Vale S.A. Form 6-K July 27, 2017 Table of Contents

United States Securities and Exchange Commission

Washington, D.C. 20549

FORM 6-K

Report of Foreign Private Issuer Pursuant to Rule 13a-16 or 15d-16 of the Securities Exchange Act of 1934

For the month of

July, 2017

Vale S.A.

Avenida das Américas, No. 700 22640-100 Rio de Janeiro, RJ, Brazil

(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

| (Check One) Form 20-F x Form 40-F o |
|---|
| Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1) |
| (Check One) Yes o No x |
| Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7) |
| (Check One) Yes o No x |
| Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934. |
| (Check One) Yes o No x |
| If Yes is marked, indicate below the file number assigned to the registrant in connection with Rule $12g3-2(b)$. $82-$ |
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Interim Financial Statements

June 30, 2017

BRGAAP in R\$ (English)

1

Vale S.A. Interim Financial Statements

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KPMG Auditores IndependentesCentral Tel 55 (21) 2207-9400

Rua do Passeio, 38 Setor 2 17º andar Fax 55 (21) 2207-9000

20021-290 - Rio de Janeiro, RJ - Brasil Internet www.kpmg.com.br

Report on the review of quarterly information - ITR

(A free translation of the original report in Portuguese, as filed with the Brazilian Securities and Exchange Commission (CVM), prepared in accordance with the accounting practices adopted in Brazil, rules of the CVM and of the International Financial Reporting Standards - IFRS)

To

The Board of Directors and Stockholders of

Vale S.A.

Rio de Janeiro - RJ

Introduction

- 1. We have reviewed the interim accounting information, individual and consolidated, of Vale S.A. (the Company), identified as Parent Company and Consolidated, respectively, included in the quarterly information form ITR for the quarter ended June 30, 2017, which comprises the individual and consolidated balance sheet as of June 30, 2017 and the respective statements of income and comprehensive income for three and six months periods ended on June 30, 2017, the individual and consolidated statements of changes in equity for the six-month period and the individual statement of cash flows for the six-month period and the consolidated statement of cash flows for the three and six month periods then ended, including the explanatory notes.
- 2. The Company's Management is responsible for the preparation of these interim accounting information in accordance with the CPC 21(R1) *Demonstração Intermediária* and the IAS 34 Interim Financial Reporting, issued by the International Accounting Standards Board IASB, as well as the presentation of these information in accordance with the standards issued by the Brazilian Securities and Exchange Commission, applicable to the preparation of quarterly information ITR. Our responsibility is to express our conclusion on this interim accounting information based on our review.

Scope of the review

3. We conducted our review in accordance with Brazilian and International Interim Information Review Standards (*NBC TR 2410 - Revisão de Informações Intermediárias Executada pelo Auditor da Entidade* and ISRE 2410 - Review of Interim Financial Information Performed by the Independent Auditor of the Entity, respectively). A review of interim information consists of making inquiries primarily of the management responsible for financial and accounting matters and applying analytical procedures and other review procedures. The scope of a review is significantly less than an audit conducted in accordance with auditing standards and, accordingly, it did not enable us to obtain assurance that we were aware of all the material matters that would have been identified in an audit. Therefore, we do not express an audit opinion.

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|-------|------|----------|
| | | |

| Conclusion | on the | interim | accounting | information |
|------------|--------|---------|------------|-------------|
| | | | | |

| 4. | Based on our review, we are not aware of any fact that might lead us to believe that the individual |
|---------------------|---|
| and consolidated i | nterim accounting information included in the aforementioned quarterly information was not |
| prepared, in all ma | tterial respects, in accordance with CPC 21(R1) and IAS 34, issued by the IASB, applicable to the |
| preparation of the | quarterly review - ITR, and presented in accordance with the standards issued by the Brazilian |
| Securities and Exc | change Commission. |

Other matters

Statements of added value

5. The individual and consolidated statements of value added for the quarter ended June 30, 2017, prepared under the responsibility of the Company s management, and presented as supplementary information for the purposes of IAS 34, were submitted to the same review procedures followed together with the review of the Company s interim financial information. In order to form our conclusion, we evaluated whether these statements were reconciliated to the interim financial information and to the accounting records, as applicable, and whether their form and content are in accordance with the criteria set on Technical Pronouncement CPC 09 - Statement of Value Added. Based on our review, nothing has come to our attention that causes us to believe that the accompanying statements of value added were not prepared, in all material respects, in accordance with the individual and consolidated interim financial information taken as a whole.

Rio de Janeiro, July 26, 2017

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

Income Statement

In millions of Brazilian Reais, except earnings per share data

| | | Three month pe | | l Six month per June 3 | |
|---|-----------|----------------|----------|------------------------------|----------|
| | Notes | 2017 | 2016 | 2017 | 2016 |
| Continuing operations | | | (i) | | (i) |
| Net operating revenue | 3(c) | 23,363 | 21,576 | 50,105 | 42,150 |
| Cost of goods sold and services rendered | 4(a) | (16,462) | (15,102) | (31,327) | (30,171) |
| Gross profit | | 6,901 | 6,474 | 18,778 | 11,979 |
| Operating expenses | | | | | |
| Selling and administrative expenses | 4(b) | (426) | (449) | (814) | (865) |
| Research and evaluation expenses | .(0) | (257) | (257) | (463) | (468) |
| Pre operating and operational stoppage | | (286) | (385) | (650) | (767) |
| Other operating expenses, net | 4(c) | (271) | (503) | (518) | (644) |
| β · Γ · · · · · · · · · · · · · · · · · | | (1,240) | (1,594) | (2,445) | (2,744) |
| Impairment and other results on non-current | | () - / | ()=- / | () - / | |
| assets | 12 and 15 | (726) | (228) | 877 | (228) |
| Operating income | | 4,935 | 4,652 | 17,210 | 9,007 |
| Financial income | 5 | 1,482 | 13,300 | 4,489 | 24,926 |
| Financial expenses | 5 | (5,823) | (6,280) | (10,724) | (13,185) |
| Equity results in associates and joint ventures | 13 | (83) | 656 | 142 | 1,242 |
| Impairment and other results in associates | 15 | (03) | 050 | 112 | 1,212 |
| and joint ventures | 17 | (110) | (3,999) | (301) | (3,999) |
| Income before income taxes | | 401 | 8,329 | 10,816 | 17,991 |
| Income taxes | 6 | | | | |
| Current tax | U | (222) | (1,415) | (1,807) | (2,692) |
| Deferred tax | | 378 | (3,203) | (253) | (5,305) |
| Deterred tax | | 156 | (4,618) | (2,060) | (7,997) |
| Not in some form continuing an austions | | 557 | 2.711 | 9.757 | 9,994 |
| Net income from continuing operations | | 55/ | 3,711 | 8,756 | 9,994 |
| Net income attributable to noncontrolling interests | | 99 | 54 | 147 | 51 |
| Net income from continuing operations | | " | 54 | 14/ | 31 |
| attributable to Vale s stockholders | | 458 | 3,657 | 8,609 | 9,943 |
| | | | | | |
| Discontinued operations Loss from discontinued operations | 11 | (388) | (72) | (645) | (27) |
| Net income attributable to noncontrolling | | | (12) | (010) | (21) |
| interests | | 10 | | 13 | 20 |

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| Loss from discontinued operations attributable to Vale s stockholders | (398) | (72) | (658) | (47) |
|---|-------|-------|-------|-------|
| Net income | 169 | 3,639 | 8,111 | 9,967 |
| Net income attributable to noncontrolling | | | | |
| interests | 109 | 54 | 160 | 71 |
| Net income attributable to Vale s | | | | |
| stockholders | 60 | 3,585 | 7,951 | 9,896 |
| | | | | |
| Earnings per share attributable to Vale s | | | | |
| stockholders: | | | | |
| Basic and diluted earnings per share: | 7 | | | |
| Preferred share (R\$) | 0.01 | 0.70 | 1.54 | 1.92 |
| Common share (R\$) | 0.01 | 0.70 | 1.54 | 1.92 |

⁽i) Period restated according to Note 11.

Income Statement

In millions of Brazilian Reais, except earnings per share data

| | Three month pe | Parent con | | Six month period ended | |
|---|----------------|------------|----------|------------------------|--|
| | June 30, | | June 3 | | |
| | 2017 | 2016 | 2017 | 2016 | |
| Continuing operations | | | | | |
| Net operating revenue | 15,502 | 12,210 | 32,664 | 20,374 | |
| Cost of goods sold and services rendered | (8,338) | (7,085) | (16,089) | (14,047) | |
| Gross profit | 7,164 | 5,125 | 16,575 | 6,327 | |
| Operating expenses | | | | | |
| Selling and administrative expenses | (235) | (249) | (461) | (489) | |
| Research and evaluation expenses | (152) | (136) | (273) | (255) | |
| Pre operating and operational stoppage | (212) | (175) | (404) | (339) | |
| Equity results from subsidiaries | (1,449) | 580 | 1,616 | 3,457 | |
| Other operating expenses, net | (257) | (91) | (85) | (518) | |
| | (2,305) | (71) | 393 | 1,856 | |
| Impairment and other results on non-current assets | (27) | | (68) | | |
| Operating income | 4,832 | 5,054 | 16,900 | 8,183 | |
| | | | | | |
| Financial income | 1,029 | 12,348 | 3,515 | 23,710 | |
| Financial expenses | (5,285) | (5,938) | (9,679) | (12,658) | |
| Equity results in associates and joint ventures | (83) | 656 | 142 | 1,242 | |
| Impairment and other results in associates and joint | | | | | |
| ventures | (101) | (3,999) | (292) | (3,999) | |
| Income before income taxes | 392 | 8,121 | 10,586 | 16,478 | |
| | | | | | |
| Income taxes | | | | | |
| Current tax | 166 | (1,281) | (1,066) | (2,298) | |
| Deferred tax | (100) | (3,183) | (911) | (4,237) | |
| | 66 | (4,464) | (1,977) | (6,535) | |
| Net income from continuing operations | 458 | 3,657 | 8,609 | 9,943 | |
| Loss from discontinued operations | (398) | (72) | (658) | (47) | |
| Net income | 60 | 3,585 | 7,951 | 9,896 | |
| Earnings per share attributable to Vale s stockholders: | | | | | |
| Basic and diluted earnings per share: | | | | | |
| Preferred share (R\$) | 0.01 | 0.70 | 1.54 | 1.92 | |
| Common share (R\$) | 0.01 | 0.70 | 1.54 | 1.92 | |

Statement of Comprehensive Income

In millions of Brazilian Reais

| | Consolidated | | | |
|---|--------------------------|------------|-----------------------|----------|
| | Three month period ended | | Six month peri | |
| | June 3 2017 | 0, 2016 | June 30, 2017 2016 | |
| Net income | 169 | 3,639 | 8,111 | 9,967 |
| Other comprehensive income: | 107 | 3,037 | 0,111 | 7,707 |
| Items that will not be reclassified subsequently to the | | | | |
| income statement | | | | |
| Retirement benefit obligations | (933) | (641) | (1,026) | (972) |
| Tax recognized within other comprehensive income | 289 | 193 | 311 | 297 |
| Total items that will not be reclassified subsequently to | | | | |
| the income statement | (644) | (448) | (715) | (675) |
| | | | | |
| Items that may be reclassified subsequently to the income | | | | |
| statement | | | | |
| Cumulative translation adjustments | 4,532 | (7,793) | 2,356 | (14,222) |
| Cash flow hedge | | 2 | | 23 |
| Net investments hedge | (1,267) | | (420) | |
| Equity results in associates and joint ventures, net of taxes | | 16 | | 16 |
| Transfer of realized results to net income, net of taxes | | (266) | | (276) |
| Tax recognized within other comprehensive income | 244 | 27 | (104) | (525) |
| Total of items that may be reclassified subsequently to the | | | | |
| income statement | 3,509 | (8,014) | 1,832 | (14,984) |
| Total comprehensive income (loss) | 3,034 | (4,823) | 9,228 | (5,692) |
| | | | | |
| Comprehensive income attributable to noncontrolling | 255 | (10.1) | 102 | (001) |
| interests | 275 | (434) | 192 | (901) |
| Comprehensive income (loss) attributable to Vale s | 2.750 | (4.200) | 0.026 | (4.501) |
| stockholders | 2,759 | (4,389) | 9,036 | (4,791) |

| | Parent company | | | |
|--|----------------|------------|----------------|----------|
| | Three month pe | riod ended | Six month peri | od ended |
| | June 30 | 0, | June 30, | |
| | 2017 | 2016 | 2017 | 2016 |
| Net income | 60 | 3,585 | 7,951 | 9,896 |
| Other comprehensive income: | | | | |
| Items that will not be reclassified subsequently to the | | | | |
| income statement | | | | |
| Retirement benefit obligations | (20) | (19) | (40) | (40) |
| Tax recognized within other comprehensive income | 6 | 6 | 13 | 13 |
| Equity results in subsidiaries, associates and joint ventures, | | | | |
| net of taxes | (630) | (435) | (688) | (648) |

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| Total items that will not be reclassified subsequently to | | | | |
|---|---------|---------|-------|----------|
| the income statement | (644) | (448) | (715) | (675) |
| | | | | |
| Items that may be reclassified subsequently to the income | | | | |
| statement | | | | |
| Cumulative translation adjustments | 4,179 | (7,278) | 2,077 | (13,772) |
| Net investments hedge | (1,267) | | (420) | |
| Equity results in associates and joint ventures, net of taxes | | 18 | | 26 |
| Transfer of realized results to net income, net of taxes | | (266) | | (266) |
| Tax recognized within other comprehensive income | 431 | | 143 | |
| Total of items that may be reclassified subsequently to the | | | | |
| income statement | 3,343 | (7,526) | 1,800 | (14,012) |
| Total comprehensive income (loss) | 2,759 | (4,389) | 9,036 | (4,791) |

Statement of Cash Flows

In millions of Brazilian Reais

| | Consolidated | | | | |
|--|--------------------------|-------------|---------------------------------|-------------|--|
| | Three month pe June 3 | | Six month period ended June 30, | | |
| | 2017 | 2016 (i) | 2017 | 2016 (i) | |
| Cash flow from operating activities: | | | | | |
| Income before income taxes from continuing operations | 401 | 8,329 | 10,816 | 17,991 | |
| Continuing operations adjustments for: | | | | | |
| Equity results in associates and joint ventures | 83 | (656) | (142) | (1,242) | |
| Impairment and other results on non-current assets | 726 | 228 | (877) | 228 | |
| Impairment and other results in associates and joint ventures | 110 | 3,999 | 301 | 3,999 | |
| Depreciation, amortization and depletion | 2,907 | 2,945 | 5,758 | 5,998 | |
| Financial results, net | 4,341 | (7,020) | 6,235 | (11,741) | |
| Changes in assets and liabilities: | | | | | |
| Accounts receivable | 4,377 | 256 | 5,347 | (3,546) | |
| Inventories | (787) | 81 | (1,495) | (239) | |
| Suppliers and contractors | 791 | 1,305 | 1,101 | 139 | |
| Payroll and related charges | 568 | 133 | (153) | 136 | |
| Other assets and liabilities, net | (360) | 916 | (964) | 1,485 | |
| , | 13,157 | 10,516 | 25,927 | 13,208 | |
| Interest on loans and borrowings paid | (1,351) | (1,276) | (2,946) | (3,134) | |
| Derivatives paid, net (note 20) | (15) | (1,236) | (353) | (3,212) | |
| Interest on participative stockholders debentures paid | (221) | (117) | (221) | (117) | |
| Income taxes | (101) | (250) | (1,257) | (858) | |
| Income taxes - Settlement program | (387) | (351) | (766) | (694) | |
| Net cash provided by operating activities from continuing | (===) | (3.2.) | (1-1) | (33) | |
| operations | 11,082 | 7,286 | 20,384 | 5,193 | |
| Net cash provided by operating activities from discontinued | , | 1,200 | _0,00 | -, | |
| operations | 4 | 121 | 294 | 132 | |
| Net cash provided by operating activities | 11,086 | 7,407 | 20,678 | 5,325 | |
| Cash flow from investing activities: | | | | | |
| Financial investments redeemed (invested) | 115 | (384) | (52) | (6) | |
| Loans and advances - Net receipts (payments) | (314) | (304) | (769) | (15) | |
| Additions to investments | (1,081) | (476) | (1,110) | (838) | |
| Additions to property, plant and equipment and intangible | (1,001) | (470) | (1,110) | (636) | |
| (note 3(b)) | (2,852) | (4,078) | (6,339) | (9,279) | |
| Proceeds from disposal of assets and investments (note 12) | 28 | 40 | 1,642 | (9,279) | |
| Dividends and interest on capital received from associates | 48 | 40 | 1,042 | 6/ | |
| and joint ventures | 266 | 403 | 266 | 405 | |
| | 266 | | | | |
| Others investments activities | (64) | (75) | (68) | (163) | |
| Net cash used in investing activities from continuing operations | (3,902) | (4,570) | (6,430) | (9,809) | |
| oper auons | (3,704) | (4,570) | (0,430) | (3,009) | |

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| Net cash used in investing activities from discontinued | | | | |
|--|---------|---------|---------|----------|
| operations | (263) | (209) | (460) | (393) |
| Net cash used in investing activities | (4,165) | (4,779) | (6,890) | (10,202) |
| | | | | |
| Cash flow from financing activities: | | | | |
| Loans and borrowings | | | | |
| Additions | 963 | 5,005 | 4,539 | 17,955 |
| Repayments | (5,899) | (6,215) | (9,432) | (10,934) |
| Transactions with stockholders: | | | | |
| Dividends attributed to stockholders | (4,660) | | (4,660) | |
| Dividends and interest on capital paid to noncontrolling | | | | |
| interest | (14) | (252) | (23) | (269) |
| Transactions with noncontrolling stockholders (note 12) | | | 799 | (69) |
| Net cash provided by (used in) financing activities from | | | | |
| continuing operations | (9,610) | (1,462) | (8,777) | 6,683 |
| Net cash provided by (used in) financing activities from | | | | |
| discontinued operations | 107 | (12) | (1) | (16) |
| Net cash provided by (used in) financing activities | (9,503) | (1,474) | (8,778) | 6,667 |
| | | | | |
| Increase (decrease) in cash and cash equivalents | (2,582) | 1,154 | 5,010 | 1,790 |
| Cash and cash equivalents in the beginning of the period | 21,279 | 13,461 | 13,891 | 14,022 |
| Effect of exchange rate changes on cash and cash equivalents | 225 | (1,238) | 65 | (2,435) |
| Cash and cash equivalents from disposals subsidiaries | | | (44) | |
| Cash and cash equivalents at end of the period | 18,922 | 13,377 | 18,922 | 13,377 |
| • | · | , | · | · |
| Non-cash transactions: | | | | |
| Additions to property, plant and equipment - capitalized | | | | |
| loans and borrowing costs | 265 | 749 | 587 | 1,439 |

⁽i) Period restated according to Note 11.

