from the incremental net income. The interest earned on securities purchased with the proceeds from leverage is paid to shareholders in the form of dividends, and the value of these portfolio holdings is reflected in the per share NAV.

To illustrate these concepts, assume a Fund's Common Shares capitalization is \$100 million and it utilizes leverage for an additional \$30 million, creating a total value of \$130 million available for investment in longer-term income securities. If prevailing short-term interest rates are 3% and longer-term interest rates are 6%, the yield curve has a strongly positive slope. In this case, a Fund's financing costs on the \$30 million of proceeds obtained from leverage are based on the lower short-term interest rates. At the same time, the securities purchased by a Fund with the proceeds from leverage earn income based on longer-term interest rates. In this case, a Fund's financing cost of leverage is significantly lower than the income earned on a Fund's longer-term investments acquired from such leverage proceeds, and therefore the holders of Common Shares (Common Shareholders) are the beneficiaries of the incremental net income.

However, in order to benefit Common Shareholders, the return on assets purchased with leverage proceeds must exceed the ongoing costs associated with the leverage. If interest and other costs of leverage exceed the Funds' return on assets purchased with leverage proceeds, income to shareholders is lower than if the Funds had not used leverage. Furthermore, the value of the Funds' portfolio investments generally varies inversely with the direction of long-term interest rates, although other factors can influence the value of portfolio investments. In contrast, the value of the Funds' obligations under their respective leverage arrangements generally does not fluctuate in relation to interest rates. As a result, changes in interest rates can influence the Funds' NAVs positively or negatively. Changes in the future direction of interest rates are very difficult to predict accurately, and there is no assurance that the Funds' intended leveraging strategy will be successful.

The use of leverage also generally causes greater changes in each Fund's NAV, market price and dividend rates than comparable portfolios without leverage. In a declining market, leverage is likely to cause a greater decline in the NAV and market price of a Fund's Common Shares than if the Fund were not leveraged. In addition, each Fund may be required to sell portfolio securities at inopportune times or at distressed values in order to comply with regulatory requirements applicable to the use of leverage or as required by the terms of leverage instruments, which may cause the Fund to incur losses. The use of leverage may limit a Fund's ability to invest in certain types of securities or use certain types of hedging strategies. Each Fund incurs expenses in connection with the use of leverage, all of which are borne by Common Shareholders and may reduce income to the Common Shares. Moreover, to the extent the calculation of the Funds' investment advisory fees includes assets purchased with the proceeds of leverage, the investment advisory fees payable to the Funds' investment adviser will be higher than if the Funds did not use leverage.

To obtain leverage, each Fund has issued Variable Rate Demand Preferred Shares (VRDP Shares), Variable Rate Muni Term Preferred Shares (VMTP Shares) (collectively, Preferred Shares) and/or leveraged its assets through the use of tender option bond trusts (TOB Trusts) as described in the Notes to Financial Statements.

Under the Investment Company Act of 1940, as amended (the 1940 Act), each Fund is permitted to issue debt up to 33 1/3% of its total managed assets or equity securities (e.g., Preferred Shares) up to 50% of its total managed assets. A Fund may voluntarily elect to limit its leverage to less than the maximum amount permitted under the 1940 Act. In addition, a Fund may also be subject to certain asset coverage, leverage or portfolio composition requirements imposed by the Preferred Shares governing instruments or by agencies rating the Preferred Shares, which may be more stringent than those imposed by the 1940 Act.

If a Fund segregates or designates on its books and records cash or liquid assets having a value not less than the value of a Fund's obligations under the TOB Trust (including accrued interest), then the TOB Trust is not considered a senior security and is not subject to the foregoing limitations and requirements imposed by the 1940 Act.

Derivative Financial Instruments

The Funds may invest in various derivative financial instruments. These instruments are used to obtain exposure to a security, commodity, index, market, and/or other assets without owning or taking physical custody of securities, commodities and/or other referenced assets or to manage market, equity, credit, interest rate, foreign currency exchange rate, commodity and/or other risks. Derivative financial instruments may give rise to a form of economic leverage and involve risks, including the imperfect correlation between the value of a derivative financial instrument and the underlying asset, possible default of the counterparty to the transaction or illiquidity of the instrument. The Funds' successful use of a derivative financial instrument depends on the investment adviser's ability to predict pertinent market movements accurately, which cannot be assured. The use of these instruments may result in losses greater than if they had not been used, may limit the amount of appreciation a Fund can realize on an investment and/or may result in lower distributions paid to shareholders. The Funds' investments in these instruments, if any, are discussed in detail in the Notes to Financial Statements.

Fund Summary as of July 31, 2018

BlackRock MuniHoldings California Quality Fund, Inc.**Fund Overview**

BlackRock MuniHoldings California Quality Fund, Inc. s (MUC) (the **Fund**) investment objective is to provide shareholders with current income exempt from U.S. federal income taxes and California personal income taxes. The Fund seeks to achieve its investment objective by investing primarily in municipal obligations exempt from U.S. federal income taxes (except that the interest may be subject to the U.S. federal alternative minimum tax) and California personal income taxes. Under normal market conditions, the Fund invests at least 80% of its assets in investment grade municipal obligations with remaining maturities of one year or more at the time of investment. The municipal obligations in which the Fund primarily invests are either rated investment grade quality, or are considered by the Fund s investment adviser to be of comparable quality, at the time of investment. The Fund may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Fund s investment objective will be achieved.

Fund Information

| | |
|--|-------------------|
| Symbol on New York Stock Exchange (NYSE) | MUC |
| Initial Offering Date | February 27, 1998 |
| Yield on Closing Market Price as of July 31, 2018 (\$13.07) ^(a) | 4.36% |
| Tax Equivalent Yield ^(b) | 9.50% |
| Current Monthly Distribution per Common Share ^(c) | \$0.0475 |
| Current Annualized Distribution per Common Share ^(c) | \$0.5700 |
| Economic Leverage as of July 31, 2018 ^(d) | 42% |

^(a) Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

^(b) Tax equivalent yield assumes the maximum marginal U.S. federal and state tax rate of 54.1%, which includes the 3.8% Medicare tax. Actual tax rates will vary based on income, exemptions and deductions. Lower taxes will result in lower tax equivalent yields.

^(c) The distribution rate is not constant and is subject to change.

^(d) Represents VMTP Shares and TOB Trusts as a percentage of total managed assets, which is the total assets of the Fund, including any assets attributable to VMTP Shares and TOB Trusts, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Fund, please see The Benefits and Risks of Leveraging on page 5.

Performance

Returns for the 12 months ended July 31, 2018 were as follows:

| | Returns Based On | |
|---|---------------------|------------|
| | <i>Market Price</i> | <i>NAV</i> |
| MUC ^{(a)(b)} | (7.03)% | 1.54% |
| Lipper California Municipal Debt Funds ^(c) | (6.07) | 1.15 |

- (a) All returns reflect reinvestment of dividends and/or distributions at actual reinvestment prices.
- (b) The Fund's discount to NAV widened during the period, which accounts for the difference between performance based on market price and performance based on NAV.
- (c) Average return. Returns reflect reinvestment of dividends and/or distributions at NAV on the ex-dividend as calculated by Lipper.

Performance results may include adjustments made for financial reporting purposes in accordance with U.S. generally accepted accounting principles.

Past performance is not indicative of future results.

The following discussion relates to the Fund's absolute performance based on NAV:

The U.S. municipal bond market posted a narrow gain in the 12-month period, with the contribution from yield offsetting negative price performance. Although tax-exempt issues sold off sharply in early 2018 due to a spike in U.S. Treasury yields, the market was supported by the improving fundamentals of state and local issuers, as well as low new-issue supply from January onward. Short-term bonds, which have above-average sensitivity to Fed policy, generally lagged longer-term issues.

After a period of outperformance, California municipal bonds trailed the national market over the past 12 months due to the combination of richer valuations, tighter yield spreads, and significant new-issue supply.

Positions in high-grade, long-maturity bonds, especially those with shorter call dates, were the largest contributors to returns. (A call is when an issuer redeems a bond prior to its maturity date.) Such bonds outperformed in the sell-off, and then their prices quickly rebounded to account for the increased likelihood of being called after interest rates steadied. Health care and community college district bonds with these characteristics made even larger contributions, as their higher yield spreads led to both additional income and stronger relative price performance.

The Fund sought to manage interest rate risk using U.S. Treasury futures. Given that Treasury yields rose, as prices fell, this aspect of the Fund's positioning had a positive effect on returns.

The Fund's use of leverage, while amplifying the impact of weak price performance, was a net contributor since it provided additional income. However, the cost of leverage increased due to rising short-term rates.

Positions in certain pre-refunded securities detracted from performance, as their short maturities were a headwind at a time of increasing interest rates. The Fund continued to hold the positions due to their attractive yields. The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Fund Summary as of July 31, 2018 (continued)

BlackRock MuniHoldings California Quality Fund, Inc.

Market Price and Net Asset Value Per Share Summary

| | <i>07/31/18</i> | <i>07/31/17</i> | <i>Change</i> | <i>High</i> | <i>Low</i> |
|-----------------|-----------------|-----------------|---------------|-------------|------------|
| Market Price | \$ 13.07 | \$ 14.75 | (11.39)% | \$ 15.19 | \$ 12.99 |
| Net Asset Value | 15.03 | 15.53 | (3.22) | 15.71 | 14.84 |

Market Price and Net Asset Value History For the Past Five Years**Overview of the Fund's Total Investments*****SECTOR ALLOCATION**

| <i>Sector</i> | <i>07/31/18</i> | <i>07/31/17</i> |
|--|-----------------|-----------------|
| County/City/Special District/School District | 37% | 37% |
| Health | 19 | 18 |
| Utilities | 16 | 16 |
| Transportation | 13 | 18 |
| Education | 8 | 4 |
| State | 6 | 5 |
| Corporate | 1 | 2 |

For Fund compliance purposes, the Fund's sector classifications refer to one or more of the sector sub-classifications used by one or more widely recognized market indexes or rating group indexes, and/or as defined by the investment adviser. These definitions may not apply for purposes of this report, which may combine such sector sub-classifications for reporting ease.

CALL/MATURITY SCHEDULE ^(c)

| Calendar Year Ended December 31, | |
|----------------------------------|----|
| 2018 | 4% |
| 2019 | 13 |
| 2020 | 4 |
| 2021 | 13 |
| 2022 | 4 |

^(c) Scheduled maturity dates and/or bonds that are subject to potential calls by issuers over the next five years.

* Excludes short-term securities.

CREDIT QUALITY ALLOCATION ^(a)

| <i>Credit Rating</i> | <i>07/31/18</i> | <i>07/31/17</i> |
|----------------------|-----------------|-----------------|
| AAA/Aaa | 14% | 14% |
| AA/Aa | 67 | 70 |
| A | 12 | 13 |
| BBB/Baa | 2 | 2 |
| N/R ^(b) | 5 | 1 |

(a) For financial reporting purposes, credit quality ratings shown above reflect the highest rating assigned by either Standard & Poor's (S&P) or Moody's Investors Service (Moody's) if ratings differ. These rating agencies are independent, nationally recognized statistical rating organizations and are widely used. Investment grade ratings are credit ratings of BBB/Baa or higher. Below investment grade ratings are credit ratings of BB/Ba or lower. Investments designated N/R are not rated by either rating agency. Unrated investments do not necessarily indicate low credit quality. Credit quality ratings are subject to change.

(b) The investment adviser evaluates the credit quality of unrated investments based upon certain factors including, but not limited to, credit ratings for similar investments and financial analysis of sectors and individual investments. Using this approach, the investment adviser has deemed certain of these unrated securities as investment grade quality. As of July 31, 2018 and July 31, 2017, the market value of unrated securities deemed by the investment adviser to be investment grade each represents less than 1% of the Fund's total investments.

Fund Summary as of July 31, 2018

BlackRock MuniHoldings New Jersey Quality Fund, Inc.

Fund Overview

BlackRock MuniHoldings New Jersey Quality Fund, Inc. s (MUJ) (the Fund) investment objective is to provide shareholders with current income exempt from U.S. federal income tax and New Jersey personal income taxes. The Fund seeks to achieve its investment objective by investing primarily in long-term, investment grade municipal obligations exempt from U.S federal income taxes (except that the interest may be subject to the U.S. federal alternative minimum tax) and New Jersey personal income taxes. The municipal obligations in which the Fund primarily invests are either rated investment grade quality, or are considered by the Fund s investment adviser to be of comparable quality, at the time of investment. Under normal market conditions, the Fund invests at least 80% of its assets in municipal obligations with remaining maturities of one year or more at the time of investment. The Fund may invest directly in such securities or synthetically through the use of derivatives.

No assurance can be given that the Fund s investment objective will be achieved.

Fund Information

| | |
|--|----------------|
| Symbol on NYSE | MUJ |
| Initial Offering Date | March 11, 1998 |
| Yield on Closing Market Price as of July 31, 2018 (\$12.90) ^(a) | 4.88% |
| Tax Equivalent Yield ^(b) | 9.72% |
| Current Monthly Distribution per Common Share ^(c) | \$0.0525 |
| Current Annualized Distribution per Common Share ^(c) | \$0.6300 |
| Economic Leverage as of July 31, 2018 ^(d) | 39% |

^(a) Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

^(b) Tax equivalent yield assumes the maximum marginal U.S. federal and state tax rate of 49.77%, which includes the 3.8% Medicare tax. Actual tax rates will vary based on income, exemptions and deductions. Lower taxes will result in lower tax equivalent yields.

^(c) The distribution rate is not constant and is subject to change.

^(d) Represents VRDP Shares and TOB Trusts as a percentage of total managed assets, which is the total assets of the Fund, including any assets attributable to VRDP Shares and TOB Trusts, minus the sum of accrued liabilities. For a discussion of leveraging techniques utilized by the Fund, please see The Benefits and Risks of Leveraging on page 5.

Performance

Returns for the 12 months ended July 31, 2018 were as follows:

| | Returns Based On | |
|---|------------------|-------|
| | Market Price | NAV |
| MUJ ^{(a)(b)} | (8.55)% | 3.52% |
| Lipper New Jersey Municipal Debt Funds ^(c) | (5.76) | 2.25 |

- (a) All returns reflect reinvestment of dividends and/or distributions at actual reinvestment prices.
- (b) The Fund's discount to NAV widened during the period, which accounts for the difference between performance based on market price and performance based on NAV.
- (c) Average return. Returns reflect reinvestment of dividends and/or distributions at NAV on the ex-dividend as calculated by Lipper.

Performance results may include adjustments made for financial reporting purposes in accordance with U.S. generally accepted accounting principles.

Past performance is not indicative of future results.

The following discussion relates to the Fund's absolute performance based on NAV:

The U.S. municipal bond market posted a narrow gain in the 12-month period, with the contribution from yield offsetting negative price performance. Although tax-exempt issues sold off sharply in early 2018 due to a spike in U.S. Treasury yields, the market was supported by the improving fundamentals of state and local issuers, as well as low new-issue supply from January onward.

New Jersey bonds outpaced the national market due in part to investors' positive reaction to legislation that redirected roughly \$1 billion annually in lottery proceeds to the state's pension funds.

Given that bond prices declined somewhat, the Fund's return was primarily derived from income. The Fund's use of leverage, while amplifying the impact of weak price performance, provided additional income and was therefore a net contributor. However, the cost of leverage increased due to rising short-term interest rates.

The Fund sought to manage interest rate risk using U.S. Treasury futures. Since Treasury yields rose, as prices fell, this aspect of the Fund's positioning had a positive effect on returns.

At the sector level, positions in state tax-backed issues made the largest contribution to performance, followed by transportation and education.

Long-term bonds outperformed short-term debt, leading to a flattening of the yield curve. In this environment, the Fund's positions in bonds with maturities of 20 years and above generated positive returns. Longer-bonds' stronger performance also reflected their higher yields versus the market as a whole. Conversely, the Fund's positions in shorter-maturity debt weighed on results as interest rate increases by the Fed continued to push short-term yields higher.

Positions in higher-yielding, lower-rated bonds performed well and outpaced the broader market. The category was boosted by improving credit fundamentals and the combination of strong investor demand and limited new-issue supply. Overall, however, the Fund's emphasis on higher-quality bonds was a headwind to performance.

Reinvestment had an adverse effect on the Fund's income, as the proceeds of higher-yielding bonds that matured or were called needed to be reinvested at lower prevailing rates.

The views expressed reflect the opinions of BlackRock as of the date of this report and are subject to change based on changes in market, economic or other conditions. These views are not intended to be a forecast of future events and are no guarantee of future results.

Fund Summary as of July 31, 2018 (continued)

BlackRock MuniHoldings New Jersey Quality Fund, Inc.**Market Price and Net Asset Value Per Share Summary**

| | <i>07/31/18</i> | <i>07/31/17</i> | <i>Change</i> | <i>High</i> | <i>Low</i> |
|-----------------|-----------------|-----------------|---------------|-------------|------------|
| Market Price | \$ 12.90 | \$ 14.88 | (13.31)% | \$ 14.95 | \$ 12.90 |
| Net Asset Value | 15.28 | 15.57 | (1.86) | 15.84 | 15.05 |

Market Price and Net Asset Value History For the Past Five Years**Overview of the Fund's Total Investments*****SECTOR ALLOCATION**

| <i>Sector</i> | <i>07/31/18</i> | <i>07/31/17</i> |
|--|-----------------|-----------------|
| Transportation | 28% | 27% |
| Education | 18 | 20 |
| State | 18 | 19 |
| County/City/Special District/School District | 14 | 14 |
| Health | 10 | 12 |
| Housing | 5 | 4 |
| Utilities | 3 | 2 |

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Financial Statements

December 31, 2017

BRGAAP in R\$ (English)

Table of Contents

Vale S.A. Financial Statements

Contents

| | Page |
|---|-------------|
| <u>Independent auditor's report on the financial statements</u> | 3 |
| <u>Consolidated and Parent Company Income Statement</u> | 12 |
| <u>Consolidated and Parent Company Statement of Comprehensive Income</u> | 13 |
| <u>Consolidated and Parent Company Statement of Cash Flows</u> | 14 |
| <u>Consolidated and Parent Company Statement of Financial Position</u> | 15 |
| <u>Consolidated Statement of Changes in Equity</u> | 16 |
| <u>Consolidated and Parent Company Value Added Statement</u> | 17 |
| <u>Notes to the Financial Statements</u> | 18 |
| <u>1. Corporate information</u> | |
| <u>2. Basis for preparation of the financial statements</u> | |
| <u>3. Information by business segment and by geographic area</u> | |
| <u>4. Special events occurred during the year</u> | |
| <u>5. Costs and expenses by nature</u> | |
| <u>6. Financial results</u> | |
| <u>7. Deferred revenue - Gold stream transaction</u> | |
| <u>8. Income taxes</u> | |
| <u>9. Basic and diluted earnings (loss) per share</u> | |
| <u>10. Accounts receivable</u> | |
| <u>11. Inventories</u> | |
| <u>12. Recoverable taxes</u> | |
| <u>13. Other financial assets and liabilities</u> | |
| <u>14. Non-current assets and liabilities held for sale and discontinued operations</u> | |
| <u>15. Investments</u> | |
| <u>16. Noncontrolling interest</u> | |
| <u>17. Intangibles</u> | |
| <u>18. Property, plant and equipment</u> | |
| <u>19. Impairment and onerous contracts</u> | |
| <u>20. Loans, borrowings, cash and cash equivalents and financial investments</u> | |
| <u>21. Liabilities related to associates and joint ventures</u> | |
| <u>22. Financial instruments classification</u> | |
| <u>23. Fair value estimate</u> | |
| <u>24. Derivative financial instruments</u> | |
| <u>25. Provisions</u> | |
| <u>26. Asset retirement obligations</u> | |
| <u>27. Litigation</u> | |
| <u>28. Employee benefits</u> | |
| <u>29. Stockholders' equity</u> | |
| <u>30. Related parties</u> | |
| <u>31. Commitments</u> | |
| <u>32. Risk management</u> | |
| <u>33. Additional information about derivatives financial instruments</u> | |

Table of Contents

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Independent auditor s report on the financial statements

To The Stockholders, Board Members and Management of

Vale S.A.

Rio de Janeiro - RJ

Opinion

We have audited the individual and consolidated financial statements of Vale S.A. (the Company), identified as Parent Company and Consolidated, respectively, which comprise the individual and consolidated balance sheet as of December 31, 2017, the statements of income, comprehensive income, changes in equity and cash flows for the year then ended, and notes comprising significant accounting policies and other explanatory information. In our opinion, the aforementioned financial statements present fairly, in all material respects, the individual and consolidated financial position of Vale S.A. as of December 31, 2017, and of its individual and consolidated financial performance and its individual and consolidated cash flows for the year then ended in accordance with accounting practices adopted in Brazil and in accordance with International Financial Reporting Standards (IFRS), as issued by the International Accounting Standards Board - IASB.

Basis for Opinion

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We conducted our audit in accordance with Brazilian and International Standards on Auditing. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the individual and consolidated Financial Statements section of our report. We are independent of the Company and its subsidiaries in accordance with the ethical requirements of Ethics Standards Boards for Accountants and Professional Standard issued by Federal Accounting Council, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

KPMG Auditores Independentes, uma sociedade simples brasileira e
firma-membro da rede KPMG de firmas-membro independentes e afiliadas à
KPMG International Cooperative (KPMG International), uma entidade suíça.

*KPMG Auditores Independentes, a Brazilian entity and a member firm of the
KPMG network of independent member firms affiliated with KPMG
International Cooperative (KPMG International), a Swiss entity.*

Table of Contents

Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the current period. These matters were addressed in the context of our audit of the individual and consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

1. Impairment - Individual and consolidated financial statements

As per Notes 17,18 and 19 to the financial statements

Matter

The assessment with respect to the recoverability of property, plant and equipment (PP&E), intangible assets and goodwill, and definition of Cash-Generating Units (CGUs) encompasses significant judgments concerning factors related to the level of future production, commodities price, production cost and economic assumptions such as discount rates, inflation rates and exchange rates of the countries where the Company operates. Due to the materiality of PP&E, intangible assets and goodwill, and to the level of uncertainty for determining the related impairment, which may impact the value of those assets in the individual and consolidated financial statements and the value of the investment recorded under the equity pick-up method in the parent company s financial statements, we considered this subject as a significant matter for the audit.

Our procedures included, among others:

- Design, implementation and operating effectiveness testing of the relevant internal controls on the valuation of the Company s assets, including those aimed at identifying the need for recording or reversing impairment;
- Assessment of the Company s assumptions and estimates to determine the recoverable value of its assets, including the ones related to production, production cost, capital investments, discount rates and exchange rates;
- Assessment of the definition and identification criteria for Cash-Generating Units (CGUs);

- Assessment, with the support of our specialists in economic and financial assumptions, of the cash flow forecast, reasonableness and consistency of the assumptions used in the preparation of the cash flow forecasts and comparison of those assumptions with market information. Based on our knowledge of the Company and Industry, preparation of sensitivity analysis;
- Arithmetic checking of the economic models regarding future cash flows and forecast results, combining them with accounting information and management reports and approved business plans; and
- Appropriateness assessment of the disclosure in relation to the testing of the value in use and the comparison of the latter with the fair value, net of costs to sell, in the applicable cases.

Table of Contents

Based on the evidence obtained through the summarized procedures above, we considered acceptable the balances presented for property, plant and equipment, intangible assets and goodwill, as well as the respective disclosures in the accompanying notes, in the context of the individual and consolidated financial statements taken as a whole, for the year ended December 31, 2017.

2. Asset Retirement Obligation (ARO) - Individual and consolidated financial statements

As per Notes 25 and 26 to the financial statements

Matter

As a result of its operations, the Company incurs in obligations to restore and rehabilitate the environment on retiring the areas. The areas and environment rehabilitation is required by the combination of both the legislation in force and the Company's policies. Estimating costs related to those future activities requires considerable judgment in relation to factors such as how long a certain area will be used, the time required to rehabilitate and certain economic assumptions such as the discount rate and foreign currency exchange rates. Due to the relevance of the asset retirement obligations and the level of uncertainty for the determination of its estimate, which may impact the amount of this provision in the individual and consolidated financial statements and the amount of the investment recorded under the equity pick-up method in the financial statements of the parent company, we consider this subject as a significant matter for the audit.

Our procedures included, among others:

- Design, implementation and operating effectiveness testing of the relevant internal controls related to the determination of estimates for the asset retirement obligation provision to restore and rehabilitate areas commercially exploited by the Company;
- Analysis of assumptions used, including the base cost of the areas to be left, inflation rates, discount rates and risk rates;
- Analysis of the provision movement for the year related to the retired, restored/rehabilitated areas, and the relevant environmental obligation, aiming at verifying the primary inputs such as costs, inflation and discount rates, as well as an approved retirement plan; and

- Evaluate, with the support of our corporate finance specialists, the reasonableness and consistency of the assumptions used in preparation of the estimative of the asset retirement obligation provision in the areas commercially exploited by the Company;
- Arithmetic review of the estimative results, comparing them with the accounting information and management reports; and
- Appropriateness assessment of the disclosure in relation to the obligations to rehabilitate the environment on retiring the areas.

Table of Contents

Based on the evidence obtained through the procedures described above, we considered acceptable the balance of the asset retirement obligation provision to restore and rehabilitate areas commercially exploited by the Company, in the context of the individual and consolidated financial statements taken as a whole, for the year ended December 31, 2017.

3. Income taxes - Individual and consolidated financial statements

As per Note 8 to the financial statements.

Matter

The Company has operations in various countries, each one with its own taxation regime. The nature of the Company's activities triggers various tax liabilities, including tax on income, and social contributions. The nature of the Company's commodities export operations also create complexities related to international transfer pricing issues. Applying tax legislation is a complex and highly specialized activity, which requires judgment for the assessment of tax exposure estimates and for quantification of contingent liabilities. Due to the level of uncertainty and judgment involved in determining this estimate that may impact the amount recorded in the individual and consolidated financial statements and the amount of the investment recorded under the equity pick-up method in the parent company's financial statements, we consider this subject as a significant matter for the audit.

Our procedures included, among others:

- Design, implementation and operating effectiveness testing of the relevant internal controls related to the determination of estimates for recording the amounts of provisions for taxes and contributions payable and taxes to be offset by the Company;
- With the support of our specialists from the tax department, we assess the criteria used for determining and paying taxes and contributions and the assumptions used by the Company to determine the provisions and amounts disclosed as tax exposure and contingencies;
- We compare the assumptions used by the Company with the tax legislation applicable to each jurisdiction, and in relation to market practices and assessments performed by ourselves, based on our knowledge of and experience in the Company's operations in the use of the aforementioned legislation and on applicable precedents and sentences; and

- Assessment of the appropriateness of the Company's disclosures, particularly disclosures regarding current and deferred taxes and contributions and possible tax exposure.

Based on the evidence obtained through the summarized procedures above, we considered acceptable the balance of deferred taxes and contributions payable on income in the context of the individual and consolidated financial statements taken as a whole, for the year ended December 31, 2017.

Table of Contents

4. Provisions for litigation and disclosures of contingent liabilities - Individual and consolidated financial statements

As per Note 27 to the financial statements

Matter

The Company is a party (as defendant) to various litigation of tax, civil and labor nature deriving from the ordinary course of its activities. The measurement, accounting recognition of a provision, and the disclosures of Provisions and Contingent Liabilities, related to the aforementioned litigation, require judgment from the Company's professionals and from its legal advisors with respect to the integrity of the existing cases, the appropriateness of the provisions recorded and their corresponding disclosures. Due to the materiality, complexity and judgment involved in the assessment and measurement of the Provisions and Contingent Liabilities, which may impact the amount recorded in the individual and consolidated financial statements and the amount of the investment recorded under the equity pick-up method in the financial statements of the parent company and, the disclosures of contingent liabilities, we consider this subject as a significant matter for the audit.

Our procedures included, among others:

- Design, implementation and operating effectiveness testing of the internal control related to the determination of estimates for recording the amounts in accordance with the loss prognosis for the lawsuits;
- Assessment of the sufficiency of provisions recognized and the amount of contingent liabilities disclosed, by means of analysis of criteria and assumptions used for measuring amounts recorded as provision and/or amounts disclosed, and took into account the assessments prepared by the Company's internal and external legal advisors, and comparison with the existing precedents;
- Assess the analysis of chances of loss regarding existing documentation and information related to the principal proceedings and complaints involving the Company through external confirmation of balances with their internal and external legal advisors;
- Assessment of the appropriateness of the Company's disclosures in relation to lawsuits provision and contingent liabilities.

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Based on the evidence obtained through the procedures summarized above, we considered acceptable the balances of the provision for litigation and disclosures of contingent liabilities in the context of the individual and consolidated financial statements taken as a whole for the year ended December 31, 2017.

Table of Contents

5. Financial Instruments - Individual and consolidated financial statements

As per Notes 22, 23, 24 and 33 to the financial statements.

Matter

The Company contracts financial instruments which much be measured and assessed at their fair value - including derivative financial instruments, forward operations, swap operations, futures operations and zero cost-collars - as a strategy to hedge equity. Additionally, beginning on January 1st, 2017, the Company adopted hedge accounting for investments in foreign operations, designating its foreign currency loans as an instrument in a hedge transaction for its net investments in foreign operations, in order to mitigate exchange rate risk in its individual and consolidated financial statements. Estimating the fair value of financial instruments not traded on active markets requires considerable judgment from the Company when determining prices or parameters and assumptions such as the classification of fair value hierarchy, discount rates for calculating present value, taking the existing market conditions into account as of the reporting date. Due to the materiality, complexity and judgment involved in assessing and measuring the financial instruments, whether derivative financial instruments or not, which may impact the amount recorded in the individual and consolidated financial statements and the amount of the investment recorded under the equity pick-up method in the financial statements of the parent company, we consider this subject as a significant matter for the audit.

Our procedures included, among others:

- Design, implementation and operating effectiveness testing of the relevant internal controls related to the process of identifying and valuing financial instruments;
- We tested the models developed by the Company, with the support of our specialists in financial instruments, to determine fair values and reasonableness of data, parameters and information included in the pricing models used, recalculated the amount of operations, and compared the assumptions used to determine fair values with similar operations performed in the marketplace;
- With support of our specialists, we obtained an understanding of the hedge strategies adopted by the Company including those related to hedge accounting for net investments in foreign operations. We evaluated the adequacy of the documentation prepared by the Company that supports the designation as hedge accounting, specifically the formal designations containing the descriptions of all strategies and methodologies used to measure effectiveness. We also recalculated the effectiveness test of prospective and retrospective coverage prepared by the Company. In addition, we compared the amounts measured with those presented in the note disclosures.

- Assessment of the appropriateness of the Company's disclosures, regarding sensitivity analyses, interest rate risk and foreign exchange risk, and the classification of instruments, among others.

Based on the evidence obtained through the procedures described above, we considered acceptable the balances of financial instruments including hedge accounting for net investments in foreign operations, in the context of the individual and consolidated financial statements taken as a whole, for the year ended December 31, 2017.

Table of Contents

Other Information - Statement of Added Value

The individual and consolidated statements of value added (DVA) for the year ended December 31, 2017, prepared under the responsibility of the Company's management, and presented as supplementary information for IFRS purposes, was submitted for the auditing procedures jointly with audit of the Company's financial statements. For the purposes of forming our opinion, we evaluate whether these statements are reconciled with the financial statements and accounting records, as applicable, and if their form and content are in accordance with the criteria as defined in Technical Pronouncement CPC 09 - Statement of Added Value. In our opinion, this statement of value added have been properly prepared, in all material respects, in accordance with the criteria defined in this Technical Pronouncement and is consistent with the individual and consolidated financial statements taken as a whole.

Other information accompanying the individual and consolidated financial statements and the auditor's report

Management is responsible for the other information, which comprises the Management report.

Our opinion on the individual and consolidated financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the individual and consolidated financial statements, our responsibility is to read the Management Report and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that there is a material misstatement of this Management Report, we are required to report that fact. We have nothing to report regarding this matter.

Responsibilities of management and those charged with governance for the individual and consolidated financial statements

Management is responsible for the preparation and fair presentation of the individual and consolidated financial statements in accordance with accounting practices adopted in Brazil and in accordance with International Financial Reporting Standards (IFRS), as issued by the International Accounting Standards Board (IASB), and for such internal control as management determines is necessary to enable the preparation of individual and consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the individual and consolidated financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company and subsidiaries or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Company's and its subsidiaries financial reporting process.

Table of Contents

Auditors' responsibilities for the audit of the individual and consolidated financial statements

Our objectives are to obtain reasonable assurance about whether the individual and consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Brazilian and International Standards on Auditing will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these individual and consolidated financial statements.

As part of an audit in accordance with Brazilian and International Standards on Auditing, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the individual and consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the individual and consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the individual and consolidated financial statements represent the underlying transactions

and events in a manner that achieves fair presentation.

- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Company to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

Table of Contents

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the (consolidated) financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditors report unless law or regulation precludes public disclosure about the matter, or, when in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

Rio de Janeiro, February 27, 2018

KPMG Auditores Independentes

CRC SP-014428/O-6 F-RJ

(Original report in Portuguese signed by)

Manuel Fernandes Rodrigues de Sousa

Accountant CRC RJ-052428/O-2

Table of Contents**Income Statement**

In millions of Brazilian reais, except earnings per share data

| | Notes | Year ended December 31 | | | | |
|---|---------------|------------------------|----------------------|-----------------|------------------------|----------------|
| | | 2017 | Consolidated 2016 | 2015 | Parent company 2017 | 2016 |
| Continuing operations | | | | | | |
| Net operating revenue | 3(d) | 108,532 | 94,633 | 78,057 | 64,037 | 46,424 |
| Cost of goods sold and services rendered | 5(a) | (67,257) | (61,143) | (62,780) | (33,327) | (29,663) |
| Gross profit | | 41,275 | 33,490 | 15,277 | 30,710 | 16,761 |
| Operating (expenses) income | | | | | | |
| Selling and administrative expenses | 5(b) | (1,697) | (1,755) | (2,009) | (959) | (1,021) |
| Research and evaluation expenses | | (1,086) | (1,098) | (1,326) | (679) | (677) |
| Pre operating and operational stoppage | | (1,317) | (1,570) | (3,127) | (941) | (684) |
| Equity results from subsidiaries | | | | | 5,277 | 6,503 |
| Other operating expenses, net | 5(c) | (1,338) | (937) | (588) | (893) | (1,166) |
| | | (5,438) | (5,360) | (7,050) | 1,805 | 2,955 |
| Impairment and other results on non-current assets | 15, 18 and 19 | (1,025) | (4,168) | (33,893) | (549) | 205 |
| Operating income (loss) | | 34,812 | 23,962 | (25,666) | 31,966 | 19,921 |
| Financial income | 6 | 11,074 | 27,657 | 25,968 | 8,864 | 25,656 |
| Financial expenses | 6 | (20,724) | (21,355) | (62,021) | (18,225) | (19,900) |
| Equity results in associates and joint ventures | 15 | 302 | 1,111 | (1,526) | 302 | 1,111 |
| Impairment and other results in associates and joint ventures | 15, 19 and 21 | (579) | (4,353) | (1,431) | (579) | (4,233) |
| Income (loss) before income taxes | | 24,885 | 27,022 | (64,676) | 22,328 | 22,555 |
| Income taxes | | | | | | |
| | 8 | | | | | |
| Current tax | | (2,664) | (3,307) | (1,148) | (1,158) | (2,186) |
| Deferred tax | | (1,943) | (6,260) | 20,487 | (957) | (2,908) |
| | | (4,607) | (9,567) | 19,339 | (2,115) | (5,094) |
| Net income (loss) from continuing operations | | 20,278 | 17,455 | (45,337) | 20,213 | 17,461 |
| Net income (loss) attributable to noncontrolling interests | | 65 | (6) | (1,815) | | |
| Net income (loss) from continuing operations attributable to Vale s stockholders | | 20,213 | 17,461 | (43,522) | 20,213 | 17,461 |
| Discontinued operations | | | | | | |
| | 14 | | | | | |
| Loss from discontinued operations | | (2,608) | (4,159) | (660) | (2,586) | (4,150) |
| Net income (loss) attributable to noncontrolling interests | | (22) | (9) | 31 | | |
| Loss from discontinued operations attributable to Vale s stockholders | | (2,586) | (4,150) | (691) | (2,586) | (4,150) |

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| | | | | | |
|---|---------------|---------------|-----------------|---------------|---------------|
| Net income (loss) | 17,670 | 13,296 | (45,997) | 17,627 | 13,311 |
| Net income (loss) attributable to noncontrolling interests | 43 | (15) | (1,784) | | |
| Net income (loss) attributable to Vale s stockholders | 17,627 | 13,311 | (44,213) | 17,627 | 13,311 |
| Earnings (loss) per share attributable to Vale s stockholders: | | | | | |
| Basic and diluted earnings (loss) per share (restated): | | | | | |
| Common share (R\$) | 9 | 3.39 | 2.56 | (8.51) | 3.39 |
| | | | | 2.56 | |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Statement of Comprehensive Income**

In millions of Brazilian reais

| | Year ended December 31 | | | | |
|---|------------------------|----------------------|-----------------|------------------------|-----------------|
| | 2017 | Consolidated 2016 | 2015 | Parent company 2017 | 2016 |
| Net income (loss) | 17,670 | 13,296 | (45,997) | 17,627 | 13,311 |
| Other comprehensive income (loss): | | | | | |
| Items that will not be reclassified subsequently to the income statement | | | | | |
| Retirement benefit obligations | (164) | (266) | 257 | (125) | (107) |
| Equity results in associates and joint ventures | | | | (39) | (156) |
| Total items that will not be reclassified subsequently to the income statement, net of tax | (164) | (266) | 257 | (164) | (263) |
| Items that may be reclassified subsequently to the income statement | | | | | |
| Translation adjustments | 3,337 | (14,188) | 35,944 | 3,309 | (13,283) |
| Cash flow hedge | | 20 | 2,632 | | |
| Net investments hedge | (310) | 4 | 2 | (310) | |
| Equity results in associates and joint ventures | | 16 | (17) | | 30 |
| Transfer of realized results to net income | (34) | (276) | (1,157) | | (266) |
| Total of items that may be reclassified subsequently to the income statement, net of tax | 2,993 | (14,424) | 37,404 | 2,999 | (13,519) |
| Total comprehensive income (loss) | 20,499 | (1,394) | (8,336) | 20,462 | (471) |
| Comprehensive income (loss) attributable to noncontrolling interests | 37 | (923) | (252) | | |
| Comprehensive income (loss) attributable to Vale s stockholders | 20,462 | (471) | (8,084) | | |
| From continuing operations | 20,568 | (13) | (8,439) | | |
| From discontinued operations | (106) | (458) | 355 | | |
| | 20,462 | (471) | (8,084) | | |

Items above are stated net of tax and the related taxes are disclosed in note 8.

