Vale S.A. Form 6-K October 27, 2016 Table of Contents

United States Securities and Exchange Commission

Washington, D.C. 20549

FORM 6-K

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

For the month of

September, 2016

Vale S.A.

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

(Address of principal executive office)

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

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

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Interim Financial Statements

September 30, 2016

BRGAAP in R\$ (English)

1

Vale S.A. Interim Financial Statements

Contents

		Page
Report on the review of quarterly i	information ITR	3
Condensed Consolidated and Pare	nt Company Income Statement	4
Condensed Consolidated and Pare	nt Company Statement of Comprehensive Income	5
Condensed Consolidated and Pare	nt Company Cash Flow Statement	6
Condensed Consolidated and Pare	nt Company Balance Sheet	8
Condensed Statement of Changes	in Equity	9
Condensed Consolidated and Pare	nt Company Value Added Statement	10
Selected Notes to the Interim Fina	ncial Statements	11
<u>1.</u>	Corporate information	11
<u>2.</u>	Basis for preparation of the interim financial statements	11
<u>3.</u>	<u>Information by business segment</u>	13
<u>4.</u>	Liabilities related to associates and joint ventures	18
<u>5.</u>	Non-current assets and liabilities held for sale	21
<u>6.</u>	Acquisitions and divestitures	21
<u>7.</u>	Cash and cash equivalents	22
<u>8.</u>	Accounts receivable	22
<u>9.</u>	<u>Inventories</u>	22
<u>10.</u>	<u>Investments in associates and joint ventures</u>	23
<u>11.</u>	<u>Intangibles</u>	25
<u>12.</u>	Property, plant and equipment	26
<u>13.</u>	Loans and borrowings	27
<u>14.</u>	<u>Litigation</u>	29
<u>15.</u>	<u>Income taxes</u>	31
<u>16.</u>	Employee postretirement obligations	32
<u>17.</u>	Financial instruments classification	32
<u>18.</u>	Fair value estimate	33
<u>19.</u>	<u>Derivative financial instruments</u>	33
<u>20.</u>	Stockholders equity	44
<u>21.</u>	Costs and expenses by nature	45
<u>22.</u>	<u>Financial results</u>	46
<u>23.</u>	Deferred revenue Gold stream	46
<u>24.</u>	Commitments	47
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	Related parties	48
<u>26.</u>	Parent Company information (individual interim information)	51
Members of the Board of Director	s, Fiscal Council, Advisory Committees and Executive Officers	56

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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

- We have reviewed the interim accounting information of Vale S.A. (the Company), included in the quarterly information form - ITR for the quarter ended September 30, 2016, which comprises the individual and consolidated balance sheets as of September 30, 2016 and the respective individual and consolidated statements of income and comprehensive income for the three and nine months periods ended on September 30, 2016, the individual and consolidated statements of changes in stockholders equity for the nine-month period then ended and the individual statement of cash flows for the nine-month period and the consolidated statement of cash flows for the three and nine months periods then ended, including the explanatory notes.
- The Company's Management is responsible for the preparation of these interim accounting information in accordance with the Accounting Pronouncement CPC 21(R1) Demonstração Intermediária and the international accounting rule IAS 34 - Interim Financial Reporting, issued by the International Accounting Standards Board as well as the presentation of these information in accordance with the standards issued by the Brazilian Securities and Exchange Commission (CVM), 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). 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.

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

KPMG Auditores Independentes, a Brazilian entity and a member firm of the KPMG network of independent member firms affiliated with KPMG

1

Conclusion on the interim accounting information

Accountant CRC RJ-052428/O-2

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, 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. We have also reviewed the individual and consolidated statements of added value for the nine-month period ended September 30, 2016, prepared under the responsibility of the Company's Management, for which presentation is required in the interim information in accordance with the standards issued by the CVM applicable to the preparation of quarterly information - ITR, and considered as supplementary information by IFRS, which does not require the presentation of the statements of added value. These statements were submitted to the same review procedures described previously and, based on our review, we are not aware of any fact that might lead us to believe that they were not prepared, in all material respects, in accordance with the individual and consolidated interim accounting information, taken as a whole.
Rio de Janeiro, October 26, 2016
KPMG Auditores Independentes CRC SP-014428/O-6 F-RJ
(Original report in Portuguese signed by)
Manuel Fernandes Rodrigues de Sousa

Condensed Income Statement

In millions of Brazilian Reais, except as otherwise stated

		Consolidated Three months period ended Sontomber 30			
	Notes	2016	2015	2016	2015
Net operating revenue	3(c)	23,772	23,350	69,042	62,818
Cost of goods sold and services rendered	21(a)	(16,082)	(18,025)	(49,340)	(48,981)
Gross profit		7,690	5,325	19,702	13,837
Operating (expenses) income					
Selling and administrative expenses	21(b)	(495)	(458)	(1,453)	(1,501)
Research and evaluation expenses		(275)	(434)	(783)	(1,143)
Pre operating and operational stoppage		(395)	(936)	(1,197)	(2,491)
Other operating income (expenses), net	21(c)	176	(422)	(524)	(866)
		(989)	(2,250)	(3,957)	(6,001)
Results on measurement or sale of non-current					
assets	5 and 6	(110)	(189)	(338)	185
Operating income		6,591	2,886	15,407	8,021
Financial income	22	1,222	9,048	26,392	20,474
Financial expenses	22	(4,635)	(34,895)	(17,959)	(58,375)
Equity results in associates and joint ventures	10	149	(1,204)	1,396	(1,361)
Others results in associates and joint ventures	4 and 6	(106)		(4,105)	296
Net income (loss) before income taxes		3,221	(24,165)	21,131	(30,945)
Income taxes	15				
Current tax		(181)	(353)	(2,887)	(761)
Deferred tax		(1,174)	17,430	(6,411)	19,927
		(1,355)	17,077	(9,298)	19,166
Net income (loss)		1,866	(7,088)	11,833	(11,779)
Income (loss) attributable to noncontrolling					
interests		24	(425)	95	(721)
Net income (loss) attributable to Vale s					
stockholders		1,842	(6,663)	11,738	(11,058)
Earnings per share attributable to Vale s stockholders:					
Basic and diluted earnings per share:	20(b)				
Preferred share (R\$)		0.36	(1.29)	2.28	(2.15)
Common share (R\$)		0.36	(1.29)	2.28	(2.15)
			•		

Parent company

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	Three months period ended September 30		Nine months period ended September 30	
	2016	2015	2016	2015
Net operating revenue	11,941	11,346	32,315	30,948
Cost of goods sold and services rendered	(7,552)	(6,846)	(21,599)	(20,037)
Gross profit	4,389	4,500	10,716	10,911
0				
Operating (expenses) income	(265)	(266)	(754)	(0.45)
Selling and administrative expenses	(265)	(266)	(754)	(845)
Research and evaluation expenses	(162)	(195)	(417)	(547)
Pre operating and operational stoppage	(167)	(129)	(506)	(353)
Equity results from subsidiaries	1,169	(1,759)	4,574	(3,359)
Other operating income (expenses), net	(312)	(155)	(830)	(504)
	263	(2,504)	2,067	(5,608)
Results on measurement or sale of non-current				
assets				546
Operating income	4,652	1,996	12,783	5,849
Financial income	1.296	9.190	25,006	19,652
Financial expenses	(4,464)	(31,518)	(17,122)	(52,858)
Equity results in associates and joint ventures	149	(1,204)	1,396	(1,361)
Others results in associates and joint ventures	(106)		(4,105)	55
Net income (loss) before income taxes	1,527	(21,536)	17,958	(28,663)
Income taxes				
Current tax	137	18	(2,161)	18
Deferred tax	178	14,855	(4,059)	17,587
Deferred turk	315	14,873	(6,220)	17,605
Net income (loss)	1,842	(6,663)	11,738	(11,058)
1.00 111001110 (1000)	1,0 12	(0,000)	11,700	(11,000)

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

See Report on the review of quarterly information ITR.

Condensed Statement of Comprehensive Income

In millions of Brazilian Reais

	Consolidated			
	Three months period ended September 30		Nine months period ended September 30	
	2016	2015	2016	2015
Net income (loss)	1,866	(7,088)	11,833	(11,779)
Other comprehensive income (loss):				
Items that will not be reclassified subsequently				
to the income statement				
Retirement benefit obligations	(100)	(25)	(1.100)	(40)
Gross balance for the period	(128)	(25)	(1,100)	(48)
Effect of taxes	43	6	340	80
	(85)	(19)	(760)	32
Total items that will not be reclassified				
subsequently to the income statement	(85)	(19)	(760)	32
Items that may be reclassified subsequently to				
the income statement				
Cumulative translation adjustments				
Gross balance for the period	787	24,733	(13,435)	36,846
Effect of taxes	55		(467)	
Transfer of realized results to net income, net of			,	
taxes			(266)	
	842	24,733	(14,168)	36,846
Cash flow hedge		,		ĺ
Gross balance for the period		254	23	1,812
Effect of taxes		(6)	(3)	(16)
Equity results in associates and joint ventures		(8)	16	(16)
Transfer of realized results to net income, net of				
taxes		(135)	(10)	(823)
		105	26	957
Total of items that may be reclassified				
subsequently to the income statement	842	24,838	(14,142)	37,803
Total comprehensive income (loss)	2,623	17,731	(3,069)	26,056
Comprehensive income (loss) attributable to	_,====	21,102	(2,000)	_0,000
noncontrolling interests	66	692	(835)	910
Comprehensive income (loss) attributable to			(555)	210
Vale s stockholders	2,557	17,039	(2,234)	25,146
		2.,002	(=,== -)	20,110

	Par	rent company	
Three	months period ended	Nine months period ended	
	September 30	September 30	
2016	2015	2016 20)15

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Net income (loss)	1,842	(6,663)	11,738	(11,058)
Other comprehensive income (loss):				
Items that will not be reclassified subsequently				
to the income statement				
Retirement benefit obligations				
Gross balance for the period	(26)	(31)	(66)	(81)
Effect of taxes	10	11	23	27
Equity results in associates and joint ventures	(69)	1	(717)	86
	(85)	(19)	(760)	32
Total items that will not be reclassified				
subsequently to the income statement	(85)	(19)	(760)	32
Items that may be reclassified subsequently to				
the income statement				
Cumulative translation adjustments				
Gross balance for the period	800	23,616	(12,972)	35,215
Effect of taxes			(266)	
	800	23,616	(13,238)	35,215
Cash flow hedge				
Equity results in associates and joint ventures		105	26	957
		105	26	957
Total of items that may be reclassified				
subsequently to the income statement	800	23,721	(13,212)	36,172
Total comprehensive income (loss)	2,557	17,039	(2,234)	25,146

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

See Report on the review of quarterly information ITR.