Statement of Cash Flows

In millions of Brazilian Reais

| Signature | | Parent comp | |
|---|---|-------------|----------|
| Cash flow from operating activities: Income before income taxes from continuing operations 10,586 16,488 Continuing operations adjustments for: Equity results in associates, subsidiaries and joint ventures 68 Results on measurement or sale of non-current assets 68 Impairment and other results in associates and joint ventures 292 3,999 Depreciation, amortization and depletion 6,164 (10,52) Changes in assets and liabilities: 2 2 3,998 Invancial results, net 12,695 2,896 1,295 2,896 Inventories 373 19 2 1,295 2,896 Inventories 3(373) 19 2 1,295 2,896 Inventories 3(373) 19 2 1,295 2,896 Inventories 3(373) 19 2 2,950 1,90 4 2 2,950 1,90 4 2 2,950 1,90 4 2 2,950 1,91 1,91 2 4,97 2 4,97 2 4,97 <t< th=""><th></th><th>_</th><th></th></t<> | | _ | |
| Income before income taxes from continuing operations | Cash flow from operating activities: | | |
| Continuing operations adjustments for: Counting results in associates, subsidiaries and joint ventures (1,758) (4,699) Results on measurement or sale of non-current assets 68 | <u>. </u> | 10,586 | 16,478 |
| Equity results in associates, subsidiaries and joint ventures (1,758) (4,699) Results on measurement or sale of non-current assets 68 7999 Impairment and other results in associates and joint ventures 292 3,999 Depreciation, amortization and depletion 6,164 (11,052) Changes in assets and liabilities: Accounts receivable 1375 2,896 Inventories 3373 19 Suppliers and contractors 28 925 Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 Reters to no loans and borrowings paid (2,978) 11,512 Interest on loans and borrowings paid (132) (672) Interest on participative stockholders debentures paid (132) (672) Interest on participative stockholders debentures paid (132) (672) Interest on participative stockholders debentures paid (678) (81) Income taxes (678) (81) Income taxes 59 (678) (81) Net cash provide | | | |
| Results on measurement or sale of non-current assets 68 Impairment and other results in associates and joint ventures 292 3,999 Depreciation, amortization and depletion 2,693 2,398 Financial results, net 6,164 (11,052) Changes in assets and liabilities: Cocurs receivable 12,695 2,896 Inventories 28 925 Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 Increst on loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (21) (117) Dividends received from interest on capital and associates (678) (81) Income taxes Settlement program (750) (881) Income taxes - Settlement program (750) (881) Net cash provided by operating activities (97)< | | (1,758) | (4,699) |
| Depreciation, amortization and depletion 2,693 2,398 Financial results, net 6,164 (11,052) Changes in assets and liabilities: Accounts receivable 12,695 2,896 Inventories (373) 19 Suppliers and contractors 28 925 Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 Other assets and loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) 11,512 Interest on loans and borrowings paid (22)78 (2,847) Derivatives paid, net (132) (672) (672) Interest on participative stockholders debentures paid (221) (117) Derivatives paid, net (678) (81) Income taxes Settlement program (59) (681) Net cash provided by operating activities (97) 6 (81) Cash flow from investing activities (97) 6 (81) Cash flow from investing acti | | | |
| Depreciation, amortization and depletion 2,693 2,398 Financial results, net 6,164 (11,052) Changes in assets and liabilities: Accounts receivable 12,695 2,896 Inventories (373) 19 Suppliers and contractors 28 925 Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 Iterest on loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (21) (117) Derivatives paid, net (678) (81) Income taxes (678) (81) Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities (97) 6 Cash flow from investing activities (97) 6 Claus and advances - Net receipts (payments) (43) 8.5 Additions to investments redeemed (invested) | Impairment and other results in associates and joint ventures | 292 | 3,999 |
| Changes in assets and liabilities: 2,896 Accounts receivable 12,695 2,896 Inventories 373 19 Suppliers and contractors 28 925 Payroll and related charges 64 106 Other assets and liabilities, net (779) 442 Experience of loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (221) (117) Dividends received from interest on capital and associates 678 (81) Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (97) 6 Loans and advances - Net receipts (payments) (97) 6 Loans and advances - Net receipts (payments) (33,37) (6,276) | · · | 2,693 | 2,398 |
| Changes in assets and liabilities: 12,695 2,896 Inventories (373) 19 Suppliers and contractors 28 925 Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 Users and liabilities, net (2,978) (2,847) Other assets and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on loans and borrowings paid (221) (117) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (221) (117) Dividends received from interest on capital and associates (678) (81) Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities (97) 6 Cash flow from investing activities (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (97) (5,27) | • | 6,164 | (11,052) |
| Inventories | Changes in assets and liabilities: | | , , |
| Suppliers and contractors 28 925 Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 assets and liabilities, net (29,562) 11,512 Interest on loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (221) (117) Dividends received from interest on capital and associates (678) (81) Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 7,173 Cash flow from investing activities 9 6 Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments and investments (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from dispos | Accounts receivable | 12,695 | 2,896 |
| Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 29,562 11,512 Interest on loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (221) (117) Dividends received from interest on capital and associates (678) (81) Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities 97 6 Chans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures (424 403 Others | Inventories | (373) | 19 |
| Payroll and related charges (54) 106 Other assets and liabilities, net (779) 442 29,562 11,512 Interest on loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (221) (117) Dividends received from interest on capital and associates (678) (81) Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities 97 6 Chans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures (54) (188) Net | Suppliers and contractors | 28 | 925 |
| Other assets and liabilities, net (779) 442 29,562 11,512 Interest on loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (221) (117) Dividends received from interest on capital and associates (678) (81) Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities: *** *** Financial investments redeemed (invested) (97) 6 6 Loans and advances - Net receipts (payments) (432) 85 4 Additions to investments (913) (1,282) 85 Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities | | (54) | 106 |
| Interest on loans and borrowings paid (2,978) (2,847) Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (21) (117) Dividends received from interest on capital and associates 59 (678) (81) Income taxes (678) (81) (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities: *** *** Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (4,794) (7,239) Cash flow from financing activities 4(4,794) (7,239) Cash flow from financing activities: 6,315 6,315 < | | (779) | 442 |
| Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (221) (117) Dividends received from interest on capital and associates 59 Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities: (97) 6 Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities: (4,794) (7,239) Cash flow from financing activities: (4,794) (7,239) Cash flow from financing activities: (5,20) | | 29,562 | 11,512 |
| Derivatives paid, net (132) (672) Interest on participative stockholders debentures paid (221) (117) Dividends received from interest on capital and associates 59 Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities: (97) 6 Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: (4,794) (7,239) Cash flow from financing activities (6,750) | Interest on loans and borrowings paid | (2,978) | (2,847) |
| Dividends received from interest on capital and associates 59 Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities: Secondary of the cash provided by operating activities: Secondary of the cash provided by operating activities: Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 13 13 13 13 14 403 30 3 | | (132) | (672) |
| Dividends received from interest on capital and associates 59 Income taxes (678) (81) Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities: Secondary of the cash provided by operating activities: Secondary of the cash provided by operating activities: Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 13 13 13 13 14 403 30 3 | Interest on participative stockholders debentures paid | (221) | (117) |
| Income taxes - Settlement program (750) (681) Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities: *** Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (54) (188) Cash flow from financing activities: *** *** Loans and borrowings 6,742 6,315 Additions 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: | | | 59 |
| Net cash provided by operating activities 24,803 7,173 Cash flow from investing activities: Stancial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: 5 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: 5 6,741 6,750 | Income taxes | (678) | (81) |
| Cash flow from investing activities: Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Use of the control of | Income taxes - Settlement program | (750) | (681) |
| Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Loans and borrowings 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: (19,414) (6,750) | Net cash provided by operating activities | 24,803 | 7,173 |
| Financial investments redeemed (invested) (97) 6 Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Loans and borrowings 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: (19,414) (6,750) | | | |
| Loans and advances - Net receipts (payments) (432) 85 Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: 5 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: 6 6,750 | Cash flow from investing activities: | | |
| Additions to investments (913) (1,282) Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Loans and borrowings Additions 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: | Financial investments redeemed (invested) | (97) | 6 |
| Additions to property, plant and equipment and intangible (note 27) (3,737) (6,276) Proceeds from disposal of assets and investments 15 13 Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Loans and borrowings Additions 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: | Loans and advances - Net receipts (payments) | (432) | 85 |
| Proceeds from disposal of assets and investments Dividends and interest on capital received from associates and joint ventures Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Loans and borrowings Additions Additions 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: | Additions to investments | (913) | (1,282) |
| Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Loans and borrowings Additions 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: | Additions to property, plant and equipment and intangible (note 27) | (3,737) | (6,276) |
| Dividends and interest on capital received from associates and joint ventures 424 403 Others investments activities (54) (188) Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Loans and borrowings Additions 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: | Proceeds from disposal of assets and investments | 15 | 13 |
| Net cash used in investing activities (4,794) (7,239) Cash flow from financing activities: Loans and borrowings Additions 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: | Dividends and interest on capital received from associates and joint ventures | 424 | 403 |
| Cash flow from financing activities: Loans and borrowings Additions Repayments (19,414) (6,750) Transactions with stockholders: | Others investments activities | (54) | (188) |
| Loans and borrowingsAdditions6,7426,315Repayments(19,414)(6,750)Transactions with stockholders: | Net cash used in investing activities | (4,794) | (7,239) |
| Loans and borrowingsAdditions6,7426,315Repayments(19,414)(6,750)Transactions with stockholders: | | | |
| Additions 6,742 6,315 Repayments (19,414) (6,750) Transactions with stockholders: | Cash flow from financing activities: | | |
| Repayments (19,414) (6,750) Transactions with stockholders: | Loans and borrowings | | |
| Transactions with stockholders: | Additions | 6,742 | 6,315 |
| | Repayments | (19,414) | (6,750) |
| Dividends and interest on capital paid to noncontrolling interest (4,660) | | | |
| | Dividends and interest on capital paid to noncontrolling interest | (4,660) | |

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| Transactions with noncontrolling stockholders | | 447 |
|--|----------|------|
| Net cash provided by (used in) financing activities | (17,332) | 12 |
| | | |
| Increase (decrease) in cash and cash equivalents | 2,677 | (54) |
| Cash and cash equivalents in the beginning of the period | 1,203 | 518 |
| Cash and cash equivalents at end of the period | 3,880 | 464 |
| | | |
| Non-cash transactions: | | |
| Additions to property, plant and equipment - capitalized loans and borrowing costs | 585 | 827 |

Statement of Financial Position

In millions of Brazilian Reais

| | | Consol | lidated | Parent company | | |
|---|-------|---------------|--------------|----------------|--------------|--|
| | | | December 31, | | December 31, | |
| | Notes | June 30, 2017 | 2016 | June 30, 2017 | 2016 | |
| Assets | | | | | | |
| Current assets | | | | | | |
| Cash and cash equivalents | 16 | 18,922 | 13,891 | 3,880 | 1,203 | |
| Accounts receivable | 8 | 5,654 | 11,937 | 13,761 | 26,223 | |
| Other financial assets | 10 | 7,255 | 1,184 | 2,409 | 1,231 | |
| Inventories | 9 | 12,783 | 10,913 | 4,420 | 3,982 | |
| Prepaid income taxes | | 718 | 518 | 634 | 312 | |
| Recoverable taxes | | 4,306 | 5,296 | 2,895 | 3,962 | |
| Others | | 1,412 | 1,814 | 461 | 406 | |
| | | 51,050 | 45,553 | 28,460 | 37,319 | |
| Non-current assets held for sale | 11 | 14,654 | 27,994 | 8,808 | 8,936 | |
| | | 65,704 | 73,547 | 37,268 | 46,255 | |
| Non-current assets | | | | | | |
| Judicial deposits | 22(c) | 3,107 | 3,135 | 2,676 | 2,681 | |
| Other financial assets | 10 | 11,032 | 2,046 | 2,281 | 2,178 | |
| Prepaid income taxes | | 1,815 | 1,718 | | | |
| Recoverable taxes | | 2,424 | 2,368 | 2,300 | 2,223 | |
| Deferred income taxes | 6(a) | 23,473 | 23,931 | 14,545 | 15,299 | |
| Others | , , | 1,053 | 894 | 722 | 618 | |
| | | 42,904 | 34,092 | 22,524 | 22,999 | |
| | | , | , | , | , | |
| Investments | 13 | 11,926 | 12,046 | 109,893 | 107,539 | |
| Intangibles | 14 | 23,856 | 22,395 | 12,566 | 11,314 | |
| Property, plant and equipment | 15 | 180,821 | 180,616 | 102,318 | 102,056 | |
| 1 3/1 1 1 | | 259,507 | 249,149 | 247,301 | 243,908 | |
| Total assets | | 325,211 | 322,696 | 284,569 | 290,163 | |
| | | , | 0,07 | | | |
| Liabilities | | | | | | |
| Current liabilities | | | | | | |
| Suppliers and contractors | | 12,393 | 11,830 | 7,179 | 7,116 | |
| Loans and borrowings | 16 | 6,823 | 5,410 | 5,470 | 4,171 | |
| Other financial liabilities | 10 | 2,900 | 3,539 | 6,304 | 10,845 | |
| Taxes payable | | 2,122 | 2,144 | 1,895 | 1,883 | |
| Provision for income taxes | | 850 | 556 | 1,075 | 1,003 | |
| Liabilities related to associates and joint | | 050 | 330 | | | |
| ventures | 17 | 975 | 951 | 975 | 951 | |
| Provisions | 21 | 2,761 | 3,103 | 1,589 | 1,792 | |
| Dividends and interest on capital | 21 | 2,701 | 2,602 | 1,507 | 2,602 | |
| Others | | 2,581 | 2,921 | 1,231 | 353 | |
| Culcio | | 2,301 | 2,921 | 1,231 | 555 | |

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| | | 31,405 | 33,056 | 24,643 | 29,713 |
|---|------|---------|---------|---------|---------|
| Liabilities associated with non-current assets | | | | | |
| held for sale | 11 | 3,604 | 3,554 | | |
| | | 35,009 | 36,610 | 24,643 | 29,713 |
| Non-current liabilities | | | | | |
| Loans and borrowings | 16 | 85,318 | 90,154 | 38,332 | 47,877 |
| Other financial liabilities | 10 | 10,400 | 6,932 | 62,225 | 59,681 |
| Taxes payable | | 16,083 | 16,170 | 15,753 | 15,838 |
| Deferred income taxes | 6(a) | 5,179 | 5,540 | | |
| Provisions | 21 | 20,021 | 18,730 | 4,388 | 4,396 |
| Liabilities related to associates and joint | | | | | |
| ventures | 17 | 2,394 | 2,560 | 2,394 | 2,560 |
| Deferred revenue - Gold stream | | 6,563 | 6,811 | | |
| Others | | 5,632 | 5,487 | 2,951 | 2,857 |
| | | 151,590 | 152,384 | 126,043 | 133,209 |
| Total liabilities | | 186,599 | 188,994 | 150,686 | 162,922 |
| | | | | | |
| Stockholders equity | 24 | | | | |
| Equity attributable to Vale s stockholders | | 133,883 | 127,241 | 133,883 | 127,241 |
| Equity attributable to noncontrolling interests | | 4,729 | 6,461 | | |
| Total stockholders equity | | 138,612 | 133,702 | 133,883 | 127,241 |
| Total liabilities and stockholders equity | | 325,211 | 322,696 | 284,569 | 290,163 |

Statement of Changes in Equity

In millions of Brazilian Reais

| | Share capital | Results on conversion of shares | 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 interests | Tota stockhol equit |
|---|------------------|---------------------------------|--|--------------------|--------------------|---|--|-------------------|---|--|---------------------------|
| Balance at December 31, 2016 | 77,300 | 50 | (1 970) | 13,698 | (2,746) | (3,739) | 44,548 | | 127,241 | 6,461 | 133 |
| Net income | 77,300 | 50 | (1,070) | 13,098 | (2,740) | (3,739) | 44,546 | 7,951 | 7,951 | 160 | |
| Other | | | | | | | | 7,931 | 7,931 | 100 | o |
| comprehensive | | | | | | | | | | | |
| income: | | | | | | | | | | | |
| Retirement | | | | | | | | | | | |
| benefit | | | | | | | | | | | |
| obligations | | | | | | (715) | 1 | | (715) | | i |
| Net investments | | | | | | (113) | | | (110) | | |
| hedge | | | | | | | (277) | | (277) | | , |
| Translation | | | | | | | (1 1) | | (, | | |
| adjustments | | | | | | (30) | 2,107 | | 2,077 | 32 | 2 |
| Transactions | | | | | | ` , | | | | | |
| with | | | | | | | | | | | |
| stockholders: | | | | | | | | | | | |
| Dividends and | | | | | | | | | | | |
| interest on | | | | | | | | | | | |
| capital of Vale s | | | | | | | | | | | |
| stockholders | | | | (2,065) | | | | | (2,065) | | (2 |
| Dividends of | | | | | | | | | | | |
| noncontrolling | | | | | | | | | | | |
| interest | | | | | | | | | | (336) |) |
| Acquisitions and disposal of participation of noncontrolling | | | | | | | | | | | |
| interest (note | | | (220) | | | | | | (220) | (1.670) | |
| 12) | | | (329) | | | | | | (329) | (1,672) |) (2 |
| Capitalization of noncontrolling interest | | | | | | | | | | | |
| advances | | | | | | | | | | 84 | |
| Balance at June 30, 2017 | 77,300 | 50 | (2,199) | 11,633 | (2,746) | (4,484) | 46,378 | 7,951 | 133,883 | 4,729 | 138 |

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| | Share | Results on conversion of | Results from operation with noncontrolling | Profit | Treasury | Unrealized fair value gain | Cumulative translation | Retained | Equity attributable to Vale s | Equity attributable to noncontrolling | Total stockholo |
|-----------------------------|---------|--------------------------|--|----------|----------|-------------------------------|------------------------|----------|-------------------------------|---------------------------------------|--------------------|
| | capital | shares | interest | reserves | stocks | (losses) | adjustments | earnings | stockholders | interests | equity |
| Balance at | | | | | | | | | | | |
| December 31, | | | | | | | | | | | |
| 2015 | 77,300 | 50 | (1,881) | 3,846 | (2,746) | (3,873) | 58,464 | | 131,160 | 8,259 | 139, |
| Net income | | | | | | | | 9,896 | 9,896 | 71 | 9, |
| Other | | | | | | | | | | | |
| comprehensive | | | | | | | | | | | |
| income: | | | | | | | | | | | |
| Retirement | | | | | | | | | | | |
| benefit | | | | | | | | | | | |
| obligations | | | | | | (675) | | | (675) | 1 | (|
| Cash flow hedge | | | | | | 26 | | | 26 | | |
| Translation | | | | | | | | | | | |
| adjustments | | | | | | 453 | (14,491) |) | (14,038) | (972 |) (15, |
| Transactions | | | | | | | | | | | |
| with | | | | | | | | | | | |
| stockholders: | | | | | | | | | | | |
| Dividends of | | | | | | | | | | | |
| noncontrolling | | | | | | | | | | | |
| interest | | | | | | | | | | (641 |) (|
| Acquisitions | | | | | | | | | | | |
| and disposal of | | | | | | | | | | | |
| participation of | | | | | | | | | | | |
| noncontrolling | | | | | | | | | | | |
| interest (note | | | | | | | | | | | |
| 12) | | | 4 | | | | | | 4 | | |
| Capitalization of | | | | | | | | | | | |
| noncontrolling | | | | | | | | | | | |
| interest | | | | | | | | | | | |
| advances | | | | | | | | | | 61 | |
| Balance at June 30, 2016 | 77,300 | 50 | (1,877) | 3,846 | (2,746) | (4,069) | 43,973 | 9,896 | 126,373 | 6,778 | 133, |
| June 30, 2010 | 11,500 | 30 | (1,077) | 3,040 | (4,740) | (4,003) | 43,973 | 2,030 | 120,373 | 0,770 | 133, |

Value Added Statement

In millions of Brazilian Reais

| Six month period ended June 30, Generation of value added from continuing operations 2017 2016 2017 2016 | |
|--|------|
| | |
| (i) | |
| Gross revenue | |
| Revenue from products and services 50,800 42,771 33,172 20,7 | 715 |
| Results on measurement or sale of non-current assets 868 (228) | |
| Revenue from the construction of own assets 3,144 6,829 2,875 5,5 | 275 |
| Allowance for doubtful accounts (14) (4) | |
| Other revenues 264 264 195 | 125 |
| Less: | |
| Acquisition of products $(1,027)$ (835) (343) | 347) |
| Material, service and maintenance (12,423) (15,157) (8,165) | 650) |
| Oil and gas (1,967) (2,144) (1,348) (1,767) | 337) |
| Energy (1,434) (1,147) (674) | 489) |
| | (24) |
| Impairment of non-current assets and other results (292) (3,999) (292) | 999) |
| Impairment of descontinued operations (658) | |
| Other costs and expenses (3,051) (2,727) (427) | 478) |
| Gross value added 30,302 19,571 24,231 9, | 791 |
| Depreciation, amortization and depletion (5,758) (5,998) (2,693) | 398) |
| Net value added 24,544 13,573 21,538 7, | 393 |
| | |
| Received from third parties: | |
| Equity results from entities 142 1,242 1,758 4, | 699 |
| | (47) |
| Financial income 571 329 212 | 169 |
| Monetary and exchange variation of assets 156 (7,037) 18 (7, | 181) |
| Total value added from continuing operations to be | |
| | 033 |
| Value added from discontinued operations to be distributed 251 843 | |
| Total value added to be distributed 25,664 8,950 23,526 5, | 033 |
| | |
| | 377 |
| | 232 |
| | 298 |
| | 237 |
| Financial expense (excludes capitalized interest) 5,138 1,045 6,165 2, | 004 |
| Monetary and exchange variation of liabilities 1,346 (18,959) 1,009 (19, | 547) |
| | 536 |
| | 896 |
| Net income attributable to noncontrolling interest 147 51 | |

| Distributed value added from continuing operations | 25,413 | 8,107 | 23,526 | 5,033 |
|--|--------|-------|--------|-------|
| Distributed value added from discontinued operations | 251 | 843 | | |
| Distributed value added | 25,664 | 8,950 | 23,526 | 5,033 |

(i) Period restated according to Note 11.

| Table of Contents |
|---|
| |
| Selected Notes to the Interim 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 - BM&F BOVESPA (Vale3 and Vale5), New York - NYSE (VALE and VALE.P), Paris - NYSE Euronext (Vale3 and Vale5) and Madrid LATIBEX (XVALO and XVALP). |
| Vale 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. |
| 2. Basis for preparation of the interim financial statements |
| a) Statement of compliance |
| |

The condensed consolidated and individual interim financial statements of the Company (interim financial statements) have been prepared 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 interim financial statements, and only this information, are being presented and correspond to those used by the Company s Management. The consolidated interim financial statements present the accounts of the Company.

The selected notes of the Parent Company are presented in a summarized form in note 27.

b) Basis of presentation

The interim 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 the income statement or available-for-sale financial instruments measured at fair value through the statement of comprehensive income; and (ii) impairment of assets.