The accompanying notes are an integral part of these financial statements.

Table of Contents**Statement of Cash Flows**

In millions of Brazilian reais

| | Year ended December 31 | | | | |
|---|------------------------|----------------------|-----------------|------------------------|----------------|
| | 2017 | Consolidated 2016 | 2015 | Parent company 2017 | 2016 |
| Cash flow from operating activities: | | | | | |
| Income (loss) before income taxes from continuing operations | 24,885 | 27,022 | (64,676) | 22,328 | 22,555 |
| Continuing operations adjustments for: | | | | | |
| Equity results in investees | (302) | (1,111) | 1,526 | (5,579) | (7,614) |
| Impairment and other results on non-current assets | 1,025 | 4,168 | 33,893 | 549 | (205) |
| Impairment and other results in associates and joint ventures | 587 | 4,353 | 1,431 | 579 | 4,233 |
| Depreciation, amortization and depletion | 11,842 | 12,107 | 12,450 | 5,604 | 5,209 |
| Financial results, net | 9,650 | (6,302) | 36,053 | 9,361 | (5,756) |
| Changes in assets and liabilities: | | | | | |
| Accounts receivable | 3,983 | (9,863) | 5,212 | 15,301 | 4,503 |
| Inventories | (1,030) | 616 | (749) | (612) | (135) |
| Suppliers and contractors | 691 | 768 | 2,143 | 670 | 243 |
| Provision - Payroll, related charges and others remunerations | 1,236 | 435 | (1,713) | 980 | 714 |
| Other taxes assets and liabilities, net | (976) | (371) | (687) | (514) | (227) |
| Deferred revenue - Gold stream | | 1,683 | 1,670 | | |
| Other assets and liabilities, net | (1,734) | 2,225 | (896) | 677 | (1,923) |
| | 49,857 | 35,730 | 25,657 | 49,344 | 21,597 |
| Interest on loans and borrowings paid | (5,373) | (5,894) | (4,812) | (5,911) | (5,905) |
| Derivatives paid, net | (763) | (5,604) | (3,771) | (577) | (2,215) |
| Interest on participative stockholders debentures paid | (428) | (268) | (209) | (428) | (268) |
| Income taxes | (1,763) | (1,401) | (1,790) | (824) | (69) |
| Income taxes - Settlement program | (1,559) | (1,426) | (1,284) | (1,527) | (1,397) |
| Net cash provided by operating activities from continuing operations | 39,971 | 21,137 | 13,791 | 40,077 | 11,743 |
| Cash flow from investing activities: | | | | | |
| Financial investments redeemed (invested) | (256) | 45 | 932 | (255) | 15 |
| Loans and advances - net receipts (payments) (note 21) | (1,421) | (698) | (34) | (8,037) | 3,069 |
| Guarantees and deposits - net receipts (payments) | (150) | (141) | (246) | (143) | (127) |
| Additions to investments | (292) | (875) | (332) | (1,895) | (1,918) |
| Additions to property, plant and equipment and intangible | (12,236) | (17,343) | (26,931) | (8,413) | (11,494) |
| Proceeds from disposal of assets and investments (note 15) | 2,926 | 1,785 | 5,211 | 23 | 169 |
| Dividends and interest on capital received from associates and joint ventures | 739 | 669 | 1,064 | 2,645 | 1,591 |
| Proceeds from gold stream transaction | | 885 | 1,156 | | |
| Net cash used in investing activities from continuing operations | (10,690) | (15,673) | (19,180) | (16,075) | (8,695) |

Cash flow from financing activities:**Loans and borrowings**

| | | | | | |
|------------|----------|----------|---------|----------|----------|
| Additions | 6,223 | 25,667 | 16,603 | 2,014 | 10,126 |
| Repayments | (28,878) | (26,630) | (9,949) | (21,058) | (11,651) |

Transactions with stockholders:

| | | | | | |
|---|---------|-------|---------|---------|-------|
| Dividends and interest on capital attributed to stockholders | (4,667) | (857) | (5,026) | (4,667) | (857) |
| Dividends and interest on capital paid to noncontrolling interest | (404) | (972) | (46) | | |
| Transactions with noncontrolling stockholders (note 15) | (305) | (69) | 3,875 | | 19 |

Net cash provided by (used in) financing activities

| | | | | | |
|-----------------------------------|-----------------|----------------|--------------|-----------------|----------------|
| from continuing operations | (28,031) | (2,861) | 5,457 | (23,711) | (2,363) |
|-----------------------------------|-----------------|----------------|--------------|-----------------|----------------|

Net cash provided by (used in) discontinued operations (note 14)

| | | | | | |
|--|--------------|--------------|------------|--|--|
| | (817) | (527) | 785 | | |
|--|--------------|--------------|------------|--|--|

Increase in cash and cash equivalents

| | | | | | |
|--|------------|--------------|------------|------------|------------|
| | 433 | 2,076 | 853 | 291 | 685 |
|--|------------|--------------|------------|------------|------------|

| | | | | | |
|--|--------|--------|--------|-------|-----|
| Cash and cash equivalents in the beginning of the period | 13,891 | 14,022 | 10,555 | 1,203 | 518 |
|--|--------|--------|--------|-------|-----|

| | | | | | |
|--|----|---------|-------|--|--|
| Effect of exchange rate changes on cash and cash equivalents | 38 | (2,207) | 2,614 | | |
|--|----|---------|-------|--|--|

| | | | | | |
|---|------|--|--|-----|--|
| Effects of disposals of subsidiaries and merger, net on cash and cash equivalents | (44) | | | 382 | |
|---|------|--|--|-----|--|

| | | | | | |
|---|---------------|---------------|---------------|--------------|--------------|
| Cash and cash equivalents at end of the period | 14,318 | 13,891 | 14,022 | 1,876 | 1,203 |
|---|---------------|---------------|---------------|--------------|--------------|

Non-cash transactions:

| | | | | | |
|--|-------|-------|-------|-------|-------|
| Additions to property, plant and equipment - capitalized loans and borrowing costs | 1,179 | 2,291 | 2,531 | 1,176 | 1,679 |
|--|-------|-------|-------|-------|-------|

The accompanying notes are an integral part of these financial statements.

Table of Contents**Statement of Financial Position**

In millions of Brazilian reais

| | Notes | Consolidated December 31, 2017 | December 31, 2016 | Parent company December 31, 2017 | December 31, 2016 |
|--|-------|--------------------------------------|----------------------|--|----------------------|
| Assets | | | | | |
| Current assets | | | | | |
| Cash and cash equivalents | 20 | 14,318 | 13,891 | 1,876 | 1,203 |
| Accounts receivable | 10 | 8,602 | 11,937 | 9,560 | 26,223 |
| Other financial assets | 13 | 6,689 | 951 | 409 | 665 |
| Inventories | 11 | 12,987 | 10,913 | 4,601 | 3,982 |
| Prepaid income taxes | | 2,584 | 518 | 2,378 | 312 |
| Recoverable taxes | 12 | 3,876 | 5,296 | 2,091 | 3,962 |
| Others | | 1,780 | 2,047 | 1,542 | 972 |
| | | 50,836 | 45,553 | 22,457 | 37,319 |
| Non-current assets held for sale | 14 | 11,865 | 27,994 | 7,082 | 8,936 |
| | | 62,701 | 73,547 | 29,539 | 46,255 |
| Non-current assets | | | | | |
| Judicial deposits | 27(c) | 6,571 | 3,135 | 6,110 | 2,681 |
| Other financial assets | 13 | 10,690 | 2,041 | 1,865 | 2,178 |
| Prepaid income taxes | | 1,754 | 1,718 | | |
| Recoverable taxes | 12 | 2,109 | 2,368 | 2,062 | 2,223 |
| Deferred income taxes | 8(a) | 21,959 | 23,931 | 14,200 | 15,299 |
| Others | | 882 | 899 | 810 | 618 |
| | | 43,965 | 34,092 | 25,047 | 22,999 |
| Investments | 15 | 11,802 | 12,046 | 117,387 | 107,539 |
| Intangibles | 17 | 28,094 | 22,395 | 13,471 | 11,314 |
| Property, plant and equipment | 18 | 181,535 | 180,616 | 102,978 | 102,056 |
| | | 265,396 | 249,149 | 258,883 | 243,908 |
| Total assets | | 328,097 | 322,696 | 288,422 | 290,163 |
| Liabilities | | | | | |
| Current liabilities | | | | | |
| Suppliers and contractors | | 13,367 | 11,830 | 7,503 | 7,116 |
| Loans and borrowings | 20 | 5,633 | 5,410 | 4,378 | 4,171 |
| Other financial liabilities | 13 | 1,237 | 2,499 | 4,413 | 9,956 |
| Taxes payable | 8(d) | 2,307 | 2,144 | 1,991 | 1,883 |
| Provision for income taxes | | 1,175 | 556 | | |
| Liabilities related to associates and joint ventures | 21 | 1,080 | 951 | 1,080 | 951 |
| Provisions | 25 | 4,610 | 3,103 | 2,904 | 1,792 |
| Dividends and interest on capital | 29(d) | 4,742 | 2,660 | 4,439 | 2,602 |
| Others | | 5,307 | 3,903 | 2,552 | 1,242 |
| | | 39,458 | 33,056 | 29,260 | 29,713 |
| Liabilities associated with non-current assets held for sale | 14 | 3,899 | 3,554 | | |

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| | | | | | |
|--|------|----------------|----------------|----------------|----------------|
| | | 43,357 | 36,610 | 29,260 | 29,713 |
| Non-current liabilities | | | | | |
| Loans and borrowings | 20 | 68,759 | 90,154 | 28,966 | 47,877 |
| Other financial liabilities | 13 | 9,575 | 6,804 | 54,955 | 56,802 |
| Taxes payable | 8(d) | 16,176 | 16,170 | 15,853 | 15,838 |
| Deferred income taxes | 8(a) | 5,687 | 5,540 | | |
| Provisions | 25 | 23,243 | 18,730 | 6,900 | 4,396 |
| Liabilities related to associates and joint ventures | 21 | 2,216 | 2,560 | 2,216 | 2,560 |
| Deferred revenue - Gold stream | | 6,117 | 6,811 | | |
| Others | | 4,861 | 5,615 | 6,514 | 5,736 |
| | | 136,634 | 152,384 | 115,404 | 133,209 |
| Total liabilities | | 179,991 | 188,994 | 144,664 | 162,922 |
| Stockholders equity | 29 | | | | |
| Equity attributable to Vale's stockholders | | 143,758 | 127,241 | 143,758 | 127,241 |
| Equity attributable to noncontrolling interests | | 4,348 | 6,461 | | |
| Total stockholders equity | | 148,106 | 133,702 | 143,758 | 127,241 |
| Total liabilities and stockholders equity | | 328,097 | 322,696 | 288,422 | 290,163 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Statement of Changes in Equity**

In millions of Brazilian reais

| | Share capital | Results on conversion of shares | Capital reserve | Results from operation with noncontrolling interest | Profit reserves | Treasury stocks | Unrealized fair value gain (losses) | Cumulative translation adjustments | Retained earnings | Equity attributable to Vale's stockholders | Equity attributable to noncontrolling interest |
|--|---------------|---------------------------------|-----------------|---|-----------------|-----------------|-------------------------------------|------------------------------------|-------------------|--|--|
| Balance at December 31, 2014 | 77,300 | 50 | | (970) | 53,085 | (2,746) | (4,553) | 24,248 | | 146,414 | |
| Loss | | | | | | | | | (44,213) | (44,213) | |
| Other comprehensive income: | | | | | | | | | | | |
| Retirement benefit obligations | | | | | | | 260 | | | 260 | |
| Cash flow hedge | | | | | | | 1,458 | | | 1,458 | |
| Available-for-sale financial instruments | | | | | | | 2 | | | 2 | |
| Translation adjustments | | | | | | | (1,040) | 35,449 | | 34,409 | |
| Transactions with stockholders: | | | | | | | | | | | |
| Dividends and interest on capital of Vale's stockholders | | | | | (5,026) | | | | | (5,026) | |
| Dividends of noncontrolling interest | | | | | | | | | | | |
| Acquisitions and disposal of noncontrolling interest (note 15) | | | | (911) | | | | (1,233) | | (2,144) | |
| Capitalization of noncontrolling interest advances | | | | | | | | | | | |
| Appropriation to undistributed retained earnings | | | | | (44,213) | | | | 44,213 | | |
| Balance at December 31, 2015 | 77,300 | 50 | | (1,881) | 3,846 | (2,746) | (3,873) | 58,464 | 13,311 | 131,160 | 13,311 |

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| | | | | | | | | | |
|--|---------------|-----------|----------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Net income (loss) | | | | | | | | | |
| Other comprehensive income: | | | | | | | | | |
| Retirement benefit obligations | | | | | | (263) | | | (263) |
| Cash flow hedge | | | | | | 26 | | | 26 |
| Available-for-sale financial instruments | | | | | | 4 | | | 4 |
| Translation adjustments | | | | | | 367 | (13,916) | | (13,549) |
| Transactions with stockholders: | | | | | | | | | |
| Dividends and interest on capital of Vale's stockholders | | | | | | | | (3,459) | (3,459) |
| Dividends of noncontrolling interest | | | | | | | | | |
| Acquisitions and disposal of noncontrolling interest (note 15) | | | 11 | | | | | | 11 |
| Capitalization of noncontrolling interest advances | | | | | | | | | |
| Appropriation to undistributed retained earnings | | | | 9,852 | | | | (9,852) | |
| Balance at December 31, 2016 | 77,300 | 50 | (1,870) | 13,698 | (2,746) | (3,739) | 44,548 | | 127,241 |
| Net income | | | | | | | | 17,627 | 17,627 |
| Other comprehensive income: | | | | | | | | | |
| Retirement benefit obligations | | | | | | (164) | | | (164) |
| Net investments hedge (note 24b) | | | | | | | (310) | | (310) |
| Translation adjustments | | | | | | (9) | 3,318 | | 3,309 |
| Transactions with stockholders: | | | | | | | | | |
| Dividends and interest on capital of Vale's stockholders | | | | | (2,065) | | | (4,721) | (6,786) |
| Dividends of noncontrolling interest | | | | | | | | | |
| Acquisitions and disposal of noncontrolling interest (note 15) | | | (793) | | | | | | (793) |

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| | | | | | | | | | |
|--|---------------|-----------|--------------|----------------|---------------|----------------|----------------|---------------|----------------|
| Capitalization of noncontrolling interest advances | | | | | | | | | |
| Appropriation to undistributed retained earnings | | | | 12,906 | | | (12,906) | | |
| Merger of Valepar (note 29) | | | 3,634 | | | | | | 3,634 |
| Balance at December 31, 2017 | 77,300 | 50 | 3,634 | (2,663) | 24,539 | (2,746) | (3,912) | 47,556 | 143,758 |

The accompanying notes are an integral part of these financial statements.

Table of Contents**Value Added Statement**

In millions of Brazilian Reais

| | Year ended December 31 | | | |
|---|------------------------|---------------|----------------|---------------|
| | Consolidated | | Parent company | |
| | 2017 | 2016 | 2017 | 2016 |
| Generation of value added from continuing operations | | | | |
| Gross revenue | | | | |
| Revenue from products and services | 110,007 | 95,915 | 65,049 | 47,173 |
| Results on measurement or sale of non-current assets | (1,706) | (1,074) | (549) | (597) |
| Revenue from the construction of own assets | 6,449 | 12,721 | 5,857 | 10,185 |
| Allowance for doubtful accounts | (14) | (9) | 4 | (3) |
| Other revenues | 663 | 1,459 | 419 | 387 |
| Less: | | | | |
| Acquisition of products | (1,728) | (1,758) | (652) | (821) |
| Material, service and maintenance | (27,022) | (29,819) | (16,796) | (19,328) |
| Oil and gas | (4,199) | (4,284) | (2,872) | (2,720) |
| Energy | (3,108) | (2,414) | (1,470) | (1,040) |
| Freight | (10,717) | (8,641) | (106) | (71) |
| Impairment of non-current assets and others results | 102 | (7,447) | (579) | (3,431) |
| Other costs and expenses | (7,681) | (12,118) | (3,027) | (1,390) |
| Gross value added | 61,046 | 42,531 | 45,278 | 28,344 |
| Depreciation, amortization and depletion | (11,842) | (12,107) | (5,604) | (5,209) |
| Net value added | 49,204 | 30,424 | 39,674 | 23,135 |
| Received from third parties | | | | |
| Equity results from entities | 302 | 1,111 | 5,945 | 6,754 |
| Equity results from discontinued operations | | | (2,952) | (3,290) |
| Financial income | 1,532 | 606 | 364 | 345 |
| Monetary and exchange variation of assets | 500 | (6,791) | 443 | (6,398) |
| Total value added from continuing operations to be distributed | 51,538 | 25,350 | 43,474 | 20,546 |
| Value added from discontinued operations to be distributed | 1,534 | 2,439 | | |
| Total value added to be distributed | 53,072 | 27,789 | 43,474 | 20,546 |
| Personnel | 7,673 | 7,699 | 3,702 | 3,082 |
| Taxes and contributions | 6,553 | 4,835 | 6,528 | 7,124 |
| Current income tax | 2,664 | 3,307 | 1,158 | 2,186 |
| Deferred income tax | 1,943 | 6,260 | 957 | 2,908 |
| Financial expense (excludes capitalized interest) | 11,325 | 10,169 | 8,483 | 9,987 |
| Monetary and exchange variation of liabilities | 2,630 | (17,610) | 1,950 | (17,807) |
| Other remunerations of third party funds | 1,058 | (2,615) | 3,069 | (245) |
| Reinvested net income (absorbed loss) | 17,627 | 13,311 | 17,627 | 13,311 |
| Net income (loss) attributable to noncontrolling interest | 65 | (6) | | |
| Distributed value added from continuing operations | 51,538 | 25,350 | 43,474 | 20,546 |
| Distributed value added from discontinued operations | 1,534 | 2,439 | | |
| Distributed value added | 53,072 | 27,789 | 43,474 | 20,546 |

The accompanying notes are an integral part of these financial statements.

Table of Contents

Notes to the Financial Statements

Expressed in millions of Brazilian reais, unless otherwise stated

1. Corporate information

Vale S.A. (the Parent Company) is a public company headquartered in the city of Rio de Janeiro, Brazil with securities traded on the stock exchanges of São Paulo - B3 S.A. (Vale3), New York - NYSE (VALE), Paris - NYSE Euronext (Vale3) and Madrid - LATIBEX (XVALO).

Vale S.A. and its direct and indirect subsidiaries (Vale or Company) are global producers of iron ore and iron ore pellets, key raw materials for steelmaking, and producers of nickel, which is used to produce stainless steel and metal alloys employed in the production of several products. The Company also produces copper, metallurgical and thermal coal, manganese ore, ferroalloys, platinum group metals, gold, silver and cobalt. The information by segment is presented in note 3.

On December 22, 2017 after the conversion of the class A preferred shares into common shares, the Company migrated to the special listing segment of B3 S.A. (Novo Mercado), and became a company with no defined controlling shareholder (further details in the notes 4 and 29). As of this date, Vale's common shares are traded in the Novo Mercado.

2. Basis for preparation of the financial statements

a) Statement of compliance

The consolidated and individual financial statements of the Company (financial statements) have been prepared and are being presented in accordance with the International Financial Reporting Standards (IFRS) as implemented in Brazil by the Brazilian Accountant Pronouncements Committee (CPC), approved by the Brazilian Securities Exchange Commission (CVM) and by the Brazilian Federal Accounting Council (CFC). All relevant information from its own financial statements, and only this information, are being presented and correspond to those used by the Company's Management.

b) Basis of presentation

The financial statements have been prepared under the historical cost convention as adjusted to reflect: (i) the fair value of financial instruments measured at fair value through income statement or available-for-sale financial instruments measured at fair value through the statement of comprehensive income; and (ii) impairment of assets.

The issue of these financial statements was authorized by the Board of Directors on February 27, 2018.

c) Consolidation and investments

The financial statements reflect the assets, liabilities and transactions of the Parent Company and its direct and indirect controlled entities (subsidiaries). These subsidiaries are consolidated when the Company is exposed or has rights to variable returns from its involvement with the investee and has the ability to direct the significant activities of the investee. The Company also consolidates subsidiaries that Vale does not own the majority of the voting capital, but has control through other means, such as a stockholder s agreement. Intercompany balances and transactions, which include unrealized profits, are eliminated.

The entities over which the Company has joint control (joint ventures) or significant influence, but not control (associates) are presented in note 15. Those investments are accounted for using the equity method. For interests in joint arrangements not classified as joint ventures (joint operations), the Company recognizes its share of assets, liabilities and net income.

Unrealized gains on downstream or upstream transactions between the Company and its associates and joint ventures are eliminated fully or proportionately to the Company s interest.

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Table of Contents

The material consolidated entities in each business segment are as follows:

| | Location | Main activity/Business | % Ownership | % Voting capital | % Noncontrolling interest |
|--|---------------|---------------------------|-------------|------------------|---------------------------|
| Direct and indirect subsidiaries | | | | | |
| Companhia Portuária da Baía de Sepetiba | Brazil | Iron ore | 100.0% | 100.0% | 0.0% |
| Mineração Corumbaense Reunida S.A. | Brazil | Iron ore and manganese | 100.0% | 100.0% | 0.0% |
| Minerações Brasileiras Reunidas S.A. (MBR) | Brazil | Iron ore | 62.5% | 98.3% | 37.5% |
| Salobo Metais S.A. | Brazil | Copper | 100.0% | 100.0% | 0.0% |
| PT Vale Indonesia | Indonesia | Nickel | 59.2% | 59.2% | 40.8% |
| Vale International Holdings GmbH | Austria | Holding and research | 100.0% | 100.0% | 0.0% |
| Vale Canada Limited | Canada | Nickel | 100.0% | 100.0% | 0.0% |
| Vale International S.A. | Switzerland | Trading and holding | 100.0% | 100.0% | 0.0% |
| Vale Malaysia Minerals Sdn.Bhd. | Malaysia | Iron ore | 100.0% | 100.0% | 0.0% |
| Vale Manganês S.A. | Brazil | Manganese and ferroalloys | 100.0% | 100.0% | 0.0% |
| Vale Moçambique S.A. | Mozambique | Coal | 81.0% | 81.0% | 19.0% |
| Vale Nouvelle Calédonie S.A.S. | New Caledonia | Nickel | 95.0% | 95.0% | 5.0% |
| Vale Oman Distribution Center LLC | Oman | Iron ore and pelletizing | 100.0% | 100.0% | 0.0% |
| Vale Oman Pelletizing Company LLC | Oman | Pelletizing | 70.0% | 70.0% | 30.0% |

Investments held by investors in Vale's subsidiaries are classified as noncontrolling interests. The Company treats transactions with noncontrolling interests as transactions with equity owners of the Company as described in note 16.

For purchases from noncontrolling interests, the difference between any consideration paid and the proportion acquired of the carrying value of net assets of the subsidiary is recorded in stockholders' equity. Gains or losses on disposals to noncontrolling interest are also directly recorded in stockholders' equity in Results from operation with noncontrolling interest.

As explained in note 14, the Fertilizer Segment is presented as discontinued operations, which includes the following subsidiaries:

| | Location | Main activity/Business | % Ownership | % Voting capital | % Noncontrolling interest |
|---|----------|------------------------|-------------|------------------|---------------------------|
| Direct and indirect subsidiaries | | | | | |
| Compañía Minera Miski Mayo S.A.C. | Peru | Fertilizers | 40.0% | 51.0% | 60.0% |

| | | | | | |
|---------------------------------|--------|-------------|--------|--------|------|
| Vale Fertilizantes S.A. | Brazil | Fertilizers | 100.0% | 100.0% | 0.0% |
| Vale Cubatão Fertilizantes Ltda | Brazil | Fertilizers | 100.0% | 100.0% | 0.0% |

d) Functional currency and presentation currency

The financial statements of the Company and its associates and joint ventures are measured using the currency of the primary economic environment in which the entity operates (functional currency), which in the case of the Parent Company is the Brazilian real (R\$). For presentation purposes, these financial statements are presented in Brazilian Reais.

Transactions in foreign currencies are translated into the functional currency using the exchange rate prevailing at the transaction date. The foreign exchange gains and losses resulting from the translation at the exchange rates prevailing at the end of the year are recognized in the income statement as financial income or expense . The exceptions are transactions for which gains and losses are recognized in the statement of comprehensive income.

The income statement and statement of financial position of the subsidiaries for which the functional currency is different from the presentation currency are translated into the presentation currency as follows: (i) assets, liabilities and stockholders equity, except for the components described in item (iii) are translated at the closing rate at the statement of financial position date; (ii) income and expenses are translated at the average exchange rates, except for specific significant transactions that, are translated at the rate at the transaction date and; (iii) capital, capital reserves and treasury stock are translated at the rate at each transaction date. All resulting exchange differences are recognized directly in the comprehensive income as translation adjustments . When a foreign operation is partially disposed of or sold, foreign exchanges differences that were recognized in equity are recognized in the income of statement.

Table of Contents

The exchange rates used by the Company to translate its foreign operations are as follows:

| | Closing rate | | | Average rate for the year ended | | |
|---------------------------|--------------|--------|--------|---------------------------------|--------|--------|
| | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 |
| US Dollar (US\$) | 3.3080 | 3.2591 | 3.9048 | 3.1925 | 3.4833 | 3.3387 |
| Canadian dollar (CAD) | 2.6344 | 2.4258 | 2.8171 | 2.4618 | 2.6280 | 2.6020 |
| Australian dollar (AUD) | 2.5849 | 2.3560 | 2.8532 | 2.4474 | 2.5876 | 2.4979 |
| Euro (EUR or) | 3.9693 | 3.4384 | 4.2504 | 3.6088 | 3.8543 | 3.6999 |

e) Significant accounting policies

Significant and relevant accounting policies for the understanding of the recognition and measurement basis used on the preparation of these financial statements were included in the respective notes. The accounting policies applied in the preparation of these financial statements are consistent with those adopted and disclosed in the financial statements of prior years.

The Company has not early adopted any standards and interpretations that have been issued or amended but are not yet effective for the year ended December 31, 2017.

The following new accounting standards were issued by IASB, but are not yet effective for 2017. The Company has performed an assessment on the Company's financial statements and the current expected impacts are detailed below:

- IFRS 9 Financial instrument - In July 2014, the IASB issued the final version of IFRS 9 that replaces IAS 39 Financial Instruments: Recognition and Measurement. This standard addresses the classification and measurement of financial assets and liabilities, new impairment model and new rules for hedge accounting. This standard shall apply for annual periods beginning on or after January 1, 2018. The Company has reviewed its financial assets and liabilities and is expecting the following impact from the adoption of the new standard on 1 January 2018:

- Classification and measurement - IFRS 9 establishes a new approach to determine whether a financial asset should be measured at amortized cost or fair value, based on the cash flow characteristics and the business model in which an asset is held. The Company does not currently expect the impact of these changes to be significant.

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- Impairment - IFRS 9 requires expected credit loss impairment model for accounts receivables measured at amortized cost, on either a 12-month or the lifetime basis, rather than only incurred credit losses as is the case under IAS 39. Given that Vale's account receivables are short-term in nature and considering its credit rating and risk management policies in place, the Company does not expect these changes will have a significant impact on its financial statements.

- Hedge accounting - the changes in IFRS 9 relating to hedge accounting will have no impact as the Company does not currently apply cash flow or fair value hedge accounting. The Company currently applies the net investment hedge, which there is no changes introduced by this new standard.

- **IFRS 15 Revenue from Contracts with Customers** - In May 2014, the IASB issued IFRS 15, which replaces IAS 18 Revenues and the related interpretations. IFRS 15 introduces the five-step model for revenue recognition from contracts with customers. The new standard is based on the core principle that revenue is recognized when the control of a good or service transfers to a customer of an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. This standard shall apply for annual periods beginning on or after January 1, 2018.

The Company will adopt this new standard on the required effective date using the modified retrospective method. Accordingly, the Company will not be required to restate the comparative figures.

During 2017, the Company performed a detailed assessment of IFRS 15, based on the contractual arrangements across the Company's main revenue streams. The result of this assessment and the impacts identified in relation to the IFRS 15 first adoption are summarized as follows:

Vale's revenue is predominantly derived from commodities sales, where the point of recognition is dependent on the sales arrangement, which is governed by parameters established by the International Commercial Terms (Incoterms). There will be no significant impact on the timing of commodities revenue recognition under IFRS 15, since usually the transfer of risks and rewards and the transfer of control under the sales contracts are at the same point in time.

Table of Contents

However, a significant proportion of Vale's sales are under CFR (Cost and Freight) or CIF (Cost, Insurance and Freight) Incoterms, in which the Company is responsible for providing shipping services after the date that Vale transfers control of the goods to the customers. Currently, the revenue from shipping services are recognized upon loading, as well as the related costs, and are not considered a separate service under IAS 18.

Under IFRS 15, the provision of shipping services for CFR and CIF contracts will be a distinct service and, therefore, a separate performance obligation to which a proportion of the transaction price should be allocated and recognized over time as the shipping services are provided. The impact on the timing of revenue recognition of the proportion allocated to the shipping service is deemed not significant to the Company's year-end results. Therefore, such revenue will not be presented separately in the Company's financial statements.

The accounting treatment for contracts with provisional pricing features that are currently considered as an embedded derivative in accordance with IAS 39 - Financial Instruments, shall remain unmodified in accordance with IFRS 15 and IFRS 9 - Financial Instruments. In addition, IFRS 15 introduces a new disclosure requirement for the provisional prices impact on the financial statements. When applicable, systems and processes will be amended to allow the disclosure of this information in the Company's financial statements.

IFRS 15 also requires the Company to treat deferred revenue related to the gold stream transaction as variable and, therefore must be adjusted each time there is a change in the underlying production profile. The Company does not expect to record a significant adjustment upon transition to this new standard.

- **IFRS 16 Lease** - In January 2016, the IASB issued IFRS 16, which replaces IAS 17 Leases and related interpretations. The IFRS 16 set forth that the lessee must recognize all leases on the statement of financial position, as the distinction between operating and finance leases is removed. The standard provides certain exemptions from recognizing leases on the statement of financial position, including where the underlying asset is of low value or the lease term is 12 months or less. Under the new standard, the Company will be required to recognize right of use lease assets and lease liabilities on the statement of financial position. Liabilities are measured based on the present value of future lease payments over the lease term. The right of use lease asset generally reflects the lease liability. This standard shall apply for annual periods beginning on or after January 1, 2019.

The Company has commenced the qualitative analysis of its main contracts and will continue to assess the quantitative potential effect of IFRS 16 during 2018, which depends on the decision regarding the transition method and the use of practical expedients and/or exemptions. It is therefore not yet possible to estimate the amount of right-of-use assets and lease liabilities that will have to be recognised on adoption of the new standard and how this may affect the Company's income statement.

The information on the main operating leases is presented in note 31.

f) Critical accounting estimates and judgments

The preparation of financial statements requires the use of certain critical accounting estimates and the application of judgment by management in applying the Company's accounting policies. These estimates are based on the experience, best knowledge, information available at the statement of financial position date and other factors, including expectations of future events that are believed to be reasonable under the circumstances. Changes in facts and circumstances may lead to the revision of these estimates. Actual future results may differ from the estimates.

The significant estimates and judgments applied by Company in the preparation of these financial statements are as follows:

| Note | Significant estimates and judgments |
|------|--|
| 7 | Deferred revenue - Gold stream transaction |
| 8 | Deferred income taxes |
| 15 | Consolidation |
| 18 | Mineral reserves and mine useful life |
| 19 | Impairment of non-current assets |
| 21 | Liabilities related to associates and joint ventures |
| 23 | Fair values estimate |
| 26 | Asset retirement obligation |
| 27 | Litigation |
| 28 | Employee postretirement obligations |

Table of Contents

3. Information by business segment and by geographic area

The Company operated five reportable segments during this year: Ferrous Minerals, Coal, Base Metals, Fertilizers (presented as discontinued operations) and Others. The segments are aligned with products and reflect the structure used by Management to evaluate Company performance. The responsible bodies for making operational decisions, allocating resources and evaluating performance are the Executive Boards and the Board of Directors. The performance of the operating segments is assessed based on a measure of adjusted LAJIDA (EBITDA).

The information presented to the Executive Board on the performance of each segment is derived from the accounting records, adjusted for reallocations between segments.

The main activities of the operating segments are as follows:

Ferrous minerals - Ferrous minerals comprises the production and extraction of iron ore, iron ore pellets and its logistic services (railroads, ports and terminals), manganese, ferroalloys and others ferrous products and services.

Coal - Coal comprises the extraction of metallurgical and thermal coal and its logistic services (railroads, ports and terminals).

Base metals - Base metals include the production and extraction of non-ferrous minerals, and are presented as nickel and its by-products (ferro-nickel, copper, gold, precious metals and others) and copper (copper concentrated).

Fertilizers (Discontinued operations) - Fertilizers include the production of the three major groups of nutrients (potash, phosphate and nitrogen) and other fertilizers products. The group of assets related to this segment is classified as Non-current assets and liabilities associated with non-current assets held for sale (note 14).