Condensed Cash Flow Statement

In millions of Brazilian Reais

	Consolidated			
	Three months period ended September 30		Nine months per September	
	2016	2015	2016	2015
Cash flow from operating activities:				
Net income (loss) before income taxes	3,221	(24,165)	21,131	(30,945)
Adjustments for:				
Equity results from associates and joint ventures	(149)	1,204	(1,396)	1,361
Results on measurement or sale of non-current				
assets	(371)	189	(143)	(916)
Others results in associates and joint ventures			3,999	(296)
Depreciation, amortization and depletion	3,127	3,670	9,694	9,709
Financial results, net	3,413	25,847	(8,433)	37,901
Changes in assets and liabilities:				
Accounts receivable	(40)	1,210	(1,112)	1,898
Inventories	40	(1,171)	(91)	(690)
Suppliers and contractors	874	1,493	693	1,115
Payroll and related charges	(54)	188	88	(1,439)
Other taxes assets and liabilities, net	397	(318)	200	(1,429)
Deferred revenue - Gold stream (note 23) (ii)	1,683		1,683	1,670
Other assets and liabilities, net	(1,586)	386	(2,394)	1,169
Cash provided from operations	10,555	8,533	23,919	19,108
Interest on loans and borrowings paid	(1,381)	(1,445)	(4,520)	(3,760)
Derivatives received (paid), net (note 19)	(619)	(622)	(3,831)	(2,709)
Interest on participative stockholders debentures paid			(117)	
Income taxes	(384)	(166)	(1,259)	(1,069)
Income taxes - Settlement program	(362)	(325)	(1,056)	(950)
Net cash provided by operating activities	7,809	5,975	13,136	10,620
rect cash provided by operating activities	7,002	3,713	13,130	10,020
Cash flow from investing activities:				
Financial investments redeemed (invested)	227	180	221	917
Loans and advances granted	(231)	83	(430)	(87)
Additions to investments	(29)	(22)	(850)	(377)
Additions to property, plant and equipment and				
intangible (note 3(b))	(4,057)	(6,616)	(13,735)	(19,366)
Dividends and interest on capital received from	•		•	•
associates and joint ventures	1	71	416	722
Proceeds from disposal of assets and investments	1,053	1,793	1,140	3,542
Proceeds from gold stream transaction	885	•	885	1,156
Net cash used in investing activities	(2,151)	(4,511)	(12,353)	(13,493)

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Cash flow from financing activities:				
Loans and borrowings (i)				
Additions	5,091	3,772	23,046	12,196
Repayments	(6,458)	(3,287)	(17,409)	(5,930)
Transactions with stockholders:				
Dividends and interest on capital paid to Vale s				
stockholders				(3,101)
Dividends and interest on capital paid to				
noncontrolling interest	(433)		(702)	(35)
Transactions with noncontrolling stockholders		4,000	(69)	3,875
Net cash provided by (used in) financing				
activities	(1,800)	4,485	4,866	7,005
Increase (decrease) in cash and cash				
equivalents	3,858	5,949	5,649	4,132
Cash and cash equivalents in the beginning of the				
period	13,377	9,799	14,022	10,555
Effect of exchange rate changes on cash and cash				
equivalents	193	1,722	(2,243)	2,783
Cash and cash equivalents at end of the period	17,428	17,470	17,428	17,470
Non-cash transactions:				
Additions to property, plant and equipment -				
capitalized loans and borrowing costs	556	689	1,995	1,789
capitalized found and boffe wing costs	330	007	1,773	1,707

⁽i) Includes transactions with related parties: Bradesco, Banco do Brasil and Banco Nacional do Desenvolvimento Econômico e Social - BNDES.

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

See Report on the review of quarterly information ITR.