The accounting practices, accounting estimates and judgments, risk management and measurement methods are the same as those adopted when preparing the financial statements for the year ended December 31, 2016. The accounting policy for recognizing and measuring income taxes in the interim period is described in note 6. These interim financial statements were prepared to update users about relevant information presented in the period and should be read in conjunction with the financial statements for the year ended December 31, 2016.

The comparative information for the period ended June 30, 2016 was restated for the purposes of applying IFRS 5 Non-current assets held for sale and discontinued operations after approval by the Board of Directors of the sale of the fertilizers assets, as presented in Note 11.

The interim 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 (BRL or R\$). For presentation purposes, these interim financial statements are presented in R\$.

The exchange rates used by the Company for major currencies to translate its operations for R\$ are as follows:

| | Average rate for the | | | | | | |
|---------------------------|----------------------|--------------|---------------|---------------|------------------------|---------------|--|
| | Closing rate | | Three month | period ended | Six month period ended | | |
| | | December 31, | | | | | |
| | June 30, 2017 | 2016 | June 30, 2017 | June 30, 2016 | June 30, 2017 | June 30, 2016 | |
| US Dollar (US\$) | 3.3082 | 3.2591 | 3.2174 | 3.5076 | 3.1807 | 3.7017 | |
| Canadian dollar (CAD) | 2.5485 | 2.4258 | 2.3937 | 2.7217 | 2.3847 | 2.7809 | |
| Australian dollar (AUD) | 2.5394 | 2.3560 | 2.4154 | 2.6153 | 2.3986 | 2.7142 | |
| Euro (EUR or) | 3.7750 | 3.4384 | 3.5480 | 3.9624 | 3.4479 | 4.1288 | |

Subsequent events were evaluated through July 26, 2017, which is the date the interim financial statements were approved by the Board of Directors.

c) Accounting standards issued but not yet effective

The standards and interpretations issued by IASB relevant to the Company but not yet effective are the same as those adopted when preparing the financial statements for the year ended December 31, 2016.

3. Information by business segment and by geographic area

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

a) Adjusted LAJIDA (EBITDA)

Adjusted *LAJIDA* (EBITDA) is used by management to support the decision making process for segments. 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 from associates and joint ventures.

| | Consolidated | |
|-------------|--------------|---------------|
| Three month | period ended | June 30, 2017 |

| | Net operating revenue | Cost of goods sold and services rendered | Sales, administrative and other operating expenses | Research and | Pre operating and operational stoppage | Dividends received from associates and joint ventures | Adjusted LAJIDA (EBITDA) |
|------------------|--------------------------|---|--|--------------|--|--|-----------------------------|
| Ferrous | | | | | | | |
| minerals | | | | | | | |
| Iron ore | 11,484 | (6,104) | (299) | (72) | (130) | | 4,879 |
| Iron ore Pellets | 4,285 | (2,293) | (33) | (16) | (4) | 119 | 2,058 |
| Ferroalloys and | | | | | | | |
| manganese | 373 | (258) | (8) | | (3) | | 104 |
| Other ferrous | | | | | | | |
| products and | | | | | | | |
| services | 394 | (246) | 41 | (2) | (1) | | 186 |
| | 16,536 | (8,901) | (299) | (90) | (138) | 119 | 7,227 |

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| Coal | 1,544 | (980) | (35) | (11) | (15) | | 503 |
|-------------------------|--------|----------|-------|-------|-------|-----|-------|
| | | | | | | | |
| Base metals | | | | | | | |
| Nickel and other | | | | | | | |
| products | 3,251 | (2,640) | (102) | (36) | (36) | | 437 |
| Copper | 1,622 | (794) | (13) | (7) | | | 808 |
| | 4,873 | (3,434) | (115) | (43) | (36) | | 1,245 |
| | | | | | | | |
| Others | 410 | (407) | (177) | (111) | (3) | 147 | (141) |
| Total of | | | | | | | |
| continuing | | | | | | | |
| operations | 23,363 | (13,722) | (626) | (255) | (192) | 266 | 8,834 |
| | | | | | | | |
| Discontinued operations | | | | | | | |
| (Fertilizers) | 1,291 | (1,194) | (62) | (11) | (34) | | (10) |
| Total | 24,654 | (14,916) | (688) | (266) | (226) | 266 | 8,824 |

Consolidated Three month period ended June 30, 2016 Sales,

| | Net operating revenue | Cost of goods sold and services rendered | administrative and other operating expenses | Research and evaluation | Pre operating and operational stoppage | Dividends received from associates and joint ventures | Adjusted LAJIDA (EBITDA) |
|--------------------------------|-----------------------|--|--|-------------------------|--|--|-----------------------------|
| Ferrous | | | | | | | |
| minerals | 12.262 | (5.5(5) | (505) | (50) | (120) | | 5 502 |
| Iron ore | 12,263 | (5,767) | (525) | (58) | (120) | 212 | 5,793 |
| Iron ore Pellets | 3,049 | (1,614) | (65) | (13) | (30) | 213 | 1,540 |
| Ferroalloys and manganese | 214 | (184) | 2 | | (11) | | 21 |
| Other ferrous products and | | (-0.) | | | () | | |
| services | 364 | (224) | (8) | (1) | (4) | | 127 |
| | 15,890 | (7,789) | (596) | (72) | (165) | 213 | 7,481 |
| | | | | | | | |
| Coal | 511 | (831) | (29) | (10) | (30) | | (389) |
| | | | | | | | |
| Base metals | | | | | | | |
| Nickel and other | | | | | | | |
| products | 3,682 | (2,719) | (18) | (76) | (89) | | 780 |
| Copper | 1,393 | (832) | (32) | (3) | | | 526 |
| | 5,075 | (3,551) | (50) | (79) | (89) | | 1,306 |
| Others | 100 | (197) | (166) | (96) | (1) | 190 | (170) |
| Total of continuing operations | 21,576 | (12,368) | (841) | (257) | (285) | 403 | 8,228 |
| | | | | | | | |
| Discontinued operations | | | | | | | |
| (Fertilizers) | 1,627 | (1,388) | (102) | (19) | (15) | 10 | 113 |
| Total | 23,203 | (13,756) | (943) | (276) | (300) | 413 | 8,341 |

Consolidated Six month period ended June 30, 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 from associates and joint ventures | Adjusted LAJIDA (EBITDA) |
|------------------|-----------------------|---|--|-------------------------|--|--|-----------------------------|
| Ferrous | | | | | | | |
| minerals | | | | | | | |
| Iron ore | 26,629 | (11,361) | (296) | (123) | (257) | | 14,592 |
| Iron ore Pellets | 8,870 | (4,343) | (69) | (26) | (8) | 119 | 4,543 |

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| Ferroalloys and manganese | 646 | (397) | (14) | | (12) | | 223 |
|---------------------------|--------|----------|---------|-------|-------|-----|--------|
| Other ferrous | 0+0 | (371) | (14) | | (12) | | 223 |
| products and | | | | | | | |
| | 789 | (105) | 27 | (2) | (1) | | 327 |
| services | | (485) | | (3) | (1) | 110 | |
| | 36,934 | (16,586) | (352) | (152) | (278) | 119 | 19,685 |
| Coal | 2,564 | (1,759) | (72) | (21) | (15) | | 697 |
| Coai | 2,304 | (1,739) | (72) | (21) | (13) | | 091 |
| Base metals | | | | | | | |
| Nickel and other | | | | | | | |
| products | 6,809 | (5,352) | (234) | (65) | (157) | | 1,001 |
| Copper | 3,086 | (1,515) | (24) | (12) | | | 1,535 |
| •• | 9,895 | (6,867) | (258) | (77) | (157) | | 2,536 |
| | | | | | | | |
| Others | 712 | (714) | (489) | (211) | (6) | 147 | (561) |
| Total of | | | | | | | |
| continuing | | | | | | | |
| operations | 50,105 | (25,926) | (1,171) | (461) | (456) | 266 | 22,357 |
| | | | | | | | |
| Discontinued | | | | | | | |
| operations | | | | | | | |
| (Fertilizers) | 2,453 | (2,260) | (111) | (16) | (67) | | (1) |
| Total | 52,558 | (28,186) | (1,282) | (477) | (523) | 266 | 22,356 |

Consolidated Six month period ended June 30, 2016

| | | | Sales, | onth period ended | June 30, 2010 | | |
|-------------------------|-----------------------|---|--|-------------------------|--|--|-----------------------------|
| | Net operating revenue | Cost of goods sold and services rendered | administrative and other operating expenses | Research and evaluation | Pre operating and operational stoppage | Dividends received from associates and joint ventures | Adjusted LAJIDA (EBITDA) |
| Ferrous | | | | | | | |
| minerals | | | | | | | |
| Iron ore | 23,451 | (10,805) | (1,123) | (100) | (246) | | 11,177 |
| Iron ore Pellets | 5,967 | (3,309) | (124) | (15) | (45) | 213 | 2,687 |
| Ferroalloys and | | | | | | | |
| manganese | 396 | (359) | 8 | | (21) | | 24 |
| Other ferrous | | | | | | | |
| products and | | | | | | | |
| services | 703 | (454) | 10 | (2) | (7) | | 250 |
| | 30,517 | (14,927) | (1,229) | (117) | (319) | 213 | 14,138 |
| | | | | | | | |
| Coal | 1,110 | (1,964) | 162 | (18) | (37) | | (747) |
| Danasasatala | | | | | | | |
| Base metals | | | | | | | |
| Nickel and other | | (5 (02) | (107) | (122) | (212) | 1 | 1 400 |
| products | 7,565 | (5,692) | (107) | (132) | (213) | 1 | 1,422 |
| Copper | 2,764 | (1,579) | (27) | (5) | (212) | 1 | 1,153 |
| | 10,329 | (7,271) | (134) | (137) | (213) | 1 | 2,575 |
| Others | 194 | (372) | (144) | (196) | (1) | 191 | (328) |
| Total of | 174 | (372) | (144) | (170) | (1) | 1/1 | (320) |
| continuing | | | | | | | |
| operations | 42,150 | (24,534) | (1,345) | (468) | (570) | 405 | 15,638 |
| operations | 42,130 | (24,554) | (1,545) | (400) | (570) | 403 | 13,030 |
| | | | | | | | |
| Discontinued operations | | | | | | | |
| (Fertilizers) | 3,120 | (2,530) | (142) | (40) | (30) | 10 | 388 |
| Total | 45,270 | (27,064) | (1,487) | (508) | (600) | 415 | 16,026 |

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

From Continuing operations

Consolidated

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| | Three month period | ended June 30, | Six month period ended June 30, | |
|---|--------------------|----------------|---------------------------------|----------|
| | 2017 | 2016 | 2017 | 2016 |
| Net income from continuing operations | 557 | 3,711 | 8,756 | 9,994 |
| Depreciation, depletion and amortization | 2,907 | 2,945 | 5,758 | 5,998 |
| Income taxes | (156) | 4,618 | 2,060 | 7,997 |
| Financial results, net | 4,341 | (7,020) | 6,235 | (11,741) |
| LAJIDA (EBITDA) | 7,649 | 4,254 | 22,809 | 12,248 |
| | | | | |
| Items to reconciled LAJIDA (EBITDA) | | | | |
| adjusted | | | | |
| Impairment and other results on non-current | | | | |
| assets | 726 | 228 | (877) | 228 |
| Equity results in associates and joint ventures | 83 | (656) | (142) | (1,242) |
| Impairment and other results in associates and | | | | |
| joint ventures | 110 | 3,999 | 301 | 3,999 |
| Dividends received from associates and joint | | | | |
| ventures | 266 | 403 | 266 | 405 |
| Adjusted LAJIDA (EBITDA) from continuing | | | | |
| operations | 8,834 | 8,228 | 22,357 | 15,638 |

From Discontinued operations

| | Consolidated | | | | | | |
|---|----------------------|---------------|---------------------|--------------|--|--|--|
| | Three month period e | nded June 30, | Six month period en | ded June 30, | | | |
| | 2017 | 2016 | 2017 | 2016 | | | |
| Loss from discontinued operations | (388) | (72) | (645) | (27) | | | |
| Depreciation, depletion and amortization | 3 | 308 | 3 | 569 | | | |
| Income taxes | (493) | (78) | (588) | (54) | | | |
| Financial results, net | 12 | (53) | 26 | (105) | | | |
| LAJIDA (EBITDA) | (866) | 105 | (1,204) | 383 | | | |
| | | | | | | | |
| Items to reconciled LAJIDA (EBITDA) | | | | | | | |
| adjusted | | | | | | | |
| Equity results in associates and joint ventures | (1) | (2) | (2) | (5) | | | |
| Impairment of non-current assets (note 11a) | 857 | | 1,205 | | | | |
| Dividends received from associates and joint | | | | | | | |
| ventures | | 10 | | 10 | | | |
| Adjusted LAJIDA (EBITDA) from | | | | | | | |
| discontinued operations | (10) | 113 | (1) | 388 | | | |

b) Assets by segment

| | | Consolidated Three month period ended Six month period ended | | | | | | | |
|----------|----------------------|--|---|--|--|--|--|--|--|
| | | June 30, 2017 | | | June 30, 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) | Additions to property, plant and equipment and intangible (ii) | Depreciation, depletion and amortization (iii) | | |
| Ferrous | | | | | | | | | |
| minerals | 5,430 | 6,185 | 114,934 | 1,978 | 1,376 | 4,593 | 2,684 | | |
| Coal | 312 | 995 | 5,931 | 47 | 238 | 224 | 567 | | |
| Base | | | | | | | | | |
| metals | 3,667 | 42 | 76,715 | 812 | 1,279 | 1,476 | 2,477 | | |
| Others | 86 | 4,704 | 7,097 | 15 | 14 | 46 | 30 | | |
| Total | 9,495 | 11,926 | 204,677 | 2,852 | 2,907 | 6,339 | 5,758 | | |

| | Consolidated | | | | | | | | | | |
|----------|-------------------|--|--|---|--|---|--|--|--|--|--|
| | | | | Three month | period ended | Six month pe | eriod ended | | | | |
| | | December 31, 20 | 16 | | June 30 | 0, 2016 | | | | | |
| | | Investments | Property, plant | Additions to | | Additions to | | | | | |
| | Product inventory | in associates and joint ventures | and equipment and intangible (i) | property, plant and equipment and intangible (ii) | Depreciation, depletion and amortization (iii) | property, plant and equipment and intangible (ii) | Depreciation, depletion and amortization (iii) | | | | |
| Ferrous | | | | | | | | | | | |
| minerals | 3,697 | 5,894 | 113,526 | 2,676 | 1,337 | 6,269 | 2,678 | | | | |
| Coal | 412 | 929 | 6,216 | 559 | 54 | 1,080 | 150 | | | | |
| Base | | | | | | | | | | | |
| metals | 3,617 | 40 | 76,173 | 815 | 1,537 | 1,870 | 3,131 | | | | |
| Others | 7 | 5,183 | 7,096 | 28 | 17 | 60 | 39 | | | | |
| Total | 7,733 | 12,046 | 203,011 | 4,078 | 2,945 | 9,279 | 5,998 | | | | |

⁽i) Goodwill is allocated mainly in iron ore and nickel segments in the amount of R\$4,060 and R\$6,265 in June 30, 2017 and R\$4,060 and R\$5,981 in December 31, 2016, respectively.

c) Net operating revenue by geographic area

⁽ii) Includes only cash effect.

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

Consolidated Three month period ended June 30, 2017

| | Ferrous | | | | |
|---|----------|-------|-------------|--------|--------|
| | minerals | Coal | Base metals | Others | Total |
| Americas, except United States and Brazil | 445 | | 609 | 174 | 1,228 |
| United States of America | 392 | | 609 | 42 | 1,043 |
| Europe | 2,203 | 360 | 1,671 | 45 | 4,279 |
| Middle East/Africa/Oceania | 1,142 | 118 | 9 | | 1,269 |
| Japan | 1,412 | 142 | 289 | | 1,843 |
| China | 8,044 | | 278 | | 8,322 |
| Asia, except Japan and China | 960 | 790 | 1,265 | | 3,015 |
| Brazil | 1,938 | 134 | 143 | 149 | 2,364 |
| Net operating revenue | 16,536 | 1,544 | 4,873 | 410 | 23,363 |

Consolidated Three month period ended June 30, 2016

| | Ferrous | | | | |
|---|----------|------|-------------|--------|--------|
| | minerals | Coal | Base metals | Others | Total |
| Americas, except United States and Brazil | 260 | 35 | 988 | | 1,283 |
| United States of America | 185 | | 619 | | 804 |
| Europe | 2,086 | 77 | 1,733 | | 3,896 |
| Middle East/Africa/Oceania | 1,003 | 81 | 13 | | 1,097 |
| Japan | 1,059 | 110 | 258 | | 1,427 |
| China | 9,009 | 24 | 396 | | 9,429 |
| Asia, except Japan and China | 798 | 184 | 918 | | 1,900 |
| Brazil | 1,490 | | 150 | 100 | 1,740 |
| Net operating revenue | 15,890 | 511 | 5,075 | 100 | 21,576 |

Consolidated Six month period ended June 30, 2017

| | Ferrous | | | | |
|---|----------|-------|-------------|--------|--------|
| | minerals | Coal | Base metals | Others | Total |
| Americas, except United States and Brazil | 887 | | 1,565 | 174 | 2,626 |
| United States of America | 558 | | 1,193 | 182 | 1,933 |
| Europe | 4,998 | 642 | 3,261 | 96 | 8,997 |
| Middle East/Africa/Oceania | 2,486 | 280 | 18 | | 2,784 |
| Japan | 2,639 | 246 | 566 | | 3,451 |
| China | 19,526 | | 781 | | 20,307 |
| Asia, except Japan and China | 1,759 | 1,106 | 2,242 | | 5,107 |
| Brazil | 4,081 | 290 | 269 | 260 | 4,900 |
| Net operating revenue | 36,934 | 2,564 | 9,895 | 712 | 50,105 |

Consolidated Six month period ended June 30, 2016

| | Ferrous | | | | |
|---|----------|-------|-------------|--------|--------|
| | minerals | Coal | Base metals | Others | Total |
| Americas, except United States and Brazil | 615 | 50 | 2,068 | | 2,733 |
| United States of America | 316 | | 1,290 | 14 | 1,620 |
| Europe | 3,968 | 103 | 3,370 | | 7,441 |
| Middle East/Africa/Oceania | 1,637 | 152 | 48 | | 1,837 |
| Japan | 2,053 | 247 | 460 | | 2,760 |
| China | 17,687 | 119 | 1,009 | | 18,815 |
| Asia, except Japan and China | 1,404 | 439 | 1,865 | | 3,708 |
| Brazil | 2,837 | | 219 | 180 | 3,236 |
| Net operating revenue | 30,517 | 1,110 | 10,329 | 194 | 42,150 |

4. Costs and expenses by nature

a) Cost of goods sold and services rendered

| | Consolidated | | | | |
|----------------------------|--------------------|----------------|---------------------------------|-------|--|
| | Three month period | ended June 30, | Six month period ended June 30, | | |
| | 2017 | 2016 | 2017 | 2016 | |
| Personnel | 1,791 | 1,850 | 3,512 | 3,611 | |
| Materials and services | 2,894 | 3,279 | 5,350 | 5,702 | |
| Fuel oil and gas | 997 | 1,020 | 1,966 | 2,142 | |
| Maintenance | 2,430 | 2,187 | 4,700 | 4,550 | |
| Energy | 747 | 579 | 1,423 | 1,143 | |
| Acquisition of products | 512 | 511 | 1,027 | 837 | |
| Depreciation and depletion | 2,740 | 2,734 | 5,401 | 5,637 | |

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| Freight | 2,500 | 2,132 | 4,566 | 4,052 |
|---------------------------|--------|--------|--------|--------|
| Others | 1,851 | 810 | 3,382 | 2,497 |
| Total | 16,462 | 15,102 | 31,327 | 30,171 |
| | | | | |
| Cost of goods sold | 15,960 | 14,691 | 30,387 | 29,344 |
| Cost of services rendered | 502 | 411 | 940 | 827 |
| Total | 16,462 | 15,102 | 31,327 | 30,171 |

b) Selling and administrative expenses

| | Consolidated | | | | |
|-------------------------------|------------------|-------------------|--------------|---------------------------------|--|
| | Three month peri | od ended June 30, | Six month pe | Six month period ended June 30, | |
| | 2017 | 2016 | 2017 | 2016 | |
| Personnel | 199 | 189 | 367 | 373 | |
| Services | 60 | 57 | 99 | 110 | |
| Depreciation and amortization | 72 | 113 | 162 | 199 | |
| Taxes and rents | 6 | 9 | 27 | 24 | |
| Selling expenses | 64 | 34 | 106 | 64 | |
| Others | 25 | 47 | 53 | 95 | |
| Total | 426 | 449 | 814 | 865 | |

c) Others operational expenses (incomes), net

| | Consolidated | | | |
|--|--------------------|----------------|---------------------------------|------|
| | Three month period | ended June 30, | Six month period ended June 30, | |
| | 2017 | 2016 | 2017 | 2016 |
| Provision for litigation | 55 | 203 | 93 | 318 |
| Profit sharing program | 98 | 19 | 221 | 34 |
| Disposals (reversals) of materials and inventories | 12 | (3) | 20 | (32) |
| Others | 106 | 284 | 184 | 324 |
| Total | 271 | 503 | 518 | 644 |

5. Financial result

| | Consolidated | | | |
|---|---|---|--|--|
| | Three month period e | | Six month period en | , |
| | 2017 | 2016 | 2017 | 2016 |
| Financial expenses | | | | |
| Loans and borrowings gross interest | (1,447) | (1,583) | (3,026) | (3,191) |
| Capitalized loans and borrowing costs | 265 | 749 | 587 | 1,439 |
| Derivative financial instruments | (513) | (575) | (852) | (803) |
| Indexation and exchange rate variation (a) | (2,814) | (3,610) | (3,876) | (7,873) |
| Participative stockholders debentures | (285) | (312) | (1,581) | (763) |
| Expenses of REFIS | (347) | (454) | (742) | (902) |
| Others | (682) | (495) | (1,234) | (1,092) |
| | (5,823) | (6,280) | (10,724) | (13,185) |
| Financial income | | | | |
| Short-term investments | 166 | 83 | 277 | 234 |
| Derivative financial instruments | 229 | 3,148 | 1,232 | 4,802 |
| Indexation and exchange rate variation (b) | 882 | 10,044 | 2,686 | 19,795 |
| Others | 205 | 25 | 294 | 95 |
| | 1,482 | 13,300 | 4,489 | 24,926 |
| Financial results, net | (4,341) | 7,020 | (6,235) | 11,741 |
| | | | | |
| Summary of indexation and exchange rate | | | | |
| variation | | | | |
| Loans and borrowings | (2,356) | 9,509 | (754) | 19,101 |
| Others | 424 | (3,075) | (436) | (7,179) |
| Net (a) + (b) | (1,932) | 6,434 | (1,190) | 11,922 |
| Expenses of REFIS Others Financial income Short-term investments Derivative financial instruments Indexation and exchange rate variation (b) Others Financial results, net Summary of indexation and exchange rate variation Loans and borrowings Others | (347) (682) (5,823) 166 229 882 205 1,482 (4,341) | (454) (495) (6,280) 83 3,148 10,044 25 13,300 7,020 | (742) (1,234) (10,724) 277 1,232 2,686 294 4,489 (6,235) | (90 (1,09 (13,18 23 4,80 19,79 9 24,92 11,74 |

As from January 1, 2017, the Company started to apply net investment hedge accounting in foreign operation, for more information see note 16.

