

Vale S.A.  
Form 6-K  
July 27, 2017  
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**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.

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(Check One) Form 20-F  Form 40-F

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  No

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  No

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  No

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)

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**Vale S.A. Interim Financial Statements**

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<b>KPMG Auditores Independentes</b>	Central 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 interim accounting information included in the aforementioned quarterly information was not prepared, in all material 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 Exchange 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





Table of Contents**Income Statement**

In millions of Brazilian Reais, except earnings per share data

	Notes	Consolidated			
		Three month period ended June 30,		Six month period ended June 30,	
		2017	2016 (i)	2017	2016 (i)
<b>Continuing operations</b>					
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)
<b>Gross profit</b>		<b>6,901</b>	<b>6,474</b>	<b>18,778</b>	<b>11,979</b>
<b>Operating expenses</b>					
Selling and administrative expenses	4(b)	(426)	(449)	(814)	(865)
Research and evaluation expenses		(257)	(257)	(463)	(468)
Pre operating and operational stoppage		(286)	(385)	(650)	(767)
Other operating expenses, net	4(c)	(271)	(503)	(518)	(644)
		<b>(1,240)</b>	<b>(1,594)</b>	<b>(2,445)</b>	<b>(2,744)</b>
Impairment and other results on non-current assets	12 and 15	(726)	(228)	877	(228)
<b>Operating income</b>		<b>4,935</b>	<b>4,652</b>	<b>17,210</b>	<b>9,007</b>
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 and joint ventures	17	(110)	(3,999)	(301)	(3,999)
<b>Income before income taxes</b>		<b>401</b>	<b>8,329</b>	<b>10,816</b>	<b>17,991</b>
<b>Income taxes</b>					
	6				
Current tax		(222)	(1,415)	(1,807)	(2,692)
Deferred tax		378	(3,203)	(253)	(5,305)
		<b>156</b>	<b>(4,618)</b>	<b>(2,060)</b>	<b>(7,997)</b>
<b>Net income from continuing operations</b>		<b>557</b>	<b>3,711</b>	<b>8,756</b>	<b>9,994</b>
Net income attributable to noncontrolling interests		99	54	147	51
<b>Net income from continuing operations attributable to Vale's stockholders</b>		<b>458</b>	<b>3,657</b>	<b>8,609</b>	<b>9,943</b>
<b>Discontinued operations</b>					
	11				
Loss from discontinued operations		(388)	(72)	(645)	(27)
Net income attributable to noncontrolling interests		10		13	20

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<b>Loss from discontinued operations attributable to Vale's stockholders</b>	<b>(398)</b>	<b>(72)</b>	<b>(658)</b>	<b>(47)</b>
<b>Net income</b>	<b>169</b>	<b>3,639</b>	<b>8,111</b>	<b>9,967</b>
Net income attributable to noncontrolling interests	109	54	160	71
<b>Net income attributable to Vale's stockholders</b>	<b>60</b>	<b>3,585</b>	<b>7,951</b>	<b>9,896</b>
<b>Earnings per share attributable to Vale's stockholders:</b>				
<b>Basic and diluted earnings per share:</b>	<b>7</b>			
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.

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

Table of Contents**Income Statement**

In millions of Brazilian Reais, except earnings per share data

	Parent company			
	Three month period ended June 30,		Six month period ended June 30,	
	2017	2016	2017	2016
<b>Continuing operations</b>				
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)
<b>Gross profit</b>	<b>7,164</b>	<b>5,125</b>	<b>16,575</b>	<b>6,327</b>
<b>Operating expenses</b>				
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)
	<b>(2,305)</b>	<b>(71)</b>	<b>393</b>	<b>1,856</b>
Impairment and other results on non-current assets	(27)		(68)	
<b>Operating income</b>	<b>4,832</b>	<b>5,054</b>	<b>16,900</b>	<b>8,183</b>
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)
<b>Income before income taxes</b>	<b>392</b>	<b>8,121</b>	<b>10,586</b>	<b>16,478</b>
<b>Income taxes</b>				
Current tax	166	(1,281)	(1,066)	(2,298)
Deferred tax	(100)	(3,183)	(911)	(4,237)
	<b>66</b>	<b>(4,464)</b>	<b>(1,977)</b>	<b>(6,535)</b>
<b>Net income from continuing operations</b>	<b>458</b>	<b>3,657</b>	<b>8,609</b>	<b>9,943</b>
Loss from discontinued operations	(398)	(72)	(658)	(47)
<b>Net income</b>	<b>60</b>	<b>3,585</b>	<b>7,951</b>	<b>9,896</b>
<b>Earnings per share attributable to Vale's stockholders:</b>				
<b>Basic and diluted earnings per share:</b>				
Preferred share (R\$)	0.01	0.70	1.54	1.92
Common share (R\$)	0.01	0.70	1.54	1.92

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

Table of Contents**Statement of Comprehensive Income**

In millions of Brazilian Reais

	Consolidated			
	Three month period ended		Six month period ended	
	2017	June 30, 2016	2017	June 30, 2016
<b>Net income</b>	<b>169</b>	<b>3,639</b>	<b>8,111</b>	<b>9,967</b>
<b>Other comprehensive income:</b>				
<b>Items that will not be reclassified subsequently to the income statement</b>				
Retirement benefit obligations	(933)	(641)	(1,026)	(972)
Tax recognized within other comprehensive income	289	193	311	297
<b>Total items that will not be reclassified subsequently to the income statement</b>	<b>(644)</b>	<b>(448)</b>	<b>(715)</b>	<b>(675)</b>
<b>Items that may be reclassified subsequently to the income statement</b>				
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)
<b>Total of items that may be reclassified subsequently to the income statement</b>	<b>3,509</b>	<b>(8,014)</b>	<b>1,832</b>	<b>(14,984)</b>
<b>Total comprehensive income (loss)</b>	<b>3,034</b>	<b>(4,823)</b>	<b>9,228</b>	<b>(5,692)</b>
Comprehensive income attributable to noncontrolling interests	275	(434)	192	(901)
<b>Comprehensive income (loss) attributable to Vale's stockholders</b>	<b>2,759</b>	<b>(4,389)</b>	<b>9,036</b>	<b>(4,791)</b>

	Parent company			
	Three month period ended		Six month period ended	
	2017	June 30, 2016	2017	June 30, 2016
<b>Net income</b>	<b>60</b>	<b>3,585</b>	<b>7,951</b>	<b>9,896</b>
<b>Other comprehensive income:</b>				
<b>Items that will not be reclassified subsequently to the income statement</b>				
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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<b>Total items that will not be reclassified subsequently to the income statement</b>	<b>(644)</b>	<b>(448)</b>	<b>(715)</b>	<b>(675)</b>
<b>Items that may be reclassified subsequently to the income statement</b>				
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	
<b>Total of items that may be reclassified subsequently to the income statement</b>	<b>3,343</b>	<b>(7,526)</b>	<b>1,800</b>	<b>(14,012)</b>
<b>Total comprehensive income (loss)</b>	<b>2,759</b>	<b>(4,389)</b>	<b>9,036</b>	<b>(4,791)</b>

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

Table of Contents**Statement of Cash Flows**

In millions of Brazilian Reais

	Consolidated			
	Three month period ended June 30,		Six month period ended June 30,	
	2017	2016 (i)	2017	2016 (i)
<b>Cash flow from operating activities:</b>				
Income before income taxes from continuing operations	401	8,329	10,816	17,991
<b>Continuing operations adjustments for:</b>				
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)
<b>Changes in assets and liabilities:</b>				
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
	<b>13,157</b>	<b>10,516</b>	<b>25,927</b>	<b>13,208</b>
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)
<b>Net cash provided by operating activities from continuing operations</b>	<b>11,082</b>	<b>7,286</b>	<b>20,384</b>	<b>5,193</b>
Net cash provided by operating activities from discontinued operations	4	121	294	132
<b>Net cash provided by operating activities</b>	<b>11,086</b>	<b>7,407</b>	<b>20,678</b>	<b>5,325</b>
<b>Cash flow from investing activities:</b>				
Financial investments redeemed (invested)	115	(384)	(52)	(6)
Loans and advances - Net receipts (payments)	(314)		(769)	(15)
Additions to investments	(1,081)	(476)	(1,110)	(838)
Additions to property, plant and equipment and intangible (note 3(b))	(2,852)	(4,078)	(6,339)	(9,279)
Proceeds from disposal of assets and investments (note 12)	28	40	1,642	87
Dividends and interest on capital received from associates and joint ventures	266	403	266	405
Others investments activities	(64)	(75)	(68)	(163)
<b>Net cash used in investing activities from continuing operations</b>	<b>(3,902)</b>	<b>(4,570)</b>	<b>(6,430)</b>	<b>(9,809)</b>



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Net cash used in investing activities from discontinued operations	(263)	(209)	(460)	(393)
<b>Net cash used in investing activities</b>	<b>(4,165)</b>	<b>(4,779)</b>	<b>(6,890)</b>	<b>(10,202)</b>
<b>Cash flow from financing activities:</b>				
<b>Loans and borrowings</b>				
Additions	963	5,005	4,539	17,955
Repayments	(5,899)	(6,215)	(9,432)	(10,934)
<b>Transactions with stockholders:</b>				
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)
<b>Net cash provided by (used in) financing activities from continuing operations</b>	<b>(9,610)</b>	<b>(1,462)</b>	<b>(8,777)</b>	<b>6,683</b>
Net cash provided by (used in) financing activities from discontinued operations	107	(12)	(1)	(16)
<b>Net cash provided by (used in) financing activities</b>	<b>(9,503)</b>	<b>(1,474)</b>	<b>(8,778)</b>	<b>6,667</b>
<b>Increase (decrease) in cash and cash equivalents</b>	<b>(2,582)</b>	<b>1,154</b>	<b>5,010</b>	<b>1,790</b>
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)	
<b>Cash and cash equivalents at end of the period</b>	<b>18,922</b>	<b>13,377</b>	<b>18,922</b>	<b>13,377</b>
<b>Non-cash transactions:</b>				
Additions to property, plant and equipment - capitalized loans and borrowing costs	265	749	587	1,439

(i) Period restated according to Note 11.