⁽ii) Net of warrants

Condensed Cash Flow Statement

In millions of Brazilian Reais

Adjustments for: [1,396] 1,361 Equity results in associates and joint ventures (4,574) 3,359 Others results in associates and joint ventures 3,999 (601) Results on disposal of property, plant and equipment and intangibles 51 100 Depreciation, amortization and depletion 3,717 3,330 Financial results, net (7,684) 33,206 Changes in assets and liabilities: 87 (173 Accounts receivable 4,634 (5,068) Inventories 87 (173 Suppliers and contractors 333 452 Payroll and related charges 153 (1,075) Other taxes assets and liabilities, net (85) (540) Other axes as and liabilities, net 460 14,373 Chylidends and interest on capital received from subsidiaries 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,834)		Parent comp Nine months period endo	
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Equity results in associates and joint ventures (1,396) 1,361 Equity results in associates and joint ventures 3,999 (601) Chest is associated and joint ventures 3,999 (601) Results on disposal of property, plant and equipment and intangibles 51 160 Depreciation, amortization and depletion 3,717 3,330 Financial results, net (7,884) 32,06 Changes in assets and liabilities. 4634 (5,068) Inventories 87 (173) Suppliers and contractors 87 (173) Suppliers and contractors 153 (1,075) Other taxes assets and liabilities, net (85) (540) Other assets and liabilities, net (85) (540) Interest on loans and borrowings paid (2,361) (1,832) Derivatives received (paid), net (note 19) (790) (649) Interest on		17,958	(28,663)
Equity results from subsidiaries (4,574) 3,359 Others results in associates and joint ventures 3,999 (601) Results on disposal of property, plant and equipment and intangibles 51 160 Depreciation, amortization and depletion 3,717 3,330 Financial results, net 7,884 33,206 Changes in assets and liabilities: 87 173 Accounts receivable 4,634 (5,068) Inventories 333 452 Payroll and related charges 153 (1,075) Other taxes assets and liabilities, net 460 14,373 Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on participative stockholders debentures paid (117) (100) (100) Income taxes (600) (100) (100) (100) (100) Net cash provided by operating activities (1,035) (300) (300) (314)			
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Results on disposal of property, plant and equipment and intangibles 51 160 Depreciation, amortization and depletion 3,717 3,330 Financial results, net (7,884) 33,206 Changes in assets and liabilities: 4634 (5,068) Accounts receivable 4634 (5,068) Inventories 87 (173) Suppliers and contractors 333 452 Payroll and related charges 153 (1,075) Other taxes assets and liabilities, net 460 14,373 Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) Income taxes (60) (1,035) (930) Net cash provided by operating activities 11,452 16,164			,
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Financial results, net (7,884) 33,206 Changes in assets and liabilities: 8 (5,068) Inventories 87 (173) Suppliers and contractors 333 452 Payroll and related charges 153 (1,075) Other taxes assets and liabilities, net 460 14,373 Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,832) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) Income taxes (60) (10,351) (330) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities (34) 374 Loans and advances received (34) 374 Loans and advances received (34) (34) (36) Additions to i	Results on disposal of property, plant and equipment and intangibles	51	160
Changes in assets and liabilities: 4,634 6,068 Accounts receivable 4,634 (5,068) Inventories 87 (1733) Suppliers and contractors 333 452 Payroll and related charges 153 (1,075) Other taxes assets and liabilities, net 460 14,373 Cesh provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,832) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) (117) Income taxes (60) (100) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities (1,142) 16,164 Cash flow from investing activities (34) 374 Loans and advances received (34) 374 Additions to investments		3,717	3,330
Accounts receivable 4,634 (5,068) Inventories 87 (173) Suppliers and contractors 333 4522 Payroll and related charges 153 (1,075) Other taxes assets and liabilities, net 460 14,373 Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,832) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) Income taxes (60) (60) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities (34) 374 Loans and advances received (34) 374 Loans and advances received (34) 374 Additions to investments (1,334) <	Financial results, net	(7,884)	33,206
Inventories 87 (173)	Changes in assets and liabilities:		
Suppliers and contractors 333 452 Payroll and related charges 153 (1,075) Other taxes assets and liabilities, net 460 14,373 Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) (10,035) (930) Income taxes - Settlement program (1,035) (930) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities (341) 65 Financial investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangibl	Accounts receivable	4,634	(5,068)
Payroll and related charges 153 (1,075) Other taxes assets and liabilities, net (85) (540) Other assets and liabilities, net 460 14,373 Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) (100) Income taxes (60) (60) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities (34) 374 Loans and advances received (34) 374 Loans and advances received (34) (5,109) Additions to investments (1,334) (5,109) Additions to investments (1,334) (5,109)	Inventories	87	(173)
Other taxes assets and liabilities, net (85) (540) Other assets and liabilities, net 460 14,373 Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) (100) Income taxes (60) (60) (60) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities 374 4 Cash flow from investing activities (1,334) (5,109) Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 <	Suppliers and contractors	333	452
Other assets and liabilities, net 460 14,373 Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Income taxes received (paid), net (note 19) (790) (649) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities: 11,452 16,164 Cash flow from investing activities: 11,334 (5,109) Additions to investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Net cash used i	Payroll and related charges	153	(1,075)
Cash provided from operations 17,453 20,121 Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) Income taxes (60) (60) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments (10,261) (11,483) Net cash low from financing activities (10,261) (11,483) Cash flow from financing a	Other taxes assets and liabilities, net	(85)	(540)
Dividends and interest on capital received from subsidiaries 186 717 Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) (100) Income taxes (60) (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities: (34) 374 Loans and advances received (341) 65 Additions to investments redeemed (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments (10,261) (11,483) Cash flow from financing activities: (10,261) (11,483) Cash flow from financing activities: (10,261) (11,483)	Other assets and liabilities, net	460	14,373
Interest on loans with related parties received (paid), net (1,824) (1,256) Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) Income taxes (60) (60) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities: (341) 65 Financial investments redeemed (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities: (10,261) (11,483) Cash flow from financing activities: 2 14,503	Cash provided from operations	17,453	20,121
Interest on loans and borrowings paid (2,361) (1,839) Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) Income taxes (60) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities: *** *** Financial investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities (10,261) (11,483) Cash flow from financing activities: ** ** Loans and borrowings (i) ** Additions 8,221 14,503	Dividends and interest on capital received from subsidiaries	186	717
Derivatives received (paid), net (note 19) (790) (649) Interest on participative stockholders debentures paid (117) (117) Income taxes (60) (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities: Very cash provided by operating activities: Very cash provided by operating activities: Financial investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities (10,261) (11,483) Cash flow from financing activities: Loans and borrowings (i) 4,314 Additions 8,221 14,503	Interest on loans with related parties received (paid), net	(1,824)	(1,256)
Interest on participative stockholders debentures paid (117) Income taxes (60) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities: Financial investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities: Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503		(2,361)	(1,839)
Interest on participative stockholders debentures paid (117) Income taxes (60) Income taxes - Settlement program (1,035) (930) Net cash provided by operating activities 11,452 16,164 Cash flow from investing activities: Financial investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities: Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503	Derivatives received (paid), net (note 19)	(790)	(649)
Income taxes(60)Income taxes - Settlement program(1,035)(930)Net cash provided by operating activities11,45216,164Cash flow from investing activities:374Financial investments redeemed(34)374Loans and advances received(341)65Additions to investments(1,334)(5,109)Additions to property, plant and equipment and intangible(9,070)(11,847)Dividends and interest on capital received from associates and joint ventures403718Proceeds from disposal of assets and investments1154,316Net cash used in investing activities(10,261)(11,483)Cash flow from financing activities:Cash flow from financing activities:4,316Loans and borrowings (i)8,22114,503		(117)	
Net cash provided by operating activities Cash flow from investing activities: Financial investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503		(60)	
Cash flow from investing activities: Financial investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities (10,261) (11,483) Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503	Income taxes - Settlement program	(1,035)	(930)
Financial investments redeemed (34) 374 Loans and advances received (341) 65 Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities (10,261) (11,483) Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503	Net cash provided by operating activities	11,452	16,164
Loans and advances received(341)65Additions to investments(1,334)(5,109)Additions to property, plant and equipment and intangible(9,070)(11,847)Dividends and interest on capital received from associates and joint ventures403718Proceeds from disposal of assets and investments1154,316Net cash used in investing activities(10,261)(11,483)Cash flow from financing activities:Loans and borrowings (i)8,22114,503	Cash flow from investing activities:		
Additions to investments (1,334) (5,109) Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities (10,261) (11,483) Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503	Financial investments redeemed	(34)	374
Additions to property, plant and equipment and intangible (9,070) (11,847) Dividends and interest on capital received from associates and joint ventures 403 718 Proceeds from disposal of assets and investments 115 4,316 Net cash used in investing activities (10,261) (11,483) Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503	Loans and advances received	(341)	65
Dividends and interest on capital received from associates and joint ventures Proceeds from disposal of assets and investments Net cash used in investing activities Cash flow from financing activities: Loans and borrowings (i) Additions 403 718 4,316 (10,261) (11,483) (10,261) (11,483)	Additions to investments	(1,334)	(5,109)
Dividends and interest on capital received from associates and joint ventures Proceeds from disposal of assets and investments Net cash used in investing activities Cash flow from financing activities: Loans and borrowings (i) Additions 403 718 4,316 (10,261) (11,483) (10,261) (11,483)	Additions to property, plant and equipment and intangible	(9,070)	(11,847)
Net cash used in investing activities (10,261) (11,483) Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503		403	718
Cash flow from financing activities: Loans and borrowings (i) Additions 8,221 14,503	Proceeds from disposal of assets and investments	115	4,316
Loans and borrowings (i) Additions 8,221 14,503	Net cash used in investing activities	(10,261)	(11,483)
Additions 8,221 14,503			
	Loans and borrowings (i)		
Repayments (9,011) (9,839)	Additions	8,221	14,503
	Repayments	(9,011)	(9,839)

Transactions with related parties	(423)	
Transactions with stockholders:		
Dividends and interest on capital paid to noncontrolling interest		(3,101)
Net cash provided by (used in) financing activities	(1,213)	1,563
Increase (decrease) in cash and cash equivalents	(22)	6,244
Cash and cash equivalents in the beginning of the period	518	685
Cash and cash equivalents at end of the period	496	6,929
Non-cash transactions:		
Additions to property, plant and equipment - capitalized loans and borrowing costs	827	892

⁽i) Includes transactions with related parties: Bradesco, Banco do Brasil and Banco Nacional do Desenvolvimento economico e Social - BNDES.

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

See Report on the review of quarterly information ITR.

Condensed Balance Sheet

In millions of Brazilian Reais

		Consolidated		Pare	nt company
		September 30,		September 30,	
	Notes	2016	December 31, 2015	2016	December 31, 2015
Assets					
Current assets					
Cash and cash equivalents	7	17,428	14,022	496	518
Financial investments		372	109	53	18
Derivative financial instruments	19	458	474	343	196
Accounts receivable	8	8,299	5,763	24,541	36,026
Inventories	9	12,659	13,775	3,924	3,830
Recoverable income taxes		1,029	3,513	645	3,176
Recoverable taxes		5,205	5,482	3,668	3,352
Related parties	25	215	273	739	834
Others		2,114	1,215	672	581
		47,779	44,626	35,081	48,531
		,	,	,	,
Non-current assets held for sale	5	15,545	15,792		
		63,324	60,418	35,081	48,531
Non-current assets		,-	,		-)
Derivative financial instruments	19	1,635	363	1.361	293
Loans	-,	592	732	110	106
Recoverable income taxes		1,760	1,840		
Recoverable taxes		2,234	1,956	1,753	1,457
Deferred income taxes	15(a)	22,234	30,867	13,256	17,292
Judicial deposits	14(c)	3,485	3,445	2,803	2,707
Related parties	25	62	5,115	828	1,468
Others	23	2,144	2,392	554	765
GHEIS		34,146	41,600	20,665	24,088
		34,140	41,000	20,002	24,000
Investments	10	12,908	11,481	120,422	127,517
Intangibles	11	22,589	20.789	11.435	8,557
Property, plant and equipment	12	198,430	211,259	100,095	96,887
roperty, plant and equipment	12	268,073	285,129	252,617	257,049
Total assets		331,397	345,547	287,698	305,580
Total assets		331,377	373,377	207,070	303,300
Liabilities					
Current liabilities					
Suppliers and contractors		12,177	13,140	6,897	7,084
Payroll and related charges		1,924	1,464	1,221	806
Derivative financial instruments	19				
		2,816	8,107	2,265	3,559
Loans and borrowings	13 25	7,080	9,788	5,291	4,736
Related parties	23	1,811	1,856	9,934	6,774

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Income taxes - Settlement program	15(c)	1,458	1,348	1,428	1,320
Taxes payable	(-)	601	977	365	460
Provision for income taxes		500	943		
Employee postretirement obligations	16	235	266	65	72
Asset retirement obligations		227	346	73	83
Liabilities related to associates and joint					
ventures	4	1,069		1,069	
Others		4,824	2,531	830	825
		34,722	40,766	29,438	25,719
Liabilities associated with non-current					
assets held for sale	5	484	416		
		35,206	41,182	29,438	25,719
Non-current liabilities					
Derivative financial instruments	19	3,789	5,581	3,258	4,745
Loans and borrowings	13	95,010	102,878	47,579	55,986
Related parties	25	445	830	50,107	63,837
Employee postretirement obligations	16	6,861	6,831	493	483
Provisions for litigation	14(a)	2,984	3,210	1,967	2,190
Income taxes - Settlement program	15(c)	16,156	15,953	15,825	15,626
Deferred income taxes	15(a)	5,440	6,520		
Asset retirement obligations		10,289	9,313	1,627	1,291
Participative stockholders debentures		2,137	1,336	2,137	1,336
Deferred revenue - Gold stream	23	7,004	6,830		
Liabilities related to associates and joint					
ventures	4	2,580		2,580	
Others		7,706	5,664	3,753	3,207
		160,401	164,946	129,326	148,701
Total liabilities		195,607	206,128	158,764	174,420
Stockholders equity					
Equity attributable to Vale s					
stockholders	20	128,934	131,160	128,934	131,160
Equity attributable to noncontrolling					
interests		6,856	8,259		
Total stockholders equity		135,790	139,419	128,934	131,160
Total liabilities and stockholders					
equity		331,397	345,547	287,698	305,580

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

See Report on the review of quarterly information ITR.