6. Income taxes

a) Deferred income tax assets and liabilities

Changes in deferred tax are as follows:

| | | Consolidated | | |
|----------------------------|--------|--------------|--------|--|
| | Assets | Liabilities | Total | |
| Balance at March 31, 2017 | 22,582 | 5,314 | 17,268 | |
| Effect in income statement | 202 | (176) | 378 | |
| Translation adjustment | 438 | 323 | 115 | |
| Other comprehensive income | 251 | (282) | 533 | |
| Balance at June 30, 2017 | 23,473 | 5,179 | 18.294 | |

| | Consolidated | | |
|---|--------------|-------------|---------|
| | Assets | Liabilities | Total |
| Balance at March 31, 2016 | 27,317 | 6,467 | 20,850 |
| Effect in income statement | (3,239) | (36) | (3,203) |
| Transfers between asset and liabilities | 225 | 225 | |
| Translation adjustment | (944) | (892) | (52) |
| Other comprehensive income | 37 | (183) | 220 |
| Balance at June 30, 2016 | 23,396 | 5,581 | 17,815 |

| | | Consolidated | | |
|------------------------------|--------|--------------|--------|--|
| | Assets | Liabilities | Total | |
| Balance at December 31, 2016 | 23,931 | 5,540 | 18,391 | |
| Effect in income statement | (517) | (264) | (253) | |
| Translation adjustment | 145 | 196 | (51) | |
| Other comprehensive income | (86) | (293) | 207 | |
| Balance at June 30, 2017 | 23,473 | 5,179 | 18,294 | |

| | Consolidated | | |
|---|--------------|-------------|---------|
| | Assets | Liabilities | Total |
| Balance at December 31, 2015 | 30,867 | 6,520 | 24,347 |
| Effect in income statement | (5,518) | (213) | (5,305) |
| Transfers between asset and liabilities | 575 | 575 | |
| Translation adjustment | (2,045) | (1,046) | (999) |
| Other comprehensive income | (483) | (255) | (228) |
| Balance at June 30, 2016 | 23,396 | 5,581 | 17,815 |

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:

| | Consolidated | | | |
|--|-----------------------|----------------|---------------------------------|---------|
| | Three month period of | ended June 30, | Six month period ended June 30, | |
| | 2017 | 2016 | 2017 | 2016 |
| Income before income taxes | 401 | 8,329 | 10,816 | 17,991 |
| Income taxes at statutory rates - 34% | (136) | (2,832) | (3,677) | (6,117) |
| Adjustments that affect the basis of taxes: | | | | |
| Income tax benefit from interest on stockholders | | | | |
| equity | 396 | | 793 | |
| Tax incentives | 3 | 336 | 561 | 347 |
| Equity results | (28) | 217 | 49 | 431 |
| Unrecognized tax losses of the period | (297) | (568) | (852) | (1,291) |
| Gain on sale of subsidiaries (note 12) | | | 548 | |
| Other results in associates and joint ventures | | (1,269) | | (1,269) |
| Others | 218 | (502) | 518 | (98) |
| Income taxes | 156 | (4,618) | (2,060) | (7,997) |

Income tax expense is recognized at an amount determined by the estimated tax rate, adjusted for the tax effect of certain items recognized in full in the interim period. Therefore, the effective tax rate in the interim financial statement may differ from management s estimate of the effective tax rate for the annual financial statement.

c) Income taxes - Settlement program (REFIS)

In 2013, the Company elected to participate in the REFIS, a federal tax settlement program, to settle most of the claims related to the collection of income tax and social contribution on equity gains of foreign subsidiaries and associates from 2003 to 2012.

At June 30, 2017, the balance of R\$17,639 (R\$1,556 as current and R\$16,083 as non-current) is due in 136 remaining monthly installments, bearing interest at the SELIC rate of 10.25% per year.

7. Basic and diluted earnings per share

The values of basic and diluted earnings per share are as follows:

| | | Consolida | ited | | |
|---|--------------------|-----------|-----------|---------------------------------|--|
| | Three month period | | • | Six month period ended June 30, | |
| Basic and diluted earnings per share from | 2017 | 2016 | 2017 | 2016 | |
| continuing operations: | | | | | |
| Income available to preferred stockholders | 175 | 1,396 | 3,287 | 3,797 | |
| Income available to common stockholders | 283 | 2,261 | 5,322 | 6,146 | |
| Total | 458 | 3,657 | 8,609 | 9,943 | |
| | | 2,421 | 3,007 | - , | |
| Basic and diluted loss per share from | | | | | |
| discontinued operations: | | | | | |
| Loss available to preferred stockholders | (152) | (27) | (251) | (18) | |
| Loss available to common stockholders | (246) | (45) | (407) | (29) | |
| Total | (398) | (72) | (658) | (47) | |
| Basic and diluted earnings per share: | | | | | |
| Income available to preferred stockholders | 23 | 1,369 | 3,036 | 3,779 | |
| Income available to common stockholders | 37 | 2,216 | 4,915 | 6,117 | |
| Total | 60 | 3,585 | 7,951 | 9,896 | |
| | | | | | |
| Thousands of shares | | | | | |
| Weighted average number of shares outstanding | | | | | |
| - preferred shares | 1,967,722 | 1,967,722 | 1,967,722 | 1,967,722 | |
| Weighted average number of shares outstanding | 2.105.652 | 2 105 652 | 2.105.652 | 2 105 652 | |
| - common shares | 3,185,653 | 3,185,653 | 3,185,653 | 3,185,653 | |
| Total | 5,153,375 | 5,153,375 | 5,153,375 | 5,153,375 | |
| Basic and diluted earnings per share from | | | | | |
| continuing operations: | | | | | |
| Preferred share (R\$) | 0.09 | 0.71 | 1.67 | 1.93 | |
| Common share (R\$) | 0.09 | 0.71 | 1.67 | 1.93 | |
| Basic and diluted loss per share from | | | | | |
| discontinued operations: | | | | | |
| Preferred share (R\$) | (0.08) | (0.01) | (0.13) | (0.01) | |
| Common share (R\$) | (0.08) | (0.01) | (0.13) | (0.01) | |
| Basic and diluted earnings per share: | | | | | |
| Preferred share (R\$) | 0.01 | 0.70 | 1.54 | 1.92 | |
| Common share (R\$) | 0.01 | 0.70 | 1.54 | 1.92 | |

The Company does not hold dilutive potential ordinary shares outstanding that could result in dilution of earnings (loss) per share.

8. Accounts receivable

| | Consolidated | | |
|---|---------------|-------------------|--|
| | June 30, 2017 | December 31, 2016 | |
| Trade receivables | 5,856 | 12,131 | |
| Impairment of trade receivables | (202) | (194) | |
| | 5,654 | 11,937 | |
| | | | |
| Trade receivables related to the steel sector - % | 77.17% | 83.44% | |

| | | Consoli | dated | | |
|---|-----------------------------------|---------|---------------------|---------------------------------|--|
| | Three month period ended June 30, | | Six month period en | Six month period ended June 30, | |
| | 2017 | 2016 | 2017 | 2016 | |
| Impairment of trade receivables recorded in the | | | | | |
| income statement | (14) | | (14) | (8) | |

No individual customer represents over 10% of receivables or revenues.

9. Inventories

| | Consolida | ated |
|----------------------|---------------|-------------------|
| | June 30, 2017 | December 31, 2016 |
| Product inventory | 9,495 | 7,733 |
| Consumable inventory | 3,288 | 3,180 |
| Total | 12,783 | 10,913 |

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

10. Other financial assets and liabilities

| | | Consoli | dated | |
|--|---------------|-------------------|---------------|-------------------|
| | Cu | rrent | Non-C | Current |
| | June 30, 2017 | December 31, 2016 | June 30, 2017 | December 31, 2016 |
| Other financial assets | | | | |
| Financial investments | 35 | 59 | | |
| Loans | | | 597 | 587 |
| Derivative financial instruments (note | | | | |
| 20) | 526 | 892 | 1,639 | 1,454 |
| Related parties (note 25) | 6,694 | 233 | 8,796 | 5 |
| | 7,255 | 1,184 | 11,032 | 2,046 |
| Other financial liabilities | | | | |
| Derivative financial instruments (note | | | | |
| 20) | 1,199 | 1,349 | 3,225 | 3,991 |
| Related parties (note 25) | 1,701 | 2,190 | 3,289 | 415 |
| Participative stockholders debentures | | | 3,886 | 2,526 |
| | 2,900 | 3,539 | 10,400 | 6,932 |

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

| | | | | Consolidated | | | |
|---------------------|-------------|---------------|-------|--------------|----------|----------|-------|
| | | June 30, 2017 | | | December | 31, 2016 | |
| | Fertilizers | Shipping | | Fertilizers | | Shipping | |
| | assets | assets | Total | assets | Nacala | assets | Total |
| Assets | | | | | | | |
| Accounts receivable | 277 | | 277 | 279 | 21 | | 300 |

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| Inventories | 1,497 | | 1,497 | 1,261 | 7 | | 1,268 |
|---------------------------------|--------|-------|--------|--------|--------|-------|--------|
| Other current assets | 339 | | 339 | 348 | 370 | | 718 |
| Investments in associates and | | | | | | | |
| joint ventures | 295 | | 295 | 295 | | | 295 |
| Property, plant and equipment | | | | | | | |
| and Intangible | 8,161 | 1,181 | 9,342 | 8,779 | 13,246 | 1,164 | 23,189 |
| Other non-current assets | 2,904 | | 2,904 | 2,216 | 8 | | 2,224 |
| Total assets | 13,473 | 1,181 | 14,654 | 13,178 | 13,652 | 1,164 | 27,994 |
| | | | | | | | |
| Liabilities | | | | | | | |
| Suppliers and contractors | 791 | | 791 | 913 | 134 | | 1,047 |
| Other current liabilities | 756 | | 756 | 626 | 44 | | 670 |
| Other non-current liabilities | 2,057 | | 2,057 | 1,821 | 16 | | 1,837 |
| Total liabilities | 3,604 | | 3,604 | 3,360 | 194 | | 3,554 |
| Net non-current assets held for | | | | | | | |
| sale | 9,869 | 1,181 | 11,050 | 9,818 | 13,458 | 1,164 | 24,440 |

a) Discontinued operations (Fertilizers assets)

In December 2016, the Company entered into an agreement with The Mosaic Company (Mosaic) to sell (i) the phosphate assets located in Brazil, except those mainly related to nitrogen assets located in Cubatão (Brazil); (ii) the control of Compañia Minera Miski Mayo S.A.C., in Peru; (iii) the potassium assets located in Brazil; and (iv) the potash projects in Canada.

In December 2016, the agreed transaction price was R\$8,270 (US\$2.5 billion), of which R\$4,135 (US\$1.25 billion) will be paid in cash and R\$4,135 (US\$1.25 billion) with 42.3 million common shares to be issued by Mosaic, which at the agreement signature date represented around 11% of Mosaic s total outstanding common shares.

The spin-off of the nitrogen assets located in Cubatão from the remaining Vale Fertilizantes S.A. s assets was concluded in July 2017 (subsequent event). The completion of this milestone was one of the requirement for the conclusion of the transaction which is expected to be completed until the end of 2017 and, still, is subject to the fulfillment of usual precedent conditions, including the approval of the Administrative Council of Economic Defense (CADE) and other antitrust authorities; and other operational and regulatory matters.

The fertilizer segment, including Cubatão, is presented as a discontinued operation and the related assets and liabilities were classified as assets and liabilities held for sale.

On June 30, 2017, the net assets of the fertilizers segment were adjusted to reflect the fair value less cost to sell and a loss of R\$1,205 was recognized in the income statement as Impairment of non-current assets from discontinued operations for the six-month period ended June 30, 2017. The loss derived basically from the variation of the market value of Mosaic shares that will be received on the closing.

The results for the period and the cash flows of discontinued operations of the Fertilizer segment for the period ended June 30, 2017 are presented as follows, and includes the corresponding restated period ended June 30, 2016, as described in note 2(b).

| | | Consolida | ted | | | |
|---|----------------------|----------------|--------------------------------------|---------|--|--|
| | Three month period e | ended June 30, | ie 30, Six month period ended June 3 | | | |
| | 2017 | 2016 | 2017 | 2016 | | |
| Discontinued operations | | | | | | |
| Net operating revenue | 1,291 | 1,627 | 2,453 | 3,120 | | |
| Cost of goods sold and services rendered | (1,194) | (1,689) | (2,260) | (3,087) | | |
| Operating expenses | (110) | (143) | (197) | (224) | | |
| Impairment of non-current assets | (857) | | (1,205) | | | |
| Operating loss | (870) | (205) | (1,209) | (191) | | |
| Financial Results, net | (12) | 53 | (26) | 105 | | |
| Equity results in associates and joint ventures | 1 | 2 | 2 | 5 | | |
| Loss before income taxes | (881) | (150) | (1,233) | (81) | | |
| Income taxes | 493 | 78 | 588 | 54 | | |
| Loss from discontinued operations | (388) | (72) | (645) | (27) | | |
| Net income attributable to noncontrolling interests | 10 | | 13 | 20 | | |
| Loss attributable to Vale s stockholders | (398) | (72) | (658) | (47) | | |

| | | Consolida | ted | |
|---|-----------------------|----------------|---------------------|--------------|
| | Three month period of | ended June 30, | Six month period en | ded June 30, |
| | 2017 | 2016 | 2017 | 2016 |
| Discontinued operations | | | | |
| Cash flow from operating activities | | | | |
| Loss before income taxes | (881) | (150) | (1,233) | (81) |
| Adjustments: | | | | |
| Equity results in associates and joint ventures | (1) | (2) | (2) | (5) |
| Depreciation, amortization and depletion | 3 | 308 | 3 | 569 |
| Impairment of non-current assets | 857 | | 1,205 | |
| Increase (decrease) in assets and liabilities | 26 | (35) | 321 | (351) |
| Net cash provided by operating activities | 4 | 121 | 294 | 132 |

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| Cash flow from investing activities | | | | |
|--|-------|-------|-------|-------|
| Additions to property, plant and equipment | (263) | (246) | (460) | (399) |
| Others | | 37 | | 6 |
| Net cash used in investing activities | (263) | (209) | (460) | (393) |
| | | | | |
| Cash flow from financing activities | | | | |
| Loans and borrowings | | | | |
| Additions (Repayments) | 107 | (12) | (1) | (16) |
| Net cash provided by (used in) financing | | | | |
| activities | 107 | (12) | (1) | (16) |
| Net cash used in discontinued operations | (152) | (100) | (167) | (277) |
| - | | | | |
| | | | | |

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|---|
| |
| |
| 12. Acquisitions and divestitures |
| a) Coal - 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 entity that owns Vale Moçambique, which hold the Moatize Coal Project. |
| In March 2017, the transaction was concluded, and consideration of R\$2,186 (US\$690) was received by Vale. 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. |
| Nacala Logistic Corridor is in negotiations for a project finance, which the completion is expected to occur during the course of 2017. Upon the completion an additional amount of R\$189 (US\$57) will be paid by Mitsui. Mitsui has certain rights, based on the execution of the project finance, to sell their participation in the Moatize Coal Project and Nacala BV, back to Vale, based on the original amounts and the same number of shares. The fair value of these put options is non-significant. |
| 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), from which R\$12,874 (US\$4,063) refers to property, plant and equipment and intangibles; |
| (ii) derecognized R\$44 (US\$14) related to cash and cash equivalents; |
| (iii) recognized a gain of R\$1,576 (US\$504) 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 cumulative translation adjustments to income statements in the amount of R\$34 (US\$11); |
|--|
| The result of the transaction regarding the assets from Nacala s corridor was recognized in the income statement as Impairment and other results on non-current assets . |
| The results of the transaction with the Moatize Coal Project was recognized in Results from operation with noncontrolling interest in the amount of R\$329 (US\$105), 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) and Transactions with noncontrolling stockholders in the amount of R\$799 (US\$255). |
| Due to deconsolidation of Nacala Logistic Corridor, Vale has after the transaction, outstanding loan balances with Nacala BV and Pangea Emirates Ltd stated as Related parties, as described in note 25. The use of proceeds of the project finance is expected to settle part of this debt. |
| b) Floating Transfer Stations (FTS) |
| In June 2017, the Company completed the sale of one of its Floating Transfer Stations in Philippines in the amount of R49$. In this transaction, Vale recognized a loss of R180$ as T Impairment and other results on non-current assets . |

13. Investments in associates and joint ventures

a) Changes during the period

Changes in investments in associates and joint ventures are as follows:

| | | | Consolio | dated | | |
|--------------------------|------------|----------------|----------|------------|----------------|--------|
| | | 2017 | | | 2016 | |
| | Associates | Joint ventures | Total | Associates | Joint ventures | Total |
| Balance at March 31, | 4,619 | 7,684 | 12,303 | 4,978 | 7,113 | 12,091 |
| Additions | | 7 | 7 | | 490 | 490 |
| Translation adjustment | 40 | 30 | 70 | (151) | (55) | (206) |
| Equity results in income | | | | | | |
| statement | 79 | (162) | (83) | 126 | 530 | 656 |
| Equity results from | | | | | | |
| discontinued operations | | | | 2 | | 2 |
| Dividends declared | (109) | (265) | (374) | (15) | (296) | (311) |
| Others | 3 | | 3 | 1 | (2) | (1) |
| Balance at June 30, | 4,632 | 7,294 | 11,926 | 4,941 | 7,780 | 12,721 |

| | | | Consoli | dated | | |
|--------------------------|------------|----------------|---------|------------|----------------|--------|
| | | 2017 | | | | |
| | Associates | Joint ventures | Total | Associates | Joint ventures | Total |
| Balance at January 1st, | 4,683 | 7,363 | 12,046 | 5,166 | 6,315 | 11,481 |
| Additions | | 103 | 103 | | 825 | 825 |
| Translation adjustment | 17 | 14 | 31 | (258) | (109) | (367) |
| Equity results in income | | | | | | |
| statement | 63 | 79 | 142 | 121 | 1,121 | 1,242 |
| Equity results from | | | | | | |
| discontinued operations | | | | 5 | | 5 |
| Dividends declared | (134) | (265) | (399) | (92) | (327) | (419) |
| Others | 3 | | 3 | (1) | (45) | (46) |
| Balance at June 30, | 4,632 | 7,294 | 11,926 | 4,941 | 7,780 | 12,721 |