Others - Other comprises sales and expenses of other products, services, research and evaluation, investments in joint ventures and associates of other business and contingencies not directly related to the core business.

a) **Adjusted LAJIDA (EBITDA)**

The definition of adjusted LAJIDA (EBITDA) for the Company is the operating income or loss excluding (i) the depreciation, depletion and amortization, (ii) results on measurement or sales of non-current assets, (iii) impairment, (iv) onerous contracts and plus (v) dividends received and interest from associates and joint ventures.

| Consolidated | | | | | | | |
|---|--------------------------|---|--|----------------------------|--|--|-----------------------------|
| Year ended December 31, 2017 | | | | | | | |
| | Net operating revenue | Cost of goods sold and services rendered | Sales, administrative and other operating expenses | Research and evaluation | Pre operating and operational stoppage | Dividends received and interest from associates and joint ventures | Adjusted LAJIDA (EBITDA) |
| Ferrous minerals | | | | | | | |
| Iron ore | 59,206 | (25,438) | (911) | (281) | (576) | 100 | 32,100 |
| Iron ore Pellets | 18,043 | (9,191) | (208) | (62) | (23) | 263 | 8,822 |
| Ferroalloys and manganese | 1,501 | (890) | (38) | | (12) | | 561 |
| Other ferrous products and services | 1,541 | (978) | 18 | (6) | (2) | 63 | 636 |
| | 80,291 | (36,497) | (1,139) | (349) | (613) | 426 | 42,119 |
| Coal | 5,003 | (4,326) | (142) | (45) | (14) | 574 | 1,050 |
| Base metals | | | | | | | |
| Nickel and other products | 14,914 | (10,985) | (484) | (155) | (238) | | 3,052 |
| Copper | 7,052 | (3,126) | (86) | (43) | | | 3,797 |
| | 21,966 | (14,111) | (570) | (198) | (238) | | 6,849 |
| Others | 1,272 | (1,197) | (892) | (494) | (28) | 313 | (1,026) |
| Total of continuing operations | 108,532 | (56,131) | (2,743) | (1,086) | (893) | 1,313 | 48,992 |
| Discontinued operations | | | | | | | |
| (Fertilizers) | 5,572 | (5,124) | (327) | (39) | (80) | 10 | 12 |
| Total | 114,104 | (61,255) | (3,070) | (1,125) | (973) | 1,323 | 49,004 |

Table of Contents

| Consolidated Year ended December 31, 2016 | | | | | | | |
|--|--------------------------|--|--|----------------------------|--|--|-----------------------------|
| | Net operating revenue | Cost of goods sold and services rendered | Sales, administrative and other operating expenses | Research and evaluation | Pre operating and operational stoppage | Dividends received and interest from associates and joint ventures | Adjusted LAJIDA (EBITDA) |
| Ferrous minerals | | | | | | | |
| Iron ore | 54,187 | (22,817) | (1,712) | (308) | (521) | 35 | 28,864 |
| Iron ore Pellets | 13,198 | (6,932) | (251) | (45) | (77) | 359 | 6,252 |
| Ferroalloys and manganese | 1,031 | (793) | (11) | (1) | (39) | | 187 |
| Other ferrous products and services | 1,513 | (933) | (26) | (5) | (12) | | 537 |
| | 69,929 | (31,475) | (2,000) | (359) | (649) | 394 | 35,840 |
| Coal | 2,882 | (3,090) | 150 | (50) | (137) | | (245) |
| Base metals | | | | | | | |
| Nickel and other products | 15,504 | (11,145) | (331) | (268) | (399) | 13 | 3,374 |
| Copper | 5,770 | (3,198) | (82) | (17) | | | 2,473 |
| Other base metals products | | | 480 | | | | 480 |
| | 21,274 | (14,343) | 67 | (285) | (399) | 13 | 6,327 |
| Others | 548 | (889) | (529) | (404) | (4) | 262 | (1,016) |
| Total of continuing operations | 94,633 | (49,797) | (2,312) | (1,098) | (1,189) | 669 | 40,906 |
| Discontinued operations (Fertilizers) | | | | | | | |
| | 6,470 | (5,315) | (298) | (75) | (58) | 12 | 736 |
| Total | 101,103 | (55,112) | (2,610) | (1,173) | (1,247) | 681 | 41,642 |

| Consolidated Year ended December 31, 2015 | | | | | | | |
|--|--------------------------|--|--|----------------------------|--|--|-----------------------------|
| | Net operating revenue | Cost of goods sold and services rendered | Sales, administrative and other operating expenses | Research and evaluation | Pre operating and operational stoppage | Dividends received and interest from associates and joint ventures | Adjusted LAJIDA (EBITDA) |
| Ferrous minerals | | | | | | | |
| Iron ore | 41,427 | (25,505) | (1,140) | (395) | (417) | 87 | 14,057 |
| Iron ore Pellets | 11,916 | (7,008) | 34 | (13) | (81) | 708 | 5,556 |
| Ferroalloys and manganese | 518 | (583) | 1 | (1) | (61) | | (126) |
| Other ferrous products and services | 1,552 | (1,115) | 22 | (9) | (6) | 25 | 469 |
| | 55,413 | (34,211) | (1,083) | (418) | (565) | 820 | 19,956 |
| Coal | 1,739 | (2,857) | (435) | (73) | (208) | 109 | (1,725) |

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Base metals

| | | | | | | | |
|--|---------------|-----------------|----------------|----------------|----------------|--------------|---------------|
| Nickel and other products | 15,534 | (11,378) | (506) | (348) | (1,359) | | 1,943 |
| Copper | 4,957 | (3,049) | (114) | (31) | (2) | | 1,761 |
| Other base metals products | | | 722 | | | | 722 |
| | 20,491 | (14,427) | 102 | (379) | (1,361) | | 4,426 |
| Others | 414 | (464) | (543) | (456) | (2) | 135 | (916) |
| Total of continuing operations | 78,057 | (51,959) | (1,959) | (1,326) | (2,136) | 1,064 | 21,741 |
| Discontinued operations (Fertilizers) | 7,442 | (4,896) | (124) | (277) | (232) | | 1,913 |
| Total | 85,499 | (56,855) | (2,083) | (1,603) | (2,368) | 1,064 | 23,654 |

Adjusted LAJIDA (EBITDA) is reconciled to net income (loss) as follows:

From Continuing operations

| | Consolidated | | |
|--|---------------|--------------------------------|-----------------|
| | 2017 | Year ended December 31 2016 | 2015 |
| Net income (loss) from continuing operations | 20,278 | 17,455 | (45,337) |
| Depreciation, depletion and amortization | 11,842 | 12,107 | 12,450 |
| Income taxes | 4,607 | 9,567 | (19,339) |
| Financial results, net | 9,650 | (6,302) | 36,053 |
| LAJIDA (EBITDA) | 46,377 | 32,827 | (16,173) |
| Items to reconciled LAJIDA (EBITDA) adjusted | | | |
| Impairment and other results on non-current assets | 1,025 | 4,168 | 33,893 |
| Equity results in associates and joint ventures | (302) | (1,111) | 1,526 |
| Impairment and other results in associates and joint ventures | 579 | 4,353 | 1,431 |
| Dividends received and interest from associates and joint ventures | 1,313 | 669 | 1,064 |
| Adjusted LAJIDA (EBITDA) from continuing operations | 48,992 | 40,906 | 21,741 |

Table of Contents

From Discontinued operations

| | Consolidated Year ended December 31 | | |
|--|--|----------------|--------------|
| | 2017 | 2016 | 2015 |
| Loss from discontinued operations | (2,608) | (4,159) | (660) |
| Depreciation, depletion and amortization | 4 | 1,197 | 1,039 |
| Income taxes | (324) | (2,134) | 460 |
| Financial results, net | 89 | (69) | 485 |
| LAJIDA (EBITDA) | (2,839) | (5,165) | 1,324 |
| Items to reconciled LAJIDA (EBITDA) adjusted | | | |
| Impairment of non-current assets | 2,833 | 5,899 | 608 |
| Equity results in associates and joint ventures | 8 | (10) | (19) |
| Dividends received and interest from associates and joint ventures | 10 | 12 | |
| Adjusted LAJIDA (EBITDA) from discontinued operations | 12 | 736 | 1,913 |

b) Assets by segment

| | Consolidated Year ended December 31, 2017 | | | | |
|------------------|--|--|--|---|--|
| | Product inventory | Investments in associates and joint ventures | Property, plant and equipment and intangible (i) | Additions to property, plant and equipment and intangible (ii) | Depreciation, depletion and amortization (iii) |
| Ferrous minerals | 5,859 | 6,358 | 119,429 | 8,553 | 5,643 |
| Coal | 271 | 1,048 | 5,686 | 376 | 947 |
| Base metals | 3,336 | 43 | 78,080 | 3,231 | 5,157 |
| Others | 20 | 4,353 | 6,434 | 76 | 95 |
| Total | 9,486 | 11,802 | 209,629 | 12,236 | 11,842 |

| | Consolidated Year ended December 31, 2016 | | | | |
|------------------|--|--|--|---|--|
| | Product inventory | Investments in associates and joint ventures | Property, plant and equipment and intangible (i) | Additions to property, plant and equipment and intangible (ii) | Depreciation, depletion and amortization (iii) |
| Ferrous minerals | 3,697 | 5,894 | 113,526 | 11,384 | 5,593 |
| Coal | 412 | 929 | 6,216 | 2,136 | 652 |
| Base metals | 3,617 | 40 | 76,173 | 3,673 | 5,791 |
| Others | 7 | 5,183 | 7,096 | 150 | 71 |
| Total | 7,733 | 12,046 | 203,011 | 17,343 | 12,107 |

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(i) Goodwill is allocated mainly in ferrous minerals and base metals segments in the amount of R\$7,133 and R\$6,460 in December 31, 2017 and R\$4,060 and R\$5,981 in December 31, 2016, respectively.

(ii) Includes only cash effect.

(iii) Refers to amounts recognized in the income statement.

c) Investment in associates and joint ventures, intangible and property, plant and equipment by geographic area

| | Consolidated | | | | Consolidated | | | |
|--|-------------------|-------------------------------|--|----------------|-------------------|-------------------------------|----------------|----------------|
| | December 31, 2017 | | | Total | December 31, 2016 | | | Total |
| Investments in associates and joint ventures | Intangible | Property, plant and equipment | Investments in associates and joint ventures | | Intangible | Property, plant and equipment | | |
| Brazil | 9,900 | 20,615 | 111,750 | 142,265 | 10,338 | 15,387 | 112,468 | 138,193 |
| Canada | | 7,005 | 36,277 | 43,282 | | 6,524 | 33,460 | 39,984 |
| Americas, except Brazil and Canada | 663 | | 1,412 | 2,075 | 604 | | 98 | 702 |
| Europe | | | 1,303 | 1,303 | | | 2,084 | 2,084 |
| Indonesia | | | 9,220 | 9,220 | | | 9,687 | 9,687 |
| Asia, except Indonesia | 1,229 | | 3,638 | 4,867 | 1,104 | | 3,912 | 5,016 |
| Australia | | | 149 | 149 | | | 139 | 139 |
| New Caledonia | | | 9,809 | 9,809 | | | 10,062 | 10,062 |
| Mozambique | | 472 | 5,067 | 5,539 | | 484 | 5,589 | 6,073 |
| Oman | | 2 | 2,873 | 2,875 | | | 3,117 | 3,117 |
| Other regions | 10 | | 37 | 47 | | | | |
| Total | 11,802 | 28,094 | 181,535 | 221,431 | 12,046 | 22,395 | 180,616 | 215,057 |

Table of Contentsd) **Net operating revenue by geographic area****Consolidated
Year ended December 31, 2017**

| | Ferrous minerals | Coal | Base metals | Others | Total |
|---|-----------------------------|--------------|--------------------|---------------|----------------|
| Americas, except United States and Brazil | 1,896 | | 3,218 | 221 | 5,335 |
| United States of America | 1,137 | | 2,784 | 262 | 4,183 |
| Germany | 3,481 | | 933 | | 4,414 |
| Europe, except Germany | 5,499 | 1,275 | 6,347 | 35 | 13,156 |
| Middle East/Africa/Oceania | 5,640 | 543 | 41 | | 6,224 |
| Japan | 6,150 | 409 | 1,277 | | 7,836 |
| China | 43,005 | | 1,842 | | 44,847 |
| Asia, except Japan and China | 4,251 | 2,268 | 4,927 | | 11,446 |
| Brazil | 9,232 | 508 | 597 | 754 | 11,091 |
| Net operating revenue | 80,291 | 5,003 | 21,966 | 1,272 | 108,532 |

**Consolidated
Year ended December 31, 2016**

| | Ferrous minerals | Coal | Base metals | Others | Total |
|---|-----------------------------|--------------|--------------------|---------------|---------------|
| Americas, except United States and Brazil | 1,167 | 72 | 4,079 | | 5,318 |
| United States of America | 792 | | 2,602 | 81 | 3,475 |
| Germany | 3,719 | | 1,053 | | 4,772 |
| Europe, except Germany | 5,107 | 723 | 5,381 | 59 | 11,270 |
| Middle East/Africa/Oceania | 4,266 | 329 | 72 | 1 | 4,668 |
| Japan | 4,464 | 432 | 1,123 | | 6,019 |
| China | 41,135 | 223 | 2,420 | | 43,778 |
| Asia, except Japan and China | 3,125 | 1,052 | 4,053 | | 8,230 |
| Brazil | 6,154 | 51 | 491 | 407 | 7,103 |
| Net operating revenue | 69,929 | 2,882 | 21,274 | 548 | 94,633 |

**Consolidated
Year ended December 31, 2015**

| | Ferrous minerals | Coal | Base metals | Others | Total |
|---|-----------------------------|--------------|--------------------|---------------|---------------|
| Americas, except United States and Brazil | 1,185 | 64 | 3,697 | | 4,946 |
| United States of America | 95 | | 2,640 | 69 | 2,804 |
| Germany | 3,420 | | 1,327 | | 4,747 |
| Europe, except Germany | 4,873 | 347 | 5,137 | | 10,357 |
| Middle East/Africa/Oceania | 3,323 | 314 | 273 | | 3,910 |
| Japan | 5,038 | 237 | 1,223 | | 6,498 |
| China | 28,477 | 149 | 2,186 | | 30,812 |
| Asia, except Japan and China | 3,545 | 553 | 3,325 | | 7,423 |
| Brazil | 5,457 | 75 | 683 | 345 | 6,560 |
| Net operating revenue | 55,413 | 1,739 | 20,491 | 414 | 78,057 |

Accounting policy

Revenue is recognized when Vale transfers to its customers all of the significant risks and rewards of ownership of the product sold or when the services are rendered. Net revenue excludes any applicable sales taxes and is recognized at the fair value of the consideration received or receivable to the extent that it is probable that economic benefits will flow to Vale and the revenues can be reliably measured.

Depending on the contract, revenue sales can be recognized when the product is available at the loading port, loaded on the ship, at the port of discharge or at the customer's warehouse. Service revenues are recognized in the amount by which the services are rendered and accepted by the customer.

In some cases, the sale price is determined on a provisional basis at the date of sale and adjustments to the sales price subsequently occur based on movements in the quoted market or contractual prices up to the date of final pricing. Revenue is recognized based on the estimated fair value of the total consideration receivable, and the provisionally priced sales mechanism embedded within these sale arrangements has the character of a derivative. Accordingly, the fair value of the final sales price adjustment is re-estimated continuously and changes in fair value are recognized as operational revenue in the income statement.

Amounts billed to customers for shipping related to products sold by the Company are recognized as revenue when the Company is responsible for shipping. Shipping costs are recognized as operating costs.

Table of Contents

Commodity price risk - The commodity price risk arises from volatility of iron ore, nickel, copper and coal prices. The Company is mostly exposed to the fluctuations in the iron ore and copper price. The selling price these products can be measured reliably at each period, since the price is quoted on an active market.

As of December 31, 2017, the Company had 33 million tons (2016: 36 million tons) provisionally priced based on iron ore forward prices and 106 thousand tons (2016:116 thousand tons) provisionally priced based on copper forward prices. The final price of these sales will be determined during the first quarter of 2018. A 10% change in the price of iron ore realized on the provisionally priced sales, all other factors held constant, would increase or reduce net income by R\$751. A 10% change in the price of copper realized on the provisionally priced sales, all other factors held constant, would increase or reduce net income by R\$284.

4. Special events occurred during the year

The special events occurred in the consolidated financial statements during the year are those that, in the Company's judgment, have significant effect on: (i) its operations; and/or (ii) corporate governance structure; and/or (iii) the income statement due to their size and nature. To determine whether an event or transaction should be disclosed as special events, the Company considers quantitative and qualitative factors, such as frequency and magnitude.

The special events identified by the Company are as follows:

a) Vale's corporate governance restructuring

At the General Extraordinary Shareholders Meeting, held on June 27, 2017, shareholders approved the corporate restructuring of the Company proposed by Valepar S.A. (former controlling shareholder). The corporate restructuring was based on (i) conversion of Vale class A preferred shares into common shares; (ii) amendment of Vale's by-laws, so as to adjust to *Novo Mercado* rules; and (iii) the merger of Valepar S.A. into Vale.

The transaction was concluded on November 21, 2017 and the restructuring was approved at the General Extraordinary Shareholders Meeting on December 21, 2017. Further details are disclosed in note 29.

b) Events with significant effect on the income statement

| | Year ended December 31 | | |
|---|------------------------|----------------------|-----------------|
| | 2017 | Consolidated 2016 | 2015 |
| Nacala Logistic Corridor | 1,438 | | |
| Samarco Provision | (580) | (3,967) | |
| Impairment of non-current assets - Fertilizers business | (2,833) | (5,899) | (608) |
| Impairment of non-current assets and onerous contracts | (883) | (3,940) | (33,945) |
| Gold stream transaction | | 480 | 722 |
| Deferred income tax in foreign jurisdiction | | | 11,729 |
| Total | (2,858) | (13,326) | (22,102) |

Nacala Logistic Corridor - In March 2017, the Company concluded the transaction with Mitsui to sell 15% of its stake in Vale Moçambique and 50% of its stake in the Nacala Logistics Corridor and recognized a gain in the income statement of R\$1,438 (US\$458 million). Further details are disclosed in note 15.

Samarco - In 2017, the Company recognized in the income statement the amount of R\$128 (2016: R\$3,733) in respect of additions to the provision to comply with the reparation and compensation programs related to the dam failure of Samarco Mineração S.A. The Company also expensed an amount of R\$452 (2016: R\$234) applied by Samarco to funds its working capital requirements. Further details are disclosed in note 21.

Fertilizers - In December 2016, the Company approved the sale of fertilizers assets and the acquisition of a noncontrolling interest in The Mosaic Company (Mosaic). The Company assessed the fair value less cost of sell of the fertilizer business segment and an impairment loss of R\$5,899 was recognized in the income statement from discontinued operations in the year ended December 31, 2016. In January 2018 (subsequent event), the Company and Mosaic concluded the transaction, which was preceded by final adjustments agreed by the parties under the original terms and conditions of the negotiation. As consequence of these adjustments, an impairment loss of R\$2,325 was recognized in the income statement from discontinued operations in December 2017. Additionally, in November 2017, the Company entered into an agreement with Yara International ASA to sell its nitrogen assets located in Cubatão, Brazil and an impairment loss of R\$508 was recognized in the income statement from discontinued operations in the year ended December 31, 2017. Further details are disclosed in note 14.

Table of Contents

Impairment of non-current assets and onerous contracts - In 2017, the Company placed an underground mine in Sudbury in care and maintenance and an impairment of R\$428 was recognized in the income statement. In 2016, the Company recognized an impairment loss of R\$3,940 mainly by the reduction in the nickel price projections. In 2015, the Company recognized an impairment loss of R\$33,945 mainly by: (i) the reduction in estimated future coal prices combined with the increase of logistics costs and (ii) the reduction the recoverable values of the VNL and VNC CGUs. Further details are disclosed in note 19.

Gold stream transaction - In March 2015 and August 2016, a gold transaction with Wheaton Precious Metals Corp. (WPW) entered into 2013, was amended to include in each contract an additional 25% of the gold extracted as by-product of the Salobo copper mine. Furthermore, the Company recognized a gain of the result on sale of mineral rights in the amount of R\$480 and R\$722 in the year ended December 31, 2016 and 2015, respectively, see note 7.

Deferred income tax - In 2015, in the first adoption of the Law 12.973, the Company recognized assets deferred income tax related to accumulated losses of subsidiaries abroad in the amount of R\$11,729, see note 8.

5. Costs and expenses by nature

a) Cost of goods sold and services rendered

| | Year ended December 31 | | | Parent company | |
|----------------------------|------------------------|----------------------|---------------|----------------|---------------|
| | 2017 | Consolidated 2016 | 2015 | 2017 | 2016 |
| Personnel | 7,332 | 7,222 | 7,030 | 3,986 | 3,445 |
| Materials and services | 12,183 | 10,808 | 9,827 | 5,504 | 5,438 |
| Fuel oil and gas | 4,197 | 4,280 | 4,037 | 2,869 | 2,714 |
| Maintenance | 9,899 | 9,487 | 8,520 | 6,926 | 6,068 |
| Energy | 3,078 | 2,406 | 1,602 | 1,463 | 1,028 |
| Acquisition of products | 1,728 | 1,762 | 2,531 | 652 | 821 |
| Depreciation and depletion | 11,126 | 11,346 | 10,821 | 5,078 | 4,808 |
| Freight | 10,717 | 8,641 | 11,877 | 106 | 71 |
| Others | 6,997 | 5,191 | 6,535 | 6,743 | 5,270 |
| Total | 67,257 | 61,143 | 62,780 | 33,327 | 29,663 |
| Cost of goods sold | 65,300 | 59,409 | 61,072 | 31,991 | 28,601 |
| Cost of services rendered | 1,957 | 1,734 | 1,708 | 1,336 | 1,062 |

| | | | | | |
|--------------|---------------|---------------|---------------|---------------|---------------|
| Total | 67,257 | 61,143 | 62,780 | 33,327 | 29,663 |
|--------------|---------------|---------------|---------------|---------------|---------------|

b) **Selling and administrative expenses**

| | Year ended December 31 | | | | | |
|-------------------------------|------------------------|----------------------|--------------|----------------|------|--------------|
| | 2017 | Consolidated 2016 | 2015 | Parent company | | |
| | | | | 2017 | 2016 | |
| Personnel | 747 | 727 | 822 | 514 | | 473 |
| Services | 259 | 248 | 354 | 152 | | 148 |
| Depreciation and amortization | 292 | 414 | 437 | 185 | | 300 |
| Travel expenses | 28 | 29 | 36 | 19 | | 17 |
| Taxes and rents | 37 | 46 | 52 | 8 | | 18 |
| Others | 334 | 291 | 308 | 81 | | 65 |
| Total | 1,697 | 1,755 | 2,009 | 959 | | 1,021 |

c) **Others operational expenses (incomes), net**

| | Year ended December 31 | | | | | |
|--|------------------------|----------------------|------------|----------------|------|--------------|
| | 2017 | Consolidated 2016 | 2015 | Parent company | | |
| | | | | 2017 | 2016 | |
| Provision for litigation | 540 | 487 | 46 | 423 | | 524 |
| Profit sharing program | 476 | 252 | 52 | 307 | | 137 |
| Disposals (reversals) of materials and inventories | 52 | (86) | 224 | 43 | | (56) |
| Others | 270 | 284 | 266 | 120 | | 561 |
| Total | 1,338 | 937 | 588 | 893 | | 1,166 |

Table of Contents**6. Financial result**

| | Year ended December 31 | | | | |
|--|------------------------|----------------------|-----------------|------------------------|-----------------|
| | 2017 | Consolidated 2016 | 2015 | Parent company 2017 | 2016 |
| Financial expenses | | | | | |
| Loans and borrowings gross interest | (5,418) | (6,152) | (5,503) | (5,606) | (6,330) |
| Capitalized loans and borrowing costs | 1,179 | 2,291 | 2,531 | 1,176 | 1,679 |
| Derivative financial instruments | (1,780) | (1,655) | (11,969) | (1,257) | (957) |
| Indexation and exchange rate variation (a) | (8,432) | (10,405) | (46,346) | (7,465) | (9,612) |
| Participative stockholders debentures | (1,982) | (1,456) | 3,039 | (1,982) | (1,456) |
| Expenses of REFIS | (1,262) | (1,787) | (1,795) | (1,236) | (1,751) |
| Others | (3,029) | (2,191) | (1,978) | (1,855) | (1,473) |
| | (20,724) | (21,355) | (62,021) | (18,225) | (19,900) |
| Financial income | | | | | |
| Short-term investments | 560 | 336 | 492 | 208 | 209 |
| Derivative financial instruments | 3,240 | 5,827 | 3,885 | 2,542 | 4,290 |
| Indexation and exchange rate variation (b) | 6,302 | 21,224 | 21,237 | 5,958 | 21,021 |
| Others | 972 | 270 | 354 | 156 | 136 |
| | 11,074 | 27,657 | 25,968 | 8,864 | 25,656 |
| Financial results, net | (9,650) | 6,302 | (36,053) | (9,361) | 5,756 |
| Summary of indexation and exchange rate variation | | | | | |
| Loans and borrowings | (731) | 17,885 | (34,625) | (662) | 17,715 |
| Others | (1,399) | (7,066) | 9,516 | (845) | (6,306) |
| Net (a) + (b) | (2,130) | 10,819 | (25,109) | (1,507) | 11,409 |

As from January 1, 2017, the Company applies net investment hedge accounting in foreign operation. Further details are disclosed in note 24.

7. Deferred revenue - Gold stream transaction

In 2013, the Company entered into a gold transaction with Wheaton Precious Metals Corp. (WPM), and amended in March 2015 and August 2016, to sell 75% of the gold extracted as a by-product of the Salobo copper mine and 70% of the gold extracted as a by-product of Sudbury nickel mines.

The transactions were bifurcated into two identifiable components (i) the sale of the mineral rights and, (ii) the services for gold extraction on the portion in which Vale operates as an agent for WPM gold extraction.

The result on sale of mineral rights from the additional transactions of R\$480 and R\$722 was recognized in the years ended December 31, 2016 and 2015, respectively, under Other operating expenses, net .

Critical accounting estimates and judgments

Defining the gain on sale of mineral interest and the deferred revenue portion of the transaction requires the use of critical accounting estimates as follows:

- Discount rates used to measure the present value of future inflows and outflows;
- Allocation of costs between nickel or copper and gold based on relative prices;
- Expected margin for the independent elements (sale of mineral rights and service for gold extraction) based on Company's best estimate.

Table of Contents8. **Income taxes**a) **Deferred income tax assets and liabilities**

| | Consolidated | | Parent company | |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Taxes losses carryforward | 14,791 | 20,188 | 6,994 | 10,310 |
| Temporary differences: | | | | |
| Employee post retirement obligations | 2,263 | 2,022 | 586 | 483 |
| Provision for litigation | 1,510 | 702 | 1,435 | 661 |
| Timing differences arising on assets | 4,195 | 4,119 | 3,319 | 3,264 |
| Fair value of financial instruments | 1,816 | 546 | 1,816 | 1,921 |
| Allocated goodwill | (8,048) | (7,325) | | |
| Others | (255) | (1,861) | 50 | (1,340) |
| | 1,481 | (1,797) | 7,206 | 4,989 |
| Total | 16,272 | 18,391 | 14,200 | 15,299 |
| Assets | 21,959 | 23,931 | 14,200 | 15,299 |
| Liabilities | (5,687) | (5,540) | | |
| | 16,272 | 18,391 | 14,200 | 15,299 |

Changes in deferred tax are as follows:

| | Consolidated | | Parent company | |
|--|----------------|----------------|----------------|----------------|
| | Assets | Liabilities | Total | Total |
| Balance at December 31, 2015 | 30,867 | 6,520 | 24,347 | 17,292 |
| Taxes losses carryforward | (4,800) | | (4,800) | (1,983) |
| Timing differences arising on assets | 1,025 | | 1,025 | 925 |
| Fair value of financial instruments | (2,722) | | (2,722) | (1,294) |
| Allocated goodwill | | (1,206) | 1,206 | |
| Others | (969) | | (969) | (556) |
| Effect in income statement | (7,466) | (1,206) | (6,260) | (2,908) |
| Transfers between asset and liabilities | 1,087 | 1,087 | | |
| Translation adjustment | (1,876) | (899) | (977) | |
| Other comprehensive income | (121) | 38 | (159) | 55 |
| Effect of discontinued operations | | | | |
| Income tax | 2,127 | | 2,127 | 860 |
| Transfer to net assets held for sale | (687) | | (687) | |
| Balance at December 31, 2016 | 23,931 | 5,540 | 18,391 | 15,299 |
| Taxes losses carryforward | (6,615) | | (6,615) | (3,316) |
| Timing differences arising on assets | 335 | | 335 | 421 |
| Fair value of financial instruments | 1,222 | | 1,222 | (105) |

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| | | | | |
|--|----------------|--------------|----------------|---------------|
| Allocated goodwill | | (369) | 369 | |
| Others | 2,746 | | 2,746 | 2,043 |
| Effect in income statement | (2,312) | (369) | (1,943) | (957) |
| Transfers between asset and liabilities | 131 | 131 | | |
| Translation adjustment | 118 | 350 | (232) | |
| Other comprehensive income | (233) | 35 | (268) | 224 |
| Effect of discontinued operations | | | | |
| Income tax | 324 | | 324 | (366) |
| Balance at December 31, 2017 | 21,959 | 5,687 | 16,272 | 14,200 |

Law 12.973 - The Brazilian corporate tax law was amended at the end of 2014 and became effective as from fiscal year 2015. The change provided that profits from foreign subsidiaries are taxable in Brazil, on an accrual basis, applying the differential between the nominal local tax rate and the Brazilian tax rates (34%) considering the profit before tax in local GAAP (Generally Accepted Accounting Principles) and local currency. Accordingly, from January 1st, 2015 the results from foreign subsidiaries are recognized on that basis.

In accordance with article 77 of law 12.973, the losses generated by the foreign subsidiaries, before income taxes and the equity results, may be offset against their future profits, subject to certain conditions.

In 2015, in the first adoption, the Company recognized deferred income tax assets related to accumulated losses of subsidiaries abroad in the amount of R\$11,729. Based on Company's projections, the deferred tax assets are expected to be utilized up to 5 years.

The tax loss carryforward does not expire in the Brazilian jurisdiction and the compensation is limited to 30% of the taxable income for the year. For local results taxable in Brazil, there is no restriction to compensated profits from foreign subsidiaries against previously recorded deferred tax assets.

Table of Contents**b) Income tax reconciliation - Income statement**

The total amount presented as income taxes in the income statement is reconciled to the rate established by law, as follows:

| | Year ended December 31 | | | | |
|--|------------------------|----------------------|-----------------|------------------------|----------------|
| | 2017 | Consolidated 2016 | 2015 | Parent company 2017 | 2016 |
| Income (loss) before income taxes | 24,885 | 27,022 | (64,676) | 22,328 | 22,555 |
| Income taxes at statutory rates - 34% | (8,461) | (9,187) | 21,990 | (7,592) | (7,669) |
| Adjustments that affect the basis of taxes: | | | | | |
| Income tax benefit from interest on stockholders' equity | 2,329 | 291 | 1,054 | 2,329 | 291 |
| Tax incentives | 1,175 | 1,130 | 204 | 750 | 953 |
| Equity results | 99 | 378 | (518) | 1,903 | 2,589 |
| Unrecognized tax losses of the year | (1,389) | (2,465) | (3,021) | | |
| Nondeductible effect of impairment | (138) | (325) | (7,222) | | |
| Others | 1,778 | 611 | 6,852 | 495 | (1,258) |
| Income taxes | (4,607) | (9,567) | 19,339 | (2,115) | (5,094) |

c) Tax incentives

In Brazil, Vale has tax incentives to partially reduce the income tax generated by the operations conducted in the North and Northeast regions that includes iron ore, manganese, copper and nickel. The incentive is calculated based on the taxable income of the incentive activity (tax operating income) and takes into account the allocation of tax operating income into different incentives applicable to different tranches of production during the periods specified for each product, generally 10 years. Most of our incentives are expected to expire up to 2024. An amount equal to that obtained with the tax saving must be appropriated in retained earnings reserve account in stockholders' equity, and cannot be distributed as dividends to stockholders.

In addition to those incentives, 30% of the income tax due based on the tax operating income can be reinvested on the purchase of machinery and equipment, subject to subsequent approval by the regulatory agency responsible, Superintendência do Desenvolvimento da Amazonia (SUDAM) and the Superintendência do Desenvolvimento do Nordeste (SUDENE). The reinvestment is accounted in retained earnings reserve account, which restricts the distribution as dividends to stockholders.

Vale is subject to the revision of income tax by local tax authorities in a range up to 10 years depending on jurisdiction where the Company operates.

d) Income taxes - Settlement program (REFIS)

The balance mainly relates to REFIS to settle most of the claims related to the collection of income tax and social contribution on equity gains of foreign subsidiaries and affiliates from 2003 to 2012. As at December 31, 2017, the balance of R\$17,780 (R\$1,604 as current and R\$16,176 as non-current) is due in 130 remaining monthly installments, bearing interest at the SELIC rate (Special System for Settlement and Custody), while at December 31, 2016, the balance was R\$17,662 (R\$1,492 as current and R\$16,170 as non-current).

As at December 31, 2017, the SELIC rate was 7,0% per annum (13.75% per annum at December 31, 2016).

Accounting policy

The recognition of income taxes as deferred taxes is based on temporary differences between carrying amount and the tax basis of assets and liabilities as well as taxes losses carryforwards. The deferred income taxes assets and liabilities are offset when there is a legally enforceable right on the same taxable entity.

The deferred taxes assets arising from taxes losses and temporary differences are not recognized when is not probable that future taxable profit will be available against which temporary differences and/or tax losses can be utilized.

Income taxes are recognized in the income statement, except for items recognized directly in stockholders' equity. The provision for income tax is calculated individually for each entity of the Company based on Brazilian tax rates, on an accrual basis, by applying the differential between the nominal local tax rates (based on rules enacted in the location of the entity) and the Brazilian tax rate.

Table of Contents**Critical accounting estimates and judgments**

Deferred tax assets arising from tax losses, negative social contribution basis and temporary differences are registered taking into account the analysis of future performance, considering economic and financial projections, prepared based on internal assumptions and macroeconomic environment, trade and tax scenarios that may be subject to changes in the future. The assumptions of future profits are based on production and sales planning, commodity prices, operational costs, restructuring plans, reclamation and planned capital costs.

9. Basic and diluted earnings (loss) per share

As disclosed in note 29, the Company converted its class A preferred shares into common shares, without changing the amount of share capital. Therefore, the weighted average number of shares was restated as if the conversion had occurred at the beginning of the last comparative year presented.

The basic and diluted earnings (loss) per share are presented below:

| | 2017 | Year ended December 31 2016 | 2015 |
|---|---------------|--------------------------------|-----------------|
| Net income (loss) attributable to Vale's stockholders: | | | |
| Net income (loss) from continuing operations | 20,213 | 17,461 | (43,522) |
| Loss from discontinued operations | (2,586) | (4,150) | (691) |
| Net income (loss) | 17,627 | 13,311 | (44,213) |
| Thousands of shares (restated) | | | |
| Weighted average number of shares outstanding - common shares | 5,197,432 | 5,197,432 | 5,197,432 |
| Basic and diluted earnings (loss) per share from continuing operations (restated): | | | |
| Common share (R\$) | 3.89 | 3.36 | (8.37) |
| Basic and diluted loss per share from discontinued operations (restated): | | | |
| Common share (R\$) | (0.50) | (0.80) | (0.14) |
| Basic and diluted earnings (loss) per share (restated): | | | |
| Common share (R\$) | 3.39 | 2.56 | (8.51) |

The Company does not have potential outstanding shares with dilutive effect on the earnings (loss) per share.

10. Accounts receivable

| | Consolidated | | Parent company | |
|--|-------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Accounts receivable | 8,802 | 12,131 | 9,627 | 26,305 |
| Impairment of accounts receivable | (200) | (194) | (67) | (82) |
| | 8,602 | 11,937 | 9,560 | 26,223 |
| Accounts receivable related to the steel sector - % | 82.90% | 83.44% | 79.48% | 90.55% |

| | Year ended December 31 | | | | |
|--|------------------------|-------------------|------|---------------------|---------------------|
| | 2017 | Consolidated 2016 | 2015 | Parent company 2017 | Parent company 2016 |
| Impairment of accounts receivable recorded in the income statement | (14) | (16) | 44 | 4 | 3 |

There is no customer that individually represents over 10% of accounts receivable or revenues.

Accounting policy

Accounts receivable are financial instruments classified in the category loan and receivables and are the total amount due from sale of products and services rendered by the Company. Accounts receivable are initially recognized at fair value and subsequently measured at amortized cost, less provision for impairment of accounts receivable, when applicable.

Commercial credit risk management - For the commercial credit exposure, which arises from sales to final customers, the risk management area, in accordance with the current delegation level, approves or request the approval of credit risk limits for each counterparty.

Table of Contents

Vale attributes an internal credit risk rating for each counterparty using its own quantitative methodology for credit risk analysis, which is based on market prices, external credit ratings and financial information of the counterparty, as well as qualitative information regarding the counterparty's strategic position and history of commercial relations.

Based on the counterparty's credit risk, risk mitigation strategies may be used to manage the Company's credit risk. The main credit risk mitigation strategies include non-recourse sale of receivables, insurance instruments, letters of credit, corporate and bank guarantees, mortgages, among others.

Vale has a diversified accounts receivable portfolio from a geographical standpoint, with Asia, Europe and Brazil the regions with more significant exposures. According to each region, different guarantees can be used to enhance the credit quality of the receivables.

11. Inventories

| | Consolidated | | Parent company | |
|----------------------|-------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Product inventory | 7,324 | 5,107 | 2,796 | 2,443 |
| Work in progress | 2,162 | 2,626 | 273 | 272 |
| Consumable inventory | 3,501 | 3,180 | 1,532 | 1,267 |
| Total | 12,987 | 10,913 | 4,601 | 3,982 |

In 2017, the Company recognized in the consolidated income statement a provision in respect of the net realizable value of product inventory, in the amount of R\$284 (2016: R\$649 and 2015: R\$2,026). The provision recognized in the 2017 income statement of the Parent Company was R\$170 (2016: R\$208).

Product inventories by segments are presented in note 3(b).

Accounting policy

Inventories are stated at the lower of cost or the net realizable value. The inventory production cost is determined on the basis of variable and fixed costs, direct and indirect costs of production, using the average cost method. At each statement of financial position date, inventories are assessed for impairment and a provision for losses on obsolete or slow-moving inventory may be recognized. The write-downs and reversals are included in Cost of goods sold and services rendered.

12. Recoverable taxes

Recoverable taxes are presented net of provisions for losses on tax credits.

| | Consolidated | | Parent company | |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Value-added tax | 2,934 | 2,361 | 1,561 | 1,293 |
| Brazilian federal contributions | 2,909 | 5,212 | 2,517 | 4,825 |
| Others | 142 | 91 | 75 | 67 |
| Total | 5,985 | 7,664 | 4,153 | 6,185 |
| Current | 3,876 | 5,296 | 2,091 | 3,962 |
| Non-current | 2,109 | 2,368 | 2,062 | 2,223 |
| Total | 5,985 | 7,664 | 4,153 | 6,185 |

Table of Contents**13. Other financial assets and liabilities**

| | Consolidated | | | |
|---|-------------------|------------------------------|-------------------|----------------------------------|
| | December 31, 2017 | Current December 31, 2016 | December 31, 2017 | Non-Current December 31, 2016 |
| Other financial assets | | | | |
| Financial investments | 61 | 59 | | |
| Loans | | | 498 | 587 |
| Derivative financial instruments (note 24) | 351 | 892 | 1,497 | 1,454 |
| Related parties (note 30) | 6,277 | | 8,695 | |
| | 6,689 | 951 | 10,690 | 2,041 |
| Other financial liabilities | | | | |
| Derivative financial instruments (note 24) | 344 | 1,349 | 2,269 | 3,991 |
| Related parties (note 30) | 893 | 1,150 | 3,226 | 287 |
| Participative stockholders debentures | | | 4,080 | 2,526 |
| | 1,237 | 2,499 | 9,575 | 6,804 |

| | Parent company | | | |
|---|-------------------|------------------------------|-------------------|----------------------------------|
| | December 31, 2017 | Current December 31, 2016 | December 31, 2017 | Non-Current December 31, 2016 |
| Other financial assets | | | | |
| Financial investments | 4 | 4 | | |
| Loans | | | 18 | 114 |
| Derivative financial instruments (note 24) | 199 | 338 | 1,268 | 1,304 |
| Related parties (note 30) | 206 | 323 | 579 | 760 |
| | 409 | 665 | 1,865 | 2,178 |
| Other financial liabilities | | | | |
| Derivative financial instruments (note 24) | 311 | 1,033 | 2,113 | 3,427 |
| Related parties (note 30) | 4,102 | 8,923 | 48,762 | 50,849 |
| Participative stockholders debentures | | | 4,080 | 2,526 |
| | 4,413 | 9,956 | 54,955 | 56,802 |

Participative stockholders debentures

At the time of its privatization in 1997, Vale issued debentures to then-existing stockholders, including the Brazilian Government. The debentures terms were set to ensure that pre-privatization stockholders would participate in potential future benefits that might be obtained from exploiting mineral resources.

A total of 388,559,056 debentures were issued with a par value of R\$0.01 (one cent of Brazilian Real) and are inflation-indexed to the General Market Price Index (IGP-M), as set forth in the Issue Deed. The Company paid as remuneration the amount of R\$428 and R\$268, respectively, for the year ended December 31, 2017 and 2016.