Condensed Statement of Changes in Equity

capital

77,300

Balance at

December 31,

of shares

50

interest

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	to Vale s	Equity attributable to noncontrolling interests	Total stockholo equity
Balance at December 31,											
	77,300	50	(1,881)	3,846	(2,746)	(3,873)	58,464		131,160	8,259	139,
Net income	77,500	50	(1,001)	3,040	(2,740)	(3,073)	50,404	11,738	11,738	95	
Other								11,750	11,750	,,	11,
comprehensive											
income:											
Retirement											
benefit											
obligations						(760)			(760))	(
Cash flow hedge						26			26		
Translation											
adjustments						420	(13,658))	(13,238)	(930)) (14,
Transactions											
with											
stockholders:											
Dividends of											
noncontrolling											
interest										(645)) (
Acquisitions											
and disposal of											
participation of											
noncontrolling											
interest			8						8	(1))
Capitalization of											
noncontrolling											
interest											
advances										78	
Balance at											
September 30,			(4.6)	• • • •	(A = 6 = 5	(4.4	44.00	44	10000		46-
2016	77,300	50	(1,873)	3,846	(2,746)	(4,187)	44,806	11,738	128,934	6,856	135,
		Dogulta c	Results from			Unrealized	Cumulati	Datain-J	Equity attributable	Equity offship	Taka
	Share		operation with noncontrolling	Profit	Treasury	fair value gain	Cumulative translation	earnings	to Vale s	Equity attributable to noncontrolling	Total stockhol

(losses)

(4,553)

adjustments

24,248

(loss)

stocks

(2,746)

reserves

(970) 53,085

3,187

equit

149

interests

stockholders

146,414

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2014											
Loss							((11,058)	(11,058)	(721)	(11,
Other											
comprehensive											
income:											
Retirement											
benefit											
obligations						32			32		
Cash flow hedge						957			957		
Translation											
adjustments						(1,089)	36,304		35,215	1,631	36.
Transactions											
with											
stockholders:											
Dividends of											
noncontrolling										(21)	
interest										(21)	
Acquisitions											
and disposal of											
participation of											
noncontrolling			((2)				(1.000)		(570)	4.746	4
interest			663				(1,233)		(570)	4,746	4,
Capitalization of											
noncontrolling											
interest										0.6	
advances										86	
Dividends and											
interest on											
capital of Vale s	3			(2.101)					(2.101)		(2
stockholders				(3,101)					(3,101)		(3,
Balance at											
September 30,	 200	70	(205)	40.004	(2.540)	(4.653)	50.210	(4.4.050)	4 / 5 000	0.000	150
2015	77,300	50	(307)	49,984	(2,746)	(4,653)	59,319 ((11,058)	167,889	8,908	176

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

See Report on the review of quarterly information ITR.

9

Condensed Value Added Statement

In millions of Brazilian Reais

	Consolida		Parent con	npany
	2016	Nine months period end 2015	2016	2015
Generation of value added from continuing operations	2010	2013	2010	2013
Gross revenue				
Revenue from products and services	70,031	63,889	32,841	31,621
Results on measurement or sale of non-current assets	(604)	481	(266)	601
Revenue from the construction of own assets	10,114	21,156	7,921	12,739
Allowance for doubtful accounts	(15)	44	(2)	(4)
Other revenues	1,269	1,781	315	399
Less:	,	,		
Acquisition of products	(1,267)	(1,931)	(572)	(515)
Material, service and maintenance	(24,898)	(32,770)	(14,576)	(18,588)
Oil and gas	(3,399)	(3,133)	(2,029)	(1,926)
Energy	(2,010)	(1,463)	(757)	(710)
Freight	(6,052)	(8,181)	(49)	
Other results in investments	(3,839)	, , ,	(3,839)	
Other costs and expenses	(4,282)	(7,036)	(1,315)	(1,502)
Gross value added	35,048	32,837	17,672	22,115
Depreciation, amortization and depletion	(9,694)	(9,709)	(3,717)	(3,330)
Net value added	25,354	23,128	13,955	18,785
Received from third parties				
Equity results from entities	1,396	(1,361)	5,970	(4,720)
Financial income	469	541	241	259
Monetary and exchange variation of assets	(6,299)	13,172	(6,461)	14,255
Total value added to be distributed	20,920	35,480	13,705	28,579
Personnel	6,068	6,761	2,141	3,258
Taxes and contributions	6,192	6,136	4,911	4,756
Current income tax	2,887	761	2,161	(18)
Deferred income tax	6,411	(19,927)	4,059	(17,587)
Financial expense (excludes capitalized interest)	3,707	13,062	4,415	9,206
Monetary and exchange variation of liabilities	(17,343)	39,332	(18,020)	38,409
Other remunerations of third party funds	1,165	1,134	2,300	1,613
Reinvested net income (absorbed loss)	11,738	(11,058)	11,738	(11,058)
Net income (loss) attributable to noncontrolling interest	95	(721)		
Distributed value added	20,920	35,480	13,705	28,579

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

See Report on the review of quarterly information ITR.

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Table of Contents
Selected Notes to the Interim Financial Statements
Expressed in millions of Brazilian Reais, unless otherwise stated
1. Corporate information
Vale S.A. (the Parent Company) is a public company headquartered at 700, Avenida das Américas, 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) and Paris - NYSE Euronext (Vale3 and Vale5).
Vale and its direct and indirect subsidiaries (Vale , Group or Company) are 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 Group also produces copper, metallurgical and thermal coal, potash, phosphates and other fertilizer nutrients, 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 financial statements, and only this information, are being presented and correspond to those used by the Company s Management.
The consolidated financial statements present the accounts of the Group.
The individual financial statements present the accounts of the Parent Company and are presented in a summarized form in note 26.

b) Basis of presentation

The interim financial statements have been prepared under the historical cost convention as adjusted to reflect: (i) the fair value of financial instruments measured at fair value through 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, 2015. 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, 2015.

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

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

				Average ra	ate for the	
	Closing	g rate	Three month	s period ended	Nine months period ended	
	September 30, 2016	December 31, 2015	September 30, 2016	September 30, 2015	September 30, 2016	September 30, 2015
US dollar (US\$)	3.2462	3.9048	3.2460	3.5379	3.5450	3.1684
Canadian dollar (CAD)	2.4757	2.8171	2.4881	2.7024	2.6802	2.5090
Australian dollar (AUD)	2.4895	2.8532	2.4616	2.5642	2.6273	2.4067
Euro (EUR or)	3.6484	4.2504	3.6232	3.9365	3.9549	3.5285

Subsequent events were evaluated through October 26, 2016, which is the date the interim financial statements were approved by the Board of Directors.

c) Accounting standards issued but not yet effective

The standards and interpretations issued by IASB relevant to the Company but not yet effective are disclosed below:

- IFRS 9 Financial instruments.
- IFRS 15 Revenue from contracts with customers.
- IFRS 16 Leases.
- Amendments to IAS 12 Recognition of deferred tax assets.
- Amendments to IAS 7 Disclosure Initiative.
- Amendments to IFRS 2 Classification and measurement of share-based payment transactions.
- Amendments to IFRS 4 Applying IFRS 9 Financial Instruments with IFRS 4 Insurance Contracts.

The Company is currently analyzing potential impacts regarding these pronouncements on its financial statements.

3. Information by business segment

The information presented to the Executive Board on the performance of each segment is derived from the accounting records.

a) Adjusted EBITDA

Adjusted EBITDA is used by management to support the decision making process for segments. The definition of adjusted EBITDA for the Company is the operating income or loss less (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.

			Three mont	Consolidated hs period ended Septe	mber 30, 2016		
	Net operating revenue	Cost of goods sold and services rendered		Research and evaluation expenses	1 0	Dividends received from associates and joint ventures	Adjusted EBITDA
Ferrous minerals							
Iron ore	12,275	(5,347)	(254)	(81)	(131)	1	6,463
Pellets	3,217	(1,662)	(27)	(13)	(16)		1,499
Ferroalloys and							
manganese	245	(205)	(18)		(10)		12
Other ferrous products and							
services	358	(226)	(1)	(1)	(3)		127
	16,095	(7,440)	(300)	(95)	(160)	1	8,101
Coal	530	(509)	20	(11)	(42)		(12)
Base metals							
Nickel and other							
products	3,763	(2,573)		(67)	(86)		948
Copper	1,365	(825)		(6)			526
Other base metals			481				481

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products							
	5,128	(3,398)	384	(73)	(86)		1,955
Fertilizers							
Potash	110	(112)	(5)	(2)	(14)		(23)
Phosphates	1,526	(1,344)	(76)	(13)	(1)		92
Nitrogen	225	(171)	(9)	(2)			43
Other							
fertilizers							
products	80						80
	1,941	(1,627)	(90)	(17)	(15)		192
Others	78	(190)	(215)	(79)	(1)		(407)
Total	23,772	(13,164)	(201)	(275)	(304)	1	9,829