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

Table of Contents**Statement of Cash Flows**

In millions of Brazilian Reais

	Parent company	
	Six month period ended June 30,	
	2017	2016
<b>Cash flow from operating activities:</b>		
Income before income taxes from continuing operations	10,586	16,478
<b>Continuing operations adjustments for:</b>		
Equity results in associates, subsidiaries and joint ventures	(1,758)	(4,699)
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)
<b>Changes in assets and liabilities:</b>		
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
	<b>29,562</b>	<b>11,512</b>
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		59
Income taxes	(678)	(81)
Income taxes - Settlement program	(750)	(681)
<b>Net cash provided by operating activities</b>	<b>24,803</b>	<b>7,173</b>
<b>Cash flow from investing activities:</b>		
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)
<b>Net cash used in investing activities</b>	<b>(4,794)</b>	<b>(7,239)</b>
<b>Cash flow from financing activities:</b>		
<b>Loans and borrowings</b>		
Additions	6,742	6,315
Repayments	(19,414)	(6,750)
<b>Transactions with stockholders:</b>		
Dividends and interest on capital paid to noncontrolling interest	(4,660)	

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

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

Table of Contents**Statement of Financial Position**

In millions of Brazilian Reais

		Consolidated		Parent company	
	Notes	June 30, 2017	December 31, 2016	June 30, 2017	December 31, 2016
<b>Assets</b>					
<b>Current assets</b>					
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
		<b>51,050</b>	<b>45,553</b>	<b>28,460</b>	<b>37,319</b>
Non-current assets held for sale	11	14,654	27,994	8,808	8,936
		<b>65,704</b>	<b>73,547</b>	<b>37,268</b>	<b>46,255</b>
<b>Non-current assets</b>					
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
		<b>42,904</b>	<b>34,092</b>	<b>22,524</b>	<b>22,999</b>
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
		<b>259,507</b>	<b>249,149</b>	<b>247,301</b>	<b>243,908</b>
<b>Total assets</b>		<b>325,211</b>	<b>322,696</b>	<b>284,569</b>	<b>290,163</b>
<b>Liabilities</b>					
<b>Current liabilities</b>					
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		
Liabilities related to associates and joint ventures	17	975	951	975	951
Provisions	21	2,761	3,103	1,589	1,792
Dividends and interest on capital			2,602		2,602
Others		2,581	2,921	1,231	353

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		<b>31,405</b>	<b>33,056</b>	<b>24,643</b>	<b>29,713</b>
Liabilities associated with non-current assets held for sale	11	3,604	3,554		
		<b>35,009</b>	<b>36,610</b>	<b>24,643</b>	<b>29,713</b>
<b>Non-current liabilities</b>					
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
		<b>151,590</b>	<b>152,384</b>	<b>126,043</b>	<b>133,209</b>
<b>Total liabilities</b>		<b>186,599</b>	<b>188,994</b>	<b>150,686</b>	<b>162,922</b>
<b>Stockholders equity</b>					
	24				
Equity attributable to Vale's stockholders		133,883	127,241	133,883	127,241
Equity attributable to noncontrolling interests		4,729	6,461		
<b>Total stockholders equity</b>		<b>138,612</b>	<b>133,702</b>	<b>133,883</b>	<b>127,241</b>
<b>Total liabilities and stockholders equity</b>		<b>325,211</b>	<b>322,696</b>	<b>284,569</b>	<b>290,163</b>

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

Table of Contents**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	Total stockholders equity
<b>Balance at December 31, 2016</b>	77,300	50	(1,870)	13,698	(2,746)	(3,739)	44,548		127,241	6,461	133,702
<b>Net income</b>								7,951	7,951	160	8,162
<b>Other comprehensive income:</b>											
Retirement benefit obligations						(715)			(715)		(715)
Net investments hedge							(277)		(277)		(277)
Translation adjustments						(30)	2,107		2,077	32	2,107
<b>Transactions with stockholders:</b>											
Dividends and interest on capital of Vale s stockholders				(2,065)					(2,065)		(2,065)
Dividends of noncontrolling interest										(336)	(336)
Acquisitions and disposal of participation of noncontrolling interest (note 12)			(329)						(329)	(1,672)	(2,001)
Capitalization of noncontrolling interest advances										84	84
<b>Balance at June 30, 2017</b>	77,300	50	(2,199)	11,633	(2,746)	(4,484)	46,378	7,951	133,883	4,729	138,612

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	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	Total stockholders' equity
<b>Balance at December 31, 2015</b>	<b>77,300</b>	<b>50</b>	<b>(1,881)</b>	<b>3,846</b>	<b>(2,746)</b>	<b>(3,873)</b>	<b>58,464</b>		<b>131,160</b>	<b>8,259</b>	<b>139,419</b>
<b>Net income</b>								<b>9,896</b>	<b>9,896</b>	<b>71</b>	<b>9,967</b>
<b>Other comprehensive income:</b>											
Retirement benefit obligations						(675)			(675)		(675)
Cash flow hedge Translation adjustments						26			26		26
						453	(14,491)		(14,038)	(972)	(15,057)
<b>Transactions with stockholders:</b>											
Dividends of noncontrolling interest										(641)	(641)
Acquisitions and disposal of participation of noncontrolling interest (note 12)			4						4		4
Capitalization of noncontrolling interest advances										61	61
<b>Balance at June 30, 2016</b>	<b>77,300</b>	<b>50</b>	<b>(1,877)</b>	<b>3,846</b>	<b>(2,746)</b>	<b>(4,069)</b>	<b>43,973</b>	<b>9,896</b>	<b>126,373</b>	<b>6,778</b>	<b>133,151</b>

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

Table of Contents**Value Added Statement**

In millions of Brazilian Reais

Generation of value added from continuing operations	Consolidated		Parent company	
	2017	Six month period ended June 30, 2016 (i)	2017	2016
<b>Gross revenue</b>				
Revenue from products and services	50,800	42,771	33,172	20,715
Results on measurement or sale of non-current assets	868	(228)	(68)	
Revenue from the construction of own assets	3,144	6,829	2,875	5,275
Allowance for doubtful accounts	(14)	(4)	6	
Other revenues	264	264	195	125
<b>Less:</b>				
Acquisition of products	(1,027)	(835)	(343)	(347)
Material, service and maintenance	(12,423)	(15,157)	(8,165)	(9,650)
Oil and gas	(1,967)	(2,144)	(1,348)	(1,337)
Energy	(1,434)	(1,147)	(674)	(489)
Freight	(4,566)	(4,052)	(42)	(24)
Impairment of non-current assets and other results	(292)	(3,999)	(292)	(3,999)
Impairment of discontinued operations			(658)	
Other costs and expenses	(3,051)	(2,727)	(427)	(478)
<b>Gross value added</b>	<b>30,302</b>	<b>19,571</b>	<b>24,231</b>	<b>9,791</b>
Depreciation, amortization and depletion	(5,758)	(5,998)	(2,693)	(2,398)
<b>Net value added</b>	<b>24,544</b>	<b>13,573</b>	<b>21,538</b>	<b>7,393</b>
<b>Received from third parties:</b>				
Equity results from entities	142	1,242	1,758	4,699
Equity results from discontinued operations				(47)
Financial income	571	329	212	169
Monetary and exchange variation of assets	156	(7,037)	18	(7,181)
<b>Total value added from continuing operations to be distributed</b>	<b>25,413</b>	<b>8,107</b>	<b>23,526</b>	<b>5,033</b>
Value added from discontinued operations to be distributed	251	843		
<b>Total value added to be distributed</b>	<b>25,664</b>	<b>8,950</b>	<b>23,526</b>	<b>5,033</b>
Personnel	3,651	3,628	1,720	1,377
Taxes and contributions	4,247	3,665	3,045	3,232
Current income tax	1,807	2,692	1,066	2,298
Deferred income tax	253	5,305	911	4,237
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)
Other remunerations of third party funds	873	784	1,659	1,536
Reinvested net income	7,951	9,896	7,951	9,896
Net income attributable to noncontrolling interest	147	51		



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<b>Distributed value added from continuing operations</b>	<b>25,413</b>	<b>8,107</b>	<b>23,526</b>	<b>5,033</b>
Distributed value added from discontinued operations	251	843		
<b>Distributed value added</b>	<b>25,664</b>	<b>8,950</b>	<b>23,526</b>	<b>5,033</b>

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(i) Period restated according to Note 11.

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

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**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**

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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:

	Closing rate		Average rate for the			
	December 31,		Three month period ended		Six month period ended	
	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.

Table of Contents**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.

	<b>Consolidated</b>						
	<b>Three month period ended June 30, 2017</b>						
	<b>Net operating revenue</b>	<b>Cost of goods sold and services rendered</b>	<b>Sales, administrative and other operating expenses</b>	<b>Research and evaluation</b>	<b>Pre operating and operational stoppage</b>	<b>Dividends received from associates and joint ventures</b>	<b>Adjusted LAJIDA (EBITDA)</b>
<b>Ferrous minerals</b>							
Iron ore	11,484	(6,104)	(299)	(72)	(130)		4,879
Iron ore Pellets	4,285	(2,293)	(33)	(16)	(4)	119	2,058
Ferrous alloys and manganese	373	(258)	(8)		(3)		104
Other ferrous products and services	394	(246)	41	(2)	(1)		186
	<b>16,536</b>	<b>(8,901)</b>	<b>(299)</b>	<b>(90)</b>	<b>(138)</b>	<b>119</b>	<b>7,227</b>

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

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Consolidated Three month period ended June 30, 2016							
	Net operating revenue	Cost of goods sold and services rendered	Sales, administrative and other operating expenses	Research and evaluation	Pre operating and operational stoppage	Dividends received from associates and joint ventures	Adjusted LAJIDA (EBITDA)
<b>Ferrous minerals</b>							
Iron ore	12,263	(5,767)	(525)	(58)	(120)		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 services	364	(224)	(8)	(1)	(4)		127
	<b>15,890</b>	<b>(7,789)</b>	<b>(596)</b>	<b>(72)</b>	<b>(165)</b>	<b>213</b>	<b>7,481</b>
<b>Coal</b>	<b>511</b>	<b>(831)</b>	<b>(29)</b>	<b>(10)</b>	<b>(30)</b>		<b>(389)</b>
<b>Base metals</b>							
Nickel and other products	3,682	(2,719)	(18)	(76)	(89)		780
Copper	1,393	(832)	(32)	(3)			526
	<b>5,075</b>	<b>(3,551)</b>	<b>(50)</b>	<b>(79)</b>	<b>(89)</b>		<b>1,306</b>
<b>Others</b>	<b>100</b>	<b>(197)</b>	<b>(166)</b>	<b>(96)</b>	<b>(1)</b>	<b>190</b>	<b>(170)</b>
<b>Total of continuing operations</b>	<b>21,576</b>	<b>(12,368)</b>	<b>(841)</b>	<b>(257)</b>	<b>(285)</b>	<b>403</b>	<b>8,228</b>
<b>Discontinued operations (Fertilizers)</b>							
	<b>1,627</b>	<b>(1,388)</b>	<b>(102)</b>	<b>(19)</b>	<b>(15)</b>	<b>10</b>	<b>113</b>
<b>Total</b>	<b>23,203</b>	<b>(13,756)</b>	<b>(943)</b>	<b>(276)</b>	<b>(300)</b>	<b>413</b>	<b>8,341</b>