14. Non-current assets and liabilities held for sale and discontinued operations

| | December 31, 2017 | | Consolidated | | Total |
|--|-------------------|---------------|---------------|-----------------|---------------|
| | Fertilizers | Fertilizers | Nacala | Shipping assets | |
| Assets | | | | | |
| Accounts receivable | 297 | 279 | 21 | | 300 |
| Inventories | 1,522 | 1,261 | 7 | | 1,268 |
| Other current assets | 363 | 348 | 370 | | 718 |
| Investments in associates and joint ventures | 274 | 295 | | | 295 |
| Property, plant and equipment and Intangible | 7,110 | 8,779 | 13,246 | 1,164 | 23,189 |
| Other non-current assets | 2,299 | 2,216 | 8 | | 2,224 |
| Total assets | 11,865 | 13,178 | 13,652 | 1,164 | 27,994 |
| Liabilities | | | | | |
| Suppliers and contractors | 1,070 | 913 | 134 | | 1,047 |
| Other current liabilities | 711 | 626 | 44 | | 670 |
| Other non-current liabilities | 2,118 | 1,821 | 16 | | 1,837 |
| Total liabilities | 3,899 | 3,360 | 194 | | 3,554 |
| Net non-current assets held for sale | 7,966 | 9,818 | 13,458 | 1,164 | 24,440 |

Table of Contents

a) **Fertilizers (Discontinued operations)**

In December 2016, the Company entered into an agreement with The Mosaic Company (Mosaic) to sell (i) the phosphate assets located in Brazil, except for the assets located in Cubatão, Brazil; (ii) the control of Compañía Minera Miski Mayo S.A.C., in Peru; (iii) the potassium assets located in Brazil; and (iv) the potash projects in Canada. Originally, the agreed amount was R\$8,158 (US\$2,500 million), of which R\$4,074 (US\$1,250 million) would be paid in cash and the remaining consideration would be settled with 42.3 million common shares to be issued by Mosaic.

In January 2018 (subsequent event), the Company and Mosaic concluded the transaction, which was preceded by final adjustments agreed by the parties under the original terms and conditions of the negotiation. As consequence of these adjustments, the consideration has changed and the Company received R\$3,573 (US\$1,080 million) in cash and 34.2 million common shares, corresponding to 8.9% of Mosaic s equity after the issuance of these shares (R\$2,901 (US\$877 million), based on the Mosaic s quotation at closing date of the transaction).

Fertilizer s net assets were adjusted to reflect fair value less cost to sell and a loss of R\$2,325 (R\$5,899 in 2016) was recognized in the income statement from discontinued operations.

b) **Cubatão (part of the fertilizer segment)**

In November 2017, the Company entered into an agreement with Yara International ASA (Yara) to sell its assets located in Cubatão, Brazil. The agreed consideration is R\$844 (US\$255 million) to be paid in cash. The Company expects to complete the transaction by the end of 2018, subject to compliance with usual precedent conditions, including approval by the Brazilian anti-trust authority (CADE) and other authorities.

These assets were adjusted to reflect fair value less cost to sell and a loss of R\$508 was recognized in the income statement from discontinued operations.

The results for the years and the cash flows of discontinued operations of the Fertilizer segment are presented as follows:

| | 2017 | Consolidated Year ended December 31 2016 | 2015 |
|--------------------------------|------|--|------|
| Discontinued operations | | | |

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| | | | |
|--|----------------|----------------|--------------|
| Net operating revenue | 5,572 | 6,470 | 7,442 |
| Cost of goods sold and services rendered | (5,124) | (6,495) | (5,878) |
| Operating expenses | (450) | (448) | (690) |
| Impairment of non-current assets | (2,833) | (5,899) | (608) |
| Operating income (loss) | (2,835) | (6,372) | 266 |
| Financial Results, net | (89) | 69 | (485) |
| Equity results in associates and joint ventures | (8) | 10 | 19 |
| Loss before income taxes | (2,932) | (6,293) | (200) |
| Income taxes | 324 | 2,134 | (460) |
| Loss from discontinued operations | (2,608) | (4,159) | (660) |
| Net income (loss) attributable to noncontrolling interests | (22) | (9) | 31 |
| Loss attributable to Vale s stockholders | (2,586) | (4,150) | (691) |

Table of Contents

| | Consolidated Year ended December 31 | | |
|--|--|--------------|--------------|
| | 2017 | 2016 | 2015 |
| Discontinued operations | | | |
| Cash flow from operating activities | | | |
| Loss before income taxes | (2,932) | (6,293) | (200) |
| Adjustments: | | | |
| Equity results in associates and joint ventures | 8 | (10) | (19) |
| Depreciation, amortization and depletion | 4 | 1,197 | 1,039 |
| Impairment of non-current assets | 2,833 | 5,899 | 608 |
| Others | | (69) | 485 |
| Increase (decrease) in assets and liabilities | 356 | (226) | 15 |
| Net cash provided by operating activities | 269 | 498 | 1,928 |
| Cash flow from investing activities | | | |
| Additions to property, plant and equipment | (978) | (995) | (853) |
| Others | (1) | 29 | (83) |
| Net cash used in investing activities | (979) | (966) | (936) |
| Cash flow from financing activities | | | |
| Loans and borrowings | | | |
| Repayments | (107) | (59) | (207) |
| Net cash used in financing activities | (107) | (59) | (207) |
| Net cash provided (used) in discontinued operations | (817) | (527) | 785 |

Accounting policy

A non-current asset is classified as held for sale if its carrying amount will be recovered principally through a sale transaction rather than through continuing use.

The criteria for recognition the non-current assets as held for sale are only considered satisfied when the sale is highly probable and the asset (or disposal group of assets) is available for immediate sale in its present condition.

The Company measures the assets held for sale (or group of assets) at the lower of its carrying amount and fair value less costs to sell. If the carrying amount exceeds the fair value less costs to sell an impairment loss is recognized against income statement. Any subsequent reversal of impairment is recognized only to the extent of the loss previously recognized.

The assets and liabilities classified as held for sale are presented separately in the statement of financial position.

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The classification as a discontinued operation occurs through disposal, or when the operation meets the criteria to be classified as held for sale if this occurs earlier. A discontinued operation is a component of a Company business comprising cash flows and operations that may be clearly distinct from the rest of the Company and that represents an important separate line of business or geographical area of operations.

The result of discontinued operations is presented in a single amount in the income statement, including the results after income tax of these operations less any impairment loss. Cash flows attributable to operating, investing and financing activities of discontinued operations are disclosed in a separate note.

When an operation is classified as a discontinued operation, the income statements of the prior periods are restated as if the operation had been discontinued since the beginning of the comparative period.

Any noncontrolling interest relating to a group disposal held for sale is presented in the stockholders' equity and are not reclassified in the statement of financial position.

Table of Contents**15. Investments**

The material non-consolidated entities of the Company are as follows:

| | Location | Main activity/Business | % Ownership | % Voting capital | % Noncontrolling interest |
|---|-------------|------------------------|-------------|------------------|---------------------------|
| Joint ventures | | | | | |
| Aliança Geração de Energia S.A. | Brazil | Energy | 55.0% | 55.0% | 45.0% |
| Companhia Coreano-Brasileira de Pelotização | Brazil | Pellets | 50.0% | 50.0% | 50.0% |
| Companhia Hispano-Brasileira de Pelotização | Brazil | Pellets | 50.9% | 51.0% | 49.1% |
| Companhia Ítalo-Brasileira de Pelotização | Brazil | Pellets | 50.9% | 51.0% | 49.1% |
| Companhia Nipo-Brasileira de Pelotização | Brazil | Pellets | 51.0% | 51.1% | 49.0% |
| Companhia Siderúrgica do Pecém (CSP) | Brazil | Steel | 50.0% | 50.0% | 50.0% |
| MRS Logística S.A. | Brazil | Logistics | 48.2% | 46.8% | 51.8% |
| Nacala Corridor Holding Netherlands B.V. | Netherlands | Coal | 50.0% | 50.0% | 50.0% |
| Samarco Mineração S.A. | Brazil | Pellets | 50.0% | 50.0% | 50.0% |
| Direct and indirect associates | | | | | |
| Henan Longyu Energy Resources Co., Ltd. | China | Coal | 25.0% | 25.0% | 75.0% |
| VLI S.A. | Brazil | Logistics | 37.6% | 37.6% | 62.4% |

The composition of the relevant entities is presented in note 2(c).

a) Changes during the year

Changes in investments as follows:

| | Associates | Consolidated | | | Parent company | | | |
|------------------------------------|--------------|------------------------|---------------|------------------------|----------------|---------------|----------------|----------------|
| | | 2017 Joint ventures | Total | 2016 Joint ventures | 2017 Total | 2016 Total | | |
| Balance at January 1st, | 4,683 | 7,363 | 12,046 | 5,166 | 6,315 | 11,481 | 107,539 | 127,517 |
| Additions (i) | 1 | 291 | 292 | 2 | 889 | 891 | 1,895 | 1,925 |
| Disposals | | | | (23) | | (23) | | |
| Translation adjustment | 66 | (14) | 52 | (283) | (101) | (384) | 3,301 | (13,791) |
| Equity results in income statement | 184 | 118 | 302 | 237 | 874 | 1,111 | 5,579 | 7,614 |

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| | | | | | | | |
|---|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| Equity results from discontinued operations | | | 10 | | 10 | (2,219) | (5,010) |
| Equity results in statement of comprehensive income | (466) | (466) | | | | (826) | (140) |
| Dividends declared (ii) | (181) | (725) | (906) | (131) | (576) | (707) | (2,749) |
| Transfer to held for sale | | | | (295) | | (295) | 1,854 |
| Merger of Valepar (note 29) | | | | | | | 3,073 |
| Others | 21 | 461 | 482 | | (38) | (38) | (60) |
| Balance at December 31, | 4,774 | 7,028 | 11,802 | 4,683 | 7,363 | 12,046 | 117,387 |
| | | | | | | | 107,539 |

(i) Refers to the Coal and Other segments in the amounts of R\$237 and R\$55, respectively, on December 31, 2017 and R\$704 and R\$187, respectively, on December 31, 2016.

(ii) In 2017, the Company received dividends in the amount of R\$739, of which R\$584 were declared during 2017.

The investments by segments are presented in note 3(b).

b) Acquisitions and divestiture

2017

Nacala Logistic Corridor - In December 2014 and as amended in November 2016, the Company signed an agreement with Mitsui & Co., Ltd. (Mitsui) to transfer 50% of its stake of 66.7% in Nacala Logistic Corridor, which comprises entities that holds railroads and port concessions located in Mozambique and Malawi. Also, Mitsui committed to acquire 15% participation in the holding entity of Vale Moçambique, which holds the Moatize Coal Project.

In March 2017, the transaction was concluded and Vale received a consideration of R\$2,186 (US\$690 million). After the completion of the transaction, the Company (i) holds 81% of Vale Moçambique and retains the control of the Moatize Coal Project and (ii) shares control of the Nacala Logistic Corridor structure (Nacala BV), with Mitsui.

Table of Contents

As a consequence of sharing control of Nacala BV, the Company:

(i) derecognized the assets and liabilities classified as held for sale in the total amount of R\$13,130 (US\$4,144 million), from which R\$12,874 (US\$4,063 million) refers to property, plant and equipment and intangibles;

(ii) derecognized R\$44 (US\$14 million) related to cash and cash equivalents;

(iii) recognized a gain of R\$1,403 (US\$447 million) in the income statement related to the sale and the re-measurement at fair value, of its remaining interest at Nacala BV based on the consideration received;

(iv) reclassified the gain related to the cumulative translation adjustments on to income statements in the amount of R\$35 (US\$11 million);

The result of the transaction regarding the assets from Nacala's logistic corridor was recognized in the income statement as Impairment and other results on non-current assets .

The results of the transaction with the coal holding entity was recognized in Results from operation with noncontrolling interest in the amount of R\$329 (US\$105 million), directly in Stockholders' Equity.

The consideration received was recognized in the statement of cash flows in Proceeds from disposal of assets and investments in the amount of R\$1,387 (US\$435 million) and Transactions with noncontrolling stockholders in the amount of R\$799 (US\$255 million).

After the conclusion of the transaction, Vale has outstanding loan balances with Nacala BV and Pangea Emirates Ltd due to the deconsolidation of Nacala Logistic Corridor, the balances as at December 31, 2017 are disclosed in note 30. In November 2017, Nacala B.V. signed financing contracts in the form of a project finance in order to receive US\$2.7 billion contracted that will be used to settle a portion of the loan with the Company. The receipt of the proceeds is subject to precedent conditions for a project finance.

2016

Thyssenkrupp Companhia Siderúrgica do Atlântico Ltd (CSA) - In April 2016, the Company sold 100% of its interest at CSA (26.87%) for a non-significant amount. The transaction resulted in a loss of R\$266 due to recycling the Cumulative translation adjustments recognized in the income statement as Impairment and others results in associates and joint ventures .

2015

Energy generation assets - In December 2013, the Company signed agreements with CEMIG Geração e Transmissão S.A. (CEMIG GT) to incorporate two joint ventures, Aliança Norte Participações S.A. and Aliança Geração de Energia S.A and exchange of assets and shares. The transaction was completed in the first quarter of 2015, in which Vale received cash proceeds of R\$306 and recognized a gain of R\$55 as Impairment and others results in associates and joint ventures and a gain of R\$546 as Impairment and others results of non-current assets .

Shandong Yankuang International Coking Co., Ltd. (Yankuang) - In 2015, the Company completed the sale 100% of its interest at Yankuang, a producer of coking coal, methanol and other products. In this transaction, Vale recognized a gain of R\$241 as Impairment and others results in associates and joint ventures .

Table of Contents**Investments (continued)**

| | % ownership | % voting capital | Investments | | Equity results in the income statement | | | Dividends received (i) | | |
|---|-------------|------------------|----------------------|----------------------|--|--------------|-----------------|--------------------------------|--------------------------------|--------------------------------|
| | | | December 31, 2017 | December 31, 2016 | 2017 | 2016 | 2015 | Year ended December 31 2017 | Year ended December 31 2016 | Year ended December 31 2015 |
| Subsidiaries | | | | | | | | | | |
| Aços Laminados do Pará S.A. | 100.00 | 100.00 | 97 | 344 | (247) | | | | | |
| Biopalma da Amazônia S.A. | 97.61 | 97.61 | 994 | 857 | (173) | 59 | (593) | | | |
| Companhia Portuária da Baía de Sepetiba | 100.00 | 100.00 | 267 | 430 | 142 | 318 | 456 | 318 | 455 | 188 |
| Mineração Corumbaense Reunida S.A. | 100.00 | 100.00 | | | (682) | (117) | (1,184) | | | 147 |
| Minerações Brasileiras Reunidas S.A. | 58.93 | 98.32 | 5,417 | 6,262 | 731 | 716 | 557 | 542 | 1,329 | 324 |
| Minerações Brasileiras Reunidas S.A. - Goodwill | | | 4,060 | 4,060 | | | | | | |
| Salobo Metais S.A. | 100.00 | 100.00 | 9,535 | 8,557 | 1,564 | 598 | 696 | 417 | 258 | |
| Tecnored Desenvolvimento Tecnológico S.A. | 100.00 | 100.00 | 45 | 39 | (24) | (38) | | | | |
| Vale International Holdings GmbH | 100.00 | 100.00 | 7,830 | 8,345 | (609) | (2,694) | 2,069 | | | |
| Vale Canada Limited (ii) | 100.00 | 100.00 | 17,125 | 17,460 | (2,988) | (4,889) | (18,210) | | | |
| Vale International S.A. | 100.00 | 100.00 | 41,389 | 34,172 | 7,649 | 12,709 | (16,998) | | | |
| Vale Malaysia Minerals Sdn. Bhd. | 100.00 | 100.00 | 4,243 | 3,904 | 273 | 394 | (467) | | | |
| Vale Manganês S.A. | 100.00 | 100.00 | 679 | 595 | 84 | (81) | (45) | | | |
| Vale Shipping Holding Pte. Ltd. | 100.00 | 100.00 | 9,334 | 9,161 | 29 | 32 | (99) | | | |
| Valepar - Goodwill | | | 3,073 | | | | | | | |
| Others | | | 1,497 | 1,307 | (472) | (504) | (784) | 791 | 71 | 621 |
| | | | 105,585 | 95,493 | 5,277 | 6,503 | (34,602) | 2,068 | 2,113 | 1,280 |
| Joint Ventures | | | | | | | | | | |
| Aliança Geração de Energia S.A. | 55.00 | 55.00 | 1,889 | 1,896 | 86 | 157 | 173 | 93 | 137 | 115 |
| Aliança Norte Energia Participações S.A. | 51.00 | 51.00 | 529 | 483 | (7) | (21) | 2 | | | |
| California Steel Industries, Inc. | 50.00 | 50.00 | 663 | 604 | 135 | 107 | (90) | 88 | 13 | |
| Companhia Coreano-Brasileira de Pelotização | 50.00 | 50.00 | 295 | 221 | 161 | 61 | 85 | 62 | 90 | 67 |
| Companhia Hispano-Brasileira de Pelotização | 50.89 | 51.00 | 270 | 191 | 132 | 50 | 50 | 53 | 95 | 44 |

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| | | | | | | | | | | |
|--|-------|-------|----------------|----------------|--------------|--------------|-----------------|--------------|--------------|--------------|
| Companhia Ítalo-Brasileira de Pelotização | 50.90 | 51.00 | 263 | 223 | 128 | 56 | 69 | 54 | 33 | 36 |
| Companhia Nipo-Brasileira de Pelotização | 51.00 | 51.11 | 453 | 353 | 295 | 101 | 152 | 96 | 141 | 102 |
| Companhia Siderúrgica do Pecém | 50.00 | 50.00 | 867 | 1,716 | (849) | 135 | (1,047) | | | |
| MRS Logística S.A. | 48.16 | 46.75 | 1,711 | 1,592 | 219 | 201 | 143 | 95 | 34 | 87 |
| Samarco Mineração S.A. | 50.00 | 50.00 | | | | | (533) | | | 459 |
| Others | | | 90 | 86 | (183) | 27 | (11) | | 1 | 2 |
| | | | 7,030 | 7,365 | 117 | 874 | (1,007) | 541 | 544 | 912 |
| Associates | | | | | | | | | | |
| Henan Longyu Energy Resources Co., Ltd. | 25.00 | 25.00 | 1,048 | 929 | 63 | (18) | (13) | | | 109 |
| Mineração Rio Grande do Norte S.A. | 40.00 | 40.00 | 333 | 421 | 43 | 172 | 144 | 136 | 111 | 12 |
| Teal Minerals Inc. | 50.00 | 50.00 | | | (1) | (11) | (482) | | | |
| Thyssenkrupp Companhia Siderúrgica do Atlântico Ltd. | | | | | | | (274) | | | |
| VLI S.A. | 37.60 | 37.60 | 3,202 | 3,158 | 94 | 120 | 156 | 62 | | 25 |
| Zhuhai YPM Pellet Co. | 25.00 | 25.00 | 76 | 70 | | | 1 | | | |
| Others | | | 113 | 103 | (14) | (26) | (51) | | 14 | 6 |
| | | | 4,772 | 4,681 | 185 | 237 | (519) | 198 | 125 | 152 |
| Total of joint ventures and associates | | | 11,802 | 12,046 | 302 | 1,111 | (1,526) | 739 | 669 | 1,064 |
| Total | | | 117,387 | 107,539 | 5,579 | 7,614 | (36,128) | 2,807 | 2,782 | 2,344 |

(i) Dividends received by the Parent Company during the year ended at December 31, 2017 and 2016 were R\$2,644 and R\$1,591, respectively.

(ii) Includes foreign subsidiaries of the base metals segment.

Table of Contents**c) Summarized financial information**

The summarized financial information about relevant associates and joint-ventures for the Company are as follows:

| | December 31, 2017 | | | | | |
|----------------------------|----------------------------|----------------|-----------------|---------------|--------------|---------------|
| | Aliança Geração de Energia | Joint ventures | | | Associates | |
| | | CSP | Pelletizing (i) | MRS Logística | Henan Longyu | VLI S.A. |
| Current assets | 453 | 2,511 | 2,507 | 1,021 | 3,545 | 2,442 |
| Non-current assets | 3,972 | 12,281 | 1,024 | 6,813 | 1,396 | 13,795 |
| Total assets | 4,425 | 14,792 | 3,531 | 7,834 | 4,941 | 16,237 |
| Current liabilities | 285 | 3,509 | 994 | 1,498 | 749 | 1,769 |
| Non-current liabilities | 705 | 9,549 | 16 | 2,784 | | 5,952 |
| Total liabilities | 990 | 13,058 | 1,010 | 4,282 | 749 | 7,721 |
| Stockholders equity | 3,435 | 1,734 | 2,521 | 3,552 | 4,192 | 8,516 |
| Net income (loss) | 157 | (1,698) | 1,410 | 454 | 252 | 251 |

| | December 31, 2016 | | | | | |
|----------------------------|----------------------------|----------------|-----------------|---------------|--------------|---------------|
| | Aliança Geração de Energia | Joint ventures | | | Associates | |
| | | CSP | Pelletizing (i) | MRS Logística | Henan Longyu | VLI S.A. |
| Current assets | 376 | 2,422 | 1,278 | 759 | 2,942 | 1,269 |
| Non-current assets | 3,935 | 12,415 | 1,036 | 6,814 | 1,486 | 13,587 |
| Total assets | 4,311 | 14,837 | 2,314 | 7,573 | 4,428 | 14,856 |
| Current liabilities | 537 | 2,166 | 355 | 1,410 | 652 | 2,206 |
| Non-current liabilities | 326 | 9,240 | 11 | 2,858 | 62 | 4,251 |
| Total liabilities | 863 | 11,406 | 366 | 4,268 | 714 | 6,457 |
| Stockholders equity | 3,448 | 3,431 | 1,948 | 3,305 | 3,714 | 8,399 |
| Net income (loss) | 285 | 270 | 531 | 417 | (72) | 318 |

(i) Aggregate entity information: Companhia Coreano-Brasileira de Pelotização, Companhia Hispano-Brasileira de Pelotização, Companhia Ítalo-Brasileira de Pelotização, Companhia Nipo-Brasileira de Pelotização.

The stand-alone financial information may differ from the financial information reported herein, since they may be adjusted, when necessary to Vale's accounting policies including eventual goodwill, provisional price adjustment, etc.

Accounting policy

Joint arrangements investments - Joint arrangements are all entities over which the Company has shared control with one or more parties. Joint arrangement investments are classified as either joint operations or joint ventures depending on the contractual rights and obligations of each investor.

The joint operations are recorded in the financial statements to represent the Company's contractual rights and obligations. The Company does not have material joint operations.

Interests in joint ventures are accounted for using the equity method, after initially being recognized at cost. The Company's investment in joint ventures includes the goodwill identified in the acquisition, net of any accumulated impairment loss.

The Company's interest in the profits or losses of its joint ventures is recognized in the income statement and participation in the changes in reserves is recognized in the Company's reserves. When the Company's interest in the losses of an associate or joint venture is equal to or greater than the carrying amount of the investment, including any other receivables, the Company does not recognize additional losses, unless it has incurred obligations or made payments on behalf of the joint venture.

Critical accounting estimates and judgments

Judgment is required in some circumstances to determine whether after considering all relevant factors, the Company has control, joint control or significant influence over an entity. Significant influence includes situations of collective control.

The Company holds the majority of the voting capital in five joint arrangements (Aliança Geração de Energia S.A., Aliança Norte Energia Participações S.A., Companhia Hispano-Brasileira de Pelotização, Companhia Ítalo-Brasileira de Pelotização and Companhia Nipo-Brasileira de Pelotização), but management have concluded that the Company does not have a sufficiently dominant voting interest to have the power to direct the activities of the entity. As a result, these entities are accounted under equity method due to shareholder's agreements where relevant decisions are shared with other parties.

Table of Contents**16. Noncontrolling interest****a) Summarized financial information**

The summarized financial information, prior to the eliminations of the intercompany balances and transactions, about subsidiaries with material noncontrolling interest are as follows:

| | December 31, 2017 | | | | | | Total |
|---|-------------------|--------------|--------------|----------------------|---|-------------|--------------|
| | MBR | PTVI | VNC | Vale Moçambique S.A. | Compañia Mineradora Miski Mayo S.A.C. (i) | Others (ii) | |
| Current assets | 1,349 | 1,305 | 827 | 1,261 | 225 | | |
| Non-current assets | 10,061 | 5,247 | 6,767 | 5,467 | 1,481 | | |
| Related parties - | | | | | | | |
| Stockholders | 1,954 | 486 | 382 | 837 | 19 | | |
| Total assets | 13,364 | 7,038 | 7,976 | 7,565 | 1,725 | | |
| Current liabilities | 561 | 423 | 469 | 419 | 117 | | |
| Non-current liabilities | 953 | 784 | 999 | 107 | 319 | | |
| Related parties - | | | | | | | |
| Stockholders | 747 | 10 | 4,363 | 27,231 | 32 | | |
| Total liabilities | 2,261 | 1,217 | 5,831 | 27,757 | 468 | | |
| Stockholders equity | 11,103 | 5,821 | 2,145 | (20,192) | 1,257 | | |
| Equity attributable to noncontrolling interests | 4,441 | 2,431 | 60 | (3,641) | 754 | 303 | 4,348 |
| Net income (loss) | 1,385 | (49) | (1,827) | (2,110) | (37) | | |
| Net income (loss) attributable to noncontrolling interests | 554 | (20) | (91) | (332) | (22) | (46) | 43 |
| Dividends paid to noncontrolling interests | 362 | | | | | 43 | |

(i) Discontinued operations

(ii) Dividends paid to noncontrolling interests relates to Vale Oman Pelletizing

December 31, 2016

| | MBR | PTVI | VNC | Vale Moçambique S.A. | Compañia Mineradora Miski Mayo S.A.C. (i) | Others | Total |
|---|---------------|--------------|--------------|----------------------------|--|--------------|--------------|
| Current assets | 103 | 1,448 | 1,246 | 1,262 | 304 | | |
| Non-current assets | 10,370 | 5,435 | 6,848 | 5,851 | 1,400 | | |
| Related parties - | | | | | | | |
| Stockholders | 1,797 | 431 | 259 | 1,164 | 44 | | |
| Total assets | 12,270 | 7,314 | 8,353 | 8,277 | 1,748 | | |
| Current liabilities | 341 | 452 | 406 | 308 | 115 | | |
| Non-current liabilities | 647 | 851 | 576 | 95 | 322 | | |
| Related parties - | | | | | | | |
| Stockholders | 123 | 21 | 3,436 | 25,620 | 36 | | |
| Total liabilities | 1,111 | 1,324 | 4,418 | 26,023 | 473 | | |
| Stockholders equity | 11,159 | 5,990 | 3,935 | (17,746) | 1,275 | | |
| Equity attributable to noncontrolling interests | 4,853 | 2,416 | 130 | (887) | 765 | (816) | 6,461 |
| Net income (loss) | 1,393 | 6 | (2,627) | (1,928) | 16 | | |
| Net income (loss) attributable to noncontrolling interests | 572 | 3 | (131) | (96) | 9 | (372) | (15) |
| Dividends paid to noncontrolling interests | 886 | | | | 106 | | |

Table of Contents

| | December 31, 2015 | | | | | | Total |
|---|-------------------|-----------|----------------|----------------------|---|-----------|----------------|
| | MBR | PTVI | VNC | Vale Moçambique S.A. | Compañia Mineradora Miski Mayo S.A.C. (i) | Others | |
| Net income (loss) | 911 | 141 | (7,480) | (14,240) | 51 | | |
| Net income (loss) attributable to noncontrolling interests | 255 | 57 | (1,458) | (712) | 31 | 43 | (1,784) |
| Dividends paid to noncontrolling interests | | | | | 75 | | |

(i) Discontinued operation

The stand-alone financial information may differ from the financial information reported herein, since they may be adjusted, when necessary to Vale's accounting policies including eventual goodwill, provisional price adjustment, etc.

b) Acquisitions and divestments

In March 2017, the Company concluded the transaction with Mitsui to sell 15% of its stake in Vale Moçambique and 50% of its stake in the Nacala Logistics Corridor. After the completion of the transaction, the Company holds 81% of Vale Moçambique and shares control of the Nacala Logistic Corridor with Mitsui. Further details are disclosed in note 15.

17. Intangibles

Changes in intangibles are as follows:

| | Goodwill | Concessions | Consolidated Right of use | Software | Total |
|-------------------------------------|---------------|--------------|---------------------------|--------------|---------------|
| Balance at December 31, 2015 | 11,544 | 7,084 | 811 | 1,350 | 20,789 |
| Additions | | 3,926 | 3 | 46 | 3,975 |
| Disposals | | (39) | | (1) | (40) |

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| | | | | | |
|---|---------------|---------------|------------|--------------|---------------|
| Amortization | | (842) | (8) | (534) | (1,384) |
| Impairment of discontinued operations (note 14) | (102) | | | | (102) |
| Translation adjustment | (1,295) | 361 | (63) | (33) | (1,030) |
| Transfers | | 269 | (263) | 289 | 295 |
| Effect of discontinued operations | | | | | |
| Transfer to net assets held for sale | (106) | | | (2) | (108) |
| Balance at December 31, 2016 | 10,041 | 10,759 | 480 | 1,115 | 22,395 |
| Cost | 10,041 | 14,559 | 723 | 5,116 | 30,439 |
| Accumulated amortization | | (3,800) | (243) | (4,001) | (8,044) |
| Balance at December 31, 2016 | 10,041 | 10,759 | 480 | 1,115 | 22,395 |
| Additions | | 3,140 | | 81 | 3,221 |
| Disposals | | (30) | | | (30) |
| Amortization | | (671) | (7) | (456) | (1,134) |
| Translation adjustment | 479 | (19) | 33 | 19 | 512 |
| Merger of Valepar (note 29) | 3,073 | | | | 3,073 |
| Transfers | | 57 | | | 57 |
| Balance at December 31, 2017 | 13,593 | 13,236 | 506 | 759 | 28,094 |
| Cost | 13,593 | 16,787 | 798 | 5,141 | 36,319 |
| Accumulated amortization | | (3,551) | (292) | (4,382) | (8,225) |
| Balance at December 31, 2017 | 13,593 | 13,236 | 506 | 759 | 28,094 |

| | Concessions | Parent company | | Total |
|-------------------------------------|---------------|----------------|--------------|---------------|
| | | Right of use | Software | |
| Balance at December 31, 2015 | 7,084 | 123 | 1,350 | 8,557 |
| Additions | 3,578 | | 44 | 3,622 |
| Disposals | (39) | | | (39) |
| Amortization | (345) | (5) | (476) | (826) |
| Balance at December 31, 2016 | 10,278 | 118 | 918 | 11,314 |
| Cost | 13,670 | 224 | 4,041 | 17,935 |
| Accumulated amortization | (3,392) | (106) | (3,123) | (6,621) |
| Balance at December 31, 2016 | 10,278 | 118 | 918 | 11,314 |
| Additions | 2,778 | | 69 | 2,847 |
| Disposals | (22) | | | (22) |
| Amortization | (261) | (7) | (400) | (668) |
| Balance at December 31, 2017 | 12,773 | 111 | 587 | 13,471 |
| Cost | 16,245 | 223 | 4,110 | 20,578 |
| Accumulated amortization | (3,472) | (112) | (3,523) | (7,107) |
| Balance at December 31, 2017 | 12,773 | 111 | 587 | 13,471 |

Table of Contents

a) **Goodwill** - The goodwill arose from the acquisition of iron ore and nickel businesses. In 2017, the goodwill was recognized on the acquisition of Vale controlling interest by Valepar, based on the expected future returns on the ferrous segment. As the fundamentals are still valid on the date of the merger of Valepar by Vale, the goodwill was fully recognized. The Company has not recognized the deferred taxes over the goodwill, since there are no differences between the tax basis and accounting basis. The Company assess periodically the recoverable amount of the goodwill.

b) **Concessions** - The concessions refer to the agreements with governments for the exploration and the development of ports and railways. The Company holds railway concessions which are valid over a certain period of time. Those assets are classified as intangible assets and amortized over the shorter of their useful lives and the concession term at the end of which they will be returned to the government.

c) **Right of use** - Refers to intangible identified in the business combination of Vale Canada Limited (Vale Canada) and to the usufruct contract between the Company and noncontrolling stockholders to use the shares of Empreendimentos Brasileiros de Mineração S.A. (owner of Minerações Brasileiras Reunidas S.A. shares). The amortization of the right of use will expire in 2037 and Vale Canada s intangible will end in September of 2046.

Accounting policy

Intangibles are carried at the acquisition cost, net of accumulated amortization and impairment charges.

The estimated useful lives are as follows:

| | Useful life |
|--------------|----------------|
| Concessions | 3 to 50 years |
| Right of use | 22 to 31 years |
| Software | 5 years |

18. Property, plant and equipment

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Changes in property, plant and equipment are as follows:

| | Land | Building | Facilities | Equipment | Consolidated Mineral properties | Others | Constructions in progress | Total |
|---|--------------|---------------|---------------|---------------|---------------------------------------|---------------|------------------------------|----------------|
| Balance at December 31, 2015 | 2,989 | 35,538 | 32,378 | 28,532 | 40,234 | 28,135 | 43,453 | 211,259 |
| Additions (i) | | | | | | | 17,628 | 17,628 |
| Disposals | (2) | (27) | (29) | (65) | (406) | (1,338) | (63) | (1,930) |
| Assets retirement obligation | | | | | 1,028 | | | 1,028 |
| Depreciation, amortization and depletion | | (1,789) | (2,432) | (3,156) | (2,766) | (2,195) | | (12,338) |
| Transfers to non-current assets held for sale | | | | | | (1,595) | | (1,595) |
| Impairment (note 19) | (4) | (1,476) | (578) | (367) | (374) | (502) | 222 | (3,079) |
| Impairment of discontinued operations (note 14) | (174) | | (214) | | (5,409) | | | (5,797) |
| Translation adjustment | (130) | (3,724) | (2,158) | (2,626) | (4,080) | (1,423) | (1,454) | (15,595) |
| Transfers | 85 | 7,351 | 4,160 | 3,392 | 840 | 3,613 | (19,736) | (295) |
| Acquisition of subsidiary | | 1 | | | | | | 1 |
| Effect of discontinued operations | | | | | | | | |
| Transfer to net assets held for sale | (404) | (1,084) | (261) | (3,569) | (1,755) | (201) | (1,397) | (8,671) |
| Balance at December 31, 2016 | 2,360 | 34,790 | 30,866 | 22,141 | 27,312 | 24,494 | 38,653 | 180,616 |
| Cost | 2,360 | 54,359 | 51,051 | 38,955 | 52,360 | 36,890 | 38,653 | 274,628 |
| Accumulated depreciation | | (19,569) | (20,185) | (16,814) | (25,048) | (12,396) | | (94,012) |
| Balance at December 31, 2016 | 2,360 | 34,790 | 30,866 | 22,141 | 27,312 | 24,494 | 38,653 | 180,616 |
| Additions (i) | | | | | | | 10,867 | 10,867 |
| Disposals | (2) | (37) | (181) | (214) | (490) | (684) | (503) | (2,111) |
| Assets retirement obligation | | | | | 1,382 | | | 1,382 |
| Depreciation, amortization and depletion | | (1,871) | (2,351) | (2,596) | (1,971) | (2,407) | | (11,196) |
| Impairment (note 19) | (65) | | | (110) | (429) | | (279) | (883) |
| Translation adjustment | 293 | 326 | 454 | 63 | 1,237 | 629 | (85) | 2,917 |
| Transfers | (211) | 6,820 | 10,198 | 3,519 | 2,958 | 5,072 | (28,413) | (57) |
| Balance at December 31, 2017 | 2,375 | 40,028 | 38,986 | 22,803 | 29,999 | 27,104 | 20,240 | 181,535 |
| Cost | 2,375 | 63,392 | 60,509 | 42,490 | 57,794 | 41,223 | 20,240 | 288,023 |
| Accumulated depreciation | | (23,364) | (21,523) | (19,687) | (27,795) | (14,119) | | (106,488) |
| Balance at December 31, 2017 | 2,375 | 40,028 | 38,986 | 22,803 | 29,999 | 27,104 | 20,240 | 181,535 |

Table of Contents

| | Land | Building | Facilities | Equipment | Parent company Mineral properties | Others | Constructions in progress | Total |
|--|--------------|---------------|---------------|--------------|---|---------------|------------------------------|----------------|
| Balance at December 31, 2015 | 1,672 | 19,546 | 19,379 | 8,371 | 4,215 | 14,203 | 29,501 | 96,887 |
| Additions (i) | | | | | | | 9,551 | 9,551 |
| Disposals | | (1) | (17) | (4) | | (27) | (45) | (94) |
| Assets retirement obligation | | | | | 202 | | | 202 |
| Depreciation, amortization and depletion | | (675) | (1,059) | (1,102) | (207) | (1,352) | | (4,395) |
| Impairment (note 19) | | | 480 | (86) | | (16) | (173) | 205 |
| Transfers | 12 | 2,075 | 1,633 | 1,300 | (88) | 3,691 | (8,923) | (300) |
| Balance at December 31, 2016 | 1,684 | 20,945 | 20,416 | 8,479 | 4,122 | 16,499 | 29,911 | 102,056 |
| Cost | 1,684 | 24,250 | 27,293 | 14,219 | 5,576 | 24,558 | 29,911 | 127,491 |
| Accumulated depreciation | | (3,305) | (6,877) | (5,740) | (1,454) | (8,059) | | (25,435) |
| Balance at December 31, 2016 | 1,684 | 20,945 | 20,416 | 8,479 | 4,122 | 16,499 | 29,911 | 102,056 |
| Additions (i) | | | | | | | 6,195 | 6,195 |
| Disposals | (1) | | (70) | (66) | | (96) | (366) | (599) |
| Assets retirement obligation | | | | | 269 | | | 269 |
| Depreciation, amortization and depletion | | (755) | (1,092) | (1,098) | (267) | (1,731) | | (4,943) |
| Transfers | 56 | 5,125 | 7,950 | 2,401 | 1,243 | 3,533 | (20,308) | |
| Balance at December 31, 2017 | 1,739 | 25,315 | 27,204 | 9,716 | 5,367 | 18,205 | 15,432 | 102,978 |
| Cost | 1,739 | 30,456 | 34,144 | 16,482 | 7,088 | 27,735 | 15,432 | 133,076 |
| Accumulated depreciation | | (5,141) | (6,940) | (6,766) | (1,721) | (9,530) | | (30,098) |
| Balance at December 31, 2017 | 1,739 | 25,315 | 27,204 | 9,716 | 5,367 | 18,205 | 15,432 | 102,978 |

(i) Includes capitalized borrowing costs.

a) Disposals of assets

In June 2016, Vale approved a plan to dispose of its fleet of eleven ships. As consequence, these assets were reclassified to non-current assets held for sale and a loss of R\$228 was recognized in the income statement as Impairment and other results on non-current assets. In the year

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ended December 31, 2016, the Company concluded the sale of three Very Large Ore Carriers (VLOC s) and four Capesize vessels for R\$1,333.