Consolidated Three months period ended September 30, 2015

		Cost of goods sold	Sales, administrative	ntiis period ended sep	2012	Dividends received	
	Net operating	and services rendered	and other operating	Research and	Pre operating and operational stoppage	from associates and joint ventures	Adjusted EBITDA
Ferrous	revenue	rendered	expenses	evaluation expenses	operational stoppage	joint ventures	Aujusteu EDITDA
minerals							
Iron ore	11,792	(6,574)	(591)	(92)	(77)	1	4,459
Pellets	3,150	(1,811)		(4)	(17)		1,367
Ferroalloys	3,130	(1,011)	72	(4)	(17)		1,507
and							
manganese	99	(107)	(9)		(15)		(32)
Other	,,,	(107)	(2)		(13)		(32)
ferrous							
products							
and							
services	446	(247)	13	(2)			210
SCI VICES	15,487	(8,739)		(98)	(109)	1	
	12,407	(0,757)	(556)	(30)	(10)	•	0,004
Coal	453	(735)	(65)	(25)	(90)		(462)
		(100)	(41)	(=1)	(- 4)		()
Base							
metals							
Nickel and							
other							
products	3,618	(2,953)	35	(83)	(340)		277
Copper	1,245	(796)	(4)	(11)	, ,		434
• •	4,863	(3,749)		(94)	(340)		711
Fertilizers	Í			ì	Ì		
Potash	146	(102)	(4)	(53)	(28)		(41)
Phosphates	1,990	(1,291)	(15)	(26)	(69)		589
Nitrogen	282	(180)	(2)	(2)	(5)		93
Other							
fertilizers							
products	61						61
	2,479	(1,573)	(21)	(81)	(102)		702
Others	68	(152)	10	(135)		70	(139)
Total	23,350	(14,948)	(583)	(433)	(641)	71	6,816
1 otai	23,330	(17,740)	(303)	(433)	(041)	/1	0,010

Consolidated	
Nine months period ended September 30, 20	16

	Net operating revenue	and services	Sales, administrative and other operating expenses	Research and evaluation expenses	Pre operating and operational stoppage	Dividends received from associates and joint ventures	
Ferrous	7,tt. 3F3 8			•	Operation in the state of the s	,	
minerals							
Iron ore	35,726	(16,151)	(1,379)	(180)	(376)) 1	17,641
Pellets	9,184						
Ferroalloys							
and							
manganese	641	(566)	(9)		(31)		35
Other							
ferrous							
products							
and							
services	1,061	(680)) 9	(4)	(9)		377
	46,612		,				
Coal	1,640	(2,476)) 184	(29)	(80))	(761
Base							
metals							
Nickel and							
other							
products	11,328	(8,267)	(194)	(200)	(299)) 1	2,369
Copper	4,129						1,680
Other base							
metals							
products			481				481
	15,457	(10,671)		(212)	(299)) 1	
Fertilizers							
Potash	276	(261)) 9	(13)	(42))	(31
Phosphates		(/	,				266
Nitrogen	661						137
Other							
fertilizers							
products	198					10	208
p.o	5,061) (234)	(55)	(46)		
	.,.			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Others	272	(555)) (362)	(276)	(2)) 191	1 (73:
0 11101							
Total	69,042	(40,226)	(1,690)	(783)	(904)) 416	5 25,85

15

Consolidated
Nine months period ended September 30, 2015

		C 4 C 1 11		ııns perioa enaea Sep	tember 50, 2015	D: 11 . 1	
	Net operating	and services	Sales, administrative and other operating	Research and	Pre operating and	Dividends received from associates and	
	revenue	rendered			operational stoppage	joint ventures	Adjusted EBITDA
Ferrous			•	•	1 3	v	J
minerals							
Iron ore	30,102	(18,111)	(1,665)	(295)	(225)	1	9,807
Pellets	8,916	(5,265)	60	(11)	(60)	624	4,264
Ferroalloys							
and							
manganese	471	(409)	(9)	(1)	(43)		9
Other							
ferrous							
products							
and							
services	1,199	(825)		(8)	(3)		
	40,688	(24,610)	(1,577)	(315)	(331)	650	14,505
Coal	1,322	(1,855)	(397)	(59)	(161)		(1,150)
Base							
metals							
Nickel and							
other							
products	11,285	(7,953)	. ,	(233)	(1,015)		1,851
Copper	3,602	(2,127)	(35)	(20)	(3)		1,417
Other base							
metals							
products	4400=	(10.000)	722	(2-2)	(4.040)		722
T. (111	14,887	(10,080)	454	(253)	(1,018)		3,990
Fertilizers	226	(221)	1.4	(100)	(50)		(56)
Potash	326			(123)	(52)		(56)
Phosphates	4,380	(2,949)		(65)	(134)		1,157
Nitrogen	747	(496)	(9)	(6)	(12)		224
Other							
fertilizers	127						127
products	137	(2.660)	(70)	(104)	(100)		137
	5,590	(3,666)	(70)	(194)	(198)		1,462
Others	331	(326)	(294)	(322)	(1)	72	(540)
Others	331	(320)	(294)	(322)	(1)	12	(340)
Total	62,818	(40,537)	(1,884)	(1,143)	(1,709)	722	18,267
1 Otal	02,010	(40,337)	(1,004)	(1,143)	(1,709)	122	10,207

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

	Three months period ended September 30 2016 2015		Nine months pe Septembe	
			2016	2015
Adjusted EBITDA	9,829	6,816	25,855	18,267
Depreciation, depletion and amortization	(3,127)	(3,670)	(9,694)	(9,709)
Dividends received from associates and joint				
ventures	(1)	(71)	(416)	(722)
Results on measurement or sale of non-current				
assets	(110)	(189)	(338)	185
Operating income	6,591	2,886	15,407	8,021
Financial results, net	(3,413)	(25,847)	8,433	(37,901)
Equity results in associates and joint ventures	149	(1,204)	1,396	(1,361)
Others results in associates and joint ventures	(106)		(4,105)	296
Income taxes	(1,355)	17,077	(9,298)	19,166
Income (loss) attributable to noncontrolling				
interests	(24)	425	(95)	721
Income (loss) attributable to Vale s				
stockholders	1,842	(6,663)	11,738	(11,058)

b) Assets by segment

	Product inventory	September 30, 2016 Investments in associates and joint ventures	Property, plant and equipment and intangible assets	Three months period ended September 30, 2016 Additions to property, plant and equipment and intangible (i)	Nine months period ended September 30, 2016 Additions to property, plant and equipment and intangible (i)
Ferrous minerals	4,176	5,944	111,487	2,586	8,855
Coal	307	944	6,340	494	1,574
Base metals	3,706	52	81,101	595	2,465
Fertilizers	805	293	14,785	338	737
Others	8	5,675	7,306	44	104
Total	9,002	12,908	221,019	4,057	13,735

⁽i) Includes only cash effect .

	Product inventory	December 31, 2015 Investments in associates and joint ventures	Property, plant and equipment and intangible assets	Three months period ended September 30, 2015 Additions to property, plant and equipment and intangible (i)	Nine months period ended September 30, 2015 Additions to property, plant and equipment and intangible (i)
Ferrous minerals	4,044	5,775	110,123	3,888	12,087
Coal	206	1,195	7,075	1,168	3,371
Base metals	4,552	66	91,849	1,302	3,199
Fertilizers	1,156	292	15,096	195	504
Others	10	4,153	7,905	63	205
Total	9,968	11,481	232,048	6,616	19,366

⁽i) Includes only cash effect.

c) Revenues by geographic area

Consolidated Three months period ended September 30, 2016

	Three months period ended September 30, 2016					
	Ferrous minerals	Coal	Base metals	Fertilizers	Others	Total
Americas, except United States and						
Brazil	260		986	37		1,283
United States of America	177		597			774
Europe	2,028	180	1,448	69		3,725
Middle East/Africa/Oceania	1,083	43	14			1,140
Japan	1,207	56	302			1,565
China	8,827	53	557			9,437
Asia, except Japan and China	930	198	1,083	31		2,242
Brazil	1,583		141	1,804	78	3,606
Net operating revenue	16,095	530	5,128	1,941	78	23,772

Consolidated Three months period ended September 30, 2015

	Ferrous					
	minerals	Coal	Base metals	Fertilizers	Others	Total
Americas, except United States and						
Brazil	293	44	741	68		1,146
United States of America	33		635		11	679
Europe	2,196	88	1,566	135		3,985
Middle East/Africa/Oceania	819	56	28	10		913
Japan	1,396	73	308			1,777
China	8,545	80	627			9,252
Asia, except Japan and China	808	107	799	43		1,757
Brazil	1,397	5	159	2,223	57	3,841
Net operating revenue	15,487	453	4,863	2,479	68	23,350

Consolidated Nine months period ended September 30, 2016

	-	1 1111	e montins period end	ica september 20, 20	,10	
	Ferrous minerals	Coal	Base metals	Fertilizers	Others	Total
Americas, except United States and						
Brazil	875	50	3,054	99		4,078
United States of America	493		1,887		14	2,394
Europe	5,996	283	4,818	246		11,343
Middle East/Africa/Oceania	2,720	195	62	10		2,987

Japan	3,260	303	762			4,325
China	26,514	172	1,566			28,252
Asia, except Japan and China	2,334	637	2,947	178		6,096
Brazil	4,420		361	4,528	258	9,567
Net operating revenue	46,612	1,640	15,457	5,061	272	69,042

Consolidated Nine months period ended September 30, 2015

	Ferrous minerals	Carl	Dana matala	Fertilizers	O4h	Total
	minerais	Coal	Base metals	rerunzers	Others	1 otai
Americas, except United States and						
Brazil	872	57	2,628	166		3,723
United States of America	76		2,027		57	2,160
Europe	5,992	239	4,582	322		11,135
Middle East/Africa/Oceania	2,552	255	195	19		3,021
Japan	3,668	188	872			4,728
China	20,719	118	1,599			22,436
Asia, except Japan and China	2,700	409	2,288	151		5,548
Brazil	4,109	56	696	4,932	274	10,067
Net operating revenue	40,688	1,322	14,887	5,590	331	62,818

4. 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) Reparation agreement

Samarco and its shareholders, Vale S.A. and BHPB, entered into an Agreement in connection with the R\$20.2 billion lawsuit (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 Agreement does not contemplate admission of civil, criminal or administrative liability for the Fundão dam failure.