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)
<b>Ferrous minerals</b>							
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 products and services	789	(485)	27	(3)	(1)		327
	<b>36,934</b>	<b>(16,586)</b>	<b>(352)</b>	<b>(152)</b>	<b>(278)</b>	<b>119</b>	<b>19,685</b>
<b>Coal</b>	2,564	(1,759)	(72)	(21)	(15)		697
<b>Base metals</b>							
Nickel and other products	6,809	(5,352)	(234)	(65)	(157)		1,001
Copper	3,086	(1,515)	(24)	(12)			1,535
	<b>9,895</b>	<b>(6,867)</b>	<b>(258)</b>	<b>(77)</b>	<b>(157)</b>		<b>2,536</b>
Others	712	(714)	(489)	(211)	(6)	147	(561)
<b>Total of continuing operations</b>	<b>50,105</b>	<b>(25,926)</b>	<b>(1,171)</b>	<b>(461)</b>	<b>(456)</b>	<b>266</b>	<b>22,357</b>
<b>Discontinued operations</b>							
(Fertilizers)	2,453	(2,260)	(111)	(16)	(67)		(1)
<b>Total</b>	<b>52,558</b>	<b>(28,186)</b>	<b>(1,282)</b>	<b>(477)</b>	<b>(523)</b>	<b>266</b>	<b>22,356</b>

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	Consolidated Six month period ended June 30, 2016						
	Net operating revenue	Cost of goods sold and services rendered	Sales, administrative and other operating expenses	Research and evaluation	Pre operating and operational stoppage	Dividends received from associates and joint ventures	Adjusted LAJIDA (EBITDA)
<b>Ferrous minerals</b>							
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
	<b>30,517</b>	<b>(14,927)</b>	<b>(1,229)</b>	<b>(117)</b>	<b>(319)</b>	<b>213</b>	<b>14,138</b>
<b>Coal</b>	<b>1,110</b>	<b>(1,964)</b>	<b>162</b>	<b>(18)</b>	<b>(37)</b>		<b>(747)</b>
<b>Base metals</b>							
Nickel and other products	7,565	(5,692)	(107)	(132)	(213)	1	1,422
Copper	2,764	(1,579)	(27)	(5)			1,153
	<b>10,329</b>	<b>(7,271)</b>	<b>(134)</b>	<b>(137)</b>	<b>(213)</b>	<b>1</b>	<b>2,575</b>
<b>Others</b>	<b>194</b>	<b>(372)</b>	<b>(144)</b>	<b>(196)</b>	<b>(1)</b>	<b>191</b>	<b>(328)</b>
<b>Total of continuing operations</b>	<b>42,150</b>	<b>(24,534)</b>	<b>(1,345)</b>	<b>(468)</b>	<b>(570)</b>	<b>405</b>	<b>15,638</b>
<b>Discontinued operations</b>							
(Fertilizers)	3,120	(2,530)	(142)	(40)	(30)	10	388
<b>Total</b>	<b>45,270</b>	<b>(27,064)</b>	<b>(1,487)</b>	<b>(508)</b>	<b>(600)</b>	<b>415</b>	<b>16,026</b>

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
<b>Net income from continuing operations</b>	<b>557</b>	<b>3,711</b>	<b>8,756</b>	<b>9,994</b>
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)
<b>LAJIDA (EBITDA)</b>	<b>7,649</b>	<b>4,254</b>	<b>22,809</b>	<b>12,248</b>
<b>Items to reconciled LAJIDA (EBITDA) adjusted</b>				
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
<b>Adjusted LAJIDA (EBITDA) from continuing operations</b>	<b>8,834</b>	<b>8,228</b>	<b>22,357</b>	<b>15,638</b>

**From Discontinued operations**

	Consolidated		Consolidated	
	Three month period ended June 30,		Six month period ended June 30,	
	2017	2016	2017	2016
<b>Loss from discontinued operations</b>	<b>(388)</b>	<b>(72)</b>	<b>(645)</b>	<b>(27)</b>
Depreciation, depletion and amortization	3	308	3	569
Income taxes	(493)	(78)	(588)	(54)
Financial results, net	12	(53)	26	(105)
<b>LAJIDA (EBITDA)</b>	<b>(866)</b>	<b>105</b>	<b>(1,204)</b>	<b>383</b>
<b>Items to reconciled LAJIDA (EBITDA) adjusted</b>				
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
<b>Adjusted LAJIDA (EBITDA) from discontinued operations</b>	<b>(10)</b>	<b>113</b>	<b>(1)</b>	<b>388</b>

Table of Contents**b) Assets by segment**

	Consolidated							
	June 30, 2017			Three month period ended		June 30, 2017		Six month period ended
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
<b>Total</b>	<b>9,495</b>	<b>11,926</b>	<b>204,677</b>	<b>2,852</b>	<b>2,907</b>	<b>6,339</b>		<b>5,758</b>

	Consolidated							
	December 31, 2016			Three month period ended		June 30, 2016		Six month period ended
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	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
<b>Total</b>	<b>7,733</b>	<b>12,046</b>	<b>203,011</b>	<b>4,078</b>	<b>2,945</b>	<b>9,279</b>		<b>5,998</b>

(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.

(ii) Includes only cash effect.

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

**c) Net operating revenue by geographic area**

**Consolidated**  
**Three month period ended June 30, 2017**

	<b>Ferrous minerals</b>	<b>Coal</b>	<b>Base metals</b>	<b>Others</b>	<b>Total</b>
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
<b>Net operating revenue</b>	<b>16,536</b>	<b>1,544</b>	<b>4,873</b>	<b>410</b>	<b>23,363</b>

**Consolidated**  
**Three month period ended June 30, 2016**

	<b>Ferrous minerals</b>	<b>Coal</b>	<b>Base metals</b>	<b>Others</b>	<b>Total</b>
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
<b>Net operating revenue</b>	<b>15,890</b>	<b>511</b>	<b>5,075</b>	<b>100</b>	<b>21,576</b>

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**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
<b>Net operating revenue</b>	<b>36,934</b>	<b>2,564</b>	<b>9,895</b>	<b>712</b>	<b>50,105</b>

**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
<b>Net operating revenue</b>	<b>30,517</b>	<b>1,110</b>	<b>10,329</b>	<b>194</b>	<b>42,150</b>

**4. Costs and expenses by nature****a) Cost of goods sold and services rendered**

	<b>Consolidated</b>			
	<b>Three month period ended June 30,</b>		<b>Six month period ended June 30,</b>	
	<b>2017</b>	<b>2016</b>	<b>2017</b>	<b>2016</b>
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
<b>Total</b>	<b>16,462</b>	<b>15,102</b>	<b>31,327</b>	<b>30,171</b>
Cost of goods sold	15,960	14,691	30,387	29,344
Cost of services rendered	502	411	940	827
<b>Total</b>	<b>16,462</b>	<b>15,102</b>	<b>31,327</b>	<b>30,171</b>

b) Selling and administrative expenses

	Consolidated			
	Three month period ended June 30, 2017	Three month period ended June 30, 2016	Six month period ended June 30, 2017	Six month period ended June 30, 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
<b>Total</b>	<b>426</b>	<b>449</b>	<b>814</b>	<b>865</b>

Table of Contents**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
<b>Total</b>	<b>271</b>	<b>503</b>	<b>518</b>	<b>644</b>

**5. Financial result**

	Consolidated			
	Three month period ended June 30,		Six month period ended June 30,	
	2017	2016	2017	2016
<b>Financial expenses</b>				
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)
	<b>(5,823)</b>	<b>(6,280)</b>	<b>(10,724)</b>	<b>(13,185)</b>
<b>Financial income</b>				
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
	<b>1,482</b>	<b>13,300</b>	<b>4,489</b>	<b>24,926</b>
<b>Financial results, net</b>	<b>(4,341)</b>	<b>7,020</b>	<b>(6,235)</b>	<b>11,741</b>
<b>Summary of indexation and exchange rate variation</b>				
Loans and borrowings	(2,356)	9,509	(754)	19,101
Others	424	(3,075)	(436)	(7,179)
<b>Net (a) + (b)</b>	<b>(1,932)</b>	<b>6,434</b>	<b>(1,190)</b>	<b>11,922</b>

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:

	Assets	Consolidated Liabilities	Total
<b>Balance at March 31, 2017</b>	<b>22,582</b>	<b>5,314</b>	<b>17,268</b>
Effect in income statement	202	(176)	378
Translation adjustment	438	323	115
Other comprehensive income	251	(282)	533
<b>Balance at June 30, 2017</b>	<b>23,473</b>	<b>5,179</b>	<b>18,294</b>

	Assets	Consolidated Liabilities	Total
<b>Balance at March 31, 2016</b>	<b>27,317</b>	<b>6,467</b>	<b>20,850</b>
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
<b>Balance at June 30, 2016</b>	<b>23,396</b>	<b>5,581</b>	<b>17,815</b>

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

	Assets	Consolidated Liabilities	Total
<b>Balance at December 31, 2015</b>	<b>30,867</b>	<b>6,520</b>	<b>24,347</b>
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)
<b>Balance at June 30, 2016</b>	<b>23,396</b>	<b>5,581</b>	<b>17,815</b>

**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		Consolidated	
	Three month period ended June 30, 2017	2016	Six month period ended June 30, 2017	2016
<b>Income before income taxes</b>	<b>401</b>	<b>8,329</b>	<b>10,816</b>	<b>17,991</b>
<b>Income taxes at statutory rates - 34%</b>	<b>(136)</b>	<b>(2,832)</b>	<b>(3,677)</b>	<b>(6,117)</b>
<b>Adjustments that affect the basis of taxes:</b>				
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)
<b>Income taxes</b>	<b>156</b>	<b>(4,618)</b>	<b>(2,060)</b>	<b>(7,997)</b>

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.

Table of Contents**7. Basic and diluted earnings per share**

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

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

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

**8. Accounts receivable**

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

	Consolidated			
	Three month period ended June 30, 2017	June 30, 2016	Six month period ended June 30, 2017	June 30, 2016
Impairment of trade receivables recorded in the income statement	(14)		(14)	(8)

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

Table of Contents**9. Inventories**

	Consolidated	
	June 30, 2017	December 31, 2016
Product inventory	9,495	7,733
Consumable inventory	3,288	3,180
<b>Total</b>	<b>12,783</b>	<b>10,913</b>

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

**10. Other financial assets and liabilities**

	Consolidated			
	June 30, 2017	Current December 31, 2016	June 30, 2017	Non-Current December 31, 2016
<b>Other financial assets</b>				
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
	<b>7,255</b>	<b>1,184</b>	<b>11,032</b>	<b>2,046</b>
<b>Other financial liabilities</b>				
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
	<b>2,900</b>	<b>3,539</b>	<b>10,400</b>	<b>6,932</b>

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

	Consolidated						
	Fertilizers assets	June 30, 2017 Shipping assets	Total	Fertilizers assets	December 31, 2016		Total
					Nacala	Shipping assets	
<b>Assets</b>							
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
<b>Total assets</b>	<b>13,473</b>	<b>1,181</b>	<b>14,654</b>	<b>13,178</b>	<b>13,652</b>	<b>1,164</b>	<b>27,994</b>
<b>Liabilities</b>							
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
<b>Total liabilities</b>	<b>3,604</b>		<b>3,604</b>	<b>3,360</b>	<b>194</b>		<b>3,554</b>
<b>Net non-current assets held for sale</b>	<b>9,869</b>	<b>1,181</b>	<b>11,050</b>	<b>9,818</b>	<b>13,458</b>	<b>1,164</b>	<b>24,440</b>

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 Companhia 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 requirements 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.