In the year ended December 31, 2017, the Company concluded the sale of four VLOC s and two Floating Transfer Stations in the amount of R\$1,259. The Company recognized a loss of R\$436 in the income statement as Impairment and other results on non-current assets .

Additionally, in 2017, the Company recognized a loss of R\$1,144 in the income statement as Impairment and other results on non-current assets due to non-viable projects and operating assets written off through sale or obsolescence.

Accounting policy

Property, plant and equipment is recorded at the cost of acquisition or construction, net of accumulated depreciation and impairment charges.

Mineral properties developed internally are determined by (i) direct and indirect costs attributed to build the mining facilities, (ii) financial charges incurred during the construction period, (iii) depreciation of other fixed assets used during construction, (iv) estimated decommissioning and site restoration expenses, and (v) other capitalized expenditures during the development phase (phase when the project demonstrates its economic benefit to the Company, and the Company has ability and intention to complete the project).

The depletion of mineral properties is determined based on the ratio between production and total proven and probable mineral reserves.

Property, plant and equipment, other than mineral properties are depreciated using the straight-line method based on the estimated useful lives, from the date on which the assets become available for their intended use and are capitalized, except for land which is not depreciated.

Table of Contents

The estimated useful lives are as follows:

| | Useful life |
|-------------------|--------------------|
| Buildings | 15 to 50 years |
| Facilities | 3 to 50 years |
| Equipment | 3 to 40 years |
| Others: | |
| Locomotives | 12 to 25 years |
| Wagon | 30 to 44 years |
| Railway equipment | 5 to 33 years |
| Ships | 20 years |
| Others | 2 to 50 years |

The residual values and useful lives of assets are reviewed at the end of each reporting period and adjusted if necessary.

a) **Mineral reserves**

Critical accounting estimates and judgments

The estimates of proven and probable reserves are regularly evaluated and updated. These reserves are determined using generally accepted geological estimates. The calculation of reserves requires the Company to make assumptions about expected future conditions that are uncertain, including future ore prices, exchange rates, inflation rates, mining technology, availability of permits and production costs. Changes in assumptions could have a significant impact on the proven and probable reserves of the Company.

The estimated volume of mineral reserves is used as basis for the calculation of depletion of the mineral properties, and also for the estimated useful life which is a major factor to quantify the provision for asset retirement obligation, environmental recovery of mines and impairment of long lived asset. Any changes to the estimates of the volume of mine reserves and the useful lives of assets may have a significant impact on the depreciation, depletion and amortization charges and assessments of impairment.

b) **Expenditures and stripping costs**

(i) **Exploration and evaluation expenditures** - Expenditures on mining research are accounted for as operating expenses until the effective proof of economic feasibility and commercial viability of a given field can be demonstrated. From then on, the expenditures incurred are capitalized as mineral properties.

(ii) **Expenditures on feasibility studies, new technologies and others research** - The Company also conducts feasibility studies for many businesses which it operates including researching new technologies to optimize the mining process. After these costs are proven to generate future benefits to the Company, the expenditures incurred are capitalized.

(iii) **Maintenance costs** - Significant industrial maintenance costs, including spare parts, assembly services, and others, are recorded in property, plant and equipment and depreciated through the next programmed maintenance overhaul.

(iv) **Stripping Costs** - The cost associated with the removal of overburden and other waste materials (stripping costs) incurred during the development of mines, before production takes place, are capitalized as part of the depreciable cost of the mineral properties. These costs are subsequently amortized over the useful life of the mine.

Post-production stripping costs are included in the cost of inventory, except when a new project is developed to permit access to a significant ore deposits. In such cases, the cost is capitalized as a non-current asset and is amortized during the extraction of the ore deposits, over the useful life of the ore deposits.

Stripping costs are measured at fixed and variable costs directly and indirectly attributable to its removal and, when applicable, net of any impairment losses measured in the same basis adopted for the cash generating unit of which it belongs.

Table of Contents**19. Impairment and onerous contracts**

The impairment losses (reversals) recognized in the year are presented below:

| Segments by class of assets | Assets or cash-generating unit | Income statement Impairment (reversals) | | |
|---|--------------------------------|--|--------------|---------------|
| | | 2017 | 2016 | 2015 |
| Property, plant and equipment and intangible | | | | |
| Iron ore | North system | | (536) | 213 |
| Coal | Australia | | 91 | 2,460 |
| Base metals - nickel | Stobie | 428 | | |
| Base metals - nickel | Newfoundland (VNL) | | 2,112 | 13,394 |
| Base metals - nickel | Nouvelle Caledonie (VNC) | | 952 | 5,660 |
| Base metals - nickel | Onça Puma | | | (976) |
| Coal | Mozambique | | | 9,302 |
| Iron ore | Midwest system | | | 2,023 |
| Several segments | Other assets | 455 | 460 | 487 |
| Impairment of non-current assets | | 883 | 3,079 | 32,563 |
| Onerous contracts | | | 861 | 1,382 |
| Impairment of non-current assets and onerous contracts | | 883 | 3,940 | 33,945 |
| Investments in associates and joint ventures | | | | |
| Iron ore | Samarco Mineração S.A. | | | 510 |
| Base metals - Copper | Teal Minerals Inc. | | | 1,217 |
| Impairment of investments in associates and joint ventures | | | | 1,727 |

a) Impairment of non-financial assets

The Company has carried out an impairment test for the assets that a triggering event was identified. The recoverable amount is assessed by reference to the higher of value in use (VIU) and fair value less costs of disposal (FVLCD).

The recoverable amount of each Cash Generating Units (CGU) under the impairment testing was assessed using FVLCD model, through discounted cash flow techniques, which is classified as level 3 in the fair value hierarchy.

The cash flows were discounted using a post-tax discount rate ranging from 6% to 9%, which represents an estimate of the rate that a market participant would apply having regard to the time value of money and the risks specific to the asset. The Company used its weighted average cost of capital (WACC) as a starting point for determining the discount rates, with appropriate adjustments for the risk profile of the countries in

which the individual CGU operate.

Iron ore and pellets - During 2017, the Company did not identify any changes in the circumstances or indicators that would require reassessment of the carrying amount of the iron ore and pellets CGUs.

Of the total goodwill (note 17), R\$7,133 is allocated to the group of ferrous mineral CGUs. The impairment analysis based on FVLCD model demonstrates that there were no impairment loss in relation to the individual CGUs or goodwill.

In 2016, based on the market circumstances, the Company decided to resume Norte's system pelletizing plant, based on the studies carried out by management that demonstrates its economic feasibility. Accordingly, the Company reversed the full impairments of R\$536 recorded in 2013 and 2015.

In 2015, the Company recognized an impairment loss of R\$2,023 due to lack of competitiveness in the Midwest system because of the complex logistic system associated with the decline in iron ore prices. Accordingly, long-lived assets were fully impaired.

Coal - Based on the 2017 impairment triggering assessment, the Company has identified trigger of impairment in the Mozambique CGU, driven by a reduction in the proven and probable reserves due to a geological revision undertaken by Management in the last quarter of 2017. However, coal price projections have increased, triggering a discussion around impairment reversal review. The Company carried out an impairment test based on FVLCD model and concluded that there were no changes in the impairment previously recognized.

In 2016, the future mining plans of the coal assets in Australia were revised and an impairment loss of R\$91 was recognized in the income statement (R\$2,460 in 2015).

Table of Contents

In 2015, due to a reduction in the estimated future coal prices, at that point in time, associated with an increase in the logistics costs, the Company recognized an impairment loss of R\$9,302 in relation to the coal asset in Mozambique.

Nickel - Based on the 2017 impairment trigger assessment, the Company has identified impairment indicators in the nickel CGUs, driven by a decrease in the nickel long-term price projections. The Company carried out an impairment test based on FVLCD model and concluded that there were no changes in the impairment previously recognized.

Except for an underground mine in Sudbury that was affected by seismic activities and the cost to repair the asset is deemed not recoverable in the current market conditions. Therefore, the Company has placed this asset on care and maintenance and an impairment of R\$428 was recognized in the income statement.

Of the total goodwill (note 17), R\$6,460 is allocated to the group of nickel CGUs. The impairment analysis based on FVLCD model demonstrates that there were no impairment loss in relation to the individual CGUs or goodwill.

In 2016, the decrease in long term nickel price projections, that significantly reduced the recoverable amounts of the VNL and VNC CGUs, associated with significant capital investments in new processing facilities in recent years, resulted in impairment losses of R\$2,122 and R\$952 (2015 - R\$13,394 and R\$5,660), respectively.

b) Onerous contract

In 2016, the Company recognized a provision of R\$861 (R\$1,382 in 2015) for the costs in respect of certain long-term contracts in the Midwest system for fluvial transportation and port structure, with minimum guaranteed volume.

c) Impairment of investments in associates and joint ventures

In 2015, the Company recognized an impairment of R\$510 in its investment in Samarco (note 21) and R\$1,217 in Teal Minerals Inc. (Teal). Teal recognized an impairment of property, plant and equipment due to the revision of future mining plans and the decrease of the copper price.

Accounting policy

Impairment of non-Financial assets - Non-financial assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount might not be recoverable. An impairment loss is recognized for the amount by which the asset's carrying value exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs of disposal (FVLCD) and value in use (VIU).

FVLCD is generally determined as the present value of the estimated future cash flows expected to arise from the continued use of the asset from a market participant's perspective, including any expansion prospects. VIU model is determined as the present value of the estimated future cash flows expected to arise from the continued use of the asset in its present form. Value in use is determined by applying assumptions specific to the Company's continued use and cannot take into account future development. These assumptions are different to those used in calculating fair value and consequently the VIU calculation is likely to give a different result to a FVLCD calculation.

Assets that have indefinite useful life and are not subject to amortization, such as goodwill, are tested annually for impairment.

For the purposes of assessing impairment, assets are grouped at the lowest levels for which there are separately identifiable cash flows (Cash Generating Units (CGUs)). Goodwill is allocated to Cash Generating Units or Cash Generating Units groups that are expected to benefit from the business combinations in which the goodwill arose and are identified in accordance with the operating segment.

Non-current assets (excluding goodwill) in which the Company recognized impairment in the past are reviewed whenever events or changes in circumstances indicate that the impairment may no longer be applicable. In such cases, an impairment reversal will be recognized.

Onerous Contracts - For certain long-term contracts, a provision is recognized when the present value of the unavoidable cost to meet the Company's obligation exceeds the economic benefits that could be received from those contracts.

Table of Contents**Critical accounting estimates and judgments**

The Company determines its cash flows based on the budgets approved by management, which require the use of the following assumptions: (i) mineral reserves and mineral resources measured by internal experts; (ii) costs and investments based on the best estimate of projects as supported by past performance; (iii) sale prices consistent with projections available in reports published by industry considering the market price when appropriate; (iv) the life of each cash-generating unit (ratio between production and mineral reserves); and (v) discount rates that reflect specific risks relating to the relevant assets in each cash-generating unit. These assumptions are subject to risk and uncertainty. Hence, there is a possibility that changes in circumstances will change these projections, which may affect the recoverable amount of the assets.

20. Loans, borrowings, cash and cash equivalents and financial investments**a) Net debt**

The Company evaluates the net debt with the objective of ensuring the continuity of its business in the long term, being able to generate value to its stockholders, through the payment of dividends and capital gain.

| | Consolidated | | Parent company | |
|---|----------------------|----------------------|----------------------|----------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Debt contracts in the international markets | 57,187 | 68,863 | 17,355 | 26,796 |
| Debt contracts in Brazil | 17,205 | 26,701 | 15,989 | 25,252 |
| Total of loans and borrowings | 74,392 | 95,564 | 33,344 | 52,048 |
| (-) Cash and cash equivalents | 14,318 | 13,891 | 1,876 | 1,203 |
| (-) Financial investments | 61 | 59 | 4 | 4 |
| Net debt | 60,013 | 81,614 | 31,464 | 50,841 |

b) Cash and cash equivalents

Cash and cash equivalents includes cash, immediately redeemable deposits and short-term investments with an insignificant risk of change in value. They are readily convertible to cash, being R\$5,921 denominated in R\$, indexed to the Brazilian Interbank Interest rate (DI Rate or CDI), R\$7,924 denominated in US\$, mainly time deposits and R\$473 denominated in other currencies.

c) **Loans and borrowings**i) **Total debt**

| | Consolidated | | | |
|--|----------------------------|--------------------------|--------------------------------|--------------------------|
| | Current liabilities | | Non-current liabilities | |
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Debt contracts in the international markets | | | | |
| Floating rates in: | | | | |
| US\$ | 1,027 | 762 | 9,142 | 17,889 |
| EUR | | | 794 | 688 |
| Fixed rates in: | | | | |
| US\$ | | | 41,642 | 42,643 |
| EUR | | | 2,977 | 5,157 |
| Other currencies | 57 | 55 | 682 | 679 |
| Accrued charges | 866 | 990 | | |
| | 1,950 | 1,807 | 55,237 | 67,056 |
| Debt contracts in Brazil | | | | |
| Floating rates in: | | | | |
| R\$, indexed to TJLP, TR, IPCA, IGP-M and CDI | 1,478 | 1,313 | 10,570 | 18,326 |
| Basket of currencies and US\$ indexed to LIBOR | 1,121 | 1,117 | 2,341 | 3,962 |
| Fixed rates in: | | | | |
| R\$ | 225 | 214 | 572 | 703 |
| Accrued charges | 859 | 959 | 39 | 107 |
| | 3,683 | 3,603 | 13,522 | 23,098 |
| | 5,633 | 5,410 | 68,759 | 90,154 |

Table of Contents

| | Current liabilities | | Parent company | |
|--|---------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Debt contracts in the international markets | | | | |
| Floating rates in: | | | | |
| US\$ | 708 | 448 | 8,410 | 15,876 |
| Fixed rates in: | | | | |
| US\$ | | | 4,962 | 4,889 |
| EUR | | | 2,977 | 5,158 |
| Accrued charges | 298 | 425 | | |
| | 1,006 | 873 | 16,349 | 25,923 |
| Debt contracts in Brazil | | | | |
| Floating rates in: | | | | |
| R\$, indexed to TJLP, TR, IPCA, IGP-M and CDI | 1,214 | 1,059 | 9,781 | 17,307 |
| Basket of currencies and US\$ indexed to LIBOR | 1,121 | 1,117 | 2,341 | 3,962 |
| Fixed rates in: | | | | |
| R\$ | 190 | 190 | 495 | 685 |
| Accrued charges | 847 | 932 | | |
| | 3,372 | 3,298 | 12,617 | 21,954 |
| | 4,378 | 4,171 | 28,966 | 47,877 |

The future flows of debt payments principal, per nature of funding and interest are as follows:

| | Consolidated | | | Total | Estimated future interest payments (i) | Parent company Principal |
|------------------|---------------|-----------------|----------------------|---------------|--|--------------------------|
| | Bank loans | Capital markets | Development agencies | | | |
| 2018 | 533 | | 3,374 | 3,907 | 4,119 | 3,234 |
| 2019 | 2,809 | | 2,979 | 5,788 | 3,802 | 5,057 |
| 2020 | 3,253 | 2,750 | 2,518 | 8,521 | 3,604 | 6,284 |
| 2021 | 1,899 | 4,475 | 2,304 | 8,678 | 3,125 | 3,966 |
| Between 2022 and | | | | | | |
| 2025 | 1,665 | 11,673 | 3,141 | 16,479 | 9,021 | 8,065 |
| 2026 onwards | 287 | 28,400 | 568 | 29,255 | 19,614 | 5,594 |
| | 10,446 | 47,298 | 14,884 | 72,628 | 43,285 | 32,200 |

(i) Estimated future payments of interest, calculated based on interest rate curves and foreign exchange rates applicable as at December 31, 2017 and considering that all amortization payments and payments at maturity on loans and borrowings will be made on their contracted payments dates. The amount includes the estimated values of future interest payments (not yet accrued), in addition to interest already recognized in the financial statements.

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At December 31, 2017, the average annual interest rates by currency are as follows:

| | Consolidated | | Parent company | |
|-----------------------------|---------------------------|---------------|---------------------------|---------------|
| | Average interest rate (i) | Total debt | Average interest rate (i) | Total debt |
| Loans and borrowings | | | | |
| US\$ | 5.39% | 56,036 | 4.12% | 17,739 |
| R\$ (ii) | 8.14% | 13,719 | 8.36% | 12,504 |
| EUR (iii) | 3.34% | 3,895 | 3.75% | 3,101 |
| Other currencies | 3.23% | 742 | | |
| | | 74,392 | | 33,344 |

(i) In order to determine the average interest rate for debt contracts with floating rates, the Company used the rate applicable at December 31, 2017.

(ii) R\$ denominated debt that bears interest at IPCA, CDI, TR or TJLP, plus spread. For a total of R\$7,704 the Company entered into derivative transactions to mitigate the exposure to the cash flow variations of the floating rate debt denominated in R\$, resulting in an average cost of 1.89% per year in US\$.

(iii) Eurobonds, for which the Company entered into derivatives to mitigate the exposure to the cash flow variations of the debt denominated in EUR, resulting in an average cost of 4.29% per year in US\$.

ii) Reconciliation of debt to cash flows arising from financing activities

| | December 31, 2016 | Additions | Cash flow | | Consolidated | | Non-cash changes Effect of exchange rate | Interest accretion | December 31, 2017 |
|-----------------------------|-------------------|--------------|-----------------|----------------|---------------|--------------|--|--------------------|-------------------|
| | | | Repayments | Interest paid | Transferences | | | | |
| Loans and borrowings | | | | | | | | | |
| Current | 5,410 | | (28,878) | (5,373) | 28,594 | 462 | 5,418 | 5,633 | |
| Non-current | 90,154 | 6,223 | | | (28,594) | 976 | | 68,759 | |
| Total | 95,564 | 6,223 | (28,878) | (5,373) | | 1,438 | 5,418 | 74,392 | |

Table of Contentsiii) **Credit and financing lines**

| Type | Contractual currency | Date of agreement | Period of the agreement | Total amount | Available amount |
|-------------------------------|-------------------------|-------------------|----------------------------|--------------|-------------------|
| | | | | | December 31, 2017 |
| Credit lines | | | | | |
| Revolving credit facilities | US\$ | May 2015 | 5 years | 9,924 | 9,924 |
| Revolving credit facilities | US\$ | June 2017 | 5 years | 6,616 | 6,616 |
| Financing lines | | | | | |
| BNDES - CLN 150 | R\$ | September 2012 | 10 years | 3,883 | 20 |
| BNDES - S11D e S11D Logística | R\$ | May 2014 | 10 years | 6,163 | 1,016 |

In June 2017, the Company signed a R\$6,616 (US\$2,000 million) revolving credit facility, which will be available for five years, to replace the R\$6,616 (US\$2,000 million) line that was signed in 2013, which was cancelled. At December 31, 2017, the total available amount in revolving credit facilities remains at R\$16,540 (US\$5,000 million).

Liquidity risk- The revolving credit facilities available today were acquired from a syndicate of several global commercial banks. To mitigate such risk, Vale has a revolving credit facilities to assist the short term liquidity management and to enable more efficiency in cash management, being consistent with the strategic focus on cost of capital reduction.

iv) **Funding**

In February 2017, the Company issued through Vale Overseas Limited guaranteed notes due August 2026 totaling R\$3,308 (US\$1,000 million). The notes bears 6.250% coupon per year, payable semi-annually, and were sold at a price of 107.793% of the principal amount. The notes were consolidated with, and formed a single series with, Vale Overseas s R\$3,308 (US\$1,000 million) 6.250% notes due 2026 issued on August, 2016. Vale applied the net proceeds from the offering to the early redemption of Vale s 750 notes (due in March 2018).

In September 2017, the Company redeemed all of its 5.625% guaranteed notes due 2019 issued through Vale Overseas Limited totaling R\$3,168 (US\$1,000 million). Additionally, the Company conducted a Tender Offer for the outstanding 4.625% guaranteed notes due 2020 issued by its subsidiary Vale Overseas Limited. The total principal amount of 2020 Notes accepted for purchase pursuant to the Tender Offer was R\$1,587 (US\$501 million) from a total of R\$3,168 (US\$1,000 million).

v) **Guarantees**

As at December 31, 2017 and 2016, loans and borrowings are secured by property, plant and equipment and receivables in the amount of R\$910 and R\$1,538, respectively.

The securities issued through Vale's 100%-owned finance subsidiary Vale Overseas Limited are fully and unconditionally guaranteed by Vale.

vi) Covenants

Some of the Company's debt agreements with lenders contain financial covenants. The primary financial covenants in those agreements require maintaining certain ratios, such as debt to EBITDA (Earnings before Interest Taxes, Depreciation and Amortization) and interest coverage. The Company has not identified any instances of noncompliance as at December 31, 2017 and 2016.

Accounting policy

Loans and borrowings are initially measured at fair value, net of transaction costs incurred and are subsequently carried at amortized cost and updated using the effective interest rate method. Any difference between the proceeds (net of transaction costs) and the redemption value is recognized in the Income statement over the period of the loan, using the effective interest rate method. The fees paid in obtaining the loan are recognized as transaction costs.

Loans and borrowing costs are capitalized as part of property, plants and equipment if those costs are directly related to a qualified asset. The capitalization occurs until the qualified asset is ready for its intended use. The average capitalization rate is 22%. Borrowing costs that are not capitalized are recognized in the income statement in the period in which they are incurred.

Table of Contents**21. Liabilities related to associates and joint ventures**

In March 2016 Samarco and its shareholders, Vale S.A. and BHP Billiton Brasil Ltda. (BHPB), entered into an Agreement (Framework Agreement) with the Brazilian federal government, the two Brazilian states (Espírito Santo and Minas Gerais) and other governmental authorities, in connection with the lawsuit related to the Samarco dam failure (Note 27), in order to implement the programs for remediation and compensation of the areas and communities affected.

The Framework Agreement has a 15-year term, renewable for successive one-year periods until all the obligations under the Framework Agreement have been satisfied.

Under the Framework Agreement, Samarco, Vale S.A. and BHPB have established a foundation (Fundação Renova or Foundation) to develop and implement social and economic remediation and compensation, to be funded by Samarco. To the extent that Samarco does not meet its funding obligations to the foundation, each of Vale S.A. and BHPB will provide, under the terms of the Framework Agreement, funds to the Foundation in proportion to its 50% equity interest in Samarco.

As the consequence of the dam failure, governmental authorities ordered the suspension of Samarco's operations.

Due to the uncertainties regarding Samarco's future cash flow, Vale S.A. maintains a provision for the obligation to comply with the reparation and compensation programs under the Framework Agreement (pro rata to its proportional equity interest in Samarco). The movements in the provisions are as follows:

| | 2017 | 2016 |
|----------------------------------|--------------|--------------|
| Balance at January 1st, | 3,511 | |
| Additions / Provision recognized | 128 | 3,733 |
| Payments | (941) | (461) |
| Interest accretion | 598 | 239 |
| Balance at December 31, | 3,296 | 3,511 |
| Current liabilities | 1,080 | 951 |
| Non-current liabilities | 2,216 | 2,560 |
| Liabilities | 3,296 | 3,511 |

In addition to the provision above, Vale S.A. made available in the year ended December 31, 2017 the amount of R\$452, which was fully used to fund Samarco's working capital and was recognized in Vale's income statement as Impairment and other results in associates and joint ventures. Vale S.A. intends to make available until the first half of 2018 up to R\$159 to Samarco to support its working capital requirements,

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without any binding obligation to Samarco in this regard. Such amounts will be released by the shareholders simultaneously and pursuant to the same terms and conditions, subject to the fulfillment of certain milestones.

The summarized financial information of Samarco are as follows:

| | December 31, 2017 | December 31, 2016 |
|--------------------------|-------------------|-------------------|
| Current assets | 220 | 536 |
| Non-current assets | 19,901 | 19,484 |
| Total assets | 20,121 | 20,020 |
| Current liabilities | 18,132 | 15,811 |
| Non-current liabilities | 11,996 | 11,131 |
| Total liabilities | 30,128 | 26,942 |
| Negative reserves | (10,007) | (6,922) |
| Loss | (3,062) | (3,362) |

Under Brazilian legislation and the terms of the joint venture agreement, Vale does not have an obligation to provide funding to Samarco. Therefore, Vale's investment in Samarco was impaired in full and no provision was recognized in relation to the Samarco's negative reserves.

The contingencies related to the Samarco dam failure are disclosed in note 27.

Table of Contents**Critical accounting estimates and judgments**

The provision requires the use of assumptions that may be mainly affected by: (i) changes in scope of work required under the Framework Agreement as result of further technical analysis and the ongoing negotiations with the Federal Prosecution Office, (ii) resolution of uncertainty in respect of the resumption of Samarco's operations; (iii) updates in the discount rate; and (iv) resolution of existing and potential legal claims. As a result, future expenditures may differ from the amounts currently provided and changes to key assumptions could result in a material impact to the amount of the provision in future reporting periods. At each reporting period, Vale S.A. will reassess the key assumptions used by Samarco in the preparation of the projected cash flows and will adjust the provision, if required.

22. Financial instruments classification

The Company classifies its financial instruments in accordance with the purpose for which they were acquired, and determines the classification and initial recognition according to the following categories:

| | Consolidated | | | | | |
|----------------------------------|---|---|---------------|---|---|---------------|
| | Loans and receivables or amortized cost | December 31, 2017 At fair value through profit or loss | Total | Loans and receivables or amortized cost | December 31, 2016 At fair value through profit or loss | Total |
| Financial assets | | | | | | |
| Current | | | | | | |
| Cash and cash equivalents | 14,318 | | 14,318 | 13,891 | | 13,891 |
| Financial investments | 61 | | 61 | 59 | | 59 |
| Derivative financial instruments | | 351 | 351 | | 892 | 892 |
| Accounts receivable | 8,602 | | 8,602 | 11,937 | | 11,937 |
| Related parties | 6,277 | | 6,277 | | | |
| | 29,258 | 351 | 29,609 | 25,887 | 892 | 26,779 |
| Non-current | | | | | | |
| Derivative financial instruments | | 1,497 | 1,497 | | 1,454 | 1,454 |
| Loans | 498 | | 498 | 587 | | 587 |
| Related parties | 8,695 | | 8,695 | | | |
| | 9,193 | 1,497 | 10,690 | 587 | 1,454 | 2,041 |
| Total of financial assets | 38,451 | 1,848 | 40,299 | 26,474 | 2,346 | 28,820 |
| Financial liabilities | | | | | | |
| Current | | | | | | |
| Suppliers and contractors | 13,367 | | 13,367 | 11,830 | | 11,830 |
| Derivative financial instruments | | 344 | 344 | | 1,349 | 1,349 |
| Loans and borrowings | 5,633 | | 5,633 | 5,410 | | 5,410 |
| Related parties | 893 | | 893 | 1,150 | | 1,150 |
| | 19,893 | 344 | 20,237 | 18,390 | 1,349 | 19,739 |

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| Non-current | | | | | | |
|--|---------------|--------------|---------------|----------------|--------------|----------------|
| Derivative financial instruments | | 2,269 | 2,269 | | 3,991 | 3,991 |
| Loans and borrowings | 68,759 | | 68,759 | 90,154 | | 90,154 |
| Related parties | 3,226 | | 3,226 | 287 | | 287 |
| Participative stockholders debentures | | 4,080 | 4,080 | | 2,526 | 2,526 |
| | 71,985 | 6,349 | 78,334 | 90,441 | 6,517 | 96,958 |
| Total of financial liabilities | 91,878 | 6,693 | 98,571 | 108,831 | 7,866 | 116,697 |

Table of Contents

| | December 31, 2017 | | Parent company | | December 31, 2016 | |
|---------------------------------------|---|--------------------------------------|----------------|---|--------------------------------------|----------------|
| | Loans and receivables or amortized cost | At fair value through profit or loss | Total | Loans and receivables or amortized cost | At fair value through profit or loss | Total |
| Financial assets | | | | | | |
| Current | | | | | | |
| Cash and cash equivalents | 1,876 | | 1,876 | 1,203 | | 1,203 |
| Financial investments | 4 | | 4 | 4 | | 4 |
| Derivative financial instruments | | 199 | 199 | | 338 | 338 |
| Accounts receivable | 9,560 | | 9,560 | 26,223 | | 26,223 |
| Related parties | 206 | | 206 | 323 | | 323 |
| | 11,646 | 199 | 11,845 | 27,753 | 338 | 28,091 |
| Non-current | | | | | | |
| Derivative financial instruments | | 1,268 | 1,268 | | 1,304 | 1,304 |
| Loans | 18 | | 18 | 114 | | 114 |
| Related parties | 579 | | 579 | 760 | | 760 |
| | 597 | 1,268 | 1,865 | 874 | 1,304 | 2,178 |
| Total of financial assets | 12,243 | 1,467 | 13,710 | 28,627 | 1,642 | 30,269 |
| Financial liabilities | | | | | | |
| Current | | | | | | |
| Suppliers and contractors | 7,503 | | 7,503 | 6,743 | | 6,743 |
| Derivative financial instruments | | 311 | 311 | | 1,033 | 1,033 |
| Loans and borrowings | 4,378 | | 4,378 | 4,171 | | 4,171 |
| Related parties | 4,102 | | 4,102 | 8,923 | | 8,923 |
| | 15,983 | 311 | 16,294 | 19,837 | 1,033 | 20,870 |
| Non-current | | | | | | |
| Derivative financial instruments | | 2,113 | 2,113 | | 3,427 | 3,427 |
| Loans and borrowings | 28,966 | | 28,966 | 47,877 | | 47,877 |
| Related parties | 48,762 | | 48,762 | 50,849 | | 50,849 |
| Participative stockholders debentures | | 4,080 | 4,080 | | 2,526 | 2,526 |
| | 77,728 | 6,193 | 83,921 | 98,726 | 5,953 | 104,679 |
| Total of financial liabilities | 93,711 | 6,504 | 100,215 | 118,563 | 6,986 | 125,549 |

The classification of financial assets and liabilities by currencies are as follows:

| | Consolidated | | | | | Total |
|---------------------------|--------------|-------|-----|-----|-------------------|--------|
| | R\$ | US\$ | CAD | EUR | Others currencies | |
| Financial assets | | | | | | |
| Current | | | | | | |
| Cash and cash equivalents | 5,921 | 7,924 | 159 | 36 | 278 | 14,318 |

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| | | | | | | |
|---------------------------------------|---------------|---------------|--------------|--------------|------------|---------------|
| Financial investments | 3 | 58 | | | | 61 |
| Derivative financial instruments | 199 | 152 | | | | 351 |
| Accounts receivable | 813 | 7,723 | 20 | | 46 | 8,602 |
| Related parties | | 6,277 | | | | 6,277 |
| | 6,936 | 22,134 | 179 | 36 | 324 | 29,609 |
| Non-current | | | | | | |
| Derivative financial instruments | 1,269 | 228 | | | | 1,497 |
| Loans | 17 | 481 | | | | 498 |
| Related parties | | 8,695 | | | | 8,695 |
| | 1,286 | 9,404 | | | | 10,690 |
| Total of financial assets | 8,222 | 31,538 | 179 | 36 | 324 | 40,299 |
| Financial liabilities | | | | | | |
| Current | | | | | | |
| Suppliers and contractors | 8,150 | 3,665 | 1,277 | 162 | 113 | 13,367 |
| Derivative financial instruments | 314 | 30 | | | | 344 |
| Loans and borrowings | 2,541 | 2,911 | 57 | 124 | | 5,633 |
| Related parties | | 893 | | | | 893 |
| | 11,005 | 7,499 | 1,334 | 286 | 113 | 20,237 |
| Non-current | | | | | | |
| Derivative financial instruments | 2,110 | 159 | | | | 2,269 |
| Loans and borrowings | 11,178 | 53,125 | 685 | 3,771 | | 68,759 |
| Related parties | 258 | 2,968 | | | | 3,226 |
| Participative stockholders debentures | 4,080 | | | | | 4,080 |
| | 17,626 | 56,252 | 685 | 3,771 | | 78,334 |
| Total of financial liabilities | 28,631 | 63,751 | 2,019 | 4,057 | 113 | 98,571 |

Table of Contents

| | Consolidated December 31, 2016 | | | | | Total |
|---------------------------------------|-----------------------------------|---------------|--------------|--------------|-------------------|----------------|
| | R\$ | US\$ | CAD | EUR | Others currencies | |
| Financial assets | | | | | | |
| Current | | | | | | |
| Cash and cash equivalents | 3,132 | 9,448 | 147 | 183 | 981 | 13,891 |
| Financial investments | 4 | 55 | | | | 59 |
| Derivative financial instruments | 339 | 553 | | | | 892 |
| Accounts receivable | 1,098 | 10,787 | | 3 | 49 | 11,937 |
| | 4,573 | 20,843 | 147 | 186 | 1,030 | 26,779 |
| Non-current | | | | | | |
| Derivative financial instruments | 1,304 | 150 | | | | 1,454 |
| Loans | 114 | 313 | 160 | | | 587 |
| | 1,418 | 463 | 160 | | | 2,041 |
| Total of financial assets | 5,991 | 21,306 | 307 | 186 | 1,030 | 28,820 |
| Financial liabilities | | | | | | |
| Current | | | | | | |
| Suppliers and contractors | 6,181 | 3,090 | 1,995 | 313 | 251 | 11,830 |
| Derivative financial instruments | 1,033 | 316 | | | | 1,349 |
| Loans and borrowings | 2,450 | 2,696 | 55 | 209 | | 5,410 |
| Related parties | | 1,150 | | | | 1,150 |
| | 9,664 | 7,252 | 2,050 | 522 | 251 | 19,739 |
| Non-current | | | | | | |
| Derivative financial instruments | 3,427 | 564 | | | | 3,991 |
| Loans and borrowings | 19,128 | 64,498 | 681 | 5,847 | | 90,154 |
| Related parties | 287 | | | | | 287 |
| Participative stockholders debentures | 2,526 | | | | | 2,526 |
| | 25,368 | 65,062 | 681 | 5,847 | | 96,958 |
| Total of financial liabilities | 35,032 | 72,314 | 2,731 | 6,369 | 251 | 116,697 |

| | Parent company December 31, 2017 | | | Total |
|----------------------------------|-------------------------------------|--------------|----------|---------------|
| | R\$ | US\$ | EUR | |
| Financial assets | | | | |
| Current | | | | |
| Cash and cash equivalents | 1,836 | 40 | | 1,876 |
| Financial investments | 4 | | | 4 |
| Derivative financial instruments | 199 | | | 199 |
| Accounts receivable | 1,094 | 8,459 | 7 | 9,560 |
| Related parties | | 206 | | 206 |
| | 3,133 | 8,705 | 7 | 11,845 |
| Non-current | | | | |
| Derivative financial instruments | 1,268 | | | 1,268 |
| Loans | 18 | | | 18 |
| Related parties | | 579 | | 579 |
| | 1,286 | 579 | | 1,865 |
| Total of financial assets | 4,419 | 9,284 | 7 | 13,710 |
| Financial liabilities | | | | |

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| Current | | | | |
|---------------------------------------|---------------|---------------|--------------|----------------|
| Suppliers and contractors | 7,276 | 163 | 64 | 7,503 |
| Derivative financial instruments | 311 | | | 311 |
| Loans and borrowings | 2,228 | 2,026 | 124 | 4,378 |
| Related parties | 822 | 3,280 | | 4,102 |
| | 10,637 | 5,469 | 188 | 16,294 |
| Non-current | | | | |
| Derivative financial instruments | 2,113 | | | 2,113 |
| Loans and borrowings | 10,276 | 15,713 | 2,977 | 28,966 |
| Related parties | 2,508 | 46,254 | | 48,762 |
| Participative stockholders debentures | 4,080 | | | 4,080 |
| | 18,977 | 61,967 | 2,977 | 83,921 |
| Total of financial liabilities | 29,614 | 67,436 | 3,165 | 100,215 |

Table of Contents

| | Parent company December 31, 2016 | | | |
|---------------------------------------|-------------------------------------|---------------|--------------|----------------|
| | R\$ | US\$ | EUR | Total |
| Financial assets | | | | |
| Current | | | | |
| Cash and cash equivalents | 1,185 | 18 | | 1,203 |
| Financial investments | 4 | | | 4 |
| Derivative financial instruments | 338 | | | 338 |
| Accounts receivable | 1,082 | 25,135 | 6 | 26,223 |
| Related parties | 118 | 205 | | 323 |
| | 2,727 | 25,358 | 6 | 28,091 |
| Non-current | | | | |
| Derivative financial instruments | 1,304 | | | 1,304 |
| Loans | 114 | | | 114 |
| Related parties | | 760 | | 760 |
| | 1,418 | 760 | | 2,178 |
| Total of financial assets | 4,145 | 26,118 | 6 | 30,269 |
| Financial liabilities | | | | |
| Current | | | | |
| Suppliers and contractors | 6,365 | 603 | 148 | 7,116 |
| Derivative financial instruments | 1,033 | | | 1,033 |
| Loans and borrowings | 2,149 | 1,815 | 207 | 4,171 |
| Related parties | 131 | 8,792 | | 8,923 |
| | 9,678 | 11,210 | 355 | 21,243 |
| Non-current | | | | |
| Derivative financial instruments | 3,427 | | | 3,427 |
| Loans and borrowings | 17,993 | 24,726 | 5,158 | 47,877 |
| Related parties | 3,694 | 47,155 | | 50,849 |
| Participative stockholders debentures | 2,526 | | | 2,526 |
| | 27,640 | 71,881 | 5,158 | 104,679 |
| Total of financial liabilities | 37,318 | 83,091 | 5,513 | 125,922 |

23. Fair value estimate

Due to the short-term cycle, it is assumed that the fair value of cash and cash equivalents balances, financial investments, accounts receivable and accounts payable approximate their book values. For the measurement and determination of fair value, the Company uses various methods including market, income or cost approaches, in order to estimate the value that market participants would use when pricing the asset or liability. The financial assets and liabilities recorded at fair value are classified and disclosed in accordance with the following levels:

Level 1 - Unadjusted quoted prices on an active, liquid and visible market for identical assets or liabilities that are accessible at the measurement date;

Level 2 - Quoted prices (adjusted or unadjusted) for identical or similar assets or liabilities on active markets; and

Level 3 - Assets and liabilities, for which quoted prices, do not exist, or where prices or valuation techniques are supported by little or no market activity, unobservable or illiquid.

a) **Assets and liabilities measured and recognized at fair value:**

| | December 31, 2017 | | | Consolidated | | December 31, 2016 | |
|---------------------------------------|-------------------|------------|--------------|--------------|--------------|-------------------|--|
| | Level 2 | Level 3 | Total | Level 2 | Level 3 | Total | |
| Financial assets | | | | | | | |
| Derivative financial instruments | 954 | 894 | 1,848 | 1,319 | 1,027 | 2,346 | |
| Total | 954 | 894 | 1,848 | 1,319 | 1,027 | 2,346 | |
| Financial liabilities | | | | | | | |
| Derivative financial instruments | 1,923 | 690 | 2,613 | 3,877 | 1,463 | 5,340 | |
| Participative stockholders debentures | 4,080 | | 4,080 | 2,526 | | 2,526 | |
| Total | 6,003 | 690 | 6,693 | 6,403 | 1,463 | 7,866 | |

Table of Contents

| | December 31, 2017 | | | Parent company | | |
|---------------------------------------|-------------------|------------|--------------|----------------|--------------|--------------|
| | Level 2 | Level 3 | Total | Level 2 | Level 3 | Total |
| Financial assets | | | | | | |
| Derivative financial instruments | 573 | 894 | 1,467 | 615 | 1,027 | 1,642 |
| Total | 573 | 894 | 1,467 | 615 | 1,027 | 1,642 |
| Financial liabilities | | | | | | |
| Derivative financial instruments | 1,734 | 690 | 2,424 | 2,997 | 1,463 | 4,460 |
| Participative stockholders debentures | 4,080 | | 4,080 | 2,526 | | 2,526 |
| Total | 5,814 | 690 | 6,504 | 5,523 | 1,463 | 6,986 |

There were no transfers between Level 1 and Level 2, or between Level 2 and Level 3 in the year ended December 31, 2017.