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

Investments in associates and joint ventures (continued)

| | | | | | Equity results in the income statement Three month periodizement periodizement | | | | l ed onth | donth per sid anotet h period ended | | |
|-------------------------------|-------------|----------|---------------|--------------|--|------|-------|---------------|------------------|--|------|---------------|
| | | % voting | | December 31, | June | 30, | June | e 3 0, | Jun | e 30, | June | e 30 , |
| Associates and joint ventures | % ownership | 8 | June 30, 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 |
| Ferrous minerals | • | , | | | | | | | | | | |
| Baovale Mineração S.A. | 50.00 | 50.00 | 99 | 86 | 6 | | 12 | (3) | | | | |
| Companhia | | | | | | | | | | | | |
| Coreano-Brasileira de | | | | | | | | | | | | |
| Pelotização | 50.00 | 50.00 | 252 | 221 | 41 | 13 | 78 | 34 | | 45 | | 43 |
| Companhia | | | | | | | | | | | | |
| Hispano-Brasileira de | | | | | | | | | | | | |
| Pelotização (i) | 50.89 | 51.00 | 241 | 191 | 35 | 8 | 68 | 23 | 18 | 66 | 18 | 66 |
| Companhia Ítalo-Brasileira | | | | | | | | | | | | |
| de Pelotização (i) | 50.90 | 51.00 | 260 | 223 | 42 | 6 | 63 | 22 | 54 | 33 | 54 | 33 |
| Companhia Nipo-Brasileira | | | | | | | | | | | | |
| de Pelotização (i) | 51.00 | 51.11 | 451 | 353 | 76 | (14) | 145 | 32 | 47 | 71 | 47 | 71 |
| MRS Logística S.A. | 48.16 | 46.75 | 1,662 | 1,592 | 70 | 41 | 118 | 119 | | | | |
| VLI S.A. | 37.60 | 37.60 | 3,154 | 3,158 | 61 | 72 | 21 | 55 | | | | |
| Zhuhai YPM Pellet Co. | 25.00 | 25.00 | 66 | 70 | | | | | | | | |
| | | | 6,185 | 5,894 | 331 | 126 | 505 | 282 | 119 | 215 | 119 | 213 |
| Coal | | | | | | | | | | | | |
| Henan Longyu Energy | | | | | | | | | | | | |
| Resources Co., Ltd. | 25.00 | 25.00 | 995 | 929 | 20 | 1 | 51 | (34) | | | | |
| | | | 995 | 929 | 20 | 1 | 51 | (34) | | | | |
| Base metals | | | | | | | | | | | | |
| Korea Nickel Corp. | 25.00 | 25.00 | 42 | 40 | (1) | 1 | 1 | (6) | | | | |
| | | | 42 | 40 | (1) | 1 | 1 | (6) | | | | |
| Others | | | | | | | | | | | | |
| Aliança Geração de Energia | | | | | | | | | | | | |
| S.A. (i) | 55.00 | 55.00 | 1,907 | 1,896 | 26 | 66 | 47 | 79 | 36 | 77 | 36 | 79 |
| Aliança Norte Energia | | | | | | | | | | | | |
| Participações S.A. (i) | 51.00 | 51.00 | 529 | 483 | 1 | (6) | 11 | (12) | | | | |
| California Steel | | | | | | | | | | | | |
| Industries, Inc. | 50.00 | 50.00 | 651 | 604 | 52 | 19 | 79 | 13 | 43 | | 43 | |
| Companhia Siderúrgica do | | | | | | | | | | | | |
| Pecém | 50.00 | 50.00 | 1,260 | 1,716 | (423) | 397 | (456) | 817 | | | | |
| Mineração Rio Grande do | | | | | | | | | | | | |
| Norte S.A. | 40.00 | 40.00 | 314 | 421 | 4 | 52 | 2 | 124 | 68 | 111 | 68 | 113 |
| Others | | | 43 | 63 | (93) | | (98) | (21) | | | | |
| | | | 4,704 | 5,183 | (433) | 528 | (415) | 1,000 | 147 | 188 | 147 | 192 |
| Total | | | 11,926 | 12,046 | (83) | 656 | 142 | 1,242 | 266 | 403 | 266 | 405 |

(i) Although the Company held majority of the voting capital, the entities are accounted under equity method due to the stockholders agreement where relevant decisions are shared with other parties.

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14. Intangibles

Changes in intangibles are as follows:

| | Goodwill | Concessions | Consolidated Right of use | Software | Total |
|---------------------------|----------|-------------|------------------------------|----------|---------|
| Balance at March 31, 2017 | 9,920 | 11,735 | 472 | 1,021 | 23,148 |
| Additions | ŕ | 467 | | 32 | 499 |
| Disposals | | (5) | | | (5) |
| Amortization | | (129) | (2) | (116) | (247) |
| Translation adjustment | 407 | 17 | 25 | 12 | 461 |
| Balance at June 30, 2017 | 10,327 | 12,085 | 495 | 949 | 23,856 |
| Cost | 10,327 | 16,110 | 762 | 5,119 | 32,318 |
| Accumulated amortization | | (4,025) | (267) | (4,170) | (8,462) |
| Balance at June 30, 2017 | 10,327 | 12,085 | 495 | 949 | 23,856 |

| | | | Consolidated | | |
|---------------------------|----------|-------------|--------------|----------|---------|
| | Goodwill | Concessions | Right of use | Software | Total |
| Balance at March 31, 2016 | 11,014 | 8,378 | 532 | 1,492 | 21,416 |
| Additions | | 1,556 | | 14 | 1,570 |
| Disposals | | (16) | | | (16) |
| Amortization | | (146) | (1) | (141) | (288) |
| Translation adjustment | (681) | (16) | (83) | 18 | (762) |
| Transfers | | 270 | | | 270 |
| Balance at June 30, 2016 | 10,333 | 10,026 | 448 | 1,383 | 22,190 |
| Cost | 10,333 | 13,578 | 711 | 5,071 | 29,693 |
| Accumulated amortization | | (3,552) | (263) | (3,688) | (7,503) |
| Balance at June 30, 2016 | 10,333 | 10,026 | 448 | 1,383 | 22,190 |

| | Goodwill | Concessions | Consolidated Right of use | Software | Total |
|------------------------------|----------|-------------|------------------------------|----------|---------|
| Balance at December 31, 2016 | 10,041 | 10,759 | 480 | 1,115 | 22,395 |
| Additions | | 1,614 | | 58 | 1,672 |
| Disposals | | (7) | | | (7) |
| Amortization | | (284) | (3) | (233) | (520) |
| Translation adjustment | 286 | 3 | 18 | 9 | 316 |
| Balance at June 30, 2017 | 10,327 | 12,085 | 495 | 949 | 23,856 |
| Cost | 10,327 | 16,110 | 762 | 5,119 | 32,318 |
| Accumulated amortization | | (4,025) | (267) | (4,170) | (8,462) |
| Balance at June 30, 2017 | 10,327 | 12,085 | 495 | 949 | 23,856 |

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| | | | Consolidated | | |
|------------------------------|----------|-------------|--------------|----------|---------|
| | Goodwill | Concessions | Right of use | Software | Total |
| Balance at December 31, 2015 | 11,544 | 7,084 | 811 | 1,350 | 20,789 |
| Additions | | 2,976 | 3 | 20 | 2,999 |
| Disposals | | (18) | | (1) | (19) |
| Amortization | | (270) | (5) | (286) | (561) |
| Translation adjustment | (1,211) | (16) | (98) | 12 | (1,313) |
| Transfers | | 270 | (263) | 288 | 295 |
| Balance at June 30, 2016 | 10,333 | 10,026 | 448 | 1,383 | 22,190 |
| Cost | 10,333 | 13,578 | 711 | 5,071 | 29,693 |
| Accumulated amortization | | (3,552) | (263) | (3,688) | (7,503) |
| Balance at June 30, 2016 | 10,333 | 10,026 | 448 | 1,383 | 22,190 |

15. Property, plant and equipment

Changes in property, plant and equipment are as follows:

| | Consolidated Mineral Constructions | | | | | | | |
|------------------------|------------------------------------|----------|------------|-----------|------------|----------|------------------------------|-----------|
| | Land | Building | Facilities | Equipment | properties | Others | Constructions in progress | Total |
| Balance at March 31, | | G | | • • | • • | | • 0 | |
| 2017 | 2,391 | 36,714 | 34,611 | 22,075 | 28,553 | 26,317 | 27,635 | 178,296 |
| Additions (i) | | | | | | | 2,517 | 2,517 |
| Disposals | (1) | (2) | (93) | (12) | (401) | (242) | (33) | (784) |
| Assets retirement | | | | | | | | |
| obligation | | | | | (109) | | | (109) |
| Depreciation, | | | | | | | | |
| amortization and | | | | | | | | |
| depletion | | (384) | (573) | (653) | (508) | (560) | | (2,678) |
| Translation adjustment | 26 | 586 | 483 | 547 | 1,330 | 458 | 149 | 3,579 |
| Transfers | 9 | 1,173 | 766 | 1,399 | 65 | 985 | (4,397) | |
| Balance at June 30, | | | | | | | | |
| 2017 | 2,425 | 38,087 | 35,194 | 23,356 | 28,930 | 26,958 | 25,871 | 180,821 |
| Cost | 2,425 | 59,442 | 56,072 | 41,700 | 55,342 | 40,159 | 25,871 | 281,011 |
| Accumulated | | | | | | | | |
| depreciation | | (21,355) | (20,878) | (18,344) | (26,412) | (13,201) | | (100,190) |
| Balance at June 30, | | | | | | | | |
| 2017 | 2,425 | 38,087 | 35,194 | 23,356 | 28,930 | 26,958 | 25,871 | 180,821 |

| | Consolidated | | | | | | | |
|-------------------------|--------------|----------|------------|-----------|------------|---------|---------------|---------|
| | | D 1111 | F 914 | . | Mineral | 0.0 | Constructions | m . 1 |
| | Land | Building | Facilities | Equipment | properties | Others | in progress | Total |
| Balance at March 31, | | | | | | | | |
| 2016 | 2,922 | 35,026 | 31,007 | 27,348 | 38,926 | 27,206 | 43,713 | 206,148 |
| Additions (i) | | | | | | | 3,845 | 3,845 |
| Disposals | | | (1) | (8) | | (1,175) | (69) | (1,253) |
| Assets retirement | | | | | | | | |
| obligation | | | | | 60 | | | 60 |
| Depreciation, | | | | | | | | |
| amortization and | | | | | | | | |
| depletion | | (405) | (522) | (829) | (799) | (594) | | (3,149) |
| Translation adjustment | (84) | (2,685) | (1,202) | (1,577) | (2,757) | (944) | 1,128 | (8,121) |
| Transfers to | | | | | | | | |
| non-current assets held | | | | | | | | |
| for sale | | | | | | (1,595) | | (1,595) |
| Transfers | 22 | 1,190 | 348 | 689 | 413 | (920) | (2,012) | (270) |

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| Balance at June 30, 2016 | 2,860 | 33,126 | 29,630 | 25,623 | 35,843 | 21,978 | 46,605 | 195,665 |
|-----------------------------|---|----------|------------|-----------|----------------------|----------|---------------|-----------|
| Cost | 2,860 | 51,619 | 48,187 | 45,097 | 60,590 | 33,541 | 46,605 | 288,499 |
| Accumulated | 2,000 | 31,019 | 40,107 | 75,057 | 00,590 | 33,341 | 40,003 | 200,477 |
| depreciation | | (18,493) | (18,557) | (19,474) | (24,747) | (11,563) | | (92,834) |
| Balance at June 30, | | (10,493) | (10,337) | (19,474) | (24,747) | (11,303) | | (92,634) |
| 2016 | 2,860 | 33,126 | 29,630 | 25,623 | 35,843 | 21,978 | 46,605 | 195,665 |
| | | | | | | | | |
| | | | | Cone | solidated | | | |
| | | | | Cons | Mineral | | Constructions | |
| | Land | Building | Facilities | Equipment | properties | Others | in progress | Total |
| Balance at | | G | | • • | • • | | • 0 | |
| December 31, 2016 | 2,360 | 34,790 | 30,866 | 22,141 | 27,312 | 24,494 | 38,653 | 180,616 |
| Additions (i) | | | | | | | 4,098 | 4,098 |
| Disposals | (1) | (2) | (112) | (22) | (401) | (247) | (50) | (835) |
| Assets retirement | | | | | | | | |
| obligation | | | | | 4 | | | 4 |
| Depreciation, | | | | | | | | |
| amortization and | | | | | | | | |
| depletion | | (846) | (1,099) | (1,259) | (990) | (1,104) | | (5,298) |
| Translation adjustment | 12 | 357 | 270 | 238 | 931 | 405 | 23 | 2,236 |
| Transfers | 54 | 3,788 | 5,269 | 2,258 | 2,074 | 3,410 | (16,853) | |
| Balance at June 30, | | | | | | | | |
| 2017 | 2,425 | 38,087 | 35,194 | 23,356 | 28,930 | 26,958 | 25,871 | 180,821 |
| Cost | 2,425 | 59,442 | 56,072 | 41,700 | 55,342 | 40,159 | 25,871 | 281,011 |
| Accumulated | | | | | | | | |
| depreciation | | (21,355) | (20,878) | (18,344) | (26,412) | (13,201) | | (100,190) |
| Balance at June 30, | | | | | | | | |
| 2017 | 2,425 | 38,087 | 35,194 | 23,356 | 28,930 | 26,958 | 25,871 | 180,821 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | Cons | solidated Mineral | | Constructions | |
| | Land | Building | Facilities | Equipment | properties | Others | in progress | Total |
| Balance at | Dana | Dunuing | racinties | Equipment | properties | omers | in progress | Total |
| December 31, 2015 | 2,989 | 35,538 | 32,378 | 28,532 | 40,234 | 28,135 | 43,453 | 211,259 |
| Additions (i) | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 22,223 | 02,070 | 20,202 | 10,201 | 20,100 | 6,964 | 6,964 |
| Disposals | | (2) | (2) | (48) | (11) | (1,208) | (74) | (1,345) |
| Assets retirement | | (-) | (-) | (10) | () | (=,===) | () | (=,= ==) |
| obligation | | | | | 207 | | | 207 |
| Depreciation, | | | | | | | | |
| amortization and | | | | | | | | |
| depletion | | (848) | (1,068) | (1,663) | (1,489) | (1,141) | | (6,209) |
| Transfers to non-current | | | | | | | | |
| assets held for sale | | | | | | (1,595) | | (1,595) |
| Translation adjustment | (137) | (3,640) | (2,213) | (2,782) | (3,878) | (1,419) | 747 | (13,322) |
| Transfers | 8 | 2,077 | 535 | 1,584 | 780 | (794) | (4,485) | (295) |
| Acquisition of | | | | | | | | |
| subsidiary | | 1 | | | | | | 1 |
| Balance at June 30, | | | | | | | | |
| 2016 | 2,860 | 33,126 | 29,630 | 25,623 | 35,843 | 21,978 | 46,605 | 195,665 |
| Cost | 2,860 | 51,619 | 48,187 | 45,097 | 60,590 | 33,541 | 46,605 | 288,499 |
| Accumulated | | | | | | | | |
| depreciation | | (18,493) | (18,557) | (19,474) | (24,747) | (11,563) | | (92,834) |
| Balance at June 30, | | | | | | | | |

35,843

25,623

21,978

46,605

2,860

33,126

29,630

2016

195,665

⁽i) Includes capitalized borrowing costs, see cash flow.

There are no material changes to the net book value of consolidated property, plant and equipment pledged to secure judicial claims and loans and borrowings (note 16(c)) compared to those disclosed in the financial statements as at December 31, 2016.

a) Impairment of non-financial assets

During the quarter Vale placed an underground mine, which is part of Sudbury operations, in Canada, on care and maintenance. Parts of the mine, affected by seismic activity, for which repairs would be uneconomical, are not expected to resume operations in the future, was derecognized from property, plant and equipment. As a result, the Company recognized a loss of R\$438 in the income statement as Impairment and other results on non-current assets . As other parts of the mine are subject to resume operation in the future, a net book value in the amount of R\$768 remains as part of the cost of the mine.

16. 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 | | |
|---|---------------|-------------------|--|
| | June 30, 2017 | December 31, 2016 | |
| Debt contracts in the international markets | 67,734 | 68,863 | |
| Debt contracts in Brazil | 24,407 | 26,701 | |
| Total of loans and borrowings | 92,141 | 95,564 | |
| | | | |
| (-) Cash and cash equivalents | 18,922 | 13,891 | |
| (-) Financial investments | 35 | 59 | |
| Net debt | 73,184 | 81,614 | |

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, part in R\$, indexed to the Brazilian Interbank Interest rate (DI Rate or CDI) and part denominated in US\$, mainly time deposits.

c) Loans and borrowings

i) Total debt

| | Consolidated | | | | | |
|---|---------------|-------------------|---------------|-------------------|--|--|
| | Curren | t liabilities | Non-curre | ent liabilities | | |
| | June 30, 2017 | December 31, 2016 | June 30, 2017 | December 31, 2016 | | |
| Debt contracts in the international markets | | | | | | |
| Floating rates in: | | | | | | |
| US\$ | 975 | 762 | 14,871 | 17,889 | | |
| EUR | | | 755 | 688 | | |
| Fixed rates in: | | | | | | |
| US\$ | | | 46,593 | 42,643 | | |
| EUR | | | 2,831 | 5,157 | | |
| Other currencies | 52 | 55 | 677 | 679 | | |
| Accrued charges | 980 | 990 | | | | |
| - | 2,007 | 1,807 | 65,727 | 67,056 | | |
| Debt contracts in Brazil | | | | | | |
| Floating rates in: | | | | | | |
| R\$, indexed to TJLP, TR, IPCA, IGP-M and | | | | | | |
| CDI | 2,471 | 1,313 | 15,473 | 18,326 | | |
| Basket of currencies and US\$ indexed to | | | | | | |
| LIBOR | 1,190 | 1,117 | 3,422 | 3,962 | | |
| Fixed rates in: | | | | | | |
| R\$ | 229 | 214 | 684 | 703 | | |
| Accrued charges | 926 | 959 | 12 | 107 | | |
| | 4,816 | 3,603 | 19,591 | 23,098 | | |
| | 6,823 | 5,410 | 85,318 | 90,154 | | |
| | · · | · · | · | · · | | |

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

| | Consolidated Principal | | | | | | | | |
|-----------------------|---------------------------|-----------------|-------------|--------|-----------------------|--|--|--|--|
| | | | | | | | | | |
| | | | Development | | Estimated future | | | | |
| | Bank loans | Capital markets | agencies | Total | interest payments (i) | | | | |
| 2017 | 119 | | 1,657 | 1,776 | 5,478 | | | | |
| 2018 | 1,743 | | 3,593 | 5,336 | 5,055 | | | | |
| 2019 | 5,048 | 3,308 | 3,077 | 11,433 | 4,658 | | | | |
| 2020 | 6,153 | 4,410 | 2,630 | 13,193 | 4,162 | | | | |
| 2021 | 3,073 | 4,436 | 2,455 | 9,964 | 3,500 | | | | |
| Between 2022 and 2025 | 4,301 | 11,092 | 3,910 | 19,303 | 9,375 | | | | |
| 2026 onwards | 337 | 28,083 | 798 | 29,218 | 19,614 | | | | |
| | 20,774 | 51,329 | 18,120 | 90,223 | 51,842 | | | | |

⁽i) Estimated future payments of interest, calculated based on interest rate curves and foreign exchange rates applicable as at June 30, 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.

At June 30, 2017, the average annual interest rates by currency are as follows:

| | Consolidated | |
|----------------------|---------------------------|------------|
| Loans and borrowings | Average interest rate (i) | Total debt |
| US\$ | 5.20% | 67,999 |
| R\$ (ii) | 8.81% | 19,762 |
| EUR (iii) | 3.35% | 3,642 |
| Other currencies | 3.12% | 738 |
| | | 92,141 |

⁽i) In order to determine the average interest rate for debt contracts with floating rates, the Company used the rate applicable at June 30, 2017.

⁽ii) R\$ denominated debt that bears interest at IPCA, CDI, TR or TJLP, plus spread. For a total of R\$13,544 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 2.44% 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) Credit and financing lines

| | | | | | Consolidated Available amount |
|-------------------------------|----------------------|--------------------|-------------------------|--------------|----------------------------------|
| Туре | Contractual currency | Date of agreement | Period of the agreement | Total amount | June 30, 2017 |
| Credit lines | currency | 2 are or agreement | ugi comen | | guile 00, 2017 |
| Revolving credit facilities | US\$ | May 2015 | 5 years | 9,925 | 9,925 |
| Revolving credit facilities | US\$ | June 2017 | 5 years | 6,616 | 6,616 |
| Financing lines | | | | | |
| BNDES (i) | R\$ | April 2008 | 10 years | 7,300 | 294 |
| BNDES - CLN 150 | R\$ | September 2012 | 10 years | 3,883 | 20 |
| BNDES - S11D e S11D Logística | R\$ | May 2014 | 10 years | 6,163 | 2,140 |

⁽i) Memorandum of understanding signature date, however term is considered from the signature date of each contract amendment. This credit line supported or supports the pelletizing plant VIII, Onça Puma, Salobo I and II and capital expenditure of Itabira projects.