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

Table of Contents
been performed.
Under the Agreement, Samarco, Vale S.A. and BHPB have agreed to establish a foundation to develop and implement social and economic remediation and compensation, to be funded by Samarco as follows: R\$2.0 billion in 2016, R\$1.2 billion in 2017 and R\$1.2 billion in 2018. From 2019 to 2021, Samarco agreed to provide funding based on the amounts needed to implement the projects approved for the relevant year, subject to an annual minimum of R\$800 and an annual maximum of R\$1.6 billion. From 2022 onwards, Samarco will provide the necessary funding in order to complete remaining programs approved for each relevant year. The foundation will allocate an annual amount of R\$240 over 15 years to the implementation of compensation programs, and these annual amounts are included in the annual contributions described above for the first six years. Through the end of 2018, R\$500 will be provided for sewage collection and treatment and solid waste disposal under the terms of the Agreement.
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 Agreement, funds to the Foundation in proportion to its 50% equity interest in Samarco.
On June 24, 2016, the Renova Foundation (Foundation) was constituted, under the Agreement, to develop and implement the socioeconomic and environmental's restoration and compensation programs. The Foundation began its operations in August of 2016.
As the consequence of the dam failure, the governmental authorities ordered the suspension of Samarco s operations.
b) Estimates used for the provision
The Samarco initially expected to resume its operations in the last quarter of 2016. Based on this assumption, Samarco's cash flow projections indicated that Samarco would be able to generate all or a substantial part of the funding required under the Agreement. This assumption was supported by studies of technical solutions available, combined with the progress of the repair works on the remaining dam structures after the dam failure and the definition of the contractual scope of the remediation measures and compensation to the communities impacted by the dam failure. Consequently, no provision was recognized in the Company's financial statements as of March 31, 2016.
However, in view of the current stage of the necessary procedures to resume operations and the uncertainties related to the licensing approval by the governmental authorities during the current year, Samarco reviewed its assumption and concluded that was unable to make a reliable estimate of how and when its operations will resume.

Therefore, the Company recognized a provision on its interim financial statements as of June 30, 2016, in the amount of R\$5,560 which was discounted at a free-risk rate, resulting in R\$3,733 liability, which represents its best estimate of the obligation to comply with the reparation and compensation programs under the Agreement, equivalent to the percentage of 50% entered into under the Agreement by Vale.

On August, 2016, Samarco issued non-convertible private debentures which were subscribed equally by the Company and BHPB, and the resources contributed by Vale S.A. were allocated as follows: (i) R\$146 was used by Samarco in the reparation programs in accordance with the agreement, and therefore, discounted from the provision of R\$3,733 mentioned above; and (ii) R\$106 applied by Samarco's to fund its working capital, and recognized in the income statement as Others results in associates and joint ventures in the third quarter of 2016. Funds to working capital requirements will be released on an as-needed basis by the shareholders and will be subject to achieving certain milestones, without undertaking an obligation to Samarco.

For the period ended in September 2016, the movements of the provision are as follows:

Balance at June 30, 2016	3,733
Payments	(146)
Interests	62
Balances at September 30, 2016	3,649
Current liabilities	1,069
Non-current liabilities	2,580
	19

Table of Contents
At each reporting period, the Company 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) Relevant information of Samarco
Samarco disbursed R\$285 and R\$1,016 in the accident reparation during the three and nine months period ended September 30, 2016,
respectively. Since the initial date of the accident, R\$1,141 has been disbursed to comply with the obligations under the agreement.
d) Contingencies related to Samarco accident
(i) Public civil claim filed by the Federal Government and others
The federal government, the two Brazilian states affected by the failure (Espirito Santo and Minas Gerais) and other governmental authorities have initiated a public civil lawsuit against Samarco and its shareholders, Vale S.A. and BHPB, which the estimated value indicated by the
plaintiffs in R\$20.2 billion.
On May 5, 2016, the Agreement was ratified by the Federal Regional Court (TRF), 1st Region signed in March 2, 2016. In July, 2016 the
Superior Court of Justice (STJ) in Brazil issued an interim order, suspending the decision of TRF, which ratified the Agreement until the final judgments of the claim.
On August 17, 2016, the TRF of the 1st Region has rejected the appeal presented by Samarco, Vale S.A. e BHPB against the interim order and
overruled the judicial decision that ratified the Agreement. The decision granted by 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.
Only the judicial decision that ratified the Agreement was suspended and, therefore, the Agreement between the parties remains valid, and the

parties will continue fulfilling their obligations under the Agreement.

(ii) U.S. Securities class action suits

Vale S.A. and certain of its officers have been named as defendants in securities class action suits in 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 omitted to 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 in these actions. Vale S.A. intends to vigorously mount a full defense against the allegations. The litigation is at a very early stage. On March 7, 2016, the judge overseeing the securities class actions issued an order consolidating these actions and designating lead plaintiffs and counsel. On April 29, 2016, lead plaintiffs filed a Consolidated Amended Complaint that will serve as the operative complaint in the litigation. In July 2016, Vale S.A. and the individual defendants filed a motion to dismiss the Amended Complaint. In August 2016, the plaintiffs submitted their opposition to the motion to dismiss, which was replied by the defendants in September 2016. The decision on the motion to dismiss remains pending.

(iii) Public civil action filed by Federal Prosecution Office

On May 3, 2016, the Federal Prosecution Office (MPF) filed a public civil action 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 initial action value claimed by the Federal Prosecution Office (MPF) is R\$155 billion. The first conciliatory hearing was held on September 13th and a second hearing might be scheduled by the judge.

(iv) Criminal lawsuit

On October 20, 2016, the Federal Prosecutors Office (MPF) offered a criminal lawsuit to the Brazilian Federal Justice Court against Vale, 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. The MPF also requested that, if found guilty at the end of the criminal procedure, and the accused, the Judge imposes the minimum amount needed to repair the damage caused by the dam failure. So far, Vale was not serviced to present its defense.

(v) Other lawsuits

In addition, Samarco and its shareholders were named as a defendant in several other lawsuits brought by individuals, corporations and governmental entities seeking damages for material or personnel damages.

These lawsuits and petitions are at very early stages, thus it is not possible to determine a range of outcomes and/or reliable estimates of the potential exposure at this time. No contingent liability has been quantified and no provision was recognized for these other lawsuits.

5. Non-current assets and liabilities held for sale

	September 30	, 2016	December 3	31, 2015
	Shipping assets	Nacala	Total	Nacala
Non-current assets held for sale				
Accounts receivable		37	37	13
Other current assets		312	312	522
Property, plant and equipment and Intangible, net	1,613	13,583	15,196	15,257
Total assets	1,613	13,932	15,545	15,792
Liabilities associated with non-current assets				
held for sale				
Suppliers and contractors		449	449	365
Other current liabilities		35	35	51
Total liabilities		484	484	416
Net non-current assets held for sale	1,613	13,448	15,061	15,376

a) Shipping assets

In June 2016, Vale approved a plan to dispose its fleet of ships. As a consequence, the referenced assets were reclassified to non-current assets held for sale and a loss of R\$202 was recorded in the income statement as Results on measurement or sale of non-current assets .

b) Coal - Nacala logistic corridor (Nacala)

See note 6.

6. Acquisitions and divestitures

2016

Coal assets - In December 2014, the Company signed an agreement with Mitsui & Co., Ltd. (Mitsui) to sell 50% of its stake in the Nacala corridor and 15% of Vale's stake in Vale Moçambique. After completion of the transaction, Vale will indirectly own 81% of the Moatize mine and approximately 50% of Nacala Assets, sharing control with Mitsui and therefore will not consolidate the assets, liabilities and results of Nacala Corridor. On that date, the assets and liabilities related to Nacala were classified as non-current assets held for sale with no impact in the income statement.

In September 2016, the Company reviewed the terms related to this transaction, in which Mitsui agreed to contribute up to US\$450 (R\$1,450), being: (i) US\$255 (R\$822) for a 15% of Vale s stake in the Moatize coal mine; and (ii) an additional contribution of up to US\$195 (R\$629) based on meeting certain conditions, including mine performance. Mitsui will also contribute US\$348 (R\$1,122) for a 50% stake in the equity and quasi-equity instruments of the Nacala and extend a long-term facility of US\$165 (R\$532).

As at September 2016, completion of the transaction remains subject to successful completion of the Project Finance and certain government approvals.

Shipping assets In June 2016, the Company concluded the sale of three vessels VLOC s of 400,000 tons for the consortium led by ICBC *International* (ICBC) and recognized a loss of R\$26 in the income statement as Results on measurement or sales of non-current assets . For this transaction, Vale received cash proceeds of R\$863 in the third quarter of 2016.

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

Minas da Serra Geral S.A. (MSG) In March 2016, the Company completed the purchase option on additional 50% participation at MSG which was owned by JFE Steel Corporation (JFE) in the amount of R\$65. Vale now holds 100% of MSG s total stockholder s equity.

2015

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

7. Cash and cash equivalents

	Cor	solidated
	September 30, 2016	December 31, 2015
Cash and bank deposits	9,482	7,881
Short-term investments	7,946	6,141
	17,428	14,022

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.