The following table presents the changes in Level 3 assets and liabilities for the year ended December 31, 2017:

| | Consolidated | | Parent company | |
|-------------------------------------|------------------|---|------------------|-----------------------|
| | Financial assets | Derivative financial instruments Financial liabilities | Financial assets | Financial liabilities |
| Balance at December 31, 2016 | 1,027 | 1,463 | 1,027 | 1,463 |
| Gain recognized in income statement | (133) | (773) | (133) | (773) |
| Balance at December 31, 2017 | 894 | 690 | 894 | 690 |

Methods and techniques of evaluation**i) Derivative financial instruments**

Financial instruments are evaluated by calculating their present value through the use of instrument yield curves at the closing dates. The curves and prices used in the calculation for each group of instruments are detailed in the market curves .

The pricing method used for European options is the Black & Scholes model. In this model, the fair value of the derivative is a function of the volatility in the price of the underlying asset, the exercise price of the option, the interest rate and period to maturity. In the case of options which income is a function of the average price of the underlying asset over the period of the option, the Company uses Turnbull & Wakeman model. In this model, in addition to the factors that influence the option price in the Black-Scholes model, the formation period of the average price is also considered.

In the case of swaps, both the present value of the assets and liability are estimated by discounting the cash flow by the interest rate of the currency in which the swap is denominated. The difference between the present value of assets and liability of the swap generates its fair value.

For the TJLP swaps, the calculation of the fair value assumes that TJLP is constant, that is the projections of future cash flow in Brazilian Reais are made on the basis of the last TJLP disclosed.

Contracts for the purchase or sale of products, inputs and costs of selling with future settlement are priced using the forward yield curves for each product. Typically, these curves are obtained on the stock exchanges where the products are traded, such as the London Metals Exchange (LME), the Commodity Exchange (COMEX) or other providers of market prices. When there is no price for the desired maturity, Vale uses an interpolation between the available maturities.

The fair value for derivatives are within level 3 are measured using discounted cash flows and option model valuation techniques with main unobservable inputs discount rates, stock prices and commodities prices.

Participative stockholders debentures - Consist of the debentures issued during the privatization process (note 13), which fair values are measured based on the market approach. Reference prices are available on the secondary market.

Critical accounting estimates and judgments

The fair values of financial instruments that are not traded in active markets are determined using valuation techniques. Vale uses its own judgment to choose between the various methods. Assumptions are based on the market conditions, at the end of the year.

An analysis of the impact if actual results are different from management's estimates is present on note 33 (sensitivity analysis).

Table of Contents**b) Fair value of financial instruments not measured at fair value**

The fair value estimate for level 1 is based on market approach considering the secondary market contracts. For loans allocated to level 2, the income approach is adopted and the fair value for both fixed-indexed rate debt and floating rate debt is determined on a discounted cash flows basis using LIBOR future values and Vale's bonds curve.

The fair values and carrying amounts of loans and borrowings (net of interest) are as follows:

| | Consolidated | | | | Parent company | | | |
|------------------------------|--------------|------------|---------|---------|----------------|------------|---------|---------|
| | Balance | Fair value | Level 1 | Level 2 | Balance | Fair value | Level 1 | Level 2 |
| Financial liabilities | | | | | | | | |
| December 31, 2017 | | | | | | | | |
| Debt principal | 72,628 | 76,377 | 49,406 | 26,971 | 32,199 | 34,088 | 11,213 | 22,875 |
| December 31, 2016 | | | | | | | | |
| Debt principal | 93,508 | 89,218 | 45,216 | 44,002 | 50,691 | 50,658 | 12,166 | 38,492 |

24. Derivative financial instruments**a) Derivatives effects on statement of financial position**

| | Consolidated Assets | | | |
|---|---------------------|-------------|-------------------|-------------|
| | December 31, 2017 | | December 31, 2016 | |
| | Current | Non-current | Current | Non-current |
| Derivatives not designated as hedge accounting | | | | |
| Foreign exchange and interest rate risk | | | | |
| CDI & TJLP vs. US\$ fixed and floating rate swap | 125 | | 429 | 3 |
| IPCA swap | 30 | 271 | 22 | 199 |
| Eurobonds swap | | 89 | | |
| Pré-dolar swap | 73 | 106 | 3 | 75 |
| | 228 | 466 | 454 | 277 |
| Commodities price risk | | | | |
| Nickel | 73 | 10 | 13 | 7 |
| Bunker oil | 50 | | 425 | |

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| | | | | |
|---------------|------------|--------------|------------|--------------|
| | 123 | 10 | 438 | 7 |
| Others | | 1,021 | | 1,170 |
| | | 1,021 | | 1,170 |
| Total | 351 | 1,497 | 892 | 1,454 |

| | December 31, 2017 | | December 31, 2016 | |
|---|-------------------|--------------|-------------------|--------------|
| | Current | Non-current | Current | Non-current |
| Consolidated Liabilities | | | | |
| Derivatives not designated as hedge accounting | | | | |
| Foreign exchange and interest rate risk | | | | |
| CDI & TJLP vs. US\$ fixed and floating rate swap | 314 | 1,356 | 955 | 2,078 |
| IPCA swap | | 136 | 65 | 186 |
| Eurobonds swap | 13 | | 24 | 147 |
| Euro Forward | | | 149 | |
| Pré-dolar swap | 17 | 79 | 16 | 104 |
| | 344 | 1,571 | 1,209 | 2,515 |
| Commodities price risk | | | | |
| Nickel | | | 16 | 7 |
| Bunker oil | | | 124 | |
| | | | 140 | 7 |
| Others | | 698 | | 1,469 |
| | | 698 | | 1,469 |
| Total | 344 | 2,269 | 1,349 | 3,991 |

Table of Contents

| | Parent company Assets | | | |
|---|--------------------------|--------------|-------------------|--------------|
| | December 31, 2017 | | December 31, 2016 | |
| | Current | Non-current | Current | Non-current |
| Derivatives not designated as hedge accounting | | | | |
| Foreign exchange and interest rate risk | | | | |
| CDI & TJLP vs. US\$ fixed and floating rate swap | 104 | | 322 | 3 |
| IPCA swap | 21 | 273 | 13 | 199 |
| Pré-dolar swap | 74 | 102 | 3 | 75 |
| | 199 | 375 | 338 | 277 |
| Others | | 893 | | 1,027 |
| | | 893 | | 1,027 |
| Total | 199 | 1,268 | 338 | 1,304 |

| | Parent company Liabilities | | | |
|---|-------------------------------|--------------|-------------------|--------------|
| | December 31, 2017 | | December 31, 2016 | |
| | Current | Non-current | Current | Non-current |
| Derivatives not designated as hedge accounting | | | | |
| Foreign exchange and interest rate risk | | | | |
| CDI & TJLP vs. US\$ fixed and floating rate swap | 295 | 1,283 | 952 | 1,777 |
| IPCA swap | | 59 | 65 | 83 |
| Pré-dolar swap | 16 | 81 | 16 | 104 |
| | 311 | 1,423 | 1,033 | 1,964 |
| Others | | 690 | | 1,463 |
| | | 690 | | 1,463 |
| Total | 311 | 2,113 | 1,033 | 3,427 |

b) **Effects of derivatives on the income statement, cash flow and other comprehensive income**

| | Consolidated Year ended December 31 | | | | | | | | |
|---|---|-------|---------|--|---------|-------|---|------|------|
| | Gain (loss) recognized in the income statement | | | Financial settlement inflows (outflows) | | | Gain (loss) recognized in other comprehensive income | | |
| | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 |
| Derivatives not designated as hedge accounting | | | | | | | | | |
| Foreign exchange and interest rate risk | | | | | | | | | |
| CDI & TJLP vs. US\$ fixed and floating rate swap | 483 | 2,897 | (3,644) | (572) | (1,689) | (867) | | | |

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| | | | | | | | | |
|---|--------------|--------------|----------------|--------------|----------------|----------------|-----------|--------------|
| IPCA swap | 132 | 257 | (167) | (65) | (78) | 20 | | |
| Eurobonds swap | 122 | (75) | (353) | (121) | (524) | (39) | | |
| Euro forward | 144 | (152) | | | | | | |
| Pré-dolar swap | 116 | 241 | (462) | (6) | (361) | (158) | | |
| | 997 | 3,168 | (4,626) | (764) | (2,652) | (1,044) | | |
| Commodities price risk | | | | | | | | |
| Nickel | 97 | (158) | (166) | 11 | (113) | (212) | | |
| Bunker oil | (258) | 911 | (2,662) | (10) | (2,829) | (866) | | |
| | (161) | 753 | (2,828) | 1 | (2,942) | (1,078) | | |
| Others | 624 | 261 | (494) | | | | | |
| Derivatives designated as cash flow hedge accounting | | | | | | | | |
| Bunker oil | | | (1,483) | | | (1,513) | | 1,409 |
| Foreign exchange | | (10) | (136) | | (10) | (136) | 10 | 66 |
| | | (10) | (1,619) | | (10) | (1,649) | 10 | 1,475 |
| Total | 1,460 | 4,172 | (9,567) | (763) | (5,604) | (3,771) | 10 | 1,475 |

Table of Contents

| | Gain (loss) recognized in the income statement | | Parent company Year ended December 31 | | Gain (loss) recognized in other comprehensive income | |
|---|--|--------------|--|----------------|--|-----------|
| | 2017 | 2016 | Financial settlement inflows (outflows) | | 2017 | 2016 |
| | | | 2017 | 2016 | | |
| Derivatives not designated as hedge accounting | | | | | | |
| Foreign exchange and interest rate risk | | | | | | |
| CDI & TJLP vs. US\$ fixed and floating rate swap | 423 | 2,685 | (505) | (1,773) | | |
| IPCA swap | 106 | 185 | (65) | (81) | | |
| Pré-dolar swap | 116 | 241 | (7) | (361) | | |
| | 645 | 3,111 | (577) | (2,215) | | |
| Others | 640 | 222 | | | | |
| Derivatives designated as cash flow hedge accounting | | | | | | |
| Foreign exchange | | | | | | 10 |
| | | | | | | 10 |
| Total | 1,285 | 3,333 | (577) | (2,215) | | 10 |

During 2015, the Company implemented bunker oil purchase cash flows protection program and recognized as cost of goods sold and services rendered and financial expense the amounts of R\$1,483 and R\$8,084, respectively. In 2016, all derivatives impacts were charged to financial results.

The maturity dates of the derivative financial instruments are as follows:

| | Last maturity dates |
|-------------------------------|---------------------|
| Currencies and interest rates | January 2024 |
| Bunker oil | December 2017 |
| Nickel | December 2019 |
| Others | December 2027 |

c) Hedge in foreign operations

Implementation of net investment hedge

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As at January 1, 2017, Vale S.A., which the functional currency is Reais, designated its debts in US\$ and Euro, as an instrument in a hedge of its investment in foreign operations (Vale International S.A. and Vale International Holding GmbH; hedging objects) to mitigate part of the foreign exchange risk on financial statements.

At December 31, 2017 the carrying value of the designated debts are R\$17,542 (US\$5,303 million) and R\$2,977 (EUR750 million). The foreign exchange loss of R\$469 (R\$310 net of taxes), was recognized in the Cumulative translation adjustments in stockholders equity for the year ended December 31, 2017. This hedge was highly effective throughout the year ended on December 31, 2017.

Accounting policy

The Company uses financial instruments to hedge its exposure to certain market risks arising from operational, financing and investing activities. Derivatives are included within financial assets or liabilities at fair value through profit or loss unless they are designated as effective hedging instruments.

At the beginning of the hedge operations, the Company documents the type of hedge, the relationship between the hedging instrument and hedged items, its risk management objective and strategy for undertaking hedge operations. The Company also documents, both at hedge inception and on an ongoing basis that the hedge is expected to continue to be highly effective. The Company adopts the hedge accounting procedure and designates certain derivatives as either:

Cash flow hedge - The effective portion of changes in the fair value of derivatives that are designated and qualify as cash flow hedges is recognized in equity within Cumulative translation adjustments . The gain or loss relating to the ineffective portion is recognized immediately in the income statement. When a hedging instrument expires or is sold, or when a hedge no longer meets the criteria for hedge accounting, any cumulative gain or loss existing in equity at that time remains in equity and is recognized in profit or loss when the transaction is recognized in the income statement.

Table of Contents

Net investment hedge - Hedges of net investments in foreign operations are accounted for similarly to cash flow hedges. Any gain or loss on the hedging instrument relating to the effective portion of the hedge is recognized in equity within Cumulative translation adjustments . The gain or loss relating to the ineffective portion is recognized immediately in the income statement. Gains and losses accumulated in equity are included in the statement of income when the foreign operation is partially or fully disposed of or sold.

Derivatives at fair value through profit or loss - Certain derivative instruments do not qualify for hedge accounting. Changes in the fair value of any of these derivative instruments are recognized immediately in the income statement.

The Company has performed an assessment of the IFRS 9 - Financial instruments and the expected impacts are detailed in note 2e.

Additional information about derivatives financial instruments

In millions of Brazilian reais, except as otherwise stated

The risk of the derivatives portfolio is measured using the delta-Normal parametric approach, and considers that the future distribution of the risk factors and its correlations tends to present the same statistic properties verified in the historical data. The value at risk estimate considers a 95% confidence level for a one-business day time horizon.

There was no cash amount deposited as margin call regarding derivative positions on December 31, 2017.

The following tables detail the derivatives positions for Vale and its controlled companies as of December 31, 2017, with the following information: notional amount, fair value including credit risk, gains or losses in the period, value at risk and the fair value breakdown by year of maturity.

a) **Foreign exchange and interest rates derivative positions**

(i) **Protection programs for the R\$ denominated debt instruments**

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In order to reduce cash flow volatility, swap transactions were implemented to convert into US\$ the cash flows from certain debt instruments denominated in R\$ with interest rates linked mainly to CDI, TJLP and IPCA. In those swaps, Vale pays fixed or floating rates in US\$ and receives payments in R\$ linked to the interest rates of the protected debt instruments.

The swap transactions were negotiated over-the-counter and the protected items are the cash flows from debt instruments linked to R\$. These programs transform into US\$ the obligations linked to R\$ to achieve a currency offset in the Company's cash flows, by matching its receivables - mainly linked to US\$ - with its payables.

| Flow | Notional | | Index | Average rate | Fair value | | Financial settlement (Outflows) Inflows December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year | | | | |
|--|----------------------|----------------------|-------|--------------|----------------------|----------------------|---|---------------------------------------|--------------------|------|-------|-------|-------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | 2018 | 2019 | 2020+ | | |
| CDI vs. US\$ fixed rate swap | | | | | | | | | | | | | |
| Receivable | R\$ | 3,540 | R\$ | 6,289 | CDI | 101.33% | (108) | (396) | 44 | 49 | 90 | (78) | (120) |
| Payable | US\$ | 1,104 | US\$ | 2,105 | Fix | 3.20% | | | | | | | |
| TJLP vs. US\$ fixed rate swap | | | | | | | | | | | | | |
| Receivable | R\$ | 2,982 | R\$ | 4,360 | TJLP + | 1.25% | (1,262) | (2,027) | (609) | 122 | (265) | (809) | (188) |
| Payable | US\$ | 1,323 | US\$ | 2,030 | Fix | 1.55% | | | | | | | |
| TJLP vs. US\$ floating rate swap | | | | | | | | | | | | | |
| Receivable | R\$ | 216 | R\$ | 242 | TJLP + | 0.88% | (175) | (179) | (7) | 11 | (14) | (161) | |
| Payable | US\$ | 123 | US\$ | 140 | Libor + | -1.23% | | | | | | | |
| R\$ fixed rate vs. US\$ fixed rate swap | | | | | | | | | | | | | |
| Receivable | R\$ | 1,158 | R\$ | 1,031 | Fix | 8.02% | 80 | (42) | (6) | 88 | 58 | 44 | (22) |
| Payable | US\$ | 385 | US\$ | 343 | Fix | -0.28% | | | | | | | |
| IPCA vs. US\$ fixed rate swap | | | | | | | | | | | | | |
| Receivable | R\$ | 1,000 | R\$ | 1,000 | IPCA + | 6.55% | (113) | (167) | (0) | 29 | 23 | (51) | (85) |
| Payable | US\$ | 434 | US\$ | 434 | Fix | 3.98% | | | | | | | |
| IPCA vs. CDI swap | | | | | | | | | | | | | |
| Receivable | R\$ | 1,350 | R\$ | 1,350 | IPCA + | 6.62% | 280 | 136 | (65) | 1 | 8 | (1) | 273 |
| Payable | R\$ | 1,350 | R\$ | 1,350 | CDI | 98.58% | | | | | | | |

Table of Contents**(ii) Protection program for EUR denominated debt instruments**

In order to reduce the cash flow volatility, swap and forward transactions were implemented to convert into US\$ the cash flows from certain debt instruments issued in Euros by Vale. In those swaps, Vale receives fixed rates in EUR and pays fixed rates in US\$. In those forwards only the principal amount of the debt is converted from EUR to US\$.

The swap and forward transactions were negotiated over-the-counter and the protected items are the cash flows from debt instruments linked to EUR. The financial settlement inflows/outflows are offset by the protected items' losses/gains due to EUR/US\$ exchange rate.

| Flow | Notional | | Index | Average rate | Fair value | | Financial settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year | | |
|--|-------------------|-------------------|-------|--------------|-------------------|-------------------|---|---------------------------------|--------------------|------|-------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | 2018 | 2019 | 2020+ |
| EUR fixed rate vs. US\$ fixed rate swap | | | | | | | | | | | |
| | | | | | 76 | (170) | (22) | 19 | (14) | (12) | 102 |
| Receivable | £ 500 | £ 500 | Fix | 3.75% | | | | | | | |
| Payable | US\$ 613 | US\$ 613 | Fix | 4.29% | | | | | | | |

| Flow | Notional | | Bought/Sold | Average rate (USD/EUR) | Fair value | | Financial settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year 2018 |
|---------|-------------------|-------------------|-------------|------------------------|-------------------|-------------------|---|---------------------------------|-------------------------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | |
| Forward | £ 0 | £ 500 | B | 1.143 | | | (149) | (99) | |

b) Commodities derivative positions**(i) Bunker Oil purchase cash flows protection program**

In order to reduce the impact of bunker oil price fluctuation on maritime freight hiring/supply and, consequently, reducing the company's cash flow volatility, bunker oil derivatives were implemented, through zero cost-collars.

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The derivative transactions were negotiated over-the-counter and the protected item is part of the Vale's costs linked to bunker oil prices. The financial settlement inflows/outflows are offset by the protected items' losses/gains due to bunker oil prices changes.

The contracts expired in 2017.

| Flow | Notional (ton) | | Bought/ Sold | Average strike (US\$/ton) | Fair value | | Financial Settlement Inflows (Outflows) | Value at Risk | Fair value by year |
|------------------------------|----------------------|----------------------|-----------------|------------------------------|-------------------------|-------------------------|--|---------------|-----------------------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | |
| Bunker Oil protection | | | | | | | | | |
| Call options | | 2,856,000 | B | | | 424 | 6 | | |
| Put options | | 2,856,000 | S | | | (45) | | | |
| Total | | | | | | 379 | 6 | | |

As at December 31, 2016, excludes R\$78, of transactions in which the financial settlement occurs subsequently of the closing month.

(ii) Protection programs for base metals raw materials and products

In the operational protection program for nickel sales at fixed prices, derivatives transactions were implemented to convert into floating prices the contracts with clients that required a fixed price, in order to keep nickel revenues exposed to nickel price fluctuations. Those operations are usually implemented through the purchase of nickel forwards.

In the operational protection program for the purchase of raw materials and products, derivatives transactions were implemented, usually through the sale of nickel and copper forward or futures, in order to reduce the mismatch between the pricing period of purchases (concentrate, cathode, sinter, scrap and others) and the pricing period of the final product sales to the clients.

The derivative transactions are negotiated at London Metal Exchange or over-the-counter and the protected item is part of Vale's revenues and costs linked to nickel and copper prices. The financial settlement inflows/outflows are offset by the protected items' losses/gains due to nickel and copper prices changes.

Table of Contents

| Flow | Notional (ton) | | Bought/ Sold | Average strike (US\$/ton) | Fair value | | Financial Settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year | |
|--|---------------------|---------------------|-----------------|------------------------------|----------------------|----------------------|--|---------------------------------------|-----------------------|------|
| | December 31 2017 | December 31 2016 | | | December 31, 2017 | December 31, 2016 | | | 2017 | 2018 |
| Fixed prices sales protection | | | | | | | | | | |
| Nickel forwards | 9,621 | 11,615 | B | 10,253 | 80 | (2) | 12 | 12 | 70 | 10 |
| Raw materials purchase protection | | | | | | | | | | |
| Nickel forwards | 292 | 134 | S | 11,597 | (1.1) | 0.4 | 0.1 | 0.4 | (1.1) | |
| Copper forwards | 79 | 441 | S | 6,941 | (0.1) | (0.5) | (0.9) | 0.0 | (0.1) | |
| Total | | | | | (1.2) | (0.1) | (0.8) | 0.4 | (1.2) | |

c) **Wheaton Precious Metals Corp. warrants**

The company owns warrants of Wheaton Precious Metals Corp. (WPM), a Canadian company with stocks negotiated in Toronto Stock Exchange and New York Stock Exchange. Such warrants configure American call options and were received as part of the payment regarding the sale of part of gold payable flows produced as a sub product from Salobo copper mine and some nickel mines in Sudbury.

| Flow | Notional (quantity) | | Bought/ Sold | Average strike (US\$/share) | Fair value | | Financial Settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year 2023 |
|--------------|---------------------|---------------------|-----------------|--------------------------------|----------------------|----------------------|--|---------------------------------------|-------------------------------|
| | December 31 2017 | December 31 2016 | | | December 31, 2017 | December 31, 2016 | | | |
| Call options | 10,000,000 | 10,000,000 | B | 44 | 128 | 144 | | 13 | 128 |

d) **Debentures convertible into shares of Valor da Logística Integrada (VLI)**

The company has debentures in which lenders have the option to convert the outstanding debt into a specified quantity of shares of VLI owned by the company.

| Flow | Notional (quantity) | | Bought/ Sold | Average strike (R\$/share) | Fair value | | Financial Settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year 2027 |
|--------------------|----------------------|----------------------|-----------------|-------------------------------|----------------------|----------------------|--|---------------------------------------|-------------------------------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | |
| Conversion options | 140,239 | 140,239 | S | 8,530 | (188) | (236) | | 10 | (188) |

e) **Options related to Minerações Brasileiras Reunidas S.A. (MBR) shares**

The Company entered into a stock sale and purchase agreement that has options related to MBR shares. Mainly, the Company has the right to buy back this non-controlling interest in the subsidiary. Moreover, under certain restrict and contingent conditions, which are beyond the buyer's control, such as illegality due to changes in the law, the contract has a clause that gives the buyer the right to sell back its stake to the Company. In this case, the Company could settle through cash or shares.

| Flow | Notional (quantity, in millions) | | Bought/ Sold | Average strike (R\$/ação) | Fair value | | Financial Settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year 2018+ |
|---------|----------------------------------|----------------------|-----------------|------------------------------|----------------------|----------------------|--|---------------------------------------|--------------------------------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | |
| Options | 2,139 | 2,139 | B/S | 1.7 | 831 | 393 | | 41 | 831 |

f) **Embedded derivatives in contracts**

The Company has some nickel concentrate and raw materials purchase agreements in which there are provisions based on nickel and copper future prices behavior. These provisions are considered as embedded derivatives.

| Flow | Notional (ton) | | Bought/ Sold | Average strike (US\$/ton) | Fair value | | Financial Settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year 2018 |
|----------------|----------------------|----------------------|-----------------|------------------------------|----------------------|----------------------|--|---------------------------------------|-------------------------------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | |
| Nickel Forward | 2,627 | 5,626 | S | 11,729 | 3 | 1 | | 3 | 3 |
| Copper Forward | 2,718 | 3,684 | S | 6,808 | 0.1 | 5 | | 1 | 0.1 |
| Total | | | | | 3 | 6 | | 4 | 3 |

Table of Contents

The Company has also a natural gas purchase agreement in which there is a clause that defines that a premium can be charged if the Company's pellet sales prices trade above a pre-defined level. This clause is considered an embedded derivative.

| Flow | Notional (volume/month) | | Bought/ Sold | Average strike (US\$/ton) | Fair value | | Financial Settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value by year | |
|--------------|-------------------------|----------------------|-----------------|------------------------------|----------------------|----------------------|--|---------------------------------------|--------------------|-------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | 2018 | 2019+ |
| Call options | 746,667 | 746,667 | S | 233 | (6) | (7) | | 4 | (0) | (6) |

In August 2014 the Company sold part of its stake in Valor da Logística Integrada (VLI) to an investment fund managed by Brookfield Asset Management (Brookfield). The sales contract includes a clause that establishes, under certain conditions, a minimum return guarantee on Brookfield's investment. This clause is considered an embedded derivative, with payoff equivalent to that of a put option.

| Flow | Notional (quantity) | | Bought / Sold | Average strike (R\$/share) | Fair value | | Financial Settlement Inflows (Outflows) December 31, 2017 | Value at Risk December 31, 2017 | Fair value |
|------------|----------------------|----------------------|------------------|-------------------------------|----------------------|----------------------|--|---------------------------------------|------------------|
| | December 31, 2017 | December 31, 2016 | | | December 31, 2017 | December 31, 2016 | | | by year 2018+ |
| Put option | 1,105,070,863 | 1,105,070,863 | S | 3.86 | (439) | (593) | | 32 | (439) |

For sensitivity analysis of derivative financial instruments, Financial counterparties ratings and market curves please see note 33.

25. Provisions

| | Consolidated | | | |
|--|---------------------|-------------------|-------------------------|-------------------|
| | Current liabilities | | Non-current liabilities | |
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Payroll, related charges and other remunerations (i) | 3,641 | 2,362 | | |
| Onerous contracts (note 19) | 337 | 329 | 1,203 | 1,541 |
| Environment Restoration | 99 | 33 | 262 | 362 |
| Asset retirement obligations (note 26) | 289 | 154 | 10,191 | 8,055 |
| Provisions for litigation (note 27) | | | 4,873 | 2,734 |

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| | | | | |
|---|--------------|--------------|---------------|---------------|
| Employee postretirement obligations (note 28) | 244 | 225 | 6,714 | 6,038 |
| Provisions | 4,610 | 3,103 | 23,243 | 18,730 |

| | Current liabilities | | Parent company | |
|--|---------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Payroll, related charges and other remunerations (i) | 2,541 | 1,649 | | |
| Environment Restoration | 80 | 14 | 106 | 200 |
| Asset retirement obligations (note 26) | 210 | 71 | 1,793 | 1,571 |
| Provisions for litigation (note 27) | | | 4,219 | 1,944 |
| Employee postretirement obligations (note 28) | 73 | 58 | 782 | 681 |
| Provisions | 2,904 | 1,792 | 6,900 | 4,396 |

(i) Includes profit sharing provision R\$2,490 and R\$1,064 for the year ended December, 31 2017 and 2016, respectively. For the Parent Company, R\$1,780 and R\$638 for the year ended December 31, 2017 and 2016, respectively.

Table of Contents**26. Asset retirement obligations**

Provision is made for expected costs for the closure of the mines and deactivation of the related mining assets. Changes in the provision for asset retirement obligations and long-term interest rates (per annum, used to discount these obligations to present value and to update the provisions) are as follows:

| | Consolidated | | Parent company | |
|---|-------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Balance at beginning of the year | 8,209 | 9,659 | 1,642 | 1,374 |
| Interest expense | 220 | 405 | 126 | 183 |
| Settlements | (195) | (264) | (32) | (12) |
| Revisions on cash flows estimates | 2,039 | 737 | 267 | 97 |
| Translation adjustment | 480 | (1,160) | | |
| Effect of discontinued operations | | | | |
| Transfer to net assets held for sale | (273) | (1,168) | | |
| Balance at end of the year | 10,480 | 8,209 | 2,003 | 1,642 |
| Current | 289 | 154 | 210 | 71 |
| Non-current | 10,191 | 8,055 | 1,793 | 1,571 |
| | 10,480 | 8,209 | 2,003 | 1,642 |
| Long-term interest rates (per annum) | | | | |
| Brazil | 5.34% | 5.73% | 5.34% | 5.73% |
| Canada | 0.57% | 0.55% | | |
| Other regions | 0.72% - 6.13% | 1.07% - 8.02% | | |

Accounting policy

When the provision is recognized, the corresponding cost is capitalized as part of property, plant and equipment and is depreciated over the useful life of the related mining asset, resulting in an expense recognized in the income statement.

The long-term liability is discounted at presented value using a long-term risk free discount rate applicable to the liability and the unwinds are recorded in the income statement and is reduced by payments for mine closure and decommissioning of mining assets.

The accrued amounts of these obligations are not deducted from the potential costs covered by insurance or indemnities.

Critical accounting estimates and judgments

Judgment is required to determine key assumptions used on the asset retirement obligation measurement such as, interest rate, cost of closure, useful life of the mining asset considering the current conditions of closure and the projected date of depletion of each mine. Any changes in these assumptions may significant impact the recorded provision. Therefore, the estimated costs for closure of the mining assets is deemed to be a critical accounting estimate. These estimates are annually reviewed.

27. Litigation

a) Provision for litigation

Vale is party to labor, civil, tax and other ongoing lawsuits, at administrative and court levels. Provisions for losses resulting from lawsuits are estimated and updated by the Company, based on analysis from the Company's legal consultants.

Table of Contents

Changes in provision for litigation are as follows:

| | Consolidated | | | | |
|--|----------------|------------------|------------------|--------------------------|-------------------------------|
| | Tax litigation | Civil litigation | Labor litigation | Environmental litigation | Total of litigation provision |
| Balance at December 31, 2015 | 1,052 | 309 | 1,771 | 78 | 3,210 |
| Additions | 86 | 347 | 830 | 7 | 1,270 |
| Reversals | (127) | (224) | (412) | (20) | (783) |
| Payments | (410) | (212) | (363) | (11) | (996) |
| Indexation and interest | 155 | 68 | 28 | (10) | 241 |
| Translation adjustment | (2) | | 2 | 1 | 1 |
| Effect of discontinued operations | | | | | |
| Net movements of year | 1 | (5) | 28 | (1) | 23 |
| Transfers to net assets held for sale | (60) | (11) | (142) | (19) | (232) |
| Balance at December 31, 2016 | 695 | 272 | 1,742 | 25 | 2,734 |
| Additions | 123 | 168 | 781 | 19 | 1,091 |
| Reversals | (54) | (116) | (375) | (6) | (551) |
| Payments | (372) | (8) | (336) | (2) | (718) |
| Indexation and interest | 41 | 116 | 112 | (2) | 267 |
| Translation adjustment | 37 | | | | 37 |
| Merger of Valepar (note 29) (i) | 2,013 | | | | 2,013 |
| Balance at December 31, 2017 | 2,483 | 432 | 1,924 | 34 | 4,873 |

| | Parent company | | | | |
|-------------------------------------|----------------|------------------|------------------|--------------------------|-------------------------------|
| | Tax litigation | Civil litigation | Labor litigation | Environmental litigation | Total of litigation provision |
| Balance at December 31, 2015 | 332 | 241 | 1,562 | 55 | 2,190 |
| Additions | 44 | 346 | 804 | 8 | 1,202 |
| Reversals | (50) | (202) | (407) | (19) | (678) |
| Payments | (275) | (206) | (337) | (11) | (829) |
| Indexation and interest | 2 | 68 | (1) | (10) | 59 |
| Balance at December 31, 2016 | 53 | 247 | 1,621 | 23 | 1,944 |
| Additions | 75 | 82 | 730 | 12 | 899 |
| Reversals | (4) | (104) | (362) | (6) | (476) |
| Payments | (78) | (27) | (323) | (2) | (430) |
| Indexation and interest | 58 | 110 | 104 | (3) | 269 |
| Merger of Valepar (note 29) (i) | 2,013 | | | | 2,013 |
| Balance at December 31, 2017 | 2,117 | 308 | 1,770 | 24 | 4,219 |

(i) refers to litigations of PIS/COFINS of interest on capital.

i. **Provisions for labor litigation** - Consist of lawsuits filed by employees and service suppliers, related to employment relationships mainly in Brazil. The most recurring claims are related to payment of overtime, hours in itinerary, and health and safety. Also the social security in Brazil (INSS) contingencies are related to legal and administrative disputes between INSS and Vale due to applicability of compulsory social security charges.

b) **Contingent liabilities**

Contingent liabilities of administrative and judicial claims, with expectation of loss classified as possible, and for which the recognition of a provision is not considered necessary by the Company, based on legal advice are as follows:

| | Consolidated | | Parent company | |
|--------------------------|-------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Tax litigation (i) | 29,244 | 24,886 | 26,510 | 21,418 |
| Civil litigation | 5,371 | 4,936 | 3,957 | 3,857 |
| Labor litigation | 6,455 | 7,885 | 6,118 | 7,476 |
| Environmental litigation | 7,242 | 6,133 | 7,058 | 5,943 |
| Total | 48,312 | 43,840 | 43,643 | 38,694 |

(i) R\$613 from merger of Valepar S.A.

i - Tax litigation - Our most significant tax-related contingent liabilities result from disputes related to (i) the deductibility of our payments of social security contributions on the net income (CSLL) from our taxable income, (ii) challenges of certain tax credits we deducted from our PIS and COFINS payments, (iii) assessments of CFEM (royalties), and (iv) charges of value-added tax on services and circulation of goods (ICMS), especially relating to certain tax credits we claimed from the sale and transmission of energy, ICMS charges to anticipate the payment in the entrance of goods to Pará State and ICMS/penalty charges on our own transportation. The changes reported in the period resulted, mainly, from additions of other periods to the existing proceedings related to PIS, COFINS, ICMS, CFEM; as well as the inclusion of Valepar S.A. proceedings and the application interest and inflation adjustments to the disputed amounts.

Table of Contents

ii - Civil litigation - Most of those claims have been filed by suppliers for indemnification under construction contracts, primarily relating to certain alleged damages, payments and contractual penalties. A number of other claims related to contractual disputes regarding inflation index.

iii - Labor litigation - Represents individual claims by employees and service providers, primarily involving demands for additional compensation for overtime work, time spent commuting or health and safety conditions; and the Brazilian federal social security administration (INSS) regarding contributions on compensation programs based on profits.

iv - Environmental litigation - The most significant claims concern alleged procedural deficiencies in licensing processes, noncompliance with existing environmental licenses or damage to the environment.

c) Judicial deposits

In addition to the provisions and contingent liabilities, the Company is required by law to make judicial deposits to secure a potential adverse outcome of certain lawsuits. These court-ordered deposits are monetarily adjusted and reported as non-current assets until a judicial decision to draw the deposit occurs.

| | Consolidated | | Parent company | |
|--------------------------|-------------------|-------------------|-------------------|-------------------|
| | December 31, 2017 | December 31, 2016 | December 31, 2017 | December 31, 2016 |
| Tax litigation (i) | 3,971 | 630 | 3,864 | 499 |
| Civil litigation | 199 | 202 | 48 | 53 |
| Labor litigation | 2,359 | 2,251 | 2,156 | 2,078 |
| Environmental litigation | 42 | 52 | 42 | 51 |
| Total | 6,571 | 3,135 | 6,110 | 2,681 |

(i) Includes R\$3,034 related to the merger of Valepar (note 29).

d) Contingencies related to Samarco accident

(i) Public civil claim filed by the Federal Government and others

The federal government, the two Brazilian states affected by the failure (Espírito Santo and Minas Gerais) and other governmental authorities have initiated a public civil lawsuit against Samarco and its shareholders, Vale S.A. and BHPB, with an estimated value indicated by the plaintiffs of R\$20.2 billion.

The Framework Agreement signed in March 2016, was ratified by the Federal Regional Court (TRF) in May 2016. This ratification was suspended by the Superior Court of Justice (STJ) in June 2016 and resulted in the restoration of the public civil claim, and maintained other measures, such as: (a) the prohibition of the defendants from transferring or conveying any of their interest in its Brazilian iron ore concessions, without, however, limiting their production and commercial activities and; (b) the order of the deposit with the court of R\$1.2 billion by January 2017, which was provisionally replaced by the guarantees provided for under the agreements with Federal Prosecution Office (MPF), as detailed in the item (ii) below.