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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).

	Consolidated			
	Three month period ended June 30, 2017	2016	Six month period ended June 30, 2017	2016
<b>Discontinued operations</b>				
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)	
<b>Operating loss</b>	<b>(870)</b>	<b>(205)</b>	<b>(1,209)</b>	<b>(191)</b>
Financial Results, net	(12)	53	(26)	105
Equity results in associates and joint ventures	1	2	2	5
<b>Loss before income taxes</b>	<b>(881)</b>	<b>(150)</b>	<b>(1,233)</b>	<b>(81)</b>
Income taxes	493	78	588	54
<b>Loss from discontinued operations</b>	<b>(388)</b>	<b>(72)</b>	<b>(645)</b>	<b>(27)</b>
Net income attributable to noncontrolling interests	10		13	20
<b>Loss attributable to Vale's stockholders</b>	<b>(398)</b>	<b>(72)</b>	<b>(658)</b>	<b>(47)</b>

	Consolidated			
	Three month period ended June 30, 2017	2016	Six month period ended June 30, 2017	2016
<b>Discontinued operations</b>				
<b>Cash flow from operating activities</b>				
Loss before income taxes	(881)	(150)	(1,233)	(81)
<b>Adjustments:</b>				
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)
<b>Net cash provided by operating activities</b>	<b>4</b>	<b>121</b>	<b>294</b>	<b>132</b>

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

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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;



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(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 R\$49. In this transaction, Vale recognized a loss of R\$180 as Impairment and other results on non-current assets .

Table of Contents**13. Investments in associates and joint ventures****a) Changes during the period**

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

	Consolidated					
	2017			2016		
	Associates	Joint ventures	Total	Associates	Joint ventures	Total
<b>Balance at March 31,</b>	<b>4,619</b>	<b>7,684</b>	<b>12,303</b>	<b>4,978</b>	<b>7,113</b>	<b>12,091</b>
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)
<b>Balance at June 30,</b>	<b>4,632</b>	<b>7,294</b>	<b>11,926</b>	<b>4,941</b>	<b>7,780</b>	<b>12,721</b>

	Consolidated					
	2017			2016		
	Associates	Joint ventures	Total	Associates	Joint ventures	Total
<b>Balance at January 1st,</b>	<b>4,683</b>	<b>7,363</b>	<b>12,046</b>	<b>5,166</b>	<b>6,315</b>	<b>11,481</b>
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)
<b>Balance at June 30,</b>	<b>4,632</b>	<b>7,294</b>	<b>11,926</b>	<b>4,941</b>	<b>7,780</b>	<b>12,721</b>

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



Table of Contents**Investments in associates and joint ventures (continued)**

Associates and joint ventures	% ownership	% voting capital	Consolidated									
			Investments in associates and joint ventures		Equity results in the income statement				Dividends received			
			June 30, 2017	December 31, 2016	Three month period ended		Six month period ended		Three month period ended		Six month period ended	
					June 30,	June 30,	June 30,	June 30,	June 30,	June 30,		
					2017	2016	2017	2016	2017	2016	2017	2016
<b>Ferrous minerals</b>												
Baovale Mineração S.A. Companhia Coreano-Brasileira de Pelotização	50.00	50.00	99	86	6		12	(3)				
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								
			<b>6,185</b>	<b>5,894</b>	<b>331</b>	<b>126</b>	<b>505</b>	<b>282</b>	<b>119</b>	<b>215</b>	<b>119</b>	<b>213</b>
<b>Coal</b>												
Henan Longyu Energy Resources Co., Ltd.	25.00	25.00	995	929	20	1	51	(34)				
			<b>995</b>	<b>929</b>	<b>20</b>	<b>1</b>	<b>51</b>	<b>(34)</b>				
<b>Base metals</b>												
Korea Nickel Corp.	25.00	25.00	42	40	(1)	1	1	(6)				
			<b>42</b>	<b>40</b>	<b>(1)</b>	<b>1</b>	<b>1</b>	<b>(6)</b>				
<b>Others</b>												
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)				
			<b>4,704</b>	<b>5,183</b>	<b>(433)</b>	<b>528</b>	<b>(415)</b>	<b>1,000</b>	<b>147</b>	<b>188</b>	<b>147</b>	<b>192</b>
<b>Total</b>			<b>11,926</b>	<b>12,046</b>	<b>(83)</b>	<b>656</b>	<b>142</b>	<b>1,242</b>	<b>266</b>	<b>403</b>	<b>266</b>	<b>405</b>

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(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.

Table of Contents**14. Intangibles**

Changes in intangibles are as follows:

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

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

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

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	Goodwill	Concessions	Consolidated Right of use	Software	Total
<b>Balance at December 31, 2015</b>	<b>11,544</b>	<b>7,084</b>	<b>811</b>	<b>1,350</b>	<b>20,789</b>
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
<b>Balance at June 30, 2016</b>	<b>10,333</b>	<b>10,026</b>	<b>448</b>	<b>1,383</b>	<b>22,190</b>
Cost	10,333	13,578	711	5,071	29,693
Accumulated amortization		(3,552)	(263)	(3,688)	(7,503)
<b>Balance at June 30, 2016</b>	<b>10,333</b>	<b>10,026</b>	<b>448</b>	<b>1,383</b>	<b>22,190</b>

Table of Contents**15. Property, plant and equipment**

Changes in property, plant and equipment are as follows:

	Land	Building	Facilities	Equipment	Consolidated Mineral properties	Others	Constructions in progress	Total
<b>Balance at March 31, 2017</b>	<b>2,391</b>	<b>36,714</b>	<b>34,611</b>	<b>22,075</b>	<b>28,553</b>	<b>26,317</b>	<b>27,635</b>	<b>178,296</b>
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)	
<b>Balance at June 30, 2017</b>	<b>2,425</b>	<b>38,087</b>	<b>35,194</b>	<b>23,356</b>	<b>28,930</b>	<b>26,958</b>	<b>25,871</b>	<b>180,821</b>
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)
<b>Balance at June 30, 2017</b>	<b>2,425</b>	<b>38,087</b>	<b>35,194</b>	<b>23,356</b>	<b>28,930</b>	<b>26,958</b>	<b>25,871</b>	<b>180,821</b>

	Land	Building	Facilities	Equipment	Consolidated Mineral properties	Others	Constructions in progress	Total
<b>Balance at March 31, 2016</b>	<b>2,922</b>	<b>35,026</b>	<b>31,007</b>	<b>27,348</b>	<b>38,926</b>	<b>27,206</b>	<b>43,713</b>	<b>206,148</b>
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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<b>Balance at June 30, 2016</b>	<b>2,860</b>	<b>33,126</b>	<b>29,630</b>	<b>25,623</b>	<b>35,843</b>	<b>21,978</b>	<b>46,605</b>	<b>195,665</b>
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)
<b>Balance at June 30, 2016</b>	<b>2,860</b>	<b>33,126</b>	<b>29,630</b>	<b>25,623</b>	<b>35,843</b>	<b>21,978</b>	<b>46,605</b>	<b>195,665</b>

	Land	Building	Facilities	Equipment	Consolidated Mineral properties	Others	Constructions in progress	Total
<b>Balance at December 31, 2016</b>	<b>2,360</b>	<b>34,790</b>	<b>30,866</b>	<b>22,141</b>	<b>27,312</b>	<b>24,494</b>	<b>38,653</b>	<b>180,616</b>
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)	
<b>Balance at June 30, 2017</b>	<b>2,425</b>	<b>38,087</b>	<b>35,194</b>	<b>23,356</b>	<b>28,930</b>	<b>26,958</b>	<b>25,871</b>	<b>180,821</b>
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)
<b>Balance at June 30, 2017</b>	<b>2,425</b>	<b>38,087</b>	<b>35,194</b>	<b>23,356</b>	<b>28,930</b>	<b>26,958</b>	<b>25,871</b>	<b>180,821</b>

	Land	Building	Facilities	Equipment	Consolidated Mineral properties	Others	Constructions in progress	Total
<b>Balance at December 31, 2015</b>	<b>2,989</b>	<b>35,538</b>	<b>32,378</b>	<b>28,532</b>	<b>40,234</b>	<b>28,135</b>	<b>43,453</b>	<b>211,259</b>
Additions (i)							6,964	6,964
Disposals		(2)	(2)	(48)	(11)	(1,208)	(74)	(1,345)
Assets retirement 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
<b>Balance at June 30, 2016</b>	<b>2,860</b>	<b>33,126</b>	<b>29,630</b>	<b>25,623</b>	<b>35,843</b>	<b>21,978</b>	<b>46,605</b>	<b>195,665</b>
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)
<b>Balance at June 30, 2016</b>	<b>2,860</b>	<b>33,126</b>	<b>29,630</b>	<b>25,623</b>	<b>35,843</b>	<b>21,978</b>	<b>46,605</b>	<b>195,665</b>

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

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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.

Table of Contents**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
<b>Total of loans and borrowings</b>	<b>92,141</b>	<b>95,564</b>
(-) Cash and cash equivalents	18,922	13,891
(-) Financial investments	35	59
<b>Net debt</b>	<b>73,184</b>	<b>81,614</b>

**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			
	Current liabilities		Non-current liabilities	
	June 30, 2017	December 31, 2016	June 30, 2017	December 31, 2016
<b>Debt contracts in the international markets</b>				
<b>Floating rates in:</b>				
US\$	975	762	14,871	17,889
EUR			755	688
<b>Fixed rates in:</b>				
US\$			46,593	42,643
EUR			2,831	5,157
Other currencies	52	55	677	679
<b>Accrued charges</b>	<b>980</b>	<b>990</b>		
	<b>2,007</b>	<b>1,807</b>	<b>65,727</b>	<b>67,056</b>
<b>Debt contracts in Brazil</b>				
<b>Floating rates in:</b>				
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
<b>Fixed rates in:</b>				
R\$	229	214	684	703
<b>Accrued charges</b>	<b>926</b>	<b>959</b>	<b>12</b>	<b>107</b>
	<b>4,816</b>	<b>3,603</b>	<b>19,591</b>	<b>23,098</b>
	<b>6,823</b>	<b>5,410</b>	<b>85,318</b>	<b>90,154</b>

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

	Principal			Consolidated	Estimated future interest payments (i)
	Bank loans	Capital markets	Development agencies	Total	
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
	<b>20,774</b>	<b>51,329</b>	<b>18,120</b>	<b>90,223</b>	<b>51,842</b>

(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:

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

(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

Type	Contractual currency	Date of agreement	Period of the agreement	Total amount	Consolidated Available amount
					June 30, 2017
<b>Credit lines</b>					
Revolving credit facilities	US\$	May 2015	5 years	9,925	9,925
Revolving credit facilities	US\$	June 2017	5 years	6,616	6,616
<b>Financing lines</b>					
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 Reals, 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.