8. Accounts receivable

	Consolidated				
	September 30, 2016	December 31, 2015			
Trade receivables	8,509	5,988			
Provision for doubtful debts	(210)	(225)			
	8,299	5,763			
Trade receivables related to the steel sector - %	74.66%	75.32%			

	Consolidated						
	Three months period en	ided September 30	Nine months period ende	ed September 30			
	2016	2015	2016	2015			
Provision for doubtful debts recorded in							
the income statement	(1)	(39)	1	(44)			
Trade receivables write-offs recorded							
in the income statement	(7)	4	(16)	(16)			

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

9. Inventories

	Consolidate	ed
	September 30, 2016	December 31, 2015
Product inventory	9,978	11,991
Impairment of product inventory	(976)	(2,023)
	9,002	9,968
Consumable inventory	3,657	3,807
Total	12,659	13,775

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

10. Investments in associates and joint ventures

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

	Consolidated	
	2016	2015
Balance at June 30,	12,721	13,057
Additions	31	22
Disposals	(14)	
Translation adjustment	7	482
Equity results in income statement	149	(1,204)
Dividends declared	0	(30)
Others	14	(7)
Balance at September 30,	12,908	12,320

	Consolidated		
	2016	2015	
Balance at January 1st	11,481	10,978	
Acquisitions		1,819	
Additions	856	76	
Disposals	(14)	241	
Translation adjustment	(360)	732	
Equity results in income statement	1,396	(1,361)	
Dividends declared	(419)	(253)	
Transfer to held for sale		(15)	
Others	(32)	103	
Balance at September 30,	12,908	12,320	

Investments in associates and joint ventures (continued)

			Investments in as	sociates and joint T	Equity 1	solidated results in l				ividends		
	%	% voting	vent	ures	en	ded	ene	ded	ene	ded	enc	ded
Joint ventures	ownership	capital	September 30, 2016	December 31, 2015	2016	2015	2016	2015	2016	2015	2016	2015
Aliança Geração de												
Energia S.A. (i)	55.00	55.00	1,910	1,876	34	24	112	83		56	79	56
Aliança Norte												
Energia Participações												
S.A. (i)	51.00	51.00	463	316	7	(2)	(5)	3				
California Steel	50.00	5 0.00	55.5	(10	- 1	(25)	. =	((0)				
Industries, Inc.	50.00	50.00	576	613	54	(27)	67	(68)				
Companhia Coreano-Brasileira de												
Pelotização	50.00	50.00	216	242	8	28	41	59			45	33
Companhia	50.00	20.00	210	212	O .	20		37			15	55
Hispano-Brasileira de												
Pelotização (i)	50.89	51.00	206	222	13	19	35	37			65	44
Companhia												
Ítalo-Brasileira de												
Pelotização (i)	50.90	51.00	232	194	16	24	38	51			33	36
Companhia												
Nipo-Brasileira de Pelotização (i)	51.00	51.11	362	406	30	40	62	112			71	51
Companhia	31.00	31.11	302	400	30	70	02	112			/1	31
Siderúrgica do Pecém	50.00	50.00	2,227	879	(171)	(865)	646	(1,060)				
J			,		,			, ,				
MRS Logística S.A.	48.16	46.75	1,612	1,436	55	28	174	98				
Samarco Mineração												
S.A. (ii)	50.00	50.00			••	(395)		(532)			4	459
Others			99	142	-	18	26	16	1	1	1	2
Associates			7,903	6,326	75	(1,108)	1,196	(1,201)	1	57	294	681
Henan Longyu												
Energy Resources												
Co., Ltd.	25.00	25.00	944	1,194	3	(36)	(32)	(28)				
Mineração Rio						` ′		` ,				
Grande do Norte S.A.		40.00	427	364		38	152	66		12	111	12
Teal Minerals Inc.	50.00	50.00			(11)	(32)	(11)	(96)				
Thyssenkrupp												
Companhia												
Siderúrgica do						(104)		(199)				
Atlântico Ltd. (iii) VLI S.A.	37.60	37.60	3,145	3,038	51	(104) 45	106	104				25
Zhuhai YPM Pellet	37.00	37.00	3,143	5,038	JI	7.7	100	10-				23
Co.	25.00	25.00	73	92				1				
			7.5					-				

Others	416	467	4	(7)	(15)	(8)		2	11	4
	5,005	5,155	74	(96)	200	(160)		14	122	41
Total of joint ventures and associates	12,908	11,481	149	(1,204)	1,396	(1,361)	1	71	416	722

⁽i) Although the Company held majority of the voting capital, the entities are accounted under equity method due to shareholders agreements.

- (ii) Note 4.
- (iii) Note 6

11. Intangibles

Changes in intangibles are as follows:

	Goodwill	Concessions	Consolidated Right of use	Software	Total
Balance at June 30, 2016	10,333	10,026	448	1,383	22,190
Additions		670		18	688
Disposals		(11)			(11)
Amortization		(335)	(2)	(127)	(464)
Translation adjustment	26	155	2	3	186
Balance at September 30, 2016	10,359	10,505	448	1,277	22,589
Cost	10,359	14,205	708	5,100	30,372
Accumulated amortization		(3,700)	(260)	(3,823)	(7,783)
	10,359	10,505	448	1,277	22,589

			Consolidated		
	Goodwill	Concessions	Right of use	Software	Total
Balance at June 30, 2015	10,746	6,659	789	1,475	19,669
Additions		499		99	598
Amortization		(120)	(37)	(127)	(284)
Translation adjustment	1,785		133		1,918
Balance at September 30, 2015	12,531	7,038	885	1,447	21,901
Cost	12,531	10,581	1,890	3,967	28,969
Accumulated amortization		(3,543)	(1,005)	(2,520)	(7,068)
	12,531	7,038	885	1,447	21,901

	Goodwill	Concessions	Consolidated Right of use	Software	Total
Balance at December 31, 2015	11,544	7,084	811	1,350	20,789
Additions		3,646	3	38	3,687
Disposals		(29)		(1)	(30)
Amortization		(606)	(7)	(413)	(1,026)
Translation adjustment	(1,185)	140	(96)	15	(1,126)
Transfers		270	(263)	288	295
Balance at September 30, 2016	10,359	10,505	448	1,277	22,589
Cost	10,359	14,205	708	5,100	30,372
Accumulated amortization		(3,700)	(260)	(3,823)	(7,783)
	10,359	10,505	448	1,277	22,589

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	~		Consolidated		
	Goodwill	Concessions	Right of use	Software	Total
Balance at December 31, 2014	9,987	5,876	789	1,462	18,114
Additions		1,572		365	1,937
Disposals		(49)			(49)
Amortization		(361)	(100)	(380)	(841)
Translation adjustment	2,442		196		2,638
Acquisition of subsidiary	102				102
Balance at September 30, 2015	12,531	7,038	885	1,447	21,901
Cost	12,531	10,581	1,890	3,967	28,969
Accumulated amortization		(3,543)	(1,005)	(2,520)	(7,068)
	12,531	7,038	885	1,447	21,901

12. Property, plant and equipment

Changes in property, plant and equipment are as follows:

	Consolidated Mineral Constructions							
	Land	Building	Facilities	Equipment	Mineral properties	Others	Constructions in progress	Total
Balance at June 30,								
2016	2,860	33,126	29,630	25,623	35,843	21,978	46,605	195,665
Additions (i)							4,079	4,079
Disposals	(1)	(3)	(8)	(49)	(397)	(6)	(1)	(465)
Depreciation and								
amortization		(463)	(591)	(692)	(603)	(467)		(2,816)
Translation adjustment	7	82	85	100	100	43	63	480
Assets retirement								
obligations					1,487			1,487
Transfers	75	2,288	1,140	893	90	531	(5,017)	
Balance at								
September 30, 2016	2,941	35,030	30,256	25,875	36,520	22,079	45,729	198,430
Cost	2,941	53,845	49,370	46,013	62,030	34,227	45,729	294,155
Accumulated								
depreciation		(18,815)	(19,114)	(20,138)	(25,510)	(12,148)		(95,725)
	2,941	35,030	30,256	25,875	36,520	22,079	45,729	198,430

	Consolidated							
	Land	Building	Facilities	Equipment	Mineral properties	Others	Constructions in progress	Total
Balance at June 30,				• •	• •		• 0	
2015	3,098	37,430	31,296	29,100	40,777	32,046	47,397	221,144
Additions (i)							9,170	9,170
Disposals			(104)	(45)		(2,061)	(21)	(2,231)
Depreciation and								
amortization		(444)	(546)	(849)	(621)	(622)		(3,082)
Translation adjustment	179	3,528	1,881	3,589	4,611	4,413	3,039	21,240
Transfers	(194)	1,608	3,302	453	702	1,992	(7,863)	
Transfers to								
non-current assets held								
for sale					(505)			(505)
Balance at								
September 30, 2015	3,083	42,122	35,829	32,248	44,964	35,768	51,722	245,736
Cost	3,083	53,171	52,494	50,360	67,213	49,831	51,722	327,874
Accumulated								
depreciation		(11,049)	(16,665)	(18,112)	(22,249)	(14,063)		(82,138)

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32,248

44,964

35,768

51,722

245,736

35,829

	Land	Building	Facilities	Cons Equipment	solidated Mineral properties	Others	Constructions in progress	Total
Balance at	2.000	25 520	22 270	20 522	40.224	20 125	42.452	211 250
December 31, 2015 Additions (i)	2,989	35,538	32,378	28,532	40,234	28,135	43,453 11,043	211,259 11,043
Disposals	(1)	(5)	(11)	(97)	(409)	(1,214)	(74)	(1,811)
Disposars Depreciation and	(1)	(3)	(11)	(91)	(409)	(1,214)	(74)	(1,011)
amortization		(1,311)	(1,660)	(2,355)	(2,091)	(1,609)		(9,026)
Translation adjustment	(130)	(3,558)	(2,125)	(2,682)	(3,778)	(1,376)	809	(12,840)
Assets retirement	(223)	(0,000)	(=,===)	(=,===)	(=,)	(-,- : -)		(==,= :=)
obligations					1,694			1,694
Transfers	83	4,365	1,674	2,477	870	(262)	(9,502)	(295)
Transfers to								
non-current assets held								
for sale						(1,595)		(1,595)
Acquisition of								
subsidiary		1						1
Balance at								
September 30, 2016	2,941	35,030	30,256	25,875	36,520	22,079	45,729	198,430
Cost	2,941	53,845	49,370	46,013	62,030	34,227	45,729	294,155
Accumulated								
depreciation		(18,815)	(19,114)	(20,138)	(25,510)	(12,148)		(95,725)
	2,941	35,030	30,256	25,875	36,520	22,079	45,729	198,430