In June 2017, the Company signed a R\$6,616 (US\$2,000) revolving credit facility, which will be available for five years, to replace the R\$6,616 (US\$2,000) line that was signed in 2013, which was cancelled. In June, 2017, the total available amount in revolving credit facilities remains at R\$16,541 (US\$5,000).

iii) Funding

In February 2017, the Company issued through Vale Overseas Limited guaranteed notes due August 2026 totaling R\$3,308 (US\$1,000). 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) 6.250% notes due 2026 issued on August, 2016.

iv) Guarantees

As at June 30, 2017 and December 31, 2016, loans and borrowings are secured by property, plant and equipment and receivables in the amount of R\$1,221 and R\$1,538, respectively.

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|--|
| |
| |
| The securities issued through Vale s 100%-owned finance subsidiary Vale Overseas Limited are fully and unconditionally guaranteed by Vale. |
| v) 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 and interest coverage. The Company has not identified any instances of noncompliance as at June 30, 2017 and December 31, 2016. |
| vi) Hedge in foreign operations |
| Implementation of net investment hedge |
| As at January 1, 2017, Vale S.A., the functional currency of which 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) for mitigating the foreign exchange risk on financial statements. |
| At June 30, 2017 the carrying value of the designated debts are R\$22,059 (US\$6,668) and R\$2,831 (EUR750). The foreign exchange losses of R\$1,267 and R\$420 (R\$836 and R\$277, net taxes), was recognized in the Cumulative translation adjustments in stockholders equity for the three and six month periods ended June 30, 2017, respectively. This hedge was highly effective throughout the period ended on June 30, 2017. |
| Accounting policy |
| Foreign currency differences arising on the translation of a financial liability designated as a hedge of a net investment in a foreign operation are recognized in other comprehensive income to the extent that the hedge is effective and regardless of whether the net investment is held directly or through an intermediate parent. |
| |

The hedging instrument is accounted for in the same way as a cash flow hedge, i.e. translated at the closing rate with the gain or loss on the effective hedge being recognized in equity. Gains or losses in the reserves will only be realized when the foreign operation is disposed of.

17. Liabilities related to associates and joint ventures

| Refers to the provision to comply with the obligations under the agreement related to | the dam failure of Samarco Mineração S.A. (Samarco), |
|---|--|
| which is a Brazilian joint venture between Vale S.A. and BHP Billiton Brasil Ltda. (| BHPB), as follows: |

a) Framework agreement

On November 5, 2015, Samarco experienced the failure of an iron ore tailings dam (Fundão) in the state of Minas Gerais.

Samarco and its shareholders, Vale S.A. and BHPB, entered into an Agreement (Framework Agreement) on March 2, 2016 with the Brazilian federal government, the two Brazilian states affected by the failure (Espírito Santo and Minas Gerais) and other governmental authorities in order to implement the programs for remediation and compensation of the areas and communities affected by Samarco s dam failure.

The Framework Agreement does not contemplate admission of civil, criminal or administrative liability for the Fundão dam failure.

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

On June 24, 2016, the Renova Foundation (Foundation) was established, under the Framework Agreement, to develop and implement the socio-economic restoration and compensation programs. The Foundation began its operations in August of 2016.

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.

b) Estimates used for the provision

In light of the uncertainties related to the Samarco s future cash flow, Vale S.A. recognized a provision on its interim financial statements as of June 30, 2016, for estimated costs in the amount of R\$3,733 provision, which represents Vale S.A. s best estimate of the obligation to comply with the reparation and compensation programs under the Framework Agreement, equivalent to its 50% equity interest in Samarco.

In August 2016 and January 2017, Samarco issued non-convertible private debentures, which were subscribed equally by Vale S.A., and BHPB, being the resources contributed by Vale S.A., in the first semester of 2017, allocated as follows:

- (i) R\$224, being R\$37 in the second quarter of 2017, used in the reparation programs in accordance with the Framework Agreement, and therefore, applied against the provision mentioned above;
- (ii) R\$292, being R\$101 in the second quarter of 2017, applied by Samarco to fund its working capital, and recognized in Vale's income statement as Impairment and other results in associates and joint ventures.

Vale S.A intends to provide short term credit line of up to R\$251 to support Samarco operations in the second half of 2017, without undertaking an obligation to Samarco. Funds for working capital requirements will be released as needed by the shareholders subject to achieving certain milestone, on the same basis.

As a result of the establishment of the Foundation, most of the reparation and compensation programs were transferred from Samarco. Therefore, Vale S.A. made contributions to the Foundation totaling R\$217 in 2017, being R\$142 in the second quarter of 2017, to be used in the programs in accordance with the Framework Agreement.

As a result of the above mentioned, the movements of the provision in the three and six month periods ended in June 30, 2017 are as follows:

| | 2017 |
|----------------------|-------|
| Balance at March 31, | 3,396 |
| Payments | (179) |
| Interests | 152 |

Balance at June 30, 3,369

| | 2017 |
|-------------------------|-------|
| Balance at January 1st, | 3,511 |
| Payments | (441) |
| Interests | 299 |
| Balance at June 30, | 3,369 |
| | |
| Current liabilities | 975 |
| Non-current liabilities | 2,394 |
| Liabilities | 3,369 |

At each reporting period, Vale S.A. will reassess the key assumptions used by Samarco in the preparation of the projected future cash flows and will adjust the provision, if required.

c) Contingencies related to Samarco accident

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

The federal government, the two Brazilian states affected by the failure (Espirito 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.

On May 5, 2016, the Framework Agreement, which was signed on March 2, 2016, was ratified by the Federal Regional Court (TRF), 1st Region. In June 2016 the Superior Court of Justice (STJ) in Brazil issued an interim order, suspending the decision of TRF, which ratified the Framework Agreement until the final judgments of the claim.

| m | . 1 | | c | | | |
|----------|-----|---|----|----|-----|-----|
| Tal | hI | e | ot | on | ıte | nts |

On August 17, 2016, the TRF of the 1st Region rejected the appeal presented by Samarco, Vale S.A. and BHPB against the interim order, and overruled the judicial decision that ratified the Framework Agreement. This decision of the TRF of the 1st Region, among other measures, confirmed a prior injunction that prohibited 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 ordered a deposit with the court of R\$1.2 billion by January 2017. This R\$1.2 billion cash deposit was provisionally replaced by the guarantees provided for under the agreements with MPF, as detailed in the item (ii) below.

(ii) Public civil lawsuit 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 Fundão dam failure and other emergency measures; (ii) the payment of compensation to the community; and (iii) payments for the collective moral damage. The estimated action value indicated by the Federal Prosecution Office (MPF) is R\$155 billion. The first conciliatory hearing was held on September 13, 2016. On November 21, 2016, the court ordered that the defendants be served, and the defendants submitted their defense.

In January 2017 Samarco, Vale S.A. and BHPB entered into two preliminary agreements with the Federal Prosecutor s Office in Brazil (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 30th, 2017 and now expected to occur by October 30, 2017. This First Agreement establishes a timeline and actions to set the ground for conciliation of two public civil lawsuits which aim to establish socio-economic and socio-environmental remediation and compensation programs for the impacts of the Fundão dam failure, respectively: claim nº 023863-07.2016.4.01.3800, filed by the Federal Prosecutors, as mentioned in this item, and claim nº 0069758-61.2015.4.01.3400, filed by the Federal Government, the states of Minas Gerais and Espírito Santo and other governmental authorities, as mentioned in the item (i) above. Both claims were filed with the 12th Judicial Federal Court of Belo Horizonte and are suspended as requested by the parties.

In addition, the First Agreement provides for: (i) 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 41 programs under the Framework Agreement signed on March 2nd, 2016 by the companies and the Federal Government and the states of Minas Gerais and Espírito Santo and other governmental authorities and (ii) holding at least eleven public hearings, five of which are to be held in Minas Gerais, three in Espírito Santo and the remainder in the indigenous territories of the Krenak, Comboios and Caieiras Velhas, in order to allow these communities to take part in the definition of the content of the Final Agreement.

Samarco, Vale S.A. and BHPB has agreed to provide the 12th Judicial Federal Court of Belo Horizonte with 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. In order to implement the First Agreement, it has been requested that the 12th Judicial Federal Court of Belo Horizonte accept such guarantees until the completion of the negotiations and the signing of the Final Agreement, or until October 30, 2017, whichever comes first; or until the parties reach a new agreement regarding the guarantees. If, by October 30th, the negotiations have not been completed, the Federal Prosecutor s Office may require that the 12th Judicial Federal Court of Belo Horizonte re-institute the order for the deposit of R\$1.2 billion in relation to the R\$20.2 billion public civil action, which is currently suspended. The parties requested the partially ratification of the First Agreement, excluding only the engagement of the socio-economic expert condition.

On March 16, 2017, the 12th Judicial Federal Court of Belo Horizonte partially ratified the First Agreement, being that this decision includes: (i) ratification of the engagement of experts to perform a socio-environmental impact assessment and assessment of programs under the Framework Agreement signed on March 2nd, 2016 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. Parties are still negotiating an agreement regarding the choice of the expert to perform the socio-economic impact assessment.

In addition, the Second Agreement (Second Agreement) was signed, 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.

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| |
| |
| |
| (iii) U.S. Securities class action suits |
| (iii) C.S. Securities class action suits |
| Related to the Vale's American Depositary Receipts |
| On May 2, 2016, 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. |
| In July 2016, Vale S.A. and the individual defendants filed a motion to dismiss the Amended Complaint. |
| 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. |
| Vale S.A. continues to contest the lawsuit and the outstanding points. |
| 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.

| In June 2017, Vale S.A. and the other defendants have jointly filed a Motion to Dismiss the Complaint. |
|---|
| Vale S.A. continues to contest this lawsuit. |
| (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. |
| On November 16, 2016, the judge received the Federal Prosecutors Office criminal lawsuit and determined the summons of all defendants, granting 30 days each to file their defenses, to count from the day they receive the summon. Vale has already been served and its defense was presented in March 3, 2017. |
| On May 8th, 2017, Vale presented its manifestation against the Federal Prosecutors Office dismemberment requests and on June 6th, 2017, the Federal Prosecutors Office presented its reply to the defenses, where it requested for the action to be regularly processed. |
| Currently, the case awaits the judge s decision. |
| (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. |
| These lawsuits and petitions are at early stages, so it is not possible to determine a range of outcomes or reliable estimates of the potential exposure at this time. No contingent liability has been quantified and no provision was recognized for lawsuits related to Samarco's dam failure. |
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18. Financial instruments classification

| | | | Consolidated | | | | | |
|--------------------------------|---|--|--------------|---|---|---------|--|--|
| Financial assets | Loans and receivables or amortized cost | June 30, 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 | | |
| Current | amortizea cost | profit of 1033 | Total | amortized cost | profit of loss | Total | | |
| Cash and cash equivalents | 18,922 | | 18.922 | 13,891 | | 13,891 | | |
| Financial investments | 35 | | 35 | 59 | | 59 | | |
| Derivative financial | | | | | | | | |
| instruments | | 526 | 526 | | 892 | 892 | | |
| Accounts receivable | 5,654 | | 5,654 | 11,937 | | 11,937 | | |
| Related parties | 6,694 | | 6,694 | 233 | | 233 | | |
| | 31,305 | 526 | 31,831 | 26,120 | 892 | 27,012 | | |
| Non-current | | | | | | | | |
| Derivative financial | | | | | | | | |
| instruments | | 1,639 | 1,639 | | 1,454 | 1,454 | | |
| Loans | 597 | | 597 | 587 | | 587 | | |
| Related parties | 8,796 | | 8,796 | 5 | | 5 | | |
| | 9,393 | 1,639 | 11,032 | 592 | 1,454 | 2,046 | | |
| Total of financial assets | 40,698 | 2,165 | 42,863 | 26,712 | 2,346 | 29,058 | | |
| | | | | | | | | |
| Financial liabilities | | | | | | | | |
| Current | 10.000 | | 10.000 | 11.020 | | 11.020 | | |
| Suppliers and contractors | 12,393 | | 12,393 | 11,830 | | 11,830 | | |
| Derivative financial | | 1 100 | 1 100 | | 1 240 | 1 2 4 0 | | |
| instruments | (922 | 1,199 | 1,199 | 5 410 | 1,349 | 1,349 | | |
| Loans and borrowings | 6,823 | | 6,823 | 5,410 | | 5,410 | | |
| Related parties | 1,701 | 1 100 | 1,701 | 2,190 | 1,349 | 2,190 | | |
| Non-current | 20,917 | 1,199 | 22,116 | 19,430 | 1,349 | 20,779 | | |
| Derivative financial | | | | | | | | |
| instruments | | 3,225 | 3,225 | | 3,991 | 3,991 | | |
| Loans and borrowings | 85,318 | 3,223 | 85,318 | 90,154 | 3,991 | 90,154 | | |
| Related parties | 3,289 | | 3,289 | 90,134 | | 415 | | |
| Participative stockholders | 3,209 | | 3,209 | 713 | | 713 | | |
| debentures | | 3,886 | 3,886 | | 2,526 | 2,526 | | |
| accontaines | 88,607 | 7,111 | 95,718 | 90,569 | 6,517 | 97,086 | | |
| Total of financial liabilities | 109,524 | 8,310 | 117,834 | 109,999 | 7,866 | 117,865 | | |

19. Fair value estimate

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

| | Consolidated | | | | | | |
|---------------------------------------|--------------|---------------|-------|---------|-------------------|-------|--|
| | | June 30, 2017 | | D | December 31, 2016 | | |
| | Level 2 | Level 3 | Total | Level 2 | Level 3 | Total | |
| Financial assets | | | | | | | |
| Derivative financial instruments | 935 | 1,230 | 2,165 | 1,319 | 1,027 | 2,346 | |
| Total | 935 | 1,230 | 2,165 | 1,319 | 1,027 | 2,346 | |
| | | | | | | | |
| Financial liabilities | | | | | | | |
| Derivative financial instruments | 2,957 | 1,467 | 4,424 | 3,877 | 1,463 | 5,340 | |
| Participative stockholders debentures | 3,886 | | 3,886 | 2,526 | | 2,526 | |
| Total | 6,843 | 1,467 | 8,310 | 6,403 | 1,463 | 7,866 | |

In June 2017, the Company recognized in the financial results the amount of R\$203 and R\$(4) related to the measurement of the fair value of derivative financial instruments assets and liabilities classified as level 3, respectively.

There were no transfers between Level 1 and Level 2, or between Level 2 and Level 3 in the period ended June 30, 2017.

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.

b) Fair value of financial instruments not measured at fair value

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

| | | Consolida | ited | |
|-----------------------|---------|------------|---------|---------|
| Financial liabilities | Balance | Fair value | Level 1 | Level 2 |
| June 30, 2017 | | | | |
| Debt principal | 90,223 | 90,309 | 50,607 | 39,702 |
| | | | | |
| December 31, 2016 | | | | |
| Debt principal | 93,508 | 89,218 | 45,216 | 44,002 |

Due to the short-term cycle, the fair value of cash and cash equivalents balances, financial investments, accounts receivable and accounts payable approximate their book values.

20. Derivative financial instruments

a) Derivatives effects on statement of financial position

| | | Consolida Assets | | |
|---|---------|---------------------|------------|-------------|
| | June 30 | , 2017 | December 3 | 1, 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 | 318 | 4 | 429 | 3 |
| IPCA swap | 20 | 221 | 22 | 199 |
| Pré-dolar swap | 73 | 33 | 3 | 75 |
| • | 411 | 258 | 454 | 277 |
| Commodities price risk | | | | |
| Nickel | 3 | | 13 | 7 |
| Bunker oil | 112 | | 425 | |
| | 115 | | 438 | 7 |
| | | | | |
| Others | | 1,381 | | 1,170 |
| | | 1,381 | | 1,170 |
| Total | 526 | 1,639 | 892 | 1,454 |
| | | • | | , |
| | | | | |
| | 36 | | | |
| | 30 |) | | |

| | | Consolida Liabiliti | | |
|---|---------|------------------------|----------|-------------|
| | June 30 | 0, 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 | 1,075 | 1,440 | 955 | 2,078 |
| IPCA swap | 65 | 191 | 65 | 186 |
| Eurobonds swap | 16 | 19 | 24 | 147 |
| Euro Forward | | | 149 | |
| Pré-dolar swap | 14 | 97 | 16 | 104 |
| • | 1,170 | 1,747 | 1,209 | 2,515 |
| Commodities price risk | | | | |
| Nickel | | | 16 | 7 |
| Bunker oil | 29 | | 124 | |
| | 29 | | 140 | 7 |
| | | | | |
| Others | | 1,478 | | 1,469 |
| | | 1,478 | | 1,469 |
| Total | 1,199 | 3,225 | 1,349 | 3,991 |

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

| | Gain (loss) reco | tement | Three month peri Financial settler (outflo | nent inflows ws) | Gain (loss) recognized in other comprehensive income | | |
|---|------------------|--------|--|---------------------|--|------|--|
| | 2017 | 2016 | 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 | (303) | 1,491 | 5 | (163) | | | |
| IPCA swap | (60) | 101 | | | | | |
| Eurobonds swap | 97 | (70) | | | | | |
| Euro forward | | (51) | | | | | |
| Pré-dolar swap | (42) | 137 | (4) | (6) | | | |
| - | (308) | 1,608 | 1 | (169) | | | |
| Commodities price risk | | | | | | | |
| Nickel | (11) | (49) | (16) | (35) | | | |
| Bunker oil | (53) | 526 | | (1,032) | | | |
| | (64) | 477 | (16) | (1,067) | | | |
| | | | | | | | |
| Others | 88 | 488 | | | | | |

| Derivatives designated as cash flow hedge accounting | | | | | |
|--|-------|-------|------|---------|---|
| Foreign exchange | | | | | 2 |
| | | | | | 2 |
| Total | (284) | 2,573 | (15) | (1,236) | 2 |
| | | | | | |
| | | | | | |
| | | 37 | | | |
| | | | | | |

| | | | Conso | lidated | | |
|--|--------------------------------|-------|------------------------------|------------------|------|-------------------------------------|
| | | | | d ended June 30, | | |
| | Gain (loss) reco income sta | 0 | Financial settler (outflo | | , , | ecognized in other ensive income |
| | 2017 | 2016 | 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 | 277 | 2,803 | (133) | (338) | | |
| IPCA swap | 16 | 241 | | 5 | | |
| Eurobonds swap | 14 | (30) | (121) | (524) | | |
| Euro forward | 144 | (42) | | | | |
| Pré-dolar swap | 33 | 244 | (4) | (301) | | |
| | 484 | 3,216 | (258) | (1,158) | | |
| Commodities price risk | | | | | | |
| Nickel | (11) | (143) | (20) | (104) | | |
| Bunker oil | (290) | 466 | (75) | (1,737) | | |
| | (301) | 323 | (95) | (1,841) | | |
| | | | | | | |
| Others | 197 | 470 | | | | |
| | | | | | | |
| Derivatives designated as cash flow hedge accounting | | | | | | |
| Bunker oil | | | | (203) | | |
| Foreign exchange | | (10) | | (10) | | 10 |
| - 0 | | (10) | | (213) | | 10 |
| Total | 380 | 3,999 | (353) | (3,212) | | 10 |

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

| | Last maturity dates |
|-------------------------------|---------------------|
| Currencies and interest rates | July 2023 |
| Bunker oil | December 2017 |
| Nickel | August 2019 |
| Others | December 2027 |

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 statistical 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 June 30, 2017. The derivative positions described in this document did not have initial costs associated.