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**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:

	<b>2017</b>
<b>Balance at March 31,</b>	<b>3,396</b>
Payments	(179)
Interests	152

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

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

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.

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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 n° 023863-07.2016.4.01.3800, filed by the Federal Prosecutors, as mentioned in this item, and claim n° 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 partial 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*

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.

Table of Contents**18. Financial instruments classification**

Financial assets	Loans and receivables or amortized cost	June 30, 2017 At fair value through profit or loss	Consolidated		December 31, 2016 At fair value through profit or loss	Total
			Total	Loans and receivables or amortized cost		
<b>Current</b>						
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
	<b>31,305</b>	<b>526</b>	<b>31,831</b>	<b>26,120</b>	<b>892</b>	<b>27,012</b>
<b>Non-current</b>						
Derivative financial instruments		1,639	1,639		1,454	1,454
Loans	597		597	587		587
Related parties	8,796		8,796	5		5
	<b>9,393</b>	<b>1,639</b>	<b>11,032</b>	<b>592</b>	<b>1,454</b>	<b>2,046</b>
<b>Total of financial assets</b>	<b>40,698</b>	<b>2,165</b>	<b>42,863</b>	<b>26,712</b>	<b>2,346</b>	<b>29,058</b>
<b>Financial liabilities</b>						
<b>Current</b>						
Suppliers and contractors	12,393		12,393	11,830		11,830
Derivative financial instruments		1,199	1,199		1,349	1,349
Loans and borrowings	6,823		6,823	5,410		5,410
Related parties	1,701		1,701	2,190		2,190
	<b>20,917</b>	<b>1,199</b>	<b>22,116</b>	<b>19,430</b>	<b>1,349</b>	<b>20,779</b>
<b>Non-current</b>						
Derivative financial instruments		3,225	3,225		3,991	3,991
Loans and borrowings	85,318		85,318	90,154		90,154
Related parties	3,289		3,289	415		415
Participative stockholders debentures		3,886	3,886		2,526	2,526
	<b>88,607</b>	<b>7,111</b>	<b>95,718</b>	<b>90,569</b>	<b>6,517</b>	<b>97,086</b>
<b>Total of financial liabilities</b>	<b>109,524</b>	<b>8,310</b>	<b>117,834</b>	<b>109,999</b>	<b>7,866</b>	<b>117,865</b>

**19. Fair value estimate**

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

	Consolidated					
	June 30, 2017			December 31, 2016		
	Level 2	Level 3	Total	Level 2	Level 3	Total
<b>Financial assets</b>						
Derivative financial instruments	935	1,230	2,165	1,319	1,027	2,346
<b>Total</b>	<b>935</b>	<b>1,230</b>	<b>2,165</b>	<b>1,319</b>	<b>1,027</b>	<b>2,346</b>
<b>Financial liabilities</b>						
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
<b>Total</b>	<b>6,843</b>	<b>1,467</b>	<b>8,310</b>	<b>6,403</b>	<b>1,463</b>	<b>7,866</b>

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 .



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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:

Financial liabilities	Balance	Consolidated		
		Fair value	Level 1	Level 2
<b>June 30, 2017</b>				
Debt principal	90,223	90,309	50,607	39,702
<b>December 31, 2016</b>				
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

	Consolidated Assets			
	June 30, 2017		December 31, 2016	
	Current	Non-current	Current	Non-current
<b>Derivatives not designated as hedge accounting</b>				
<b>Foreign exchange and interest rate risk</b>				
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
	<b>411</b>	<b>258</b>	<b>454</b>	<b>277</b>
<b>Commodities price risk</b>				
Nickel	3		13	7
Bunker oil	112		425	
	<b>115</b>		<b>438</b>	<b>7</b>
<b>Others</b>		1,381		1,170
		<b>1,381</b>		<b>1,170</b>
<b>Total</b>	<b>526</b>	<b>1,639</b>	<b>892</b>	<b>1,454</b>

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	June 30, 2017		December 31, 2016	
	Current	Non-current	Current	Non-current
<b>Consolidated Liabilities</b>				
<b>Derivatives not designated as hedge accounting</b>				
<b>Foreign exchange and interest rate risk</b>				
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
	<b>1,170</b>	<b>1,747</b>	<b>1,209</b>	<b>2,515</b>
<b>Commodities price risk</b>				
Nickel			16	7
Bunker oil	29		124	
	<b>29</b>		<b>140</b>	<b>7</b>
<b>Others</b>		1,478		1,469
		<b>1,478</b>		<b>1,469</b>
<b>Total</b>	<b>1,199</b>	<b>3,225</b>	<b>1,349</b>	<b>3,991</b>

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

	Gain (loss) recognized in the income statement		Consolidated Three month period ended June 30, Financial settlement inflows (outflows)		Gain (loss) recognized in other comprehensive income	
	2017	2016	2017	2016	2017	2016
<b>Derivatives not designated as hedge accounting</b>						
<b>Foreign exchange and interest rate risk</b>						
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)		
	<b>(308)</b>	<b>1,608</b>	<b>1</b>	<b>(169)</b>		
<b>Commodities price risk</b>						
Nickel	(11)	(49)	(16)	(35)		
Bunker oil	(53)	526		(1,032)		
	<b>(64)</b>	<b>477</b>	<b>(16)</b>	<b>(1,067)</b>		
<b>Others</b>	<b>88</b>	<b>488</b>				

**Derivatives designated as cash flow hedge  
accounting**

Foreign exchange					2
<b>Total</b>	<b>(284)</b>	<b>2,573</b>	<b>(15)</b>	<b>(1,236)</b>	<b>2</b>

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	Gain (loss) recognized in the income statement		Consolidated Six month period ended June 30, Financial settlement inflows (outflows)		Gain (loss) recognized in other comprehensive income	
	2017	2016	2017	2016	2017	2016
<b>Derivatives not designated as hedge accounting</b>						
<b>Foreign exchange and interest rate risk</b>						
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-dólar swap	33	244	(4)	(301)		
	<b>484</b>	<b>3,216</b>	<b>(258)</b>	<b>(1,158)</b>		
<b>Commodities price risk</b>						
Nickel	(11)	(143)	(20)	(104)		
Bunker oil	(290)	466	(75)	(1,737)		
	<b>(301)</b>	<b>323</b>	<b>(95)</b>	<b>(1,841)</b>		
<b>Others</b>	<b>197</b>	<b>470</b>				
<b>Derivatives designated as cash flow hedge accounting</b>						
Bunker oil				(203)		
Foreign exchange		(10)		(10)		10
		<b>(10)</b>		<b>(213)</b>		<b>10</b>
<b>Total</b>	<b>380</b>	<b>3,999</b>	<b>(353)</b>	<b>(3,212)</b>		<b>10</b>

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

	<b>Last maturity dates</b>
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**

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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.

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Flow	Notional				Index	Average rate	Fair value		Financial settlement	Value at Risk			
	June 30, 2017	December 31, 2017	June 30, 2017	December 31, 2016			Inflows (Outflows) June 30, 2017	June 30, 2017	2017	2018	2019+		
<b>CDI vs. US\$ fixed rate swap</b>													
Receivable	R\$ 5,783	R\$ 6,289	CDI	107.29%			(330)	(396)	214	85	126	(338)	(118)
Payable	US\$ 1,858	US\$ 2,105	Fix	3.95%									
<b>TJLP vs. US\$ fixed rate swap</b>													
Receivable			TJLP				(1,678)	(2,027)	(343)	188	(318)	(297)	(1,064)
	R\$ 3,585	R\$ 4,360	+	1.27%									
Payable	US\$ 1,623	US\$ 2,030	Fix	1.62%									
<b>TJLP vs. US\$ floating rate swap</b>													
Receivable			TJLP				(185)	(179)	(4)	15	(6)	(15)	(164)
	R\$ 230	R\$ 242	+	0.89%									
Payable	US\$ 131	US\$ 140	Libor										
			+	-1.22%									
<b>R\$ fixed rate vs. US\$ fixed rate swap</b>													
Receivable	R\$ 1,198	R\$ 1,031	Fix	7.04%			(5)	(42)	(4)	89	(5)	52	(52)
Payable	US\$ 402	US\$ 343	Fix	-1.02%									
<b>IPCA vs. US\$ fixed rate swap</b>													
Receivable			IPCA				(173)	(167)		35		21	(194)
	R\$ 1,000	R\$ 1,000	+	6.55%									
Payable	US\$ 434	US\$ 434	Fix	3.98%									
<b>IPCA vs. CDI swap</b>													
Receivable			IPCA				158	136		1	(63)	(10)	231
	R\$ 1,350	R\$ 1,350	+	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\$.

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

Flow	Notional				Fair value		Financial settlement	Value at Risk	Fair value by year		
	June 30, 2017	December 31, 2016	Index	Average rate	June 30, 2017	December 31, 2016	Inflows (Outflows) June 30, 2017	June 30, 2017	2017	2018	2019+
<b>EUR fixed rate vs. US\$ fixed rate swap</b>											
Receivable	500	500	Fix	3.75%	(35)	(170)	(22)	21	(16)	(19)	
Payable	US\$613	US\$ 613	Fix	4.29%							

Flow	Notional				Fair value		Financial settlement	Value at Risk	Fair value
	June 30, 2017	December 31, 2016	Bought / Sold	Average rate (USD/EUR)	June 30, 2017	December 31, 2016	Inflows (Outflows) June 30, 2017	June 30, 2017	by year 2017
Forward	0	500	B	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	Notional (ton)		Bought / Average strike		Fair value		Financial Settlement	Value at Risk	Fair value
	June 30, 2017	December 31, 2016	Sold	(US\$/ton)	June 30, 2017	December 31, 2016	Inflows (Outflows) June 30, 2017	June 30, 2017	by year 2017
<b>Bunker Oil protection</b>									
Call options	2,499,996	2,856,000	B	327	113	424	3	36	113
Put options	2,499,996	2,856,000	S	220	(30)	(45)		9	(30)
<b>Total</b>					<b>83</b>	<b>379</b>			<b>83</b>

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





Table of Contents**(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 (ton)		Bought / Sold	Average strike (US\$/ton)	Fair value		Financial Settlement Inflows (Outflows) June 30, 2017	Value at Risk / Fair value by year		
	June 30, 2017	December 31, 2016			June 30, 2017	December 31, 2016		June 30, 2017	2017	2018
<b>Fixed prices sales protection</b>										
Nickel forwards	11,941	11,615	B	9,463	1	(2)	(21)	11	(3)	4
<b>Raw materials purchase protection</b>										
Nickel forwards	814	134	S	9,020	(0.9)	0.4	2.1	0.8	(0.9)	
Copper forwards	419	441	S	5,885	(0.1)	(0.5)	(0.7)	0.1	(0.1)	
<b>Total</b>					<b>(1.0)</b>	<b>(0.1)</b>			<b>(1.0)</b>	

**c) Silver Wheaton Corp. warrants**

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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	Notional (quantity)		Bought / Sold	Average strike (US\$/share)	Fair value		Financial Settlement Inflows (Outflows) June 30, 2017	Value at Risk June 30, 2017	Fair value by year 2023
	June 30, 2017	December 31, 2016			June 30, 2017	December 31, 2016			
Call options	10,000,000	10,000,000	B	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	Notional (quantity)		Bought / Sold	Average strike (R\$/share)	Fair value		Financial Settlement Inflows (Outflows) June 30, 2017	Value at Risk June 30, 2017	Fair value by year 2027
	June 30, 2017	December 31, 2016			June 30, 2017	December 31, 2016			
Conversion options	140,239	140,239	S	8,469	(224)	(236)		15	(224)

Table of Contentse) **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. In 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.