(ii) Public civil action filed by Federal Prosecution Office

On May 3, 2016, the Federal Prosecution Office (MPF) filed a public civil lawsuit against Samarco and its shareholders and presented several demands, including: (i) the adoption of measures for mitigating the social, economic and environmental impacts resulting from the dam failure and other emergency measures; (ii) the payment of compensation to the community; and (iii) payments for the collective moral damage. The action value indicated by the MPF is R\$155 billion.

In January 2017 Samarco, Vale S.A. and BHPB entered into two preliminary agreements with the MPF.

The first agreement (First Agreement) aims to outline the process and timeline for negotiations of a Final Agreement (Final Agreement), initially expected to occur by June 30, 2017 and extended by April 20, 2018. This First Agreement establishes a timeline and actions to set the ground for conciliation of two public civil lawsuits in the amounts of R\$20.2 billion and R\$155 billion, mentioned above, which are actually suspended.

In addition, the First Agreement provides for: (a) the appointment of experts to give support the Federal Prosecutors and paid for by the companies to conduct a diagnosis and monitor the progress of the programs under the Framework Agreement, and (b) holding at public hearings and the engagement of technical assistance to the affected people, in order to allow these communities to take part in the definition of the content of the Final Agreement.

Table of Contents

Samarco, Vale S.A. and BHPB has agreed to provide a guarantee for fulfillment of the obligations regarding the financing and payment of the socio-environmental and socio-economic remediation programs resulting from the Fundão dam failure, pursuant to the two public civil actions, until the signing of the Final Agreement, amounting to R\$2.2 billion, of which (i) R\$100 in financial investments; (ii) R\$1.3 billion in insurance bonds; and (iii) R\$800 in assets of Samarco. If, by April 20, 2018, the negotiations have not been completed, the Federal Prosecutor's Office may require that the Court re-institute the order for the deposit of R\$1.2 billion in relation to the R\$20.2 billion public civil action and R\$7.7 billion related R\$ 155 billion mentioned above, which are actually suspended.

On March 16, 2017, the 12th Judicial Federal Court of Belo Horizonte partially ratified the First Agreement, which decision includes: (i) ratification of the engagement of experts to perform a socio-environmental impact assessment and assessment of programs under the Framework Agreement and a period for the companies to engage an expert to perform the socio-economic impact assessment; (ii) the consolidation and suspension of related claims aiming to avoid contradictory or conflicting decisions and to establish a unified judicial procedure in order for the parties to be able to reach a final agreement; (iii) accepted the guarantees proposed by Samarco and its shareholders under the Preliminary Agreement on a temporary basis.

In addition, the Second Agreement (Second Agreement) was signed on January 19, 2017, which establishes a timetable to make funds available to remediate the social, economic and environmental damages caused by the Fundão dam failure in the municipalities of Barra Longa, Rio Doce, Santa Cruz do Escalvado and Ponte Nova, amounting to R\$200. The 12th Judicial Federal Court of Belo Horizonte ratified this Second Agreement.

Parties are still negotiating an agreement regarding the choice of the expert to perform the socio-economic impact assessment. In this regard, on November 16th, 2017, they signed an addendum to the First Agreement, in which the parties defined matters related to the socio-economic impact assessment, its institutional structure and the respective experts, which, in the period of 90 days from the signing of the addendum, shall present their technical and commercial proposals.

Alongside, the parties, together with the plaintiffs of the R\$20.2 billion public civil lawsuit, the State Prosecutors and the Public Defenders, are conducting the discussions regarding the Final Agreement.

(iii) *U.S. Securities class action suits*

Related to the Vale's American Depositary Receipts

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Vale S.A. and certain of its officers were named as defendants in securities class action suits in the Federal Court in New York brought by holders of Vale's American Depositary Receipts under U.S. federal securities laws. The lawsuits allege that Vale S.A. made false and misleading statements or did not make disclosures concerning the risks and dangers of the operations of Samarco's Fundão dam and the adequacy of related programs and procedures. The plaintiffs have not specified an amount of alleged damages or indemnities in these actions.

On March 23, 2017 the judge issued a decision rejecting a significant portion of the claims against Vale S.A. and the individual defendants, and determining the prosecution of the action with respect to more limited claims. The portion of plaintiffs' case that remains is related to certain statements about procedures, policies and risk mitigation plans contained in Vale S.A.'s sustainability reports in 2013 and 2014, and certain statements regarding to the responsibility of Vale S.A. for the Fundão dam failure made in a conference call in November 2015.

This lawsuit is currently ongoing with under discovery the gathering of documents to be provided to the plaintiffs.

Vale S.A. continues to contest the outstanding points related to this lawsuit.

Related to the Samarco bonds

In March 2017, holders of bonds issued by Samarco filed a class action suit in the Federal Court in New York against Samarco, Vale S.A. and BHPB under U.S. federal securities laws demanding for indemnification for alleged violation of U.S. federal securities laws. The plaintiffs allege that false and misleading statements were made or disclosures omitted concerning the risks and dangers of the operations of Samarco's Fundão dam and the adequacy of related programs and procedures. It is alleged that with the Fundão dam collapse, the securities have dramatically decreased, in order that the investors who have purchased such securities in a misleading way should be compensated, without, however, specifying an amount for the alleged damages or indemnities in this action.

Vale S.A. continues to contest this lawsuit.

Table of Contents

(iv) Criminal lawsuit

On October 20, 2016, the MPF brought a criminal lawsuit in the Brazilian Federal Justice Court against Vale S.A., BHPB, Samarco, VogBr Recursos Hídricos e Geotecnia Ltda. and 22 individuals for alleged crimes against the environment, urban planning and cultural heritage, flooding, landslide, as well as for alleged crimes against the victims of the Fundão dam failure.

In November 2017 it was published a decision by means of the Federal Lower Court of Ponte Nova established the resume of the criminal lawsuit and determined the beginning of the Discovery phase.

(v) Other lawsuits

In addition, Samarco and its shareholders were named as a defendant in several other lawsuits brought by individuals, corporations, governmental entities or public prosecutor seeking personal and property damages.

Given the status of these lawsuits, it is not possible at this time to provide a range of possible outcomes or a reliable estimates of potential exposures for Vale S.A. Consequently, no contingent liability has been quantified and no provision was recognized for lawsuits related to Samarco's dam failure.

Accounting policy

A provision is recognized when is considered probable that an outflow of resources will be required to settle the obligation and can be reliably estimated. The liability is accounted against an expense in the income statement. This obligation is updated based on the developments of the judicial process or interest accretion and can be reversed if the expectation of loss is not considered probable due to changes in circumstances or when the obligation is settled.

Critical accounting estimates and judgments

By nature, litigations will be resolved when one or more future event occurs or fails to occur. Typically, the occurrence or not of such events is outside of the Company's control. Legal uncertainties involve the application of significant estimates and judgments by management regarding the potential outcomes of future events.

28. Employee benefits

a) Employee postretirements obligations

In Brazil, the management of the pension plans is responsibility of Fundação Vale do Rio Doce de Seguridade Social (Valia) a nonprofit entity with administrative and financial autonomy. The Brazilian plans are as follows:

Benefit plan Vale Mais (Vale Mais) and benefit plan Valiaprev (Valiaprev) - Certain Company's employees are participants of Vale Mais and Valiaprev plans, with components of defined benefit (specific coverage for death, pensions and disability allowances) and components of defined contributions (for programmable benefits). The defined benefits plan is subject to actuarial evaluations. The defined contribution plan represents a fixed amount held on behalf of the participants. Both Vale Mais and Valiaprev were overfunded as at December 31, 2017 and 2016.

Defined benefit plan (Plano BD) - The Plano BD has been closed to new entrants since the year 2000, when the Vale Mais plan was implemented. It is a plan that has defined benefit characteristics, covering almost exclusively retirees and their beneficiaries. It was overfunded as of December 31, 2017 and 2016 and the contributions made by the Company are not relevant.

Abono complementação benefit plan - The Company sponsors a specific group of former employees entitled to receive additional benefits from Valia regular payments plus post-retirement benefit that covers medical, dental and pharmaceutical assistance. The contributions made by the Company finished in 2014. The abono complementação benefit was overfunded as at December 31, 2017 and 2016.

Other benefits - The Company sponsors medical plans for employees that meet specific criteria and for employees who use the abono complementação benefit. Although those benefits are not specific retirement plans, actuarial calculations are used to calculate future commitments. As those benefits are related to health care plans they have the nature of underfunded benefits, and are presented as underfunded plans as at December 31, 2017 and 2016.

Table of Contents

The Foreign plans are managed in accordance with their region. They are divided between plans in Canada, United States of America, United Kingdom, Indonesia, New Caledonia, Japan and Taiwan. Pension plans in Canada are composed of a defined benefit and defined contribution component. Currently the defined benefit plans do not allow new entrants. The foreign defined benefit plans are underfunded as at December 31, 2017 and 2016.

Employers' disclosure about pensions and other post-retirement benefits on the status of the defined benefit elements of all plans is provided as follows.

i. Change in benefit obligation

| | Overfunded pension plans | Consolidated Underfunded pension plans | Other benefits | Parent company Overfunded pension plans | Other benefits |
|---|--------------------------|---|----------------|--|----------------|
| Benefit obligation as at December 31, 2015 | 9,659 | 14,407 | 4,772 | 9,640 | 555 |
| Service costs | 36 | 267 | (44) | 34 | 103 |
| Interest costs | 1,256 | 608 | 231 | 1,253 | 72 |
| Benefits paid | (970) | (900) | (212) | (969) | (66) |
| Participant contributions | 2 | 2 | | 2 | |
| Effect of changes in the actuarial assumptions | 942 | 371 | 244 | 936 | 76 |
| Translation adjustment | | (1,906) | (574) | | |
| Others | | 334 | | | |
| Transfer to held for sale | (29) | | (193) | | |
| Benefit obligation as at December 31, 2016 | 10,896 | 13,183 | 4,224 | 10,896 | 740 |
| Service costs | 23 | 275 | 95 | 23 | 27 |
| Interest costs | 1,149 | 587 | 215 | 1,149 | 78 |
| Benefits paid | (1,039) | (881) | (207) | (1,039) | (74) |
| Participant contributions | 2 | (39) | | 2 | |
| Effect of changes in the actuarial assumptions | 208 | 560 | 40 | 208 | 84 |
| Translation adjustment | | 1,104 | 294 | | |
| Benefit obligation as at December 31, 2017 | 11,239 | 14,789 | 4,661 | 11,239 | 855 |

ii. Evolution of assets fair value

| | Overfunded pension plans | Consolidated Underfunded pension plans | Other benefits | Parent company Overfunded pension plans | Other benefits |
|--|--------------------------|---|----------------|--|----------------|
|--|--------------------------|---|----------------|--|----------------|

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| | | | | |
|---|---------------|---------------|-------|---------------|
| Fair value of plan assets as at | | | | |
| December 31, 2015 | 13,413 | 12,083 | | 13,383 |
| Interest income | 1,777 | 525 | | 1,772 |
| Employer contributions | 143 | 342 | 212 | 140 |
| Participant contributions | 2 | 2 | | 2 |
| Benefits paid | (970) | (900) | (212) | (969) |
| Return on plan assets (excluding interest income) | 976 | 192 | | 970 |
| Translation adjustment | | (1,530) | | |
| Others | | 430 | | |
| Transfer to held for sale | (43) | | | |
| Fair value of plan assets as at | | | | |
| December 31, 2016 | 15,298 | 11,144 | | 15,298 |
| Interest income | 1,639 | 482 | | 1,639 |
| Employer contributions | 121 | 207 | 207 | 121 |
| Participant contributions | 2 | (39) | | 2 |
| Benefits paid | (1,039) | (881) | (207) | (1,039) |
| Return on plan assets (excluding interest income) | (49) | 568 | | (49) |
| Translation adjustment | | 1,011 | | |
| Fair value of plan assets as at | | | | |
| December 31, 2017 | 15,972 | 12,492 | | 15,972 |

Table of Contents

iii. Reconciliation of assets and liabilities recognized in the statement of financial position

| | Consolidated Plans in Brazil | | | | | |
|--|---------------------------------|---|----------------|-----------------------------|---|----------------|
| | Overfunded pension plans | December 31, 2017 Underfunded pension plans | Other benefits | Overfunded pension plans | December 31, 2016 Underfunded pension plans | Other benefits |
| Balance at beginning of the year | 4,402 | | | 3,754 | | |
| Interest income | 485 | | | 539 | | |
| Changes on asset ceiling and onerous liability | (154) | | | 120 | | |
| Transfer to held for sale | | | | (11) | | |
| Balance at end of the year | 4,733 | | | 4,402 | | |

Amount recognized in the statement of financial position

| | | | | | | |
|--|----------|--------------|--------------|----------|--------------|--------------|
| Present value of actuarial liabilities | (11,239) | (1,328) | (854) | (10,896) | (1,260) | (740) |
| Fair value of assets | 15,972 | 792 | | 15,298 | 839 | |
| Effect of the asset ceiling | (4,733) | | | (4,402) | | |
| Liabilities | | (536) | (854) | | (421) | (740) |
| Current liabilities | | | (73) | | | (58) |
| Non-current liabilities | | (536) | (781) | | (421) | (682) |
| Liabilities | | (536) | (854) | | (421) | (740) |

| | Consolidated Foreign plan | | | | | |
|---|------------------------------|---|----------------|-----------------------------|---|----------------|
| | Overfunded pension plans | December 31, 2017 Underfunded pension plans | Other benefits | Overfunded pension plans | December 31, 2016 Underfunded pension plans | Other benefits |
| Amount recognized in the statement of financial position | | | | | | |
| Present value of actuarial liabilities | | (13,461) | (3,807) | | (11,923) | (3,484) |
| Fair value of assets | | 11,700 | | | 10,305 | |
| Liabilities | | (1,761) | (3,807) | | (1,618) | (3,484) |
| Current liabilities | | (54) | (117) | | (53) | (114) |
| Non-current liabilities | | (1,707) | (3,690) | | (1,565) | (3,370) |
| Liabilities | | (1,761) | (3,807) | | (1,618) | (3,484) |

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| | Consolidated Total | | | | | Other benefits |
|---|-----------------------------|---|-----------------------------|---|----------------|----------------|
| | Overfunded pension plans | December 31, 2017 Underfunded pension plans | Overfunded pension plans | December 31, 2016 Underfunded pension plans | Other benefits | |
| Balance at beginning of the year | 4,402 | | 3,754 | | | |
| Interest income | 485 | | 539 | | | |
| Changes on asset ceiling and onerous liability | (154) | | 120 | | | |
| Transfer to held for sale | | | (11) | | | |
| Balance at end of the year | 4,733 | | 4,402 | | | |
| Amount recognized in the statement of financial position | | | | | | |
| Present value of actuarial liabilities | (11,239) | (14,789) | (4,661) | (10,896) | (13,183) | (4,224) |
| Fair value of assets | 15,972 | 12,492 | | 15,298 | 11,144 | |
| Effect of the asset ceiling | (4,733) | | | (4,402) | | |
| Liabilities | | (2,297) | (4,661) | | (2,039) | (4,224) |
| Current liabilities | | (54) | (190) | | (53) | (172) |
| Non-current liabilities | | (2,243) | (4,471) | | (1,986) | (4,052) |
| Liabilities | | (2,297) | (4,661) | | (2,039) | (4,224) |

Table of Contents

| | December 31, 2017 | | Parent company Plans in Brazil | | December 31, 2016 | |
|---|-----------------------------|----------------|-----------------------------------|----------------|-----------------------------|----------------|
| | Overfunded pension plans | Other benefits | Overfunded pension plans | Other benefits | Overfunded pension plans | Other benefits |
| Balance at beginning of the year | 4,402 | | 3,743 | | | |
| Interest income | 485 | | 539 | | | |
| Changes on asset ceiling and onerous liability | (154) | | 120 | | | |
| Balance at end of the year | 4,733 | | 4,402 | | | |
| Amount recognized in the statement of financial position | | | | | | |
| Present value of actuarial liabilities | (11,239) | (855) | (10,896) | (739) | | |
| Fair value of assets | 15,972 | | 15,298 | | | |
| Effect of the asset ceiling | (4,733) | | (4,402) | | | |
| Liabilities | | (855) | | (739) | | |
| Current liabilities | | (73) | | (58) | | |
| Non-current liabilities | | (782) | | (681) | | |
| Liabilities | | (855) | | (739) | | |

iv. Costs recognized in the income statement

| | Consolidated Year ended December 31 | | | | | | | | |
|--|--|---|-------------------|--------------------------------|---|-------------------|--------------------------------|---|-------------------|
| | Overfunded pension plans | 2017 Underfunded pension plans | Other Benefits | Overfunded pension plans | 2016 Underfunded pension plans | Other benefits | Overfunded pension plans | 2015 Underfunded pension plans | Other benefits |
| Service cost | 23 | 275 | 95 | 36 | 267 | (44) | 65 | 308 | 92 |
| Interest on expense on liabilities | 1,149 | 587 | 215 | 1,256 | 608 | 231 | 1,181 | 591 | 219 |
| Interest income on plan assets | (1,639) | (482) | | (1,777) | (525) | | (1,616) | (498) | |
| Interest expense on effect of (asset ceiling)/ onerous liability | 485 | | | 541 | | | 437 | | |
| Total of cost, net | 18 | 380 | 310 | 56 | 350 | 187 | 67 | 401 | 311 |

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| | Parent company Year ended December 31 | | | | | |
|--|--|--------------------------------------|-------------------|-----------------------------|--------------------------------------|-------------------|
| | Overfunded pension plans | 2017 Underfunded pension plans | Other benefits | Overfunded pension plans | 2016 Underfunded pension plans | Other benefits |
| Service cost | 23 | | 27 | 34 | | 103 |
| Interest on expense on liabilities | 1,149 | | 78 | 1,253 | | 72 |
| Interest income on plan assets | (1,639) | | | (1,772) | | |
| Interest expense on effect of (asset ceiling)/ onerous liability | 485 | | | 540 | | |
| Total of cost, net | 18 | | 105 | 55 | | 175 |

v. Costs recognized in the statement of comprehensive income

| | Consolidated Year ended December 31 | | | | | | | | |
|--|--|--------------------------------------|-------------------|-----------------------------|--------------------------------------|-------------------|-----------------------------|--------------------------------------|-------------------|
| | Overfunded pension plans | 2017 Underfunded pension plans | Other benefits | Overfunded pension plans | 2016 Underfunded pension plans | Other benefits | Overfunded pension plans | 2015 Underfunded pension plans | Other benefits |
| Balance at beginning of the year | (500) | (1,616) | (523) | (440) | (1,934) | (369) | (380) | (1,515) | (350) |
| Effect of changes actuarial assumptions | (212) | (560) | (94) | (942) | (371) | (244) | 710 | 267 | 119 |
| Return on plan assets (excluding interest income) | (4) | 545 | | 976 | 192 | | (977) | (36) | |
| Change of asset ceiling / costly liabilities (excluding interest income) | 159 | | | (125) | | | 170 | | |
| Others | (11) | 1 | (47) | | 95 | | | 8 | |
| | (68) | (14) | (141) | (91) | (84) | (244) | (97) | 239 | 119 |
| Deferred income tax | 23 | (6) | 42 | 31 | 62 | 60 | 33 | (4) | (33) |
| Others comprehensive income | (45) | (20) | (99) | (60) | (22) | (184) | (64) | 235 | 86 |
| Translation adjustments | | (8) | (2) | | 340 | 30 | | (650) | (105) |
| Transfers/disposal | | 2 | (2) | | | | 4 | (4) | |
| Accumulated other comprehensive income | (545) | (1,642) | (626) | (500) | (1,616) | (523) | (440) | (1,934) | (369) |

Table of Contents

| | Parent company | | | | | |
|--|-----------------------------|--------------------------------------|-------------------|-----------------------------|--------------------------------------|-------------------|
| | Year ended December 31 | | | | | |
| | Overfunded pension plans | 2017 Underfunded pension plans | Other benefits | Overfunded pension plans | 2016 Underfunded pension plans | Other benefits |
| Balance at beginning of the year | (501) | | (190) | (444) | | (140) |
| Effect of changes actuarial assumptions | (208) | | (84) | (936) | | (76) |
| Return on plan assets (excluding interest income) | (49) | | | 970 | | |
| Change of asset ceiling / costly liabilities (excluding interest income) | 154 | | | (121) | | |
| Others | | | (2) | | | |
| | (103) | | (86) | (87) | | (76) |
| Deferred income tax | 35 | | 29 | 30 | | 26 |
| Others comprehensive income | (68) | | (57) | (57) | | (50) |
| Accumulated other comprehensive income | (569) | | (247) | (501) | | (190) |

vi. Risks related to plans

The Administrators of the plans have committed to strategic planning to strengthen internal controls and risk management. This commitment is archived by conducting audits including of internal controls, which aim to mitigate operational market and credit risks. Risks are presented as follow:

Legal - lawsuits: issuing periodic reports to internal audit and directors contemplating the analysis of lawyers about the possibility of loss (remote, probable or possible), aiming to support the administrative decision regarding provisions. Analysis and ongoing monitoring of developments in the legal scenario and its dissemination within the institution in order to subsidize the administrative plans, considering the impact of regulatory changes.

Actuarial - the annual actuarial valuation of the benefit plans comprises the assessment of costs, revenues and adequacy of plan funding. It also considers the monitoring of biometric, economic and financial assumptions (asset volatility, changes in interest rates, inflation, life expectancy, salaries and other).

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Market - profitability projections are performed for the various plans and profiles of investments for 10 years in the management study of assets and liabilities. These projections include the risks of investments in various market segments. Furthermore, the risks for short-term market of the plans are monitored monthly through metrics of VaR (Value at Risk) and stress testing. For exclusive investment funds of Valia, the market risk is measured daily by the custodian asset bank.

Credit - assessment of the credit quality of issuers by hiring expert consultants to evaluate financial institutions and internal assessment of payment ability of non-financial companies. For assets of non-financial companies, the assessment is conducted a monitoring of the company until the maturity of the security.

vii. Actuarial and economic assumptions and sensitivity analysis

All calculations involve future actuarial projections about some parameters, such as: salaries, interest, inflation, the trend of social security in Brazil (INSS) benefits, mortality and disability.

The economic and actuarial assumptions adopted have been formulated considering the long-term period for maturity and should therefore be examined accordingly. In the short term they may not necessarily be realized.

In the evaluations were adopted the following assumptions:

| | Brazil | | | | | |
|--|-------------------------------------|--|-----------------------|-------------------------------------|--|-----------------------|
| | Overfunded pension plans | December 31, 2017 Underfunded pension plans | Other benefits | Overfunded pension plans | December 31, 2016 Underfunded pension plans | Other benefits |
| Discount rate to determine benefit obligation | 9.74% - 9.85% | 9.84% | 9.74% - 9.91% | 10.98% - 11.14% | 10.98% | 10.98% - 11.09% |
| Nominal average rate to determine expense/income | 9.74% - 9.85% | 9.84% | N/A | 10.98% - 11.14% | 10.98% | N/A |
| Nominal average rate of salary increase | 4.25% - 6.34% | 4.25% - 6.34% | N/A | 4.85% - 5.95% | 6.95% | N/A |
| Nominal average rate of benefit increase | 4.85% | 4.85% | N/A | 6.00% | 6.00% | N/A |
| Immediate health care cost trend rate | N/A | N/A | 7.38% | N/A | N/A | 8.00% |
| Ultimate health care cost trend rate | N/A | N/A | 7.38% | N/A | N/A | 8.00% |
| | 4.25% | 4.25% | 4.25% | 4.85% | 4.85% | 4.85% |

Nominal
average rate of
price inflation

71

Table of Contents

| | December 31, 2017 | | Foreign | December 31, 2016 | |
|--|---------------------------|----------------|---------|---------------------------|----------------|
| | Underfunded pension plans | Other benefits | | Underfunded pension plans | Other benefits |
| Discount rate to determine benefit obligation | 3.26% | 3.44% | | 3.84% | 3.90% |
| Nominal average rate to determine expense/income | 3.84% | N/A | | 4.01% | N/A |
| Nominal average rate of salary increase | 3.27% | N/A | | 4.05% | N/A |
| Nominal average rate of benefit increase | N/A | 3.00% | | N/A | 3.00% |
| Immediate health care cost trend rate | N/A | 5.99% | | N/A | 6.30% |
| Ultimate health care cost trend rate | N/A | 4.56% | | N/A | 4.50% |
| Nominal average rate of price inflation | 2.10% | 2.10% | | 2.00% | 2.00% |

For the sensitivity analysis, the Company considers the effect of 1% in nominal discount rate to determine the actuarial liability. The effects of this change in actuarial liabilities in premise and adopted the average duration of the plan are as follows:

| | Consolidated December 31, 2017 | | | Parent company December 31, 2017 | |
|---|--------------------------------|---------------------------|----------------|----------------------------------|----------------|
| | Overfunded pension plans | Underfunded pension plans | Other benefits | Overfunded pension plans | Other benefits |
| Nominal discount rate - 1% increase | | | | | |
| Actuarial liability balance | 10,340 | 13,044 | 4,075 | 10,340 | 782 |
| Assumptions made | 10.75% | 4.85% | 5.61% | 10.75% | 8.82% |
| Nominal discount rate - 1% reduction | | | | | |
| Actuarial liability balance | 12,289 | 16,783 | 5,359 | 12,289 | 934 |
| Assumptions made | 8.75% | 2.85% | 3.61% | 8.75% | 10.82% |

viii. Assets of pension plans

Brazilian plan assets as at December 31, 2017 and 2016 includes respectively (i) investments in a portfolio of Vale's stock and other instruments in the amount of R\$124 and R\$84 and (ii) Brazilian Federal Government securities in the amount of R\$15,274 and R\$14,256.

Foreign plan assets as at December 31, 2017 and 2016 includes Canadian Government securities in the amount of R\$2,858 and R\$2,395 respectively.

ix. Overfunded pension plans

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Assets by category are as follows:

| | Consolidated and Parent Company | | | | | | | |
|---|---------------------------------|-------------------|--------------|---------------|---------------|-------------------|--------------|---------------|
| | Level 1 | December 31, 2017 | | Total | Level 1 | December 31, 2016 | | Total |
| | | Level 2 | Level 3 | | | Level 2 | Level 3 | |
| Cash and cash equivalents | | | | | 1 | | | 1 |
| Debt securities - Corporate | | 238 | | 238 | | 380 | | 380 |
| Debt securities - Government | 9,119 | | | 9,119 | 8,512 | | | 8,512 |
| Investments funds - Fixed Income | 8,321 | | | 8,321 | 7,857 | | | 7,857 |
| Investments funds - Equity | 1,755 | | | 1,755 | 549 | | | 549 |
| International investments | 80 | | | 80 | 38 | | | 38 |
| Structured investments - Private Equity funds | | | 648 | 648 | 708 | | 456 | 1,164 |
| Structured investments - Real estate funds | | | 50 | 50 | | | 32 | 32 |
| Real estate | | | 1,206 | 1,206 | | | 1,205 | 1,205 |
| Loans to participants | | | 744 | 744 | | | 850 | 850 |
| Total | 19,275 | 238 | 2,648 | 22,161 | 17,665 | 380 | 2,543 | 20,588 |
| Funds not related to risk plans | | | | (6,189) | | | | (5,290) |
| Fair value of plan assets at end of year | | | | 15,972 | | | | 15,298 |

Table of Contents

Measurement of overfunded plan assets at fair value with no observable market variables (level 3) are as follows:

| | Consolidated and Parent Company | | | | Total |
|--|---------------------------------|-------------------|--------------|-----------------------|--------------|
| | Private equity funds | Real estate funds | Real estate | Loans to participants | |
| Balance as at December 31, 2015 | 532 | 25 | 1,246 | 968 | 2,771 |
| Return on plan assets | (67) | | 10 | 115 | 58 |
| Assets purchases | 103 | 7 | 8 | 193 | 311 |
| Assets sold during the year | (79) | | (58) | (423) | (560) |
| Transfer to held for sale | (33) | | (1) | (3) | (37) |
| Balance as at December 31, 2016 | 456 | 32 | 1,205 | 850 | 2,543 |
| Return on plan assets | 117 | (6) | 12 | 92 | 215 |
| Assets purchases | 99 | 24 | 42 | 239 | 404 |
| Assets sold during the year | (24) | | (53) | (437) | (514) |
| Balance as at December 31, 2017 | 648 | 50 | 1,206 | 744 | 2,648 |

x. **Underfunded pension plans**

Assets by category are as follows:

| | Consolidated | | | | | | | Total |
|---|--------------|-------------------|--------------|---------------|--------------|-------------------|--------------|---------------|
| | Level 1 | December 31, 2017 | | Total | Level 1 | December 31, 2016 | | |
| | | Level 2 | Level 3 | | | Level 2 | Level 3 | |
| Cash and cash equivalents | 13 | 93 | | 106 | | 78 | | 78 |
| Equity securities | 4,511 | 10 | | 4,521 | 4,045 | | | 4,045 |
| Debt securities - Corporate | | 1,118 | | 1,118 | | 34 | | 34 |
| Debt securities - Government | 468 | 2,650 | | 3,118 | 271 | 2,395 | | 2,666 |
| Investments funds - Fixed Income | 527 | | | 527 | 464 | 1,001 | | 1,465 |
| Investments funds - Equity | 26 | 1,297 | | 1,323 | 301 | 1,199 | | 1,500 |
| International investments | | | | | | 88 | | 88 |
| Structured investments - Private Equity funds | 321 | | 651 | 972 | | | 608 | 608 |
| Real estate | | | 147 | 147 | | | 78 | 78 |
| Loans to participants | | | 17 | 17 | | | 18 | 18 |
| Others | | | 643 | 643 | | | 564 | 564 |
| Total | 5,866 | 5,168 | 1,458 | 12,492 | 5,081 | 4,795 | 1,268 | 11,144 |

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Measurement of underfunded plan assets at fair value with no observable market variables (level 3) are as follows:

| | Private equity funds | Real estate | Consolidated Loans to participants | Others | Total |
|--|----------------------|-------------|---------------------------------------|------------|--------------|
| Balance as at December 31, 2015 | 384 | 77 | 17 | 622 | 1,100 |
| Return on plan assets | 52 | 1 | 1 | 31 | 85 |
| Assets purchases | 613 | | | (1) | 612 |
| Assets sold during the year | (386) | | | | (386) |
| Translation adjustment | (55) | | | (88) | (143) |
| Balance as at December 31, 2016 | 608 | 78 | 18 | 564 | 1,268 |
| Return on plan assets | 26 | 3 | | 32 | 61 |
| Assets purchases | 42 | 54 | | | 96 |
| Assets sold during the year | (56) | (4) | (1) | | (61) |
| Translation adjustment | 31 | 16 | | 47 | 94 |
| Balance as at December 31, 2017 | 651 | 147 | 17 | 643 | 1,458 |

xi. Disbursement of future cash flow

Vale expects to disburse R\$462 in 2018 in relation to pension plans and other benefits.

Table of Contents**xii. Expected benefit payments**

The expected benefit payments, which reflect future services, are as follows:

| | December 31, 2017 | | |
|---------------------|--------------------------|---------------------------|----------------|
| | Overfunded pension plans | Underfunded pension plans | Other benefits |
| 2018 | 321 | 832 | 221 |
| 2019 | 337 | 833 | 225 |
| 2020 | 356 | 833 | 231 |
| 2021 | 272 | 838 | 239 |
| 2022 | 387 | 846 | 245 |
| 2023 and thereafter | 2,122 | 4,336 | 1,313 |

b) Profit sharing program (PLR)

The Company recorded as cost of goods sold and services rendered and other operating expenses related to the PLR R\$2,490, R\$1,064 and R\$147 for the years ended on December 31, 2017, 2016 and 2015, respectively. For the Parent Company, R\$1,780, R\$638 and R\$106 for the year ended on December 31, 2017, 2016 and 2015, respectively.

c) Long-term compensation plan

For the long-term awarding of eligible executives, the Company compensation plans includes Matching Program and Performance Share Unit Program - PSU, with three to four years-vesting cycles, respectively, with the aim of encouraging employee's retention and stimulating their performance.

For the Matching program, the participants can acquire Vale's common shares in the market without any benefits being provided by Vale. If the shares acquired are held for a period of three years and the participants keep it employment relationship with Vale, the participant is entitled to receive from Vale an award in shares, equivalent to the number of shares originally acquired by the executive. It should be noted that, although a specific custodian of the shares is defined by Vale, the share initially purchased by the executives have no restriction and can be sold at any time. However, if it's done before the end of the three-year-vesting period, they lose the entitlement of receiving the related award paid by Vale.

For PSU program, the eligible executives have the opportunity to receive during a four year-vesting cycle, an award equivalent to the market value of a determined number of common shares and conditioned to Vale's performance factor measured as an indicator of total return to the shareholders (TSR). This award is paid in cash and can occur in cumulative installments of 20% (at the end of 2nd year), 30% (at the end of 3rd year) and 50% (at the end of 4th year), conditioned to the performance factor of each year.

Liabilities of the plans are measured at fair value at every reporting period, based on market rates. Compensation costs incurred are recognized by the defined vesting period of three or four years. For the years ended December 31, 2017, 2016 and 2015 the Company recognized in the income statement the amounts of R\$207, R\$120 and R\$113, respectively, related to long term compensation plan.

Accounting policy

Employee benefits

i. Current benefits - wages, vacations and related taxes

Payments of benefits such as wages or accrued vacation, as well the related social security taxes over those benefits are recognized monthly in income, on an accruals basis.

ii. Current benefits - profit sharing program

The Company has the Annual Incentive Program (AIP) based on Team and business unit's contribution and Company-wide performance through operational cash generation. The Company makes an accrual based on evaluation periodic of goals achieved and Company result, using the accrual basis and recognition of present obligation arising from past events in the estimated outflow of resources in the future. The accrual is recorded as cost of goods sold and services rendered or operating expenses in accordance with the activity of each employee.

Table of Contents

iii. Non-current benefits - long-term incentive programs

The Company has established a procedure for awarding certain eligible executives (Matching and Virtual Shares Programs) with the goal of encouraging employee retention and optimum performance. Plan liabilities are measured at each reporting date, at their fair values, based on market prices. Obligations are measured at each reporting date, at fair values based on market prices. The compensation costs incurred are recognized in income during the vesting period as defined.

iv. Non-current benefits - pension costs and other post-retirement benefits

The Company has several retirement plans for its employees.

For defined contribution plans, the Company's obligations are limited to a monthly contribution linked to a pre-defined percentage of the remuneration of employees enrolled in to these plans.

For defined benefit plans, actuarial calculations are periodically obtained for liabilities determined in accordance with the Projected Unit Credit Method in order to estimate the Company's obligation. The liability recognized in the statement of financial position represents the present value of the defined benefit obligation as at that date, less the fair value of plan assets. The Company recognized in the income statement the costs of services, the interest expense of the obligations and the interest income of the plan assets. The remeasurement of gains and losses, return on plan assets (excluding the amount of interest on return of assets, which is recognized in income for the year) and changes in the effect of the ceiling of the active and onerous liabilities are recognized in comprehensive income for the year.

For overfunded plans, the Company does not recognize any assets or benefits in the statement of financial position or income statement until such time as the use of the surplus is clearly defined. For underfunded plans, the Company recognizes actuarial

liabilities and results arising from the actuarial valuation.

Critical accounting estimates and judgments

Post-retirement benefits for employees - The amount recognized and disclosed depend on a number of factors that are determined based on actuarial calculations using various assumptions in order to determine costs and liabilities. One of these assumptions is selection and use of the discount rate. Any changes to these assumptions will affect the amount recognized.

At the end of each year the Company and external actuaries review the assumptions that will be used for the following year. These assumptions are used in determining the fair values of assets and liabilities, costs and expenses and the future values of estimated cash outflows, which are recorded in the plan obligations.

29. Stockholders equity

a) Conversion of preferred shares and merger of Valepar S.A.

At the General Extraordinary Stockholders Meeting, held on June 27, 2017, approved the voluntary conversion of Vale class A preferred share into common shares (ON), based on the conversion rate of 0.9342 common shares for each Vale class A preferred share.

On August 11, 2017, the voluntary conversion period expired and an aggregate of 1,660,581,830 preferred shares (excluding treasury shares), corresponding to 84.4% of the total outstanding preferred shares, were converted into common shares.

At the Extraordinary Stockholders Meeting of Valepar S.A, held on August 14, 2017, stockholders approved the merger of Valepar with and into Vale. Thereafter, Valepar ceases to exist and, as consequence, its stockholders hold direct interests in Vale, through the 1.2065 Vale common shares received for each Valepar share held by them. As a result, Vale issued 173,543,667 new common shares to Valepar's stockholders, all registered and without par value.

On August 14, 2017, the merger was accounted in Vale's stockholders equity as capital reserve, based on the accounting appraisal report of Valepar's net assets, amounting R\$3,692.

Table of Contents

The impacts arising from the merger in the Company's assets and liabilities are as follows:

| | August 14, 2017 |
|--|------------------------|
| Current assets | 77 |
| Judicial deposits (note 27(c)) | 3,034 |
| Intangible (note 17) | 3,073 |
| Current liabilities | 64 |
| Provisions for litigation (note 27(a)) | 2,013 |
| Taxes payable (note 8) | 415 |
| Net assets | 3,692 |

At the Extraordinary Stockholders Meeting and at the Special Stockholders Meeting, held on October 18, 2017, preferred stockholders approved the conversion of all Class A preferred shares into common shares of the Company, in the proportion of 0.9342 common share for each class A preferred share. During the period from October 20, 2017 until November 21, 2017, inclusive, the stockholders holding Vale's Class A preferred shares dissenting with regard to the resolution of the Special Meeting, had the right to withdraw from the Company, receiving R\$24.26 per share which is the equivalent of Vale stockholders' equity per share at December 31, 2016. At the end of this period, 10,397 common shares were converted into treasury shares (corresponding to 11,130 preferred shares).

At the Extraordinary Stockholders Meeting held on December 21, 2017 approved the migration of the Company to the special listing segment of B3 S.A. (Novo Mercado), following the conversion of the class A preferred shares into common shares.