The following tables detail the derivatives positions for Vale and its controlled companies as of June 30, 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) Derivative instruments for the R\$ denominated debt instruments

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 | Notion June 30, Dete m | | (Ih6lex | Average rate | | ir value December 31, 2016 | Financial settlement Inflows (Outflows) June 30, 2017 | Value at Risk June 30, 2017 | | | |
|---|----------------------------------|--------------------------|------------|--------------|---------|-------------------------------|---|--------------------------------|-------|-------|---------|
| CDI vs. US\$ fixed rate swap | | | | | (330) | (396) | 214 | 85 | 126 | (338) | (118) |
| Receivable | R\$ 5,783 R\$ | 6,289 | CDI | 107.29% | | (390) | 214 | 03 | 120 | (336) | (110) |
| Payable | US\$ 1,858 US | | Fix | 3.95% | | | | | | | |
| 1 ayabic | 03\$ 1,030 01 | 3 φ 2 ,103 | 1 17 | 3.73 70 | | | | | | | |
| TJLP vs. US\$ fixed rate swap | | | | | (1,678) | (2,027) | (343) | 188 | (318) | (297) | (1,064) |
| Receivable | | | TJLP | | ()/ | ()- / | () | | () | | () / |
| | R\$ 3,585 R\$ | 4,360 | + | 1.27% | | | | | | | |
| Payable | US\$ 1,623 US | \$\$ 2,030 | Fix | 1.62% | | | | | | | |
| • | | | | | | | | | | | |
| TJLP vs. US\$ floating rate swap | | | | | (185) | (179) | (4) | 15 | (6) | (15) | (164) |
| Receivable | | | TJLP | | (165) | (179) | (4) | 13 | (0) | (13) | (104) |
| Receivable | R\$ 230 R\$ | \$ 242 | + | 0.89% | | | | | | | |
| Payable | US\$ 131 US | | Libor + | -1.22% | | | | | | | |
| | | | | | | | | | | | |
| R\$ fixed rate vs. US\$ fixed rate swap | | | | | (5) | (42) | (4) | 89 | (5) | 52 | (52) |
| Receivable | R\$ 1,198 R\$ | 1,031 | Fix | 7.04% | (5) | () | (-) | O, | (0) | | (02) |
| Payable | US\$ 402 US | | Fix | -1.02% | | | | | | | |
| | | | | | | | | | | | |
| IPCA vs. US\$ fixed rate swap | | | | | (173) | (167) | | 35 | | 21 | (194) |
| Receivable | | | IPCA | | (173) | (107) | | 33 | | 21 | (174) |
| Receivable | R\$ 1,000 R\$ | 1,000 | + | 6.55% | | | | | | | |
| Payable | US\$ 434 US | | Fix | 3.98% | | | | | | | |
| IPCA vs. | | | | | 150 | 107 | | | ((2) | (10) | 221 |
| CDI swap | | | IDC 4 | | 158 | 136 | | 1 | (63) | (10) | 231 |
| Receivable | De 1250 De | 1 250 | IPCA | ((20) | | | | | | | |
| Daviable | R\$ 1,350 R\$ | | + | 6.62% | | | | | | | |
| Payable | R\$ 1,350 R\$ | 1,350 | CDI | 98.59% | | | | | | | |

(ii) Derivative instruments 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 | | tional t änber | · 31, 2 0 1 | đ ex | Average rate | | air value December 31, 2016 | Financial settlement Inflows (Outflows) June 30, 2017 | Value at Risk June 30, 2017 | | oy year 2019+ |
|---|----------------|--------------------------|--------------------|-------------|----------------|------|--------------------------------|---|--------------------------------|------|------------------|
| EUR fixed rate vs. US\$ fixed rate swap | | | | | | (35) | (170) | (22) |) 21 | (16) | (19) |
| Receivable Payable | 500 US\$613 | US\$ | 500 613 | Fix Fix | 3.75% 4.29% | | | | | | |

| | Notional | l] | Bought / | Average rate | Fa | air value | Financial settlement Inflows (Outflows) | Value at Risk | Fair value by year | |
|---------|---------------------------|----------|-----------------|--------------|---------------|-------------------|--|---------------|--------------------|--|
| Flow | June 30 ,02027 nbe | r 31, 20 |)1 6 old | (USD/EUR) | June 30, 2017 | December 31, 2016 | June 30, 2017 | June 30, 2017 | 2017 | |
| _ | | | | | | (4.40) | (0.0) | | | |
| Forward | 0 | 500 | В | 1.143 | | (149) | (99) |) | | |

b) Commodities derivative positions

(i) Bunker Oil purchase cash flows derivatives

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. These transactions are usually executed through forward purchases and zero cost-collars.

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.

| Flow | | onal (ton) December 31, 2016 | 8 | Average strike (US\$/ton) | | air value December 31, 2016 | Financial Settlement Inflows (Outflows) June 30, 2017 | | Fair value by year 2017 |
|-----------------------------|-----------|---------------------------------|---|------------------------------|------|--------------------------------|---|------|-------------------------------|
| Bunker Oil protection | | | | | | | | | |
| Call options | 2,499,996 | 2,856,000 | В | 327 | 113 | 424 | a | 3 36 | 113 |
| Put options | | | | 220 | (30) |) (45) | | 9 | (30) |
| Total | | | | | 83 | 379 | | | 83 |

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

(ii) Derivative instruments for base metals raw materials and products

Derivative instruments 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.

| Flow | Notional (June 30, 2017 Dece | | | Average strike (US\$/ton) | | ir value December 31, 2016 | Financial Settlement Inflows (Outflows) June 30, 2017 | Value at RiFhi June 30, 2017 | | |
|--|----------------------------------|--------|---|------------------------------|-------------------------|-------------------------------|---|---------------------------------|-------------------------|---|
| Fixed prices sales protection | | | | | | | | | | |
| Nickel forwards | 11,941 | 11,615 | В | 9,463 | 1 | (2) | (21) | 11 | (3) | 4 |
| Raw materials purchase protection | | | | | | | | | | |
| Nickel forwards | 814 | 134 | S | 9,020 | (0.9) | 0.4 | 2.1 | 0.8 | (0.9) | |
| Copper forwards Total | 419 | 441 | S | 5,885 | (0.1) (1.0) | | | 0.1 | (0.1) (1.0) | |

c) Silver Wheaton Corp. warrants

The company owns warrants of Silver Wheaton Corp. (SLW), 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 | | al (quantity) December 31, 2016 | 8 | Average strike (US\$/share) | | ir value December 31, 2016 | Financial Settlement Inflows (Outflows) June 30, 2017 | Value at Risk June 30, 2017 | Fair value by year 2023 |
|--------------|------------|------------------------------------|---|--------------------------------|-----|-------------------------------|---|--------------------------------|-------------------------------|
| Call options | 10,000,000 | 10,000,000 | В | 44 | 151 | 144 | | 15 | 151 |

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 | | al (quantity) December 31, 2016 | 0 | Average strike (R\$/share) | | ir value December 31, 2016 | Financial Settlement Inflows (Outflows) June 30, 2017 | Value at Risk June 30, 2017 | Fair value by year 2027 |
|--------------------|---------|------------------------------------|---|-------------------------------|-------|-------------------------------|---|--------------------------------|-------------------------------|
| Conversion options | 140,239 | 140,239 | S | 8,469 | (224) | (236) | | 15 | (224) |

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

The Company entered into a contract that has options related to MBR shares. 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. It this case, the Company could settle through cash or shares. On the other hand, the Company has the right to buy back this non-controlling interest in the subsidiary.

| | | | | | | | Financial Settlement | | Fair value |
|---------|-------------------|-----------------|----------|----------------|---------------|-------------------|----------------------|---------------|------------|
| | Notional (quantit | y, in millions) | Bought / | Average strike | Fa | ir value | Inflows (Outflows) | Value at Risk | by year |
| Flow | June 30, 2017 Dec | ember 31, 2016 | Sold | (R\$/ação) | June 30, 2017 | December 31, 2016 | June 30, 2017 | June 30, 2017 | 2017+ |
| | | | | | | | | | |
| Options | 2,139 | 2,139 | B/S | 1.7 | 570 | 393 | | 38 | 570 |

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.

| | | | | | | | Financial Settlement | | Fair value |
|---------|-------|---------------------------------|---|------------------------------|-------|-------------------------------|-------------------------------------|--------------------------------|-----------------|
| Flow | | onal (ton) December 31, 2016 | 8 | Average strike (US\$/ton) | | ir value December 31, 2016 | Inflows (Outflows) June 30, 2017 | Value at Risk June 30, 2017 | by year 2017 |
| Nickel | | | | | | | | | |
| Forward | 3,062 | 5,626 | S | 9,312 | (3.9) | 1.1 | | | (3.9) |
| Copper | | | | | | | | | |
| Forward | 2,718 | 3,684 | S | 5,652 | 0.4 | 5.0 | | | 0.4 |
| Total | | | | | (3.5) | 6.1 | | 3.9 | (3.5) |

The Company has also a natural gas purchase agreement in which there's 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.

| | | | | | Financial Settlement | | Fair value |
|------|---------------------------------|----------|----------------|---------------------------------|----------------------|---------------|------------|
| | Notional (volume/month) | Bought / | Average strike | Fair value | Inflows (Outflows) | Value at Risk | by year |
| Flow | June 30, 2017 December 31, 2016 | Sold | (US\$/ton) | June 30, 2017 December 31, 2016 | June 30, 2017 | June 30, 2017 | 2017 2018+ |

| Call | | | | | | | | | |
|---------|---------|---------|---|-----|------|-----|---|-----|------|
| options | 746,667 | 746,667 | S | 233 | (11) | (7) | 7 | (0) | (11) |

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 | | al (quantity) December 31, 2016 | | Average strike (R\$/share) | | ir value December 31, 2016 | Financial Settlement Inflows (Outflows) June 30, 2017 | Value at Risk June 30, 2017 | Fair value by year 2018+ |
|---------------|---------------|---------------------------------|---|-------------------------------|-------|-------------------------------|---|--------------------------------|--------------------------------|
| Put option | 1,105,070,863 | 1,105,070,863 | S | 3.07 | (583) | (593) | | 54 | (583) |

For sensitivity analysis of derivative financial instruments, Financial counterparties ratings and market curves, see note 28.

21. Provisions

| | | Consol | lidated | | |
|---|---------------|-------------------|-------------------------|-------------------|--|
| | Current | t liabilities | Non-current liabilities | | |
| | June 30, 2017 | December 31, 2016 | June 30, 2017 | December 31, 2016 | |
| Payroll and related charges | 2,147 | 2,362 | | | |
| Onerous contracts | 185 | 329 | 1,466 | 1,541 | |
| Environment Restoration | 66 | 33 | 298 | 362 | |
| Asset retirement obligations | 124 | 154 | 8,485 | 8,055 | |
| Provisions for litigation (note 22 (a)) | | | 2,457 | 2,734 | |
| Employee postretirement obligations (note | | | | | |
| 23) | 239 | 225 | 7,315 | 6,038 | |
| Provisions | 2,761 | 3,103 | 20,021 | 18,730 | |

22. 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.

Changes in provision for litigation are as follows:

| | | | Consolidated | Environmental | Total of litigation |
|---------------------------|----------------|------------------|------------------|---------------|---------------------|
| | Tax litigation | Civil litigation | Labor litigation | litigation | provision |
| Balance at March 31, 2017 | 711 | 256 | 1,774 | 23 | 2,764 |
| Additions | 7 | 21 | 183 | 2 | 213 |
| Reversals | (41) | (21) | (96) | | (158) |
| Payments | (282) | (3) | (90) | | (375) |
| Indexation and interest | (25) | 7 | 6 | | (12) |
| Translation adjustment | 25 | | | | 25 |
| Balance at June 30, 2017 | 395 | 260 | 1,777 | 25 | 2,457 |

| | | | Consolidated | | |
|----------------------------|----------------|------------------|------------------|--------------------------|-------------------------------|
| | Tax litigation | Civil litigation | Labor litigation | Environmental litigation | Total of litigation provision |
| Balance at March 31, 2016 | 776 | 365 | 1,806 | 82 | 3,029 |
| Additions | 39 | 157 | 199 | 10 | 405 |
| Reversals | (31) | (66) | (100) | (5) | (202) |
| Payments | (88) | (92) | (155) | | (335) |
| Indexation and interest | 10 | (5) | 13 | (3) | 15 |
| Translation adjustment | 34 | | | | 34 |
| Additions and reversals of | | | | | |
| discontinued operations | | | 21 | | 21 |
| Balance at June 30, 2016 | 740 | 359 | 1,784 | 84 | 2,967 |

| | | Consolidated | | | | | | | | |
|------------------------------|----------------|------------------|------------------|--------------------------|-------------------------------|--|--|--|--|--|
| | Tax litigation | Civil litigation | Labor litigation | Environmental litigation | Total of litigation provision | | | | | |
| Balance at December 31, 2016 | 695 | 272 | 1,742 | 25 | 2,734 | | | | | |
| Additions | 11 | 64 | 321 | 10 | 406 | | | | | |
| Reversals | (46) | (86) | (176) | (5) | (313) | | | | | |
| Payments | (277) | (21) | (150) | | (448) | | | | | |
| Indexation and interest | (3) | 31 | 40 | (5) | 63 | | | | | |
| Translation adjustment | 15 | | | | 15 | | | | | |
| Balance at June 30, 2017 | 395 | 260 | 1,777 | 25 | 2,457 | | | | | |

| | | | 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 | 50 | 203 | 364 | 17 | 634 |
| Reversals | (61) | (80) | (163) | (12) | (316) |
| Payments | (356) | (162) | (244) | | (762) |
| Indexation and interest | 33 | 89 | 26 | 1 | 149 |
| Translation adjustment | 21 | | 2 | 1 | 24 |
| Additions and reversals of | | | | | |
| discontinued operations | 1 | | 28 | (1) | 28 |
| Balance at June 30, 2016 | 740 | 359 | 1,784 | 84 | 2,967 |

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 | | |
|--------------------------|---------------|-------------------|--|
| | June 30, 2017 | December 31, 2016 | |
| Tax litigation | 28,054 | 26,995 | |
| Civil litigation | 7,770 | 7,484 | |
| Labor litigation | 7,257 | 7,933 | |
| Environmental litigation | 6,432 | 6,134 | |
| Total | 49,513 | 48,546 | |

- 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, ICMS charges on our own transportation costs and challenges to other tax credits we claimed. The changes reported in the period resulted, mainly, from new proceedings related to PIS, COFINS, ICMS, CFEM; interest and inflation adjustments in the amounts in dispute.
- **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, non-compliance 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 | | |
|--------------------------|---------------|-------------------|--|
| | June 30, 2017 | December 31, 2016 | |
| Tax litigation | 628 | 630 | |
| Civil litigation | 189 | 202 | |
| Labor litigation | 2,248 | 2,251 | |
| Environmental litigation | 42 | 52 | |
| Total | 3,107 | 3,135 | |

d) Others

For contingencies related to Samarco Mineração S.A., see note 17.

23. Employee postretirement obligations

Reconciliation of net liabilities recognized in the statement of financial position

| | Consolidated | | | | | | |
|--|--------------------------|--------------------------------------|----------------|-----------------------------|--------------------------------------|----------------|--|
| | Overfunded pension plans | 2017 Underfunded pension plans | Other benefits | Overfunded pension plans | 2016 Underfunded pension plans | Other benefits | |
| Movements of assets ceiling | | | | | | | |
| Balance at March 31, | 5,269 | | | 4,764 | | | |
| Interest income | 118 | | | 138 | | | |
| Changes on asset ceiling and onerous liability | (599) | | | 541 | | | |
| Balance at June 30, | 4,788 | | | 5,443 | | | |
| , | , | | | , | | | |
| Amount recognized in the statement of financial position | | | | | | | |
| Present value of actuarial | | | | | | | |
| liabilities | (10,902) | (14,898) | (4,789) | (9,873) | (13,045) | (4,487) | |
| Fair value of assets | 15,690 | 12,133 | | 15,316 | 10,384 | | |
| Effect of the asset ceiling | (4,788) | | | (5,443) | | | |
| Liabilities | | (2,765) | (4,789) | | (2,661) | (4,487) | |
| | | | | | | | |
| Current liabilities | | (64) | (175) | | (65) | (183) | |
| Non-current liabilities | | (2,701) | (4,614) | | (2,596) | (4,304) | |
| Liabilities | | (2,765) | (4,789) | | (2,661) | (4,487) | |

| | Consolidated | | | | | | |
|--------------------------|--------------------------|--------------------------------------|----------------|--------------------------|--------------------------------------|----------------|--|
| | Overfunded pension plans | 2017 Underfunded pension plans | Other benefits | Overfunded pension plans | 2016 Underfunded pension plans | Other benefits | |
| Movements of assets | | | | | | | |
| ceiling | | | | | | | |
| Balance at January 1st, | 4,402 | | | 3,754 | | | |
| Interest income | 244 | | | 266 | | | |
| Changes on asset ceiling | | | | | | | |
| and onerous liability | 142 | | | 1,423 | | | |
| Balance at June 30, | 4,788 | | | 5,443 | | | |
| | | | | | | | |

Amount recognized in the statement of financial

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| position | | | | | | |
|-----------------------------|----------|----------|---------|---------|----------|---------|
| Present value of actuarial | | | | | | |
| liabilities | (10,902) | (14,898) | (4,789) | (9,873) | (13,045) | (4,487) |
| Fair value of assets | 15,690 | 12,133 | | 15,316 | 10,384 | |
| Effect of the asset ceiling | (4,788) | | | (5,443) | | |
| Liabilities | | (2,765) | (4,789) | | (2,661) | (4,487) |
| | | | | | | |
| Current liabilities | | (64) | (175) | | (65) | (183) |
| Non-current liabilities | | (2,701) | (4,614) | | (2,596) | (4,304) |
| Liabilities | | (2,765) | (4,789) | | (2,661) | (4,487) |

24. Stockholders equity

a) Share capital

At June 30, 2017 and December 31, 2016, the share capital was R\$77,300 corresponding to 5,244,316,120 shares issued and fully paid without par value.

| | | June 30, 2017 | |
|---|---------------|---------------|----------------|
| Stockholders | ON | PNA | Total |
| Valepar S.A. | 1,716,435,045 | 20,340,000 | 1,736,775,045 |
| Brazilian Government (Golden Share) | | 12 | 12 |
| Foreign investors - ADRs | 769,357,504 | 584,202,865 | 1,353,560,369 |
| FMP - FGTS | 65,855,336 | | 65,855,336 |
| PIBB - Fund | 785,064 | 1,627,176 | 2,412,240 |
| BNDESPar | 206,378,882 | 66,185,272 | 272,564,154 |
| Foreign institutional investors in local market | 273,887,689 | 829,336,231 | 1,103,223,920 |
| Institutional investors | 111,858,158 | 156,477,855 | 268,336,013 |
| Retail investors in Brazil | 41,095,322 | 309,552,515 | 350,647,837 |
| Shares outstanding | 3,185,653,000 | 1,967,721,926 | 5,153,374,926 |
| Shares in treasury | 31,535,402 | 59,405,792 | 90,941,194 |
| Total issued shares | 3,217,188,402 | 2,027,127,718 | 5,244,316,120 |
| | | | |
| Share capital - Amounts per class of shares (in millions) | 47,421 | 29,879 | 77,300 |
| | | | |
| Total authorized shares | 3,600,000,000 | 7,200,000,000 | 10,800,000,000 |

PNA - Preferred shares

ON - Common shares

b) New stockholders agreement

On February 20, 2017 the Company announced that a new shareholders agreement was filed at the Company s headquarters, executed by Litel Participações S.A., Litela Participações S.A., Bradespar S.A., Mitsui & Co., Ltd. and BNDES Participações S.A. BNDESPAR, as shareholders of Valepar S.A. (Valepar), jointly referred to as Shareholders , which entered into force after the expiration of Valepar s Shareholders Agreement

on May 10, 2017.

The Valepar Agreement, along with the standard provisions in connection with voting rights and right of first refusal for the acquisition of the Shareholders shares, provides for the submission to the Company of a proposal for the purpose of enabling the listing of Vale on B3 S.A. New Market segment (Brazil) and making Vale a company without defined control (Proposal).

The transaction envisaged by the Proposal is composed of a series of indivisible and interdependent steps, whose effectiveness is subject to the successful performance of the other steps. The Proposal comprises, beyond the performance of all acts and procedures imposed by the applicable legal provisions and rules:

- (i) Voluntary conversion of Vale class A preferred shares into common shares, based on the conversion rate of 0.9342 common shares for each Vale class A preferred share, based on the average closing price of the common shares and preferred shares over the last 30 trading sessions on the B3 S.A. prior to February 17, 2017 (inclusive), weighted by the volume of shares traded in such trading sessions;
- (ii) Amendment of Vale s bylaws, so as to adjust it, as much as possible, to B3 S.A. New Market segment rules so Vale may be effectively listed on such special segment;
- (iii) The merger of Valepar into Vale at an exchange ratio that contemplates a 10% increase in the number of shares held by the shareholders of Valepar compared to Valepar s current shareholding interest, and represents a dilution of approximately 3% of the shareholding interest held by the other shareholders in Vale.

In line with the provisions of item iii above, Valepar s shareholders will receive 1.2065 Vale common shares for each Valepar share held by them. As a result, Vale will issue 173,543,667 new common shares, all registered and without par value, in favor of Valepar s shareholders. Consequently, Valepar s shareholders will own a total of 1,908,980,340 Vale common shares after the merger of Valepar.

At the General Extraordinary Shareholders Meeting, held on June 27, 2017, all resolutions related to the proposal for corporate restructuring of the Company listed above were approved.

| m | . 1 | | c | | | |
|----------|-----|---|----|----|------|-----|
| Tal | hl | e | ot | on | itei | nts |

The completion of the Voluntary Conversion and, consequently, of the other stages of the transaction which are the object of the Proposal is now subject to the voluntary conversion by at least 54.09% of class A preferred shares, as mentioned in item i above. The conversion period commenced on June 28, 2017 and ends on August 11, 2017, during which the holders may, if they so wish, join the Voluntary Conversion.

On the date of effectiveness of the merger of Valepar into Vale, if the merger is completed, the Shareholders will execute a new shareholders agreement (Vale Agreement) that will bind only 20% of the totality of Vale s common shares, 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.

c) Remuneration to the Company s stockholders

In April 2017, the Annual General Meeting approved the payment of shareholder remuneration for the year of 2016, in the amount of R\$4,667. Accordingly, the amount of R\$2,065 related to the Profit Reserve Additional Remuneration Reserve, that was recorded in December 31, 2016, was used to the payment of dividends in the form of interest on shareholders equity, in addition to the amount of R\$2,602, already recorded in the current liabilities.