Flow	Notional (quantity, in millions)		Bought / Sold	Average strike (R\$/ação)	Fair value		Financial Settlement	Value at Risk	Fair value
	June 30, 2017	December 31, 2016			June 30, 2017	December 31, 2016	Inflows (Outflows) June 30, 2017	June 30, 2017	by year 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.

Flow	Notional (ton)		Bought / Sold	Average strike (US\$/ton)	Fair value		Financial Settlement	Value at Risk	Fair value
	June 30, 2017	December 31, 2016			June 30, 2017	December 31, 2016	Inflows (Outflows) June 30, 2017	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
<b>Total</b>					<b>(3.5)</b>	<b>6.1</b>		<b>3.9</b>	<b>(3.5)</b>

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.

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

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Call options	746,667	746,667	S	233	(11)	(7)	7	(0)	(11)
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In August 2014 the Company sold part of its stake in Valor da Logística Integrada ( VLI ) to an investment fund managed by Brookfield Asset Management ( Brookfield ). The sales contract includes a clause that establishes, under certain conditions, a minimum return guarantee on Brookfield s investment. This clause is considered an embedded derivative, with payoff equivalent to that of a put option.

Flow	Notional (quantity)		Bought / Sold	Average strike (R\$/share)	Fair value		Financial Settlement	Value at Risk	Fair value
	June 30, 2017	December 31, 2016			Inflows (Outflows) June 30, 2017	June 30, 2017	December 31, 2016	June 30, 2017	June 30, 2017
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.

Table of Contents**21. Provisions**

	Consolidated			
	Current 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
<b>Provisions</b>	<b>2,761</b>	<b>3,103</b>	<b>20,021</b>	<b>18,730</b>

**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				Total of litigation provision
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	
<b>Balance at March 31, 2017</b>	<b>711</b>	<b>256</b>	<b>1,774</b>	<b>23</b>	<b>2,764</b>
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
<b>Balance at June 30, 2017</b>	<b>395</b>	<b>260</b>	<b>1,777</b>	<b>25</b>	<b>2,457</b>

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	Consolidated				Total of litigation provision
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	
<b>Balance at March 31, 2016</b>	<b>776</b>	<b>365</b>	<b>1,806</b>	<b>82</b>	<b>3,029</b>
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
<b>Balance at June 30, 2016</b>	<b>740</b>	<b>359</b>	<b>1,784</b>	<b>84</b>	<b>2,967</b>

	Consolidated				Total of litigation provision
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	
<b>Balance at December 31, 2016</b>	<b>695</b>	<b>272</b>	<b>1,742</b>	<b>25</b>	<b>2,734</b>
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
<b>Balance at June 30, 2017</b>	<b>395</b>	<b>260</b>	<b>1,777</b>	<b>25</b>	<b>2,457</b>

	Consolidated				Total of litigation provision
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	
<b>Balance at December 31, 2015</b>	<b>1,052</b>	<b>309</b>	<b>1,771</b>	<b>78</b>	<b>3,210</b>
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
<b>Balance at June 30, 2016</b>	<b>740</b>	<b>359</b>	<b>1,784</b>	<b>84</b>	<b>2,967</b>

Table of Contents**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:

	June 30, 2017	Consolidated 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
<b>Total</b>	<b>49,513</b>	<b>48,546</b>

**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.

	June 30, 2017	Consolidated December 31, 2016
Tax litigation	628	630
Civil litigation	189	202
Labor litigation	2,248	2,251
Environmental litigation	42	52
<b>Total</b>	<b>3,107</b>	<b>3,135</b>

d) **Others**

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

Table of Contents**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
<b>Movements of assets ceiling</b>						
<b>Balance at March 31,</b>	<b>5,269</b>			<b>4,764</b>		
Interest income	118			138		
Changes on asset ceiling and onerous liability	(599)			541		
<b>Balance at June 30,</b>	<b>4,788</b>			<b>5,443</b>		
<b>Amount recognized in the statement of financial position</b>						
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)		
<b>Liabilities</b>		<b>(2,765)</b>	<b>(4,789)</b>		<b>(2,661)</b>	<b>(4,487)</b>
Current liabilities		(64)	(175)		(65)	(183)
Non-current liabilities		(2,701)	(4,614)		(2,596)	(4,304)
<b>Liabilities</b>		<b>(2,765)</b>	<b>(4,789)</b>		<b>(2,661)</b>	<b>(4,487)</b>

	Consolidated					
	Overfunded pension plans	2017 Underfunded pension plans	Other benefits	Overfunded pension plans	2016 Underfunded pension plans	Other benefits
<b>Movements of assets ceiling</b>						
<b>Balance at January 1st,</b>	<b>4,402</b>			<b>3,754</b>		
Interest income	244			266		
Changes on asset ceiling and onerous liability	142			1,423		
<b>Balance at June 30,</b>	<b>4,788</b>			<b>5,443</b>		
<b>Amount recognized in the statement of financial position</b>						

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<b>position</b>						
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)		
<b>Liabilities</b>		<b>(2,765)</b>	<b>(4,789)</b>		<b>(2,661)</b>	<b>(4,487)</b>
Current liabilities		(64)	(175)		(65)	(183)
Non-current liabilities		(2,701)	(4,614)		(2,596)	(4,304)
<b>Liabilities</b>		<b>(2,765)</b>	<b>(4,789)</b>		<b>(2,661)</b>	<b>(4,487)</b>

Table of Contents**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.

Stockholders	ON	June 30, 2017	
		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
<b>Shares outstanding</b>	<b>3,185,653,000</b>	<b>1,967,721,926</b>	<b>5,153,374,926</b>
Shares in treasury	31,535,402	59,405,792	90,941,194
<b>Total issued shares</b>	<b>3,217,188,402</b>	<b>2,027,127,718</b>	<b>5,244,316,120</b>
<b>Share capital - Amounts per class of shares (in millions)</b>	<b>47,421</b>	<b>29,879</b>	<b>77,300</b>
<b>Total authorized shares</b>	<b>3,600,000,000</b>	<b>7,200,000,000</b>	<b>10,800,000,000</b>

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.

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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.

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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 cash equivalents	Derivative financial instruments	Accounts receivable	Related parties	Cash and cash equivalents	Derivative financial instruments	Accounts receivable	Related 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 Pelotização				62				15
Companhia Hispano-Brasileira de Pelotização							2	
Companhia Ítalo-Brasileira de Pelotização								27
Companhia Nipo-Brasileira de Pelotização				47				48
Companhia Siderúrgica do Pecém			157				122	
Consórcio de Rebocadores da Baía de São Marcos			26				32	
Mitsui & Co., Ltd.			9				11	
MRS Logística S.A.				126				78
Nacala BV (i)				15,117				
VLI			26	64			27	38
Others			124	74			155	32
<b>Total</b>	<b>3,857</b>	<b>1,342</b>	<b>342</b>	<b>15,490</b>	<b>1,887</b>	<b>1,167</b>	<b>349</b>	<b>238</b>

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

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	Consolidated Liabilities							
	June 30, 2017			December 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. Companhia				1,294				1,348
Coreano-Brasileira de Pelotização Companhia		248	127			10	192	
Hispano-Brasileira de Pelotização Companhia		202	132			126	47	
Companhia Ítalo-Brasileira de Pelotização		163	162				323	
Companhia Nipo-Brasileira de Pelotização		437	260			10	477	
Ferrovias 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	
<b>Total</b>	<b>1,142</b>	<b>2,001</b>	<b>4,990</b>	<b>21,949</b>	<b>1,198</b>	<b>473</b>	<b>2,605</b>	<b>24,181</b>

(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 revenue	Costs and expenses	Financial result	Net operating revenue	Costs and expenses	Financial result
Aliança Geração de Energia S.A.	27	(124)				
Banco Bradesco S.A. (i)						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	
Ferrovias Centro-Atlântica S.A.	38		(22)	(1)	40	(25)
Ferrovias 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)
<b>Total</b>	<b>588</b>	<b>(1,642)</b>	<b>(674)</b>		<b>511</b>	<b>(87)</b>

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	Consolidated Six month period ended June 30,					
	Net operating revenue	2017 Costs and expenses	Financial result	Net operating revenue	2016 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		
Ferrovias Centro-Atlântica S.A.	63	(49)	(1)	69	(44)	(2)
Ferrovias 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)	
<b>Total</b>	<b>1,366</b>	<b>(2,726)</b>	<b>(1,006)</b>	<b>958</b>	<b>(1,380)</b>	<b>(473)</b>

(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 company	
	2017	2016
<b>Balance at January 1st,</b>	<b>107,539</b>	<b>127,517</b>
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 noncontrolling interest	(329)	
Equity results from discontinued operations	(658)	(47)
Dividends declared	(1,586)	(1,157)
Others	813	(21)
<b>Balance at June 30,</b>	<b>109,893</b>	<b>117,351</b>