The stockholders' equity corresponds to 5,284,474,770 common shares and 12 preferred shares special class (PNE or Golden shares), and there were no changes in the amount of share capital.

| | Share position before conversion | Conversion of the preferred shares | Issue of new shares | Share position after conversion |
|----------------------------|-------------------------------------|---------------------------------------|---------------------|------------------------------------|
| Shares outstanding | | | | |
| ON | 3,185,653,000 | 1,838,235,414 | 173,543,667 | 5,197,432,081 |
| PNA/PNE | 1,967,721,926 | (1,967,721,914) | | 12 |
| | 5,153,374,926 | (129,486,500) | 173,543,667 | 5,197,432,093 |
| Shares in treasury | | | | |
| ON | 31,535,402 | 55,507,287 | | 87,042,689 |
| PNA | 59,405,792 | (59,405,792) | | |
| Total issued shares | 5,244,316,120 | (133,385,005) | 173,543,667 | 5,284,474,782 |

The basic and diluted earnings per share were recalculated considering the changes in the number of shares, as described above. The comparative information for the years ended December 31, 2016 and 2015 were restated, as presented in note 9.

b) Share capital

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As at December 31, 2017, the share capital was R\$77,300 corresponding to 5,284,474,782 shares issued and fully paid without par value.

| Stockholders | December 31, 2017 | | | December 31, 2016 | | |
|--|----------------------|-----------|----------------------|----------------------|----------------------|-----------------------|
| | ON | PNE | Total | ON | PNA | Total |
| Litel Participações S.A. and Litela Participações S.A. | 1,108,483,410 | | 1,108,483,410 | | | |
| BNDES Participações S.A. | 401,457,757 | | 401,457,757 | 206,378,882 | 66,185,272 | 272,564,154 |
| Bradespar S.A. | 332,965,266 | | 332,965,266 | | | |
| Mitsui & Co., Ltd | 286,347,055 | | 286,347,055 | | | |
| Valepar S.A. | | | | 1,716,435,045 | 20,340,000 | 1,736,775,045 |
| Brazilian Government (Golden Share) | | 12 | 12 | | 12 | 12 |
| Foreign investors - ADRs | 1,292,115,112 | | 1,292,115,112 | 786,067,634 | 610,880,671 | 1,396,948,305 |
| Foreign institutional investors in local market | 1,129,164,954 | | 1,129,164,954 | 262,868,264 | 825,753,408 | 1,088,621,672 |
| FMP - FGTS | 62,061,672 | | 62,061,672 | 70,662,746 | | 70,662,746 |
| PIBB - Fund | 2,632,618 | | 2,632,618 | 741,730 | 1,171,101 | 1,912,831 |
| Institutional investors | 277,003,730 | | 277,003,730 | 104,510,549 | 133,496,260 | 238,006,809 |
| Retail investors in Brazil | 305,200,507 | | 305,200,507 | 37,988,150 | 309,895,202 | 347,883,352 |
| Shares outstanding | 5,197,432,081 | 12 | 5,197,432,093 | 3,185,653,000 | 1,967,721,926 | 5,153,374,926 |
| Shares in treasury | 87,042,689 | | 87,042,689 | 31,535,402 | 59,405,792 | 90,941,194 |
| Total issued shares | 5,284,474,770 | 12 | 5,284,474,782 | 3,217,188,402 | 2,027,127,718 | 5,244,316,120 |
| Share capital per class of shares (in millions) | 77,300 | | 77,300 | 47,421 | 29,879 | 77,300 |
| Total authorized shares | 7,000,000,000 | | 7,000,000,000 | 3,600,000,000 | 7,200,000,000 | 10,800,000,000 |

Table of Contents

The Board of Directors may, regardless of changes to by-laws, issue new common shares (up to the total authorized shares), including the capitalization of profits and reserves to the extent authorized.

The Company repurchases its shares to hold in treasury for future sale or cancellation. These shares are recorded in a specific account as a reduction of stockholders' equity at their acquisition value and carried at cost. These programs are approved by the Board of Directors with a determined terms and numbers of shares. Currently, the Company does not have any share repurchase program.

Incremental costs directly attributable to the issue of new shares or options are recognized in stockholders' equity as a deduction from the amount raised, net of taxes.

c) Remuneration to the Company's stockholders

The Company's by-laws determine the minimum remuneration to stockholders of 25% of net income, after appropriations to legal reserve and tax incentive reserve, as follows:

| | 2017 |
|---|---------------|
| Net income of the year | 17,627 |
| Appropriation to legal reserve | (881) |
| Appropriation to tax incentive reserve | (693) |
| Net income after appropriations to legal reserve and tax incentive reserve | 16,053 |
| Minimum mandatory remuneration (i) | 4,721 |
| Appropriation to investments reserve | 11,332 |

(i) The minimum mandatory remuneration were based on interest on capital and will be paid in 2018, in the amount of R\$0.90842422800 per share. Due to the Brazilian legislation, the Company must retain and collect the amount of withholding tax (15%) and cannot be considered when charging the interest on capital to the mandatory dividend.

On December 14, 2017, the Board of Directors approved the payment in advance of the stockholders' remuneration in the gross amount of R\$2,183 million based on the interest on capital, as an anticipation relating to 2017. The Board of Directors approved on February 26, 2018 (subsequent event), the complementary payment to the stockholders' remuneration in the gross amount of R\$2,538 million based on the interest on capital. Together, these resolutions comprise the minimum mandatory remuneration for the year ended December 31, 2017 that will be paid in March 2018.

The remuneration paid to stockholders based on the on interest on capital during 2017 and 2016 amounted R\$4,667 million (R\$0.905571689 per share) and R\$857 million (R\$0.166293936 per share), respectively. All remuneration was based on interest on capital for those years.

d) Profit reserves

The amount of profit reserves are distributed as follows:

| | Legal reserve | Tax incentive reserve | Investments reserve | Additional remuneration reserve | Total of profit reserves |
|--|---------------|-----------------------|---------------------|---------------------------------|--------------------------|
| Balance as at December 31, 2015 | 3,846 | | | | 3,846 |
| Allocation of Income | 665 | 1,228 | 5,894 | 2,065 | 9,852 |
| Balance as at December 31, 2016 | 4,511 | 1,228 | 5,894 | 2,065 | 13,698 |
| Allocation of Income | 881 | 693 | 11,332 | | 12,906 |
| Dividends and interest on capital of Vale's stockholders | | | | (2,065) | (2,065) |
| Balance as at December 31, 2017 | 5,392 | 1,921 | 17,226 | | 24,539 |

Legal reserve - Is a legal requirement for Brazilian public companies to retain 5% of the annual net income up to 20% of the capital. The reserve can only be used to compensate losses or to increase capital.

Tax incentive reserve - Results from the option to designate a portion of the income tax for investments in projects approved by the Brazilian Government as well as tax incentives.

Investment reserve - Aims to ensure the maintenance and development of the main activities that comprise the Company's operations and to retain budgeted capital for investments. Based on the Company's by-laws, this reserve is capped to 50% of the annual distributable net income, up to the amount of the share capital. The remaining balance over than 50% of the annual distributable net income is retained based on the capital investments budget submitted for approval in the Stockholders Meeting, pursuant to article 196 of the Law 6,404.

Table of Contents

Additional remuneration reserve - Arises from the remuneration proposed by Management that exceeds the minimum mandatory remuneration of 25% of the adjusted net income. On April 20, 2017, Stockholders approved the payment of the additional remuneration in relation to the year ended December 31, 2016.

e) **Unrealized fair value gain (losses)**

| | Retirement benefit obligations | Cash flow hedge | Available-for-sale financial instruments | Conversion shares | Total gain (losses) |
|--|--------------------------------|-----------------|--|-------------------|---------------------|
| Balance as at December 31, 2015 | (2,743) | (25) | (4) | (1,101) | (3,873) |
| Other comprehensive income | (263) | 26 | 4 | | (233) |
| Translation adjustment | 368 | (1) | | | 367 |
| Balance as at December 31, 2016 | (2,638) | | | (1,101) | (3,739) |
| Other comprehensive income | (164) | | | | (164) |
| Translation adjustment | (9) | | | | (9) |
| Balance as at December 31, 2017 | (2,811) | | | (1,101) | (3,912) |

f) **Shareholders Agreement**

On the date of the merger of Valepar into Vale, August 14, 2017, the former Controlling Shareholders of Valepar executed a new shareholders agreement (Vale Agreement) that binds only 20% of the totality of Vale 's common shares issued by Vale, and will be in force until November 9, 2020, with no provision for renewal.

For 6 months from the date of entry into force of the Vale Agreement, the Shareholders will be obligated not to transfer, by any means, either directly or indirectly, Vale shares they receive as a result of the implementation of the Proposal (Lock-Up), except for (i) the transfer of Vale 's shares by the Shareholders to their affiliates and their current shareholders, provided that such transferred shares shall remain subject to the Lock-Up, and (ii) the transfer of shares held by the Shareholders prior to the merger of Valepar.

Accounting policy

Stockholder 's remuneration - The stockholder 's remuneration is paid on dividends and interest on capital. This remuneration is recognized as a liability in the financial statements of the Company based on bylaws. Any amount above the minimum mandatory remuneration approved by the by-laws shall only be recognized in current liabilities on the date that is approved by stockholders.

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The Company is permitted to distribute interest attributable to stockholders' equity. The calculation is based on the stockholders' equity amounts as stated in the statutory accounting records and the interest rate applied may not exceed the Brazilian Government Long-term Interest Rate (TJLP) determined by the Central Bank of Brazil. Also, such interest may not exceed 50% of the net income for the year or 50% of retained earnings plus profit reserves as determined by Brazilian corporate law.

The benefit to the Company, as opposed to making a dividend payment, is a reduction in the income tax burden because this interest charge is tax deductible in Brazil. Income tax of 15% is withheld on behalf of the stockholders relative to the interest distribution. Under Brazilian law, interest attributed to stockholders' equity is considered as part of the annual minimum mandatory dividend. This notional interest distribution is treated for accounting purposes as a deduction from stockholders' equity in a manner similar to a dividend and the tax deductibility recorded in the income statement.

30. Related parties

The Company's related parties are predominantly subsidiaries, joint ventures, associates and key management personnel of the Company. Transactions between the parent company and its subsidiaries are eliminated on consolidation and are not disclosed in this note. Details of material non-consolidated entities are disclosed in note 15.

Related party transactions were made by the Company on terms equivalent to those that prevail in arm's-length transactions, observing the price and usual market conditions, therefore these transactions are under terms that are no less favorable to the Company than those arranged with third parties.

Purchases, accounts receivable and other assets, and accounts payable and other liabilities relates largely to amounts charged by joint ventures and associates related to the pelletizing plants lease and railway transportation services.

Table of Contents

Information about related party transactions and effects on the financial statements is set out below:

a) **Transactions with related parties**

| | Consolidated Year ended December 31 | | | | | | | | |
|-----------------------------|--|------------|----------------|----------------|------------|----------------|----------------|------------|----------------|
| | 2017 | | | 2016 | | | 2015 | | |
| | Joint Ventures | Associates | Total | Joint Ventures | Associates | Total | Joint Ventures | Associates | Total |
| Net operating revenue | 1,265 | 1,079 | 2,344 | 557 | 1,200 | 1,757 | 453 | 1,173 | 1,626 |
| Cost and operating expenses | (6,211) | (92) | (6,303) | (3,123) | (180) | (3,303) | (2,726) | (276) | (3,002) |
| Financial result | 376 | (69) | 307 | (93) | (72) | (165) | | 26 | 26 |

Net operating revenue relates to sale of iron ore to the steelmakers and right to use capacity on railroads.

Cost and operating expenses mostly relates to the operational leases of the pelletizing plants. Further information in relation to these operational leases is disclosed in note 31.

b) **Outstanding balances with related parties**

| | Consolidated | | | | | |
|----------------------------|-------------------|------------|---------------|-------------------|------------|--------------|
| | December 31, 2017 | | | December 31, 2016 | | |
| | Joint Ventures | Associates | Total | Joint Ventures | Associates | Total |
| Assets | | | | | | |
| Accounts receivable | 242 | 125 | 367 | 224 | 114 | 338 |
| Dividends receivable | 371 | 48 | 419 | 172 | 65 | 237 |
| Loans to related parties | 14,972 | | 14,972 | | | |
| Other assets | 57 | | 57 | 2 | | 2 |
| Liabilities | | | | | | |
| Supplier and contractors | 636 | 67 | 703 | 311 | 38 | 349 |
| Loans from related parties | | 4,119 | 4,119 | | 1,437 | 1,437 |
| Other liabilities | 2,023 | | 2,023 | 1,169 | | 1,169 |

In 2017, the loans from/to related parties mainly arose in connection with the transaction of Nacala's corridor business (further information in relation to this transaction is disclosed in note 15). Loans to related parties corresponds to the loan of R\$14,972 to Nacala BV, which carries interest at 7.44% p.a. The loan from related parties mainly relates to the loan from Pangea Emirates Ltd. in the amount of R\$3,856, which carries interest at 6.54% p.a.

c) **The key management personnel remuneration is as follows:**

| | Year ended December 31 | | |
|--------------------------------|------------------------|-----------|-----------|
| | 2017 | 2016 | 2015 |
| Short-term benefits | | | |
| Wages or pro-labor | 29 | 29 | 25 |
| Direct and indirect benefits | 33 | 15 | 19 |
| Profit sharing program (PLR) | 33 | | 24 |
| | 95 | 44 | 68 |
| Long-term benefits | | | |
| Shares based | 52 | 3 | 2 |
| Severance | 21 | 15 | 19 |
| | 168 | 62 | 89 |

Table of Contents**31. Commitments****a) Contractual obligations**

The table below presents the annual minimum future payments, which are required and non-cancelable, related to contractual obligations of the Company as of December 31.

| | 2018 | 2019 | 2020 | 2021 | 2022 and thereafter | Total |
|--|--------------|--------------|--------------|--------------|---------------------|---------------|
| Operating lease | 935 | 633 | 593 | 588 | 732 | 3,481 |
| Purchase obligations | 7,248 | 3,378 | 2,269 | 1,997 | 12,442 | 27,334 |
| Total minimum payments required | 8,183 | 4,011 | 2,862 | 2,585 | 13,174 | 30,815 |

Operating lease - Vale has operating lease agreements with its joint ventures Companhia Coreano-Brasileira de Pelotização, Companhia Hispano-Brasileira de Pelotização, Companhia Ítalo-Brasileira de Pelotização and Companhia Nipo-Brasileira de Pelotização (together pelletizing plants), in which the Company leases their pelletizing plants. These agreements are renewable and last from 3 up to 10 years. The minimum future payments have been calculated considering that all contracts will be renewed automatically.

The Company also has operating leases for the exploration and processing of iron ore with joint ventures, port operations with third parties and property leases for its operational facilities with third parties.

The total amount of operational leasing expenses for the year ended on December 31, 2017, 2016 and 2015 were R\$2,121, R\$940 and R\$1,033, respectively.

Purchase obligations - The purchase obligations derive mainly from contracts for the acquisition of fuel, energy and the acquisition of raw materials and services.

b) Guarantees provided

As of December 31, 2017, corporate guarantees provided by Vale (within the limit of its direct or indirect interest) for the companies Norte Energia S.A. and Companhia Siderúrgica do Pecém S.A. are R\$1,250 and R\$4,952, respectively.

The net book value of property, plant and equipment pledged to secure judicial claims on December 31, 2017 and 2016 were R\$50 and R\$113, respectively.

c) Nickel Operations - Indonesia

The Company's subsidiary PT Vale Indonesia Tbk (PTVI), a public company in Indonesia, has an agreement in place with the Government of Indonesia to operate its mining licenses and it includes a commitment to divest an additional 20% of PTVI's shares to Indonesian participants by October 2019 (approximately 20% of PTVI's shares are already registered on the Indonesian Stock Exchange). The existing major shareholders, Vale Canada and Sumitomo Metal Mining, Co., Ltd., will comply with the divestment obligation on a pro rata basis.

32. Risk management

Vale considers that an effective risk management is key to support the achievement of the company objectives and to ensure the financial strength and flexibility of the company and the business continuity.

Therefore, Vale has developed its risk management strategy in order to provide an integrated approach of the risks the company is exposed to, considering not only the risks generated by variables traded in financial markets (market risk) and those arising from liquidity risk, but also the risk from counterparties obligations (credit risk) and those relating to inadequate or failed internal processes, people, systems or external events (operational risk), among others.

a) Risk management policy

The Board of Directors established a corporate risk management policy defining principles and guidelines applicable to this process in the company and the corresponding governance structure.

This policy determines that corporate risks should be measured and monitored, regularly, in an integrated manner, in order to ensure that the company overall risk level remains aligned with its strategic guidelines.

Table of Contents

The Executive Risk Management Committee, created by the Board of Directors, is responsible for supporting the Executive Board in the risk management decisions, issuing opinions and recommendations. It is also responsible for the supervision and revision of the principles and instruments of corporate risk management.

The Executive Board is responsible for the approval of the policy deployment into norms, rules and responsibilities and for reporting to the Board of Directors about such procedures.

The risk management norms and instructions complement the corporate risk management policy and define practices, processes, controls, roles and responsibilities.

The Company may, when necessary, allocate specific risk limits to management activities, including but not limited to, market risk limit, corporate and sovereign credit limit, in accordance with the acceptable corporate risk limit.

b) Liquidity risk management

The liquidity risk arises from the possibility that Vale might not perform its obligations on due dates, as well as face difficulties to meet its cash requirements due to market liquidity constraints.

See note 20 Loans, borrowing, cash and cash equivalents and financial investments for details on the Company's liquidity risk.

c) Credit risk management

Vale's exposure to credit risk arises from trade receivables, derivative transactions, guarantees, down payment for suppliers and cash investments. Our credit risk management process provides a framework for assessing and managing counterparties' credit risk and for maintaining our risk at an acceptable level.

(i) Commercial credit risk management

See note 10 Accounts receivables for details on commercial credit risk.

(ii) Treasury credit risk management

To manage the credit exposure arising from cash investments and derivative instruments, credit limits are approved to each counterparty with whom we have credit exposure.

Furthermore, we control the portfolio diversification and monitor different indicators of solvency and liquidity of the different counterparties that were approved for trading.

d) Market risk management

Vale is exposed to the behavior of several market risk factors that can impact its cash flow. The assessment of this potential impact arising from the volatility of risk factors and their correlations is performed periodically to support the decision making process regarding the risk management strategy, that may incorporate financial instruments, including derivatives.

The portfolio of these financial instruments is monitored on a monthly basis, enabling financial results surveillance and its impact on cash flow.

Considering the nature of Vale's business and operations, the main market risk factors which the Company is exposed to are:

- Foreign exchange and interest rates;
- Product prices and input costs.

e) Foreign exchange and interest rate risk

The company's cash flow is subjected to volatility of several currencies, as its product are predominantly priced in US dollar, while most of the costs, disbursements and investments are denominated in other currencies, mainly Brazilian real and Canadian dollar.

In order to reduce the potential impact that arises from this currency mismatch, derivatives instruments may be used as a risk mitigation strategy.

Table of Contents

Vale implements hedge transactions to protect its cash flow against the market risks that arises from its debt obligations - mainly currency volatility. The hedges cover most of the debts in Brazilian reais and euros. We use swap and forward transactions to convert debt linked to Brazilian real and Euros into US dollar, with volumes, flows and settlement dates similar to those of the debt instruments - or sometimes lower, subject to market liquidity conditions.

Hedging instruments with shorter settlement dates are renegotiated through time so that their final maturity matches - or becomes closer - to the debts' final maturity. At each settlement date, the results of the swap and forward transactions partially offset the impact of the foreign exchange rate in Vale's obligations, contributing to stabilize the cash disbursements in US dollar.

Vale has also exposure to interest rates risks over loans and financings. The US Dollar floating rate debt in the portfolio consists mainly of loans including export pre-payments, commercial banks and multilateral organizations loans. In general, such debt instruments are indexed to the LIBOR (London Interbank Offer Rate) in US dollar. We take advantage of the potential correlation between commodity prices and U.S. dollar floating interest rates as a partial natural hedge for our cash flow.

f) Risk of product and input prices

Vale is also exposed to market risks including commodities price and input price volatilities. In accordance with risk management policy, risk mitigation strategies involving commodities can be used to adjust the cash flow risk profile and reduce Vale's cash flow volatility. For this kind of risk mitigation strategy, Vale uses predominantly forwards, futures or zero-cost collars.

g) Operational risk management

The operational risk management is the structured approach that Vale uses to manage uncertainty related to possible inadequate or failure in internal processes, people, systems and external events, in accordance with the principles and guidelines of ISO 31000.

The main operational risks are periodically monitored, ensuring the effectiveness of preventive and mitigating key controls in place and the execution of the risk treatment strategy (implementation of new or improved controls, changes in the risk environment, risk sharing by contracting insurance, provisioning of resources, etc.).

Therefore, the Company seeks to have a clear view of its major risks, the best cost-benefit mitigation plans and the effectiveness of the controls in place, monitoring the potential impact of operational risk and allocating capital efficiently.

h) Capital management

The Company's policy aims at establishing a capital structure that will ensure the continuity of your business in the long term. Within this perspective, the Company has been able to deliver value to stockholders through dividend payments and capital gain, and at the same time maintain a debt profile suitable for its activities, with an amortization well distributed over the years, thus avoiding a concentration in one specific period.

i) Insurance

Vale contracts several types of insurance policies, such as operational risk policy, engineering risks insurance (projects), civil responsibility, life insurance policy for their employees, among others. The coverage of these policies is similar to the ones used in general by the mining industry and is issued in line with the objectives defined by the Company, with the corporate risk management policy and the limitation imposed by the insurance and reinsurance global market. In general, the company's assets directly related with its operations are included in the coverage of insurance policies.

Insurance management is performed with the support of existing insurance committees in the various operational areas of the Company. Among the management instruments, Vale uses captive reinsurance to balance the price on reinsurance contracts with the market, as well as, enable direct access to key international markets of insurance and reinsurance.

Table of Contents**33. Additional information about derivatives financial instruments****a) Sensitivity analysis of derivative financial instruments.**

The following tables present the potential value of the instruments given hypothetical stress scenarios for the main market risk factors that impact the derivatives positions. The scenarios were defined as follows:

Probable: the probable scenario was based on the estimated risk variables that were used on pricing the derivative instruments as at December 31, 2017

Scenario I: fair value estimated considering a 25% deterioration in the associated risk variables

Scenario II: fair value estimated considering a 50% deterioration in the associated risk variables

The curves used on the pricing of derivatives instruments were developed based on data from B3 S.A., Central Bank of Brazil, London Metals Exchange and Bloomberg.

| Instrument | Instrument s main risk events | Probable | Scenario I | Scenario II |
|---|---|-----------------|-------------------|--------------------|
| CDI vs. US\$ fixed rate swap | R\$ depreciation | (108) | (992) | (1.875) |
| | US\$ interest rate inside Brazil decrease | (108) | (140) | (174) |
| | Brazilian interest rate increase | (108) | (115) | (123) |
| Protected item: R\$ denominated debt | R\$ depreciation | n.a. | | |
| TJLP vs. US\$ fixed rate swap | R\$ depreciation | (1.262) | (2.332) | (3.403) |
| | US\$ interest rate inside Brazil decrease | (1.262) | (1.307) | (1.354) |
| | Brazilian interest rate increase | (1.262) | (1.339) | (1.411) |
| | TJLP interest rate decrease | (1.262) | (1.333) | (1.405) |
| Protected item: R\$ denominated debt | R\$ depreciation | n.a. | | |
| TJLP vs. US\$ floating rate swap | R\$ depreciation | (175) | (273) | (372) |
| | | (175) | (180) | (185) |

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| | | | | |
|---|---|-------|-------|---------|
| | US\$ interest rate inside Brazil decrease | | | |
| | Brazilian interest rate increase | (175) | (181) | (187) |
| | TJLP interest rate decrease | (175) | (181) | (187) |
| Protected item: R\$ denominated debt | R\$ depreciation | n.a. | | |
| R\$ fixed rate vs. US\$ fixed rate swap | R\$ depreciation | 80 | (188) | (456) |
| | US\$ interest rate inside Brazil decrease | 80 | 43 | 3 |
| | Brazilian interest rate increase | 80 | (7) | (83) |
| Protected item: R\$ denominated debt | R\$ depreciation | n.a. | | |
| IPCA vs. US\$ fixed rate swap | R\$ depreciation | (113) | (496) | (879) |
| | US\$ interest rate inside Brazil decrease | (113) | (129) | (146) |
| | Brazilian interest rate increase | (113) | (165) | (213) |
| | IPCA index decrease | (113) | (143) | (173) |
| Protected item: R\$ denominated debt | R\$ depreciation | n.a. | | |
| IPCA vs. CDI swap | Brazilian interest rate increase | 280 | 176 | 81 |
| | IPCA index decrease | 280 | 222 | 166 |
| Protected item: R\$ denominated debt linked to IPCA | IPCA index decrease | n.a. | (222) | (166) |
| EUR fixed rate vs. US\$ fixed rate swap | EUR depreciation | 76 | (521) | (1,118) |
| | Euribor increase | 76 | 51 | 26 |
| | US\$ Libor decrease | 76 | 19 | (41) |
| Protected item: EUR denominated debt | EUR depreciation | n.a. | 521 | 1,118 |

Table of Contents

| Instrument | Instrument's main risk events | Probable | Scenario I | Scenario II |
|---|-------------------------------|----------|------------|-------------|
| Bunker Oil protection | | | | |
| Forwards and options | Bunker Oil price decrease | | | |
| Protected item: Part of costs linked to bunker oil prices | Bunker Oil price decrease | n.a. | | |
| Nickel sales fixed price protection | | | | |
| Forwards | Nickel price decrease | 80 | (21) | (122) |
| Protected item: Part of nickel revenues with fixed prices | Nickel price fluctuation | n.a. | 21 | 122 |
| Purchase protection program | | | | |
| Nickel forwards | Nickel price increase | (1) | (4) | (7) |
| Protected item: Part of costs linked to nickel prices | Nickel price increase | n.a. | 4 | 7 |
| Copper forwards | Copper price increase | (0,1) | (0,6) | (1,1) |
| Protected item: Part of costs linked to copper prices | Copper price increase | n.a. | 0,6 | 1,1 |
| WPM warrants | WPM stock price decrease | 128 | 64 | 21 |
| Conversion options-VLI | VLI stock value increase | (188) | (303) | (453) |
| Options - MBR | MBR stock value decrease | 831 | 496 | 243 |

| Instrument | Main risks | Probable | Scenario I | Scenario II |
|--|--------------------------|----------|------------|-------------|
| Embedded derivatives- Raw material purchase (nickel) | Nickel price increase | 3 | (22) | (47) |
| Embedded derivatives- Raw material purchase (copper) | Copper price increase | 0 | (15) | (31) |
| Embedded derivatives-Gas purchase | Pellet price increase | (6) | (13) | (24) |
| Embedded derivatives-Guaranteed minimum return (VLI) | VLI stock value decrease | (439) | (866) | (1,561) |

b) Financial counterparties ratings

The transactions of derivative instruments, cash and cash equivalents as well as investments are held with financial institutions whose exposure limits are periodically reviewed and approved by the delegated authority. The financial institutions credit risk is performed through a methodology that considers, among other information, ratings provided by international rating agencies.

The table below presents the ratings in foreign currency published by agencies Moody's and S&P regarding the main financial institutions that we had outstanding positions as of December 31, 2017.

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| Long term ratings by counterparty | Moody s | S&P |
|---------------------------------------|---------|------|
| ANZ Australia and New Zealand Banking | Aa3 | AA- |
| Banco ABC | Ba3 | BB |
| Banco Bradesco | Ba3 | BB |
| Banco do Brasil | Ba3 | BB |
| Banco de Credito del Peru | Baal | BBB+ |
| Banco do Nordeste | Ba3 | BB |
| Banco Safra | Ba3 | BB |
| Banco Santander | A3 | A- |
| Banco Votorantim | Ba3 | BB |
| Bank of America | A3 | A- |
| Bank of China | A1 | A |
| Bank of Mandiri | Baa3 | BB+ |
| Bank of Nova Scotia | A1 | A+ |
| Bank Rakyat | Baa3 | BB+ |
| Bank of Tokyo Mitsubishi UFJ | A1 | A- |
| Banpará | | BB- |
| Barclays | Baa2 | BBB |
| BBVA | A3 | BBB+ |
| BNP Paribas | A2 | A |
| BTG Pactual | Ba3 | BB- |
| Caixa Economica Federal | Ba3 | BB |
| Canadian Imperial Bank | A1 | A+ |
| China Construction Bank | A1 | A |
| Citigroup | Baal | BBB+ |
| Credit Agricole | A1 | A |
| Credit Suisse | Baa2 | BBB+ |
| Deutsche Bank | A3 | A- |
| Goldman Sachs | A3 | BBB+ |
| HSBC | A2 | A |
| Intesa Sanpaolo Spa | A3 | BBB |
| Itaú Unibanco | Ba3 | BB |
| JP Morgan Chase & Co | A3 | A- |
| Macquarie Group Ltd | A3 | BBB |
| Mizuho Financial | A1 | A- |
| Morgan Stanley | A3 | BBB+ |
| National Australia Bank NAB | Aa3 | AA- |
| National Bank of Oman | Baa3 | |
| Rabobank | Aa2 | A+ |
| Royal Bank of Canada | A1 | AA- |
| Societe Generale | A2 | A |
| Standard Bank Group | Ba1 | |
| Standard Chartered | A2 | BBB+ |
| Sumitomo Mitsui Financial | A1 | A- |
| UBS | Aa3 | A- |
| Unicredit | Baal | BBB |

Table of Contentsc) **Market curves**(i) **Products****Nickel**

| Maturity | Price (US\$/ton) | Maturity | Price (US\$/ton) | Maturity | Price (US\$/ton) |
|-----------------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|
| SPOT | 12,260 | JUN18 | 12,833 | DEC18 | 12,960 |
| JAN18 | 12,725 | JUL18 | 12,857 | DEC19 | 13,167 |
| FEB18 | 12,745 | AUG18 | 12,878 | DEC20 | 13,354 |
| MAR18 | 12,767 | SEP18 | 12,896 | DEC21 | 13,454 |
| APR18 | 12,789 | OCT18 | 12,920 | | |
| MAY18 | 12,812 | NOV18 | 12,940 | | |

Copper

| Maturity | Price (US\$/lb) | Maturity | Price (US\$/lb) | Maturity | Price (US\$/lb) |
|-----------------|------------------------|-----------------|------------------------|-----------------|------------------------|
| SPOT | 3.30 | JUN18 | 3.30 | DEC18 | 3.32 |
| JAN18 | 3.28 | JUL18 | 3.31 | DEC19 | 3.33 |
| FEB18 | 3.28 | AUG18 | 3.31 | DEC20 | 3.33 |
| MAR18 | 3.29 | SEP18 | 3.31 | DEC21 | 3.33 |
| APR18 | 3.29 | OCT18 | 3.31 | | |
| MAY18 | 3.30 | NOV18 | 3.31 | | |

Bunker Oil

| Maturity | Price (US\$/ton) | Maturity | Price (US\$/ton) | Maturity | Price (US\$/ton) |
|-----------------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|
| SPOT | 375 | JUN18 | 374 | DEC18 | 364 |
| JAN18 | 376 | JUL18 | 372 | DEC19 | 303 |
| FEB18 | 376 | AUG18 | 371 | DEC20 | 277 |
| MAR18 | 376 | SEP18 | 369 | DEC21 | 255 |
| APR18 | 375 | OCT18 | 368 | | |
| MAY18 | 375 | NOV18 | 366 | | |

(ii) Foreign exchange and interest rates

US\$-Brazil Interest

| Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) |
|----------|---------------|----------|---------------|----------|---------------|
| 01/02/18 | 2.86 | 11/01/18 | 2.77 | 01/04/21 | 3.19 |
| 02/01/18 | 4.04 | 12/03/18 | 2.71 | 04/01/21 | 3.22 |
| 03/01/18 | 3.27 | 01/02/19 | 2.82 | 07/01/21 | 3.26 |
| 04/02/18 | 2.96 | 04/01/19 | 2.85 | 10/01/21 | 3.31 |
| 05/02/18 | 2.84 | 07/01/19 | 2.91 | 01/03/22 | 3.42 |
| 06/01/18 | 2.78 | 10/01/19 | 2.94 | 04/01/22 | 3.43 |
| 07/02/18 | 2.73 | 01/02/20 | 3.02 | 07/01/22 | 3.44 |
| 08/01/18 | 2.72 | 04/01/20 | 3.03 | 10/03/22 | 3.48 |
| 09/03/18 | 2.69 | 07/01/20 | 3.06 | 01/02/23 | 3.60 |
| 10/01/18 | 2.71 | 10/01/20 | 3.13 | 07/03/23 | 3.65 |

US\$ Interest Rate

| Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) |
|----------|---------------|----------|---------------|----------|---------------|
| 1M | 1.57 | 6M | 1.83 | 11M | 1.90 |
| 2M | 1.62 | 7M | 1.85 | 12M | 1.90 |
| 3M | 1.70 | 8M | 1.87 | 2Y | 2.11 |
| 4M | 1.77 | 9M | 1.88 | 3Y | 2.23 |
| 5M | 1.81 | 10M | 1.89 | 4Y | 2.29 |

TJLP

| Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) |
|----------|---------------|----------|---------------|----------|---------------|
| 01/02/18 | 7.00 | 11/01/18 | 7.00 | 01/04/21 | 7.00 |
| 02/01/18 | 7.00 | 12/03/18 | 7.00 | 04/01/21 | 7.00 |
| 03/01/18 | 7.00 | 01/02/19 | 7.00 | 07/01/21 | 7.00 |
| 04/02/18 | 7.00 | 04/01/19 | 7.00 | 10/01/21 | 7.00 |
| 05/02/18 | 7.00 | 07/01/19 | 7.00 | 01/03/22 | 7.00 |
| 06/01/18 | 7.00 | 10/01/19 | 7.00 | 04/01/22 | 7.00 |
| 07/02/18 | 7.00 | 01/02/20 | 7.00 | 07/01/22 | 7.00 |
| 08/01/18 | 7.00 | 04/01/20 | 7.00 | 10/03/22 | 7.00 |
| 09/03/18 | 7.00 | 07/01/20 | 7.00 | 01/02/23 | 7.00 |
| 10/01/18 | 7.00 | 10/01/20 | 7.00 | 07/03/23 | 7.00 |

Table of Contents**BRL Interest Rate**

| Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) |
|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|
| 01/02/18 | 6.89 | 11/01/18 | 6.74 | 01/04/21 | 9.06 |
| 02/01/18 | 6.90 | 12/03/18 | 6.80 | 04/01/21 | 9.24 |
| 03/01/18 | 6.82 | 01/02/19 | 6.87 | 07/01/21 | 9.40 |
| 04/02/18 | 6.76 | 04/01/19 | 7.11 | 10/01/21 | 9.55 |
| 05/02/18 | 6.73 | 07/01/19 | 7.41 | 01/03/22 | 9.66 |
| 06/01/18 | 6.71 | 10/01/19 | 7.78 | 04/01/22 | 9.75 |
| 07/02/18 | 6.66 | 01/02/20 | 8.07 | 07/01/22 | 9.84 |
| 08/01/18 | 6.67 | 04/01/20 | 8.38 | 10/03/22 | 9.92 |
| 09/03/18 | 6.70 | 07/01/20 | 8.63 | 01/02/23 | 9.99 |
| 10/01/18 | 6.72 | 10/01/20 | 8.88 | 07/03/23 | 10.12 |

Implicit Inflation (IPCA)

| Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) |
|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|
| 01/02/18 | 4.27 | 11/01/18 | 4.12 | 01/04/21 | 4.72 |
| 02/01/18 | 4.27 | 12/03/18 | 4.18 | 04/01/21 | 4.75 |
| 03/01/18 | 4.20 | 01/02/19 | 4.24 | 07/01/21 | 4.78 |
| 04/02/18 | 4.14 | 04/01/19 | 4.33 | 10/01/21 | 4.81 |
| 05/02/18 | 4.11 | 07/01/19 | 4.52 | 01/03/22 | 4.82 |
| 06/01/18 | 4.09 | 10/01/19 | 4.57 | 04/01/22 | 4.82 |
| 07/02/18 | 4.04 | 01/02/20 | 4.62 | 07/01/22 | 4.84 |
| 08/01/18 | 4.05 | 04/01/20 | 4.66 | 10/03/22 | 4.85 |
| 09/03/18 | 4.08 | 07/01/20 | 4.69 | 01/02/23 | 4.87 |
| 10/01/18 | 4.10 | 10/01/20 | 4.72 | 07/03/23 | 4.91 |

EUR Interest Rate

| Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) |
|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|
| 1M | -0.41 | 6M | -0.30 | 11M | -0.26 |
| 2M | -0.39 | 7M | -0.29 | 12M | -0.26 |
| 3M | -0.38 | 8M | -0.28 | 2Y | -0.15 |
| 4M | -0.34 | 9M | -0.27 | 3Y | 0.01 |
| 5M | -0.32 | 10M | -0.27 | 4Y | 0.15 |

CAD Interest Rate

| Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) | Maturity | Rate (% p.a.) |
|-----------------|----------------------|-----------------|----------------------|-----------------|----------------------|
| 1M | 1.45 | 6M | 1.73 | 11M | 0.99 |
| 2M | 1.48 | 7M | 1.49 | 12M | 0.91 |
| 3M | 1.55 | 8M | 1.31 | 2Y | 2.09 |
| 4M | 1.64 | 9M | 1.19 | 3Y | 2.22 |
| 5M | 1.70 | 10M | 1.07 | 4Y | 2.30 |

Currencies-Ending rates

| | | | | | |
|----------|--------|----------|--------|----------|--------|
| CAD/US\$ | 0.7961 | US\$/BRL | 3.3080 | EUR/US\$ | 1.1953 |
|----------|--------|----------|--------|----------|--------|

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Table of Contents

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Table of Contents

Table of Contents

Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

| | | |
|----------------------|-----|--|
| | | Vale S.A. (Registrant) |
| Date: March 28, 2018 | By: | /s/ André Figueiredo Director of Investor Relations |