25. Related parties

Transactions with related parties are made by the Company at arm's-length, observing the price and usual market conditions and therefore do not generate any undue benefit to their counterparties or loss to the Company. The definition of related party is based on applicable accounting standards and our internal policies, which may be more restrictive than applicable laws and regulations under certain circumstances.

In the normal course of operations, Vale enters into contracts with related parties (associates, joint ventures and stockholders), related to the sale and purchase of products and services, loans, derivatives, leasing of assets, sale of raw material and railway transportation services.

The balances of these related party transactions and their effects on the interim financial statements are as follows:

Consolidated Assets June 30, 2017 December 31, 2016 Cash and Derivative Cash and Derivative financial Related financial Accounts Related cash Accounts cash equivalents instruments receivable parties equivalents instruments receivable parties Banco Bradesco S.A. 691 1,263 1,701 1,056 Banco do Brasil S.A. 3,166 79 186 111 Companhia Coreano-Brasileira de 15 Pelotização 62 Companhia Hispano-Brasileira de 2 Pelotização Companhia Ítalo-Brasileira de Pelotização 27 Companhia Nipo-Brasileira de 47 Pelotização 48 Companhia Siderúrgica do Pecém 157 122 Consórcio de Rebocadores da Baia de 26 32 São Marcos 9 Mitsui & Co., Ltd. 11 78 MRS Logística S.A. 126 Nacala BV (i) 15,117 VLI 26 27 38 64 32 Others 124 74 155 Total 3,857 1,342 342 15,490 1,887 1,167 349 238

⁽i) Refers to the balances after the sale of Nacala Corridor business (note 11).

| | Consolidated Liabilities | | | | | | | |
|----------------------------|--|-----------------------|--------------------|----------------------|--|-----------------------|--------------------|----------------------|
| | | June 30, | 2017 | | | December 3 | 31, 2016 | |
| | Derivative financial instruments | Others liabilities | Related parties | Loans and borrowings | Derivative financial instruments | Others liabilities | Related parties | Loans and borrowings |
| Aliança Geração de | | | | | | | | |
| Energia S.A. | | 205 | | | | 51 | 125 | |
| Banco Bradesco S.A. | 796 | | | | 815 | | | 20 |
| Banco do Brasil S.A. | 122 | | | 7,035 | 147 | | | 8,369 |
| BNDES | 224 | | | 13,620 | 236 | | | 14,444 |
| BNDES Participações S.A. | | | | 1,294 | | | | 1,348 |
| Companhia | | | | | | | | |
| Coreano-Brasileira de | | | | | | | | |
| Pelotização | | 248 | 127 | | | 10 | 192 | |
| Companhia | | | | | | | | |
| Hispano-Brasileira de | | | | | | | | |
| Pelotização | | 202 | 132 | | | 126 | 47 | |
| Companhia Ítalo-Brasileira | | | | | | | | |
| de Pelotização | | 163 | 162 | | | | 323 | |
| Companhia Nipo-Brasileira | | | | | | | | |
| de Pelotização | | 437 | 260 | | | 10 | 477 | |
| Ferrovia Centro-Atlântica | | | | | | | | |
| S.A. | | 3 | 271 | | | | 270 | |
| Mitsui & Co., Ltd. | | 125 | | | | 56 | | |
| MRS Logística S.A. | | 80 | | | | 82 | | |
| Nacala BV (i) | | 355 | | | | | | |
| Pangea Emirates Ltd | | | | | | | | |
| Mitsui (i) | | | 3,748 | | | | | |
| Sumic Nickel Netherland | | | | | | | | |
| B.V | | | | | | | 1,149 | |
| VLI | | 8 | 232 | | | 8 | | |
| Others | | 175 | 58 | | | 130 | 22 | |
| Total | 1,142 | 2,001 | 4,990 | 21,949 | 1,198 | 473 | 2,605 | 24,181 |

 $⁽i)\ Refers\ to\ the\ balances\ after\ the\ sale\ of\ Nacala\ Corridor\ business\ (note\ 11).$

| | Consolidated Three month period ended June 30, | | | | | | |
|---------------------------------|--|-----------|-----------|---------|-----------|-----------|--|
| | | 2017 | | | 2016 | | |
| | Net operating | | | | | | |
| | Net operating | Costs and | Financial | | Costs and | Financial | |
| | revenue | expenses | result | revenue | expenses | result | |
| Aliança Geração de Energia S.A. | 27 | (124) | | | | | |
| Banco Bradesco S.A. (i) | | | 102 | | | 486 | |

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| Banco do Brasil S.A. (i) | | | (437) | | | (166) |
|---|-----|---------|-------|-----|-------|-------|
| Baovale Mineração S.A. | | (15) | | | (18) | |
| BNDES (i) | | | (370) | | | (358) |
| BNDES Participações S.A. (i) | | | (45) | | | (49) |
| Companhia Coreano-Brasileira de | | | | | | |
| Pelotização | | (126) | (4) | | (62) | |
| Companhia Hispano-Brasileira de | | | | | | |
| Pelotização | | (96) | (4) | | (30) | |
| Companhia Ítalo-Brasileira de Pelotização | | (115) | (6) | | (44) | |
| Companhia Nipo-Brasileira de | | | | | | |
| Pelotização | | (215) | (8) | | (70) | |
| Companhia Siderúrgica do Atlântico | | | | | (21) | |
| Companhia Siderúrgica do Pecém | 165 | (130) | | 53 | | |
| Ferrovia Centro-Atlântica S.A. | 38 | (22) | (1) | 40 | (25) | |
| Ferrovia Norte Sul S.A. | 24 | | | 22 | | |
| Mitsui & Co., Ltd. | 113 | (21) | | 147 | | |
| MRS Logística S.A. | | (471) | | | (489) | |
| Nacala BV (i) | | (304) | 214 | | | |
| Pangea Emirates Ltd Mitsui (i) | | | (156) | | | |
| Samarco Mineração S.A. | | | 46 | | | |
| VLI | 199 | | | 246 | (11) | |
| Others | 22 | (3) | (5) | 3 | (30) | |
| Total | 588 | (1,642) | (674) | 511 | (800) | (87) |
| | | | | | | |
| | | 47 | | | | |

| | Consolidated Six month period ended June 30, 2017 2016 | | | | | | | | |
|------------------------------------|--|--------------------|---------------------|-----------------------|--------------------|---------------------|--|--|--|
| | Net operating revenue | Costs and expenses | Financial result | Net operating revenue | Costs and expenses | Financial result | | | |
| Aliança Geração de Energia S.A. | 36 | (196) | | | | | | | |
| Banco Bradesco S.A. (i) | | | 225 | | | 428 | | | |
| Banco do Brasil S.A. (i) | | | (644) | | | (298) | | | |
| Baovale Mineração S.A. | | (26) | | | (30) | | | | |
| BNDES (i) | | | (531) | | | (528) | | | |
| BNDES Participações S.A. (i) | | | (67) | | | (73) | | | |
| California Steel Industries, Inc. | 113 | | | | | | | | |
| Companhia Coreano-Brasileira de | | | | | | | | | |
| Pelotização | | (234) | (9) | | (131) | | | | |
| Companhia Hispano-Brasileira de | | | | | | | | | |
| Pelotização | | (188) | (8) | | (71) | | | | |
| Companhia Ítalo-Brasileira de | | | | | | | | | |
| Pelotização | | (172) | (15) | | (81) | | | | |
| Companhia Nipo-Brasileira de | | | | | | | | | |
| Pelotização | | (408) | (22) | | (197) | | | | |
| Companhia Siderúrgica do Atlântico | | | | | (21) | | | | |
| Companhia Siderúrgica do Pecem | 405 | (279) | | 116 | | | | | |
| Ferrovia Centro-Atlântica S.A. | 63 | (49) | (1) | 69 | (44) | (2) | | | |
| Ferrovia Norte Sul S.A. | 37 | | | 39 | | | | | |
| Mitsui & Co., Ltd. | 206 | (38) | | 226 | | | | | |
| MRS Logística S.A. | | (824) | | | (729) | | | | |
| Nacala BV (i) | | (304) | 214 | | | | | | |
| Pangea Emirates Ltd Mitsui (i) | | | (156) | | | | | | |
| Samarco Mineração S.A. | 45 | | 39 | 1 | | | | | |
| VLI | 417 | | | 467 | (11) | | | | |
| Others | 44 | (8) | (31) | 40 | (65) | | | | |
| Total | 1,366 | (2,726) | (1,006) | 958 | (1,380) | (473) | | | |

⁽i) Does not include exchange rate variation.

26. Commitments

a) Participative stockholders debentures

In April, 2017, the Company approved the semiannual remuneration to stockholders debentures the amount of R\$241.

b) Guarantees provided

As of June 30, 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. totaled R\$1.217 and R\$4,896, respectively and in December 31, 2016 totaled R\$1,176 and R\$4,725, respectively.

27. Select notes to Parent Company information (individual interim information)

a) Investments

| | Parent compa | ny |
|---|--------------|----------|
| | 2017 | 2016 |
| Balance at January 1st, | 107,539 | 127,517 |
| Additions/Capitalizations | 966 | 1,282 |
| Translation adjustment | 2,326 | (14,304) |
| Equity results in income statement | 1,758 | 4,699 |
| Equity results in statement of comprehensive income | (936) | (618) |
| Results from operations with noncontroling interest | (329) | |
| Equity results from discontinued operations | (658) | (47) |
| Dividends declared | (1,586) | (1,157) |
| Others | 813 | (21) |
| Balance at June 30. | 109,893 | 117,351 |

Dividends received by the Parent Company during the period ended at June 30, 2017 were R\$424.

b) Intangible

| | Parent company | | | | | | |
|------------------------------|----------------|--------------|----------|---------|--|--|--|
| | Concessions | Right of use | Software | Total | | | |
| Balance at December 31, 2016 | 10,278 | 118 | 918 | 11,314 | | | |
| Additions | 1,585 | | 57 | 1,642 | | | |
| Disposals | (7) | | | (7) | | | |
| Amortization | (175) | (4) | (204) | (383) | | | |
| Balance at June 30, 2017 | 11,681 | 114 | 771 | 12,566 | | | |
| Cost | 15,178 | 223 | 4,098 | 19,499 | | | |
| Accumulated amortization | (3,497) | (109) | (3,327) | (6,933) | | | |
| Balance at June 30, 2017 | 11,681 | 114 | 771 | 12,566 | | | |

| | Parent company | | | | | | | |
|------------------------------|----------------|--------------|----------|---------|--|--|--|--|
| | Concessions | Right of use | Software | Total | | | | |
| Balance at December 31, 2015 | 7,084 | 123 | 1,350 | 8,557 | | | | |
| Additions | 2,973 | | 18 | 2,991 | | | | |
| Disposals | (18) | | | (18) | | | | |
| Amortization | (258) | (3) | (253) | (514) | | | | |
| Balance at June 30, 2016 | 9,781 | 120 | 1,115 | 11,016 | | | | |
| Cost | 13,151 | 223 | 4,015 | 17,389 | | | | |
| Accumulated amortization | (3,370) | (103) | (2,900) | (6,373) | | | | |
| Balance at June 30, 2016 | 9,781 | 120 | 1,115 | 11,016 | | | | |

c) Property, plant and equipment

| | Parent company Mineral Constructions | | | | | | | |
|----------------------------|--------------------------------------|----------|------------|-----------|--------------------|---------|-------------|----------|
| | Land | Building | Facilities | Equipment | Mineral properties | Others | in progress | Total |
| Balance at December 31, | | J | | • • | • | | • 0 | |
| 2016 | 1,684 | 20,945 | 20,416 | 8,479 | 4,122 | 16,499 | 29,911 | 102,056 |
| Additions (i) | | | | | | | 2,692 | 2,692 |
| Disposals | (1) | | (21) | (16) | | (6) | (31) | (75) |
| Assets retirement | | | | | | | | |
| obligation | | | | | 14 | | | 14 |
| Depreciation, amortization | | | | | | | | |
| and depletion | | (364) | (531) | (572) | (135) | (767) | | (2,369) |
| Transfers | 49 | 3,188 | 4,390 | 1,313 | 1,483 | 2,011 | (12,434) | |
| Balance at June 30, 2017 | 1,732 | 23,769 | 24,254 | 9,204 | 5,484 | 17,737 | 20,138 | 102,318 |
| Cost | 1,732 | 27,977 | 31,063 | 15,478 | 7,073 | 26,617 | 20,138 | 130,078 |
| Accumulated depreciation | | (4,208) | (6,809) | (6,274) | (1,589) | (8,880) | | (27,760) |

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| Balance at June 30, 2017 1 | 1,732 | 23,769 | 24,254 | 9,204 | 5,484 | 17,737 | 20,138 | 102,318 |
|-----------------------------------|-------|--------|--------|-------|-------|--------|--------|---------|
|-----------------------------------|-------|--------|--------|-------|-------|--------|--------|---------|

| | | | | Parent | company | | | |
|----------------------------|-------|----------|------------|-----------|--------------------|---------|---------------------------|----------|
| | Land | Building | Facilities | Equipment | 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) | | | | | | | 3,776 | 3,776 |
| Disposals | | | (1) | (8) | | (22) | (60) | (91) |
| Assets retirement | | | | | | | | |
| obligation | | | | | 144 | | | 144 |
| Depreciation, amortization | | | | | | | | |
| and depletion | | (307) | (468) | (535) | (102) | (654) | | (2,066) |
| Transfers | 8 | 1,281 | (60) | 503 | (68) | (171) | (1,493) | |
| Balance at June 30, 2016 | 1,680 | 20,520 | 18,850 | 8,331 | 4,189 | 13,356 | 31,724 | 98,650 |
| Cost | 1,680 | 23,719 | 25,090 | 13,780 | 5,538 | 20,671 | 31,724 | 122,202 |
| Accumulated depreciation | | (3,199) | (6,240) | (5,449) | (1,349) | (7,315) | | (23,552) |
| Balance at June 30, 2016 | 1,680 | 20,520 | 18,850 | 8,331 | 4,189 | 13,356 | 31,724 | 98,650 |

⁽i) Includes capitalized borrowing costs, see cash flow.

d) Loans and borrowings

| | Parent company | | | | | |
|---|----------------|-------------------|-------------------------|-------------------|--|--|
| | Curren | t liabilities | Non-current liabilities | | | |
| | June 30, 2017 | December 31, 2016 | June 30, 2017 | December 31, 2016 | | |
| Debt contracts in the international | | | | | | |
| markets | | | | | | |
| Floating rates in: | | | | | | |
| US\$ | 656 | 448 | 11,829 | 15,876 | | |
| Fixed rates in: | | | | | | |
| US\$ | | | 4,963 | 4,889 | | |
| EUR | | | 2,831 | 5,158 | | |
| Accrued charges | 300 | 425 | | | | |
| | 956 | 873 | 19,623 | 25,923 | | |
| Debt contracts in Brazil | | | | | | |
| Floating rates in: | | | | | | |
| R\$, indexed to TJLP, TR, IPCA, IGP-M and | | | | | | |
| CDI | 2,213 | 1,059 | 14,697 | 17,307 | | |
| Basket of currencies and US\$ indexed to | | | | | | |
| LIBOR | 1,190 | 1,117 | 3,422 | 3,962 | | |
| Fixed rates in: | | | | | | |
| R\$ | 190 | 190 | 590 | 685 | | |
| Accrued charges | 921 | 932 | | | | |
| | 4,514 | 3,298 | 18,709 | 21,954 | | |
| | 5,470 | 4,171 | 38,332 | 47,877 | | |

The future flows of debt payments (principal) are as follows:

| | Parent company Debt principal |
|-----------------------|----------------------------------|
| 2017 | 1,546 |
| 2018 | 4,656 |
| 2019 | 7,002 |
| 2020 | 7,899 |
| 2021 | 4,934 |
| Between 2022 and 2025 | 10,952 |
| 2026 onwards | 5,592 |
| | 42,581 |

e) Provisions

| | Parent company | | | | | | | |
|-------------------------------------|----------------|-------------------|---------------|-------------------------|--|--|--|--|
| | Curren | t liabilities | Non-cur | Non-current liabilities | | | | |
| | June 30, 2017 | December 31, 2016 | June 30, 2017 | December 31, 2016 | | | | |
| Payroll and related charges | 1,424 | 1,649 | | | | | | |
| Environment Restoration | 47 | 14 | 140 | 200 | | | | |
| Asset retirement obligations | 56 | 71 | 1,615 | 1,571 | | | | |
| Provisions for litigation | | | 1,951 | 1,944 | | | | |
| Employee postretirement obligations | 62 | 58 | 682 | 681 | | | | |
| Provisions | 1.589 | 1.792 | 4.388 | 4.396 | | | | |

f) Provisions for litigation

| | Parent company | | | | | | | |
|------------------------------|----------------|------------------|------------------|--------------------------|-------------------------------|--|--|--|
| | Tax litigation | Civil litigation | Labor litigation | Environmental litigation | Total of litigation provision | | | |
| Balance at December 31, 2016 | 53 | 247 | 1,621 | 23 | 1,944 | | | |
| Additions | 1 | 55 | 306 | 8 | 370 | | | |
| Reversals | | (83) | (167) | (3) | (253) | | | |
| Payments | (6) | (19) | (148) | (1) | (174) | | | |
| Indexation and interest | 3 | 31 | 35 | (5) | 64 | | | |
| Balance at June 30, 2017 | 51 | 231 | 1,647 | 22 | 1,951 | | | |

| | 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 | 17 | 201 | 353 | 7 | 578 | | | |
| Reversals | (41) | (67) | (160) | (11) | (279) | | | |
| Payments | (275) | (161) | (233) | | (669) | | | |
| Indexation and interest | 12 | 92 | 9 | | 113 | | | |
| Balance at June 30, 2016 | 45 | 306 | 1,531 | 51 | 1,933 | | | |

g) Income taxes

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

| | Parent company | | |
|---|---------------------------------|---------|--|
| | Six month period ended June 30, | | |
| | 2017 | 2016 | |
| Income before income taxes | 10,586 | 16,478 | |
| Income taxes at statutory rates - 34% | (3,599) | (5,603) | |
| Adjustments that affect the basis of taxes: | | | |
| Income tax benefit from interest on stockholders equity | 793 | | |
| Tax incentives | 524 | 319 | |
| Equity results | 598 | 1,598 | |
| Others results in associates and joint ventures | | (1,269) | |
| Others | (292) | (1,580) | |
| Income taxes | (1,977) | (6,535) | |

h) Related parties

| | | | | Parent c | | | | |
|----------------------------------|---------------------------------|--|---------------------|-----------------|---------------------------------|--|---------------------|-----------------|
| | | June 30, | 2017 | | December 31, 2016 | | | |
| | Cash and cash equivalents | Derivative financial instruments | Accounts receivable | Related parties | Cash and cash equivalents | Derivative financial instruments | Accounts receivable | Related parties |
| Banco Bradesco S.A. | 110 | 1,263 | | | 67 | 1,056 | | |
| Banco do Brasil S.A. | 2,032 | 79 | | | 8 | 111 | | |
| Biopalma da Amazônia S.A. | | | 1 | 882 | | | 1 | 965 |
| Companhia Coreano-Brasileira de | | | | 62 | | | | 15 |
| Pelotização Companhia | | | | 62 | | | | 15 |
| Hispano-Brasileira de | | | | | | | _ | |
| Pelotização | | | | | | | 2 | |
| Companhia Ítalo-Brasileira de | | | | | | | | |
| Pelotização | | | | | | | | 27 |
| Companhia Nipo-Brasileira de | | | | | | | | |
| Pelotização | | | | 47 | | | | 48 |

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| Total | 2,142 | 1,342 | 14,293 | 2,727 | 75 | 1,167 | 27,806 | 1,649 |
|--|-------|-------|--------|-------|----|-------|--------|-------|
| Others | | | 93 | 77 | | | 172 | 36 |
| VLI | | | 26 | 64 | | | 27 | 38 |
| Vale International S.A. | | | 13,938 | | | | 27,387 | |
| Salobo Metais S.A. | | | 31 | 104 | | | 16 | 104 |
| MRS Logística S.A. | | | | 41 | | | | 30 |
| Reunidas S.A. | | | 53 | | | | 52 | |
| Mineração Corumbaense | | | | | | | | |
| Mineração Brasileiras Reunidas S.A. | | | 4 | 107 | | | 1 | 14 |
| S.A. | | | | 1,226 | | | | 292 |
| Brasileiros de Mineração | | | | | | | | |
| Empreendimentos | | | | | | | | |
| São Marcos | | | 26 | | | | 32 | |
| Consórcio de Rebocadores da Baia de | | | | | | | | |
| do Pecém | | | 118 | | | | 115 | |
| Companhia Siderúrgica | | | | | | | | |
| Baía de Sepetiba | | | 3 | 117 | | | 1 | 80 |
| Companhia Portuária | | | | | | | | |

| m | . 1 | | c | \sim | | | |
|----------|-----|---|----|--------|---|-----|-----|
| Tα | hl | e | Ωt | Cc | n | tei | าts |

Parent company