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

Table of Contents**b) Intangible**

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

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

**c) Property, plant and equipment**

	Parent company							
	Land	Building	Facilities	Equipment	Mineral properties	Others	Constructions in progress	Total
<b>Balance at December 31, 2016</b>	<b>1,684</b>	<b>20,945</b>	<b>20,416</b>	<b>8,479</b>	<b>4,122</b>	<b>16,499</b>	<b>29,911</b>	<b>102,056</b>
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)	
<b>Balance at June 30, 2017</b>	<b>1,732</b>	<b>23,769</b>	<b>24,254</b>	<b>9,204</b>	<b>5,484</b>	<b>17,737</b>	<b>20,138</b>	<b>102,318</b>
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	1,732	23,769	24,254	9,204	5,484	17,737	20,138	102,318
	Land	Building	Facilities	Equipment	Parent company Mineral properties	Others	Constructions in progress	Total
<b>Balance at December 31, 2015</b>	<b>1,672</b>	<b>19,546</b>	<b>19,379</b>	<b>8,371</b>	<b>4,215</b>	<b>14,203</b>	<b>29,501</b>	<b>96,887</b>
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)	
<b>Balance at June 30, 2016</b>	<b>1,680</b>	<b>20,520</b>	<b>18,850</b>	<b>8,331</b>	<b>4,189</b>	<b>13,356</b>	<b>31,724</b>	<b>98,650</b>
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)
<b>Balance at June 30, 2016</b>	<b>1,680</b>	<b>20,520</b>	<b>18,850</b>	<b>8,331</b>	<b>4,189</b>	<b>13,356</b>	<b>31,724</b>	<b>98,650</b>

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

Table of Contents**d) Loans and borrowings**

	Parent company		Parent company	
	Current liabilities		Non-current liabilities	
	June 30, 2017	December 31, 2016	June 30, 2017	December 31, 2016
<b>Debt contracts in the international markets</b>				
<b>Floating rates in:</b>				
US\$	656	448	11,829	15,876
<b>Fixed rates in:</b>				
US\$			4,963	4,889
EUR			2,831	5,158
<b>Accrued charges</b>	<b>300</b>	<b>425</b>		
	<b>956</b>	<b>873</b>	<b>19,623</b>	<b>25,923</b>
<b>Debt contracts in Brazil</b>				
<b>Floating rates in:</b>				
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
<b>Fixed rates in:</b>				
R\$	190	190	590	685
<b>Accrued charges</b>	<b>921</b>	<b>932</b>		
	<b>4,514</b>	<b>3,298</b>	<b>18,709</b>	<b>21,954</b>
	<b>5,470</b>	<b>4,171</b>	<b>38,332</b>	<b>47,877</b>

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**

	Current liabilities		Parent company	
	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
<b>Provisions</b>	<b>1,589</b>	<b>1,792</b>	<b>4,388</b>	<b>4,396</b>

## f) Provisions for litigation

	Parent company				
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	Total of litigation provision
<b>Balance at December 31, 2016</b>	<b>53</b>	<b>247</b>	<b>1,621</b>	<b>23</b>	<b>1,944</b>
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
<b>Balance at June 30, 2017</b>	<b>51</b>	<b>231</b>	<b>1,647</b>	<b>22</b>	<b>1,951</b>

	Parent company				
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	Total of litigation provision
<b>Balance at December 31, 2015</b>	<b>332</b>	<b>241</b>	<b>1,562</b>	<b>55</b>	<b>2,190</b>
Additions	17	201	353	7	578
Reversals	(41)	(67)	(160)	(11)	(279)
Payments	(275)	(161)	(233)		(669)
Indexation and interest	12	92	9		113
<b>Balance at June 30, 2016</b>	<b>45</b>	<b>306</b>	<b>1,531</b>	<b>51</b>	<b>1,933</b>

Table of Contents**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
<b>Income before income taxes</b>	<b>10,586</b>	<b>16,478</b>
<b>Income taxes at statutory rates - 34%</b>	<b>(3,599)</b>	<b>(5,603)</b>
<b>Adjustments that affect the basis of taxes:</b>		
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)
<b>Income taxes</b>	<b>(1,977)</b>	<b>(6,535)</b>

**h) Related parties**

	Parent company Assets							
	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 Pelotização				62				15
Companhia Hispano-Brasileira de Pelotização							2	
Companhia Ítalo-Brasileira de Pelotização								27
Companhia Nipo-Brasileira de Pelotização				47				48



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

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	Parent company Liabilities							
	June 30, 2017			December 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			12,465	236			13,039
BNDES Participações S.A.				1,294				1,348
Companhia Coreano-Brasileira de Pelotização		248				10		
Companhia Hispano-Brasileira de Pelotização		202				126		
Companhia Ítalo-Brasileira de Pelotização		163						
Companhia Nipo-Brasileira de Pelotização		437				10		
Companhia Portuária Baía de Sepetiba		49				285		
Empreendimentos Brasileiros de Mineração S.A.			7				7	
Ferrovia Centro-Atlântica S.A.		3	271				270	
Mineração Brasileiras Reunidas S.A.		523	3,310			505	3,131	
MRS Logística S.A.		80				82		
Vale International S.A.			56,465			4	59,715	
VLI		8	232			8		
Others		313	293			163	292	
<b>Total</b>	<b>1,142</b>	<b>2,231</b>	<b>60,578</b>	<b>20,794</b>	<b>1,198</b>	<b>1,244</b>	<b>63,540</b>	<b>22,776</b>

	Parent company Six month period ended June 30,					
	Net operating revenue	2017 Costs and expenses	Financial result	Net operating revenue	2016 Costs and expenses	Financial result
Aliança Geração de Energia S.A.		(181)				
Banco Bradesco S.A. (i)			225			424
Banco do Brasil S.A. (i)			(644)			(299)

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Baovale Mineração S.A.		(26)			(31)	
Biopalma da Amazônia S.A.			32			(203)
BNDES (i)			(528)			(516)
BNDES Participações S.A. (i)			(68)			(73)
Companhia Coreano-Brasileira de Pelotização		(234)			(131)	
Companhia Hispano-Brasileira de Pelotização		(188)			(71)	
Companhia Ítalo-Brasileira de Pelotização		(172)			(82)	
Companhia Nipo-Brasileira de Pelotização		(408)			(197)	
Companhia Portuária Baía de Sepetiba		(206)			(395)	
Companhia Siderúrgica do Atlântico					(21)	
Companhia Siderúrgica do Pecem	415			116		
Ferrovias Centro-Atlântica S.A.	63	(49)	(1)	69	(44)	(2)
Ferrovias Norte Sul S.A.	37					
Mineração Brasileiras Reunidas S.A.		(995)	(179)		(761)	(246)
MRS Logística S.A.		(824)			(729)	
Samarco Mineração S.A.	45		39	1		
Vale International S.A.	28,636		(2,261)	17,811		3,464
VLI	417			467	(11)	
Others	137	(80)	(105)	76	(5)	2
<b>Total</b>	<b>29,750</b>	<b>(3,363)</b>	<b>(3,490)</b>	<b>18,540</b>	<b>(2,478)</b>	<b>2,551</b>

(i) Does not include exchange rate variation.

Table of Contents**28. Additional information about derivatives financial instruments****a) Sensitivity analysis of derivative financial instruments.**

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

- *Scenario I*: fair value calculation considering market prices as of June 30, 2017
- *Scenario II*: fair value estimated considering a 25% deterioration in the associated risk variables
- *Scenario III*: fair value estimated considering a 50% deterioration in the associated risk variables

Instrument	Instrument's main risk events	Scenario I	Scenario II	Scenario III
<b>CDI vs. US\$ fixed rate swap</b>	R\$depreciation	(329)	(1,665)	(3,000)
	US\$interest rate inside Brazil decrease	(329)	(374)	(421)
	Brazilian interest rate increase	(329)	(328)	(347)
	Protected item: R\$ denominated debt	R\$depreciation	n.a.	
<b>TJLP vs. US\$ fixed rate swap</b>	R\$depreciation	(1,679)	(3,013)	(4,348)
	US\$interest rate inside Brazil decrease	(1,679)	(1,736)	(1,796)
	Brazilian interest rate increase	(1,679)	(1,795)	(1,904)
	TJLP interest rate decrease	(1,679)	(1,772)	(1,867)
Protected item: R\$ denominated debt	R\$depreciation	n.a.		
<b>TJLP vs. US\$ floating rate swap</b>	R\$depreciation	(185)	(289)	(392)
	US\$interest rate inside Brazil decrease	(185)	(191)	(197)
	Brazilian interest rate increase	(185)	(194)	(203)
	TJLP interest rate decrease	(185)	(192)	(200)
Protected item: R\$ denominated debt	R\$depreciation	n.a.		
<b>R\$ fixed rate vs. US\$ fixed rate swap</b>	R\$depreciation	(5)	(292)	(578)
	US\$interest rate inside Brazil decrease	(5)	(37)	(72)
	Brazilian interest rate increase	(5)	(84)	(154)
	Protected item: R\$ denominated debt	R\$depreciation	n.a.	

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<b>IPCA vs. US\$ fixed rate swap</b>	R\$depreciation	(174)	(553)	(933)
	US\$interest rate inside Brazil decrease	(174)	(193)	(213)
	Brazilian interest rate increase	(174)	(242)	(305)
	IPCA index decrease	(174)	(207)	(240)
Protected item: R\$ denominated debt	R\$depreciation	n.a.		
<b>IPCA vs. CDI swap</b>	Brazilian interest rate increase	158	37	(72)
	IPCA index decrease	158	99	42
Protected item: R\$ denominated debt linked to IPCA	IPCA index decrease	n.a.	(99)	(42)
<b>EUR fixed rate vs. US\$ fixed rate swap</b>	EUR depreciation	(35)	(604)	(1,173)
	Euribor increase	(35)	(62)	(89)
	US\$Libor decrease	(35)	(91)	(151)
Protected item: EUR denominated debt	EUR depreciation	n.a.	604	1,173

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Instrument	Instrument's main risk events	Scenario I	Scenario II	Scenario III
<b>Bunker Oil protection</b>				
Forwards and options	Bunker Oil price decrease	83	(150)	(614)
Protected item: Part of costs linked to bunker oil prices	Bunker Oil price decrease	n.a.	150	614
<b>Nickel sales fixed price protection</b>				
Forwards	Nickel price decrease	1	(86)	(172)
Protected item: Part of nickel revenues with fixed prices	Nickel price fluctuation	n.a.	86	172
<b>Purchase protection program</b>				
Nickel forwards	Nickel price increase	(0.9)	(7.2)	(13.4)
Protected item: Part of costs linked to nickel prices	Nickel price increase	n.a.	7.2	13.4
Copper forwards	Copper price increase	(0.1)	(1.0)	(2.0)
Protected item: Part of costs linked to copper prices	Copper price increase	n.a.	1.0	2.0
<b>SLW warrants</b>	SLW stock price decrease	151	83	31
<b>Conversion options - VLI</b>	VLI stock value increase	(224)	(340)	(478)
<b>Options - MBR</b>	MBR stock value decrease	570	351	187
<b>Instrument</b>	<b>Main risks</b>	<b>Scenario I</b>	<b>Scenario II</b>	<b>Scenario III</b>
Embedded derivatives - Raw material purchase (nickel)	Nickel price increase	(4)	(26)	(49)
Embedded derivatives - Raw material purchase (copper)	Copper price increase	0	(12)	(25)
Embedded derivatives - Gas purchase	Pellet price increase	(11)	(23)	(39)
Embedded derivatives - Guaranteed minimum return (VLI)	VLI stock value decrease	(583)	(1,040)	(1,655)

**b) Financial counterparties ratings**

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

The table below presents the ratings in foreign currency published by agencies Moody's and S&P regarding the main financial institutions that we had outstanding positions as of June 30, 2017.

Long term ratings by counterparty

Moody's

S&amp;P

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ANZ Australia and New Zealand Banking	Aa3	AA-
Banco Bradesco	Ba3	BB
Banco de Credito del Peru	Baa1	BBB
Banco do Brasil	Ba3	BB
Banco do Nordeste	Ba3	BB
Banco Safra	Ba3	BB
Banco Santander	A3	A-
Banco Votorantim	Ba3	BB
Bank of America	Baa1	BBB+
Bank of China	A1	A
Bank of Nova Scotia	A1	A+
Bank of Tokyo Mitsubishi UFJ	A1	A
Banpara		BB-
Barclays	Baa2	BBB
BNP Paribas	A1	A

<b>Long term ratings by counterparty</b>	<b>Moody s</b>	<b>S&amp;P</b>
BTG Pactual	Ba3	BB-
Caixa Economica Federal	Ba3	BB
Citigroup	Baa1	BBB+
Deutsche Bank	A3	A-
Goldman Sachs	A3	BBB+
HSBC	A1	A
Intesa Sanpaolo Spa	A3	BBB-
Itau Unibanco	Ba3	BB
JP Morgan Chase & Co	A3	A-
Macquarie Group Ltd	A3	BBB
Morgan Stanley	A3	BBB+
National Australia Bank NAB	Aa3	AA-
Societe Generale	A2	A
Standard Bank Group	Ba1	
Standard Chartered	A2	BBB+

Table of Contents**c) Market curves**

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

**(i) Products****Nickel**

Maturity	Price (US\$/ton)	Maturity	Price (US\$/ton)	Maturity	Price (US\$/ton)
SPOT	9,280	DEC17	9,449	JUN18	9,554
JUL17	9,363	JAN18	9,468	JUN19	9,750
AUG17	9,379	FEB18	9,485	JUN20	9,911
SEP17	9,393	MAR18	9,504	JUN21	10,043
OCT17	9,412	APR18	9,522		
NOV17	9,431	MAY18	9,539		

**Copper**

Maturity	Price (US\$/lb)	Maturity	Price (US\$/lb)	Maturity	Price (US\$/lb)
SPOT	2.70	DEC17	2.70	JUN18	2.71
JUL17	2.69	JAN18	2.71	JUN19	2.72
AUG17	2.69	FEB18	2.71	JUN20	2.72
SEP17	2.70	MAR18	2.71	JUN21	2.72
OCT17	2.70	APR18	2.71		
NOV17	2.70	MAY18	2.71		

**Bunker Oil**

Maturity	Price (US\$/ton)	Maturity	Price (US\$/ton)	Maturity	Price (US\$/ton)
SPOT	294	DEC17	291	JUN18	290



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JUL17	295	JAN18	290	JUN19	292
AUG17	296	FEB18	290	JUN20	280
SEP17	294	MAR18	289	JUN21	276
OCT17	292	APR18	290		
NOV17	291	MAY18	290		

Table of Contents**(ii) Foreign exchange and interest rates****US\$-Brazil Interest Rate**

<b>Maturity</b>	<b>Rate (% p.a.)</b>	<b>Maturity</b>	<b>Rate (% p.a.)</b>	<b>Maturity</b>	<b>Rate (% p.a.)</b>
08/01/17	2.58	06/01/18	2.37	10/01/20	3.18
09/01/17	2.17	07/02/18	2.38	01/04/21	3.29
10/02/17	2.20	10/01/18	2.48	04/01/21	3.36
11/01/17	2.19	01/02/19	2.59	07/01/21	3.45
12/01/17	2.19	04/01/19	2.65	10/01/21	3.51
01/02/18	2.25	07/01/19	2.72	01/03/22	3.65
02/01/18	2.22	10/01/19	2.80	04/01/22	3.73
03/01/18	2.27	01/02/20	2.91	07/01/22	3.86
04/02/18	2.30	04/01/20	2.99	01/02/23	4.09
05/02/18	2.32	07/01/20	3.09	01/02/24	4.49

**US\$ Interest Rate**

<b>Maturity</b>	<b>Rate (% p.a.)</b>	<b>Maturity</b>	<b>Rate (% p.a.)</b>	<b>Maturity</b>	<b>Rate (% p.a.)</b>
1M	1.23	6M	1.40	11M	1.45
2M	1.26	7M	1.42	12M	1.45
3M	1.30	8M	1.43	2Y	1.64
4M	1.35	9M	1.44	3Y	1.79
5M	1.38	10M	1.44	4Y	1.93

**TJLP**

<b>Maturity</b>	<b>Rate (% p.a.)</b>	<b>Maturity</b>	<b>Rate (% p.a.)</b>	<b>Maturity</b>	<b>Rate (% p.a.)</b>
08/01/17	7.00	06/01/18	7.00	10/01/20	7.00
09/01/17	7.00	07/02/18	7.00	01/04/21	7.00
10/02/17	7.00	10/01/18	7.00	04/01/21	7.00
11/01/17	7.00	01/02/19	7.00	07/01/21	7.00
12/01/17	7.00	04/01/19	7.00	10/01/21	7.00
01/02/18	7.00	07/01/19	7.00	01/03/22	7.00
02/01/18	7.00	10/01/19	7.00	04/01/22	7.00
03/01/18	7.00	01/02/20	7.00	07/01/22	7.00

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04/02/18	7.00	04/01/20	7.00	01/02/23	7.00
05/02/18	7.00	07/01/20	7.00	01/02/24	7.00

**BRL Interest Rate**

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
08/01/17	10.03	06/01/18	8.75	10/01/20	9.98
09/01/17	9.65	07/02/18	8.77	01/04/21	10.08
10/02/17	9.38	10/01/18	8.84	04/01/21	10.17
11/01/17	9.22	01/02/19	8.91	07/01/21	10.26
12/01/17	9.07	04/01/19	9.06	10/01/21	10.32
01/02/18	8.94	07/01/19	9.23	01/03/22	10.36
02/01/18	8.87	10/01/19	9.41	04/01/22	10.41
03/01/18	8.84	01/02/20	9.56	07/01/22	10.45
04/02/18	8.79	04/01/20	9.70	01/02/23	10.54
05/02/18	8.77	07/01/20	9.85	01/02/24	10.64

Table of Contents**Implicit Inflation (IPCA)**

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
08/01/17	4.88	06/01/18	3.66	10/01/20	4.43
09/01/17	4.52	07/02/18	3.68	01/04/21	4.45
10/02/17	4.26	10/01/18	3.94	04/01/21	4.49
11/01/17	4.11	01/02/19	4.14	07/01/21	4.52
12/01/17	3.96	04/01/19	4.19	10/01/21	4.54
01/02/18	3.84	07/01/19	4.28	01/03/22	4.54
02/01/18	3.78	10/01/19	4.30	04/01/22	4.57
03/01/18	3.75	01/02/20	4.33	07/01/22	4.59
04/02/18	3.70	04/01/20	4.34	01/02/23	4.65
05/02/18	3.68	07/01/20	4.39	01/02/24	4.72

**EUR Interest Rate**

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
1M	-0.40	6M	-0.28	11M	-0.24
2M	-0.39	7M	-0.27	12M	-0.23
3M	-0.37	8M	-0.26	2Y	-0.12
4M	-0.33	9M	-0.25	3Y	0.01
5M	-0.30	10M	-0.24	4Y	0.14

**CAD Interest Rate**

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
1M	0.98	6M	1.25	11M	0.69
2M	1.03	7M	1.08	12M	0.64
3M	1.07	8M	0.96	2Y	1.44
4M	1.16	9M	0.85	3Y	1.59
5M	1.22	10M	0.76	4Y	1.71

**Currencies - Ending rates**

CAD/US\$	0.7701	US\$/BRL	3.3082	EUR/US\$	1.1430
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**Members of the Board of Directors, Fiscal Council, Advisory Committees and Executive Officers**

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Gueitiro Matsuo Genso

**Chairman**

Fernando Jorge Buso Gomes

**Vice-President**

Dan Antonio Marinho Conrado

Marcel Juviniانو Barros

Eduardo Refinetti Guardia

Denise Pauli Pavarina

Shinichiro Omachi

Oscar Augusto de Camargo Filho

Eduardo de Salles Bartolomeo

Lucio Azevedo

**Alternate**

Gilberto Antonio Vieira

Moacir Nachbar Junior

Arthur Prado Silva

Francisco Ferreira Alexandre

Robson Rocha

Luiz Mauricio Leuzinger

Yoshitomo Nishimitsu

Eduardo de Oliveira Rodrigues Filho

Raimundo Nonato Alves Amorim

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**Controlling Committee**

Moacir Nachbar Junior

Arthur Prado Silva

Oswaldo Mário Pego de Amorim Azevedo

Jorge Roberto Manoel

**Executive Development Committee**

Oscar Augusto de Camargo Filho

Marcel Juviniانو Barros

Fernando Jorge Buso Gomes

Gueitiro Matsuo Genso

Ana Silvia Matte

**Governance and Sustainability Committee**

Fernando Jorge Buso Gomes

Dan Antonio Marinho Conrado

Eduardo de Oliveira Rodrigues Filho

Denise Pauli Pavarina

Clarissa Lins

**Fiscal Council**

Marcelo Amaral Moraes

**Chairman**

Eduardo Cesar Pasa

Raphael Manhães Martins

Robert Juenemann

Marcus Vinícius Dias Severini

**Alternate**

Sergio Mamede Rosa do Nascimento

Bernardo Zito Porto

Gaspar Carreira Júnior

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Fabio Schvartsman

**Chief Executive Officer**

Luiz Eduardo Fróes do Amaral Osorio

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Luciano Siani Pires

**Executive Officer (Finance and Investors Relations)**

Gerd Peter Poppinga

**Executive Officer (Ferrous and Coal)**

Jennifer Anne Maki

**Executive Officer (Base Metals)**

Clovis Torres Junior

**Executive Officer and General Counsel**

**Strategic Committee**

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Gueitiro Matsuo Genso  
Fernando Jorge Buso Gomes  
Oscar Augusto de Camargo Filho

Rogério Nogueira  
**Global Controller Director**

Murilo Muller  
**Controllership Director**

**Finance Committee**

Gilmar Dalilo Cezar Wanderley  
Fernando Jorge Buso Gomes  
Eduardo de Oliveira Rodrigues Filho  
Eduardo de Salles Bartolomeo  
Eduardo Refinetti Guardia

Dioni Brasil  
**Accounting Manager**  
**TC-CRC-RJ 083305/O-8**

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**Signatures**

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

Vale S.A.  
(Registrant)

Date: July 27, 2017

By:

/s/ Andre Figueiredo  
Andre Figueiredo  
Director of Investor Relations

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