				Cons	olidated			
	Land	Building	Facilities	Equipment	Mineral properties	Others	Constructions in progress	Total
Balance at					· •			
December 31, 2014	2,839	30,955	28,721	24,669	39,654	29,095	51,574	207,507
Additions (i)							20,445	20,445
Disposals		(14)	(126)	(105)	(434)	(3,653)	(26)	(4,358)
Depreciation and								
amortization		(1,267)	(1,713)	(2,556)	(1,992)	(1,747)		(9,275)
Translation adjustment	252	4,307	2,620	5,191	7,489	5,930	5,816	31,605
Transfers	(8)	8,141	6,327	5,048	752	5,827	(26,087)	
Transfers to								
non-current assets held								
for sale					(505)			(505)
Acquisition of								
subsidiary				1		316		317
Balance at								
September 30, 2015	3,083	42,122	35,829	32,248	44,964	35,768	51,722	245,736
Cost	3,083	53,171	52,494	50,360	67,213	49,831	51,722	327,874
Accumulated								
depreciation		(11,049)	(16,665)	(18,112)	(22,249)	(14,063)		(82,138)
	3,083	42,122	35,829	32,248	44,964	35,768	51,722	245,736

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

3,083

42,122

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 13(d)) compared to those disclosed in the financial statements as at December 31, 2015.

13. Loans and borrowings

a) Total debt

	Consolidated				
	Current	liabilities	Non-cur	rent liabilities	
	September 30, 2016	December 31, 2015	September 30, 2016	December 31, 2015	
Debt contracts in the international					
markets					
Floating rates in:					
US\$	1,247	943	22,965	20,203	
Fixed rates in:					
US\$	1,331	4,651	42,494	50,463	
EUR			5,473	6,376	
Other currencies	50	56	698	659	
Accrued charges	907	1,274			
o de la companya de	3,535	6,924	71,630	77,701	
Debt contracts in Brazil					
Floating rates in:					
R\$, indexed to TJLP,					
TR, IPCA, IGP-M and CDI	1,198	827	18,375	18,388	
Basket of currencies and US\$ indexed					
to LIBOR	1,079	1,133	4,056	5,239	
Fixed rates in:					
R\$	246	246	858	1,047	
Accrued charges	1,022	658	91	503	
	3,545	2,864	23,380	25,177	
	7,080	9,788	95,010	102,878	

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

	Bank loans (i)	Capital markets (i)	Consolidated Development agencies (i)	Debt principal (i)	Estimated future payments of interest(ii)
2016	16	Cupital markets (1)	682	698	5,366
2017	2,039		3,275	5,314	5,545
2018	6,661	2,737	3,795	13,193	5,191
2019	3,220	3,246	4,353	10,819	4,483
2020	11,018	4,347	2,944	18,309	3,944
2021	1,188	4,356	2,863	8,407	3,253
Between 2022 and 2025	3,977	10,859	3,405	18,241	8,469

2026 onwards	286	24,310	493	25,089	19,058
	28,405	49,855	21,810	100,070	55,309

(i) Does not include accrued charges.

(ii) Consists of estimated future payments of interest, calculated based on interest rate curves and foreign exchange rates applicable as at September 30, 2016 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 September 30, 2016, the average annual interest rates by currency are as follows:

	Consolidated	
Loans and borrowings in	Average interest rate (i)	Total debt
US\$	4.55%	73,952
R\$ (ii)	11.15%	21,759
EUR (iii)	4.06%	5,629
Other currencies	3.50%	750
		102,090

(i) In order to determine the average interest rate for debt contracts with floating rates, the Company used the last renegotiated rate at September 30, 2016.

(ii) R\$ denominated debt that bears interest at IPCA, CDI, TR or TJLP, plus spread. For a total of R\$14,877, 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 2.19% 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\$.

b) Credit and financing lines

	Contractual		Period of the	Availab	le amount
Type	currency	Date of agreement	agreement	Total amount	September 30, 2016
Credit lines					
Revolving credit facilities	US\$	May 2015	5 years	9,739	3,895
Revolving credit facilities	US\$	July 2013	5 years	6,492	5,843
Financing lines					
BNDES (i)	R\$	April 2008	10 years	7,300	897
BNDES - CLN 150	R\$	September 2012	10 years	3,883	20
BNDES - S11D e S11D Logística	R\$	May 2014	10 years	6,163	2,247

⁽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 Usina VIII, Onça Puma, Salobo I and II and capital expenditure of Itabira projects.

c) Funding

During 2016, the Company drew down part of its revolving credit facilities of which R\$6,493 is outstanding at September 30, 2016.

In June and August 2016, the Company issued through its wholly owned subsidiary Vale Overseas Limited the guaranteed notes due 2021 and 2026 totaling US\$2,250 (R\$7,304). These notes bear a coupon of 5.875% and 6.250% per year, respectively, payable semi-annually, and were sold at a price of 100.000% of the principal amount.

d) Guarantees

As at September 30, 2016 and December 31, 2015, loans and borrowings are secured by property, plant and equipment and receivables in the amount of R\$1,522 and R\$1,937, respectively.

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

e) Covenants

Some of the Company s debt agreements with lenders contain financial covenants. The main covenants in those agreements require maintaining certain ratios, such as debt to EBITDA (Earnings before Interest Taxes, Depreciation and Amortization) and interest coverage. The Company has not identified any instances of noncompliance as at September 30, 2016 and December 31, 2015.

28

14. 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		
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	Total of litigation provision
Balance at June 30, 2016	740	359	1,784	84	2,967
Additions	24	95	238		357
Reversals	(5)	(106)	(129)	(15)	(255)
Payments	(7)	(9)	(76)		(92)
Indexation and interest	(5)	(21)	48	(3)	19
Translation adjustment	(12)				(12)
Balance at September 30, 2016	735	318	1,865	66	2,984

			Consolidated		
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	Total of litigation provision
Balance at June 30, 2015	1,003	405	1,939	212	3,559
Additions	46	30	204	1	281
Reversals	(4)	(36)	(246)	(1)	(287)
Payments	(28)	(126)	(16)	(30)	(200)
Indexation and interest	27	17	(85)	24	(17)
Translation adjustment	39	1		34	74
Balance at September 30, 2015	1,083	291	1,796	240	3,410

			Consolidated	Environmental	Total of litigation
	Tax litigation	Civil litigation	Labor litigation	litigation	provision
Balance at December 31, 2015	1,052	309	1,771	78	3,210
Additions	75	299	638	18	1,030
Reversals	(67)	(187)	(300)	(29)	(583)
Payments	(363)	(171)	(320)		(854)
Indexation and interest	28	68	76	(2)	168
Translation adjustment	10			1	13

318

735

84

1,083

Balance at September 30, 2016

Translation adjustment

Balance at September 30, 2015

1,865

1,796

	Tax litigation	Civil litigation	Consolidated Labor litigation	Environmental litigation	Total of litigation provision
Balance at December 31, 2014	972	311	1,876	246	3,405
Additions	490	172	419	1	1,082
Reversals	(520)	(126)	(367)	(2)	(1,015)
Payments	(22)	(123)	(64)	(66)	(275)
Indexation and interest	79	56	(68)	8	75

1

291

2,984

138

3,410

66

53

240

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:

	Consolie	dated
	September 30, 2016	December 31, 2015
Tax litigation	25,648	20,796
Civil litigation	5,196	5,214
Labor litigation	8,749	7,288
Environmental litigation	5,992	5,393
Total	45,585	38,691

- 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 in connection with the transfer of iron ore between different Brazilian states, ICMS charges on our own transportation costs and challenges to other tax credits we claimed. The changes reported in the period resulted from 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.

	Consoli	dated
	September 30, 2016	December 31, 2015
Tax litigation	869	822
Civil litigation	225	399
Labor litigation	2,322	2,163
Environmental litigation	69	61
Total	3,485	3,445

d) Others

In the third quarter of 2015, the Company filed an enforceable action in the amount of R\$524 referring to the final court decision in favor of the Company of the accrued interest of compulsory deposits from 1987 to 1993. Currently it is not possible to estimate the economic benefit inflow as the counterparty can appeal on the calculation. Consequently, the asset was not recognized in the financial statements.

For contingencies related to Samarco Mineração S.A., see note 4.

15. Income taxes

a) Deferred income tax

Changes in deferred tax are as follows:

		Consolidated	
	Assets	Liabilities	Total
Balance at June 30, 2016	23,396	5,581	17,815
Effect in income statement	(861)	313	(1,174)
Translation adjustment	215	160	55
Transfers between asset and liabilities	(589)	(589)	
Other comprehensive income	73	(25)	98
Balance at September 30, 2016	22,234	5,440	16,794
		Consolidated	
	Assets	Liabilities	Total
Balance at June 30, 2015	13,341	9,585	3,756
Effect in income statement	17,461	31	17,430
Translation adjustment	868	1.849	(981)
Other comprehensive income	40	40	,
Balance at September 30, 2015	31,710	11,505	20,205
		Consolidated	m
Balance at December 31, 2015	Assets 30,867	Liabilities 6,520	Total 24,347
Effect in income statement	(6,312)	99	(6,411)
Translation adjustment	(1,898)	(886)	(1,012)
Transfers between asset and liabilities	(1,698)	(14)	(1,012)
Other comprehensive income	(409)	(279)	(130)
Balance at September 30, 2016	22,234	5,440	16,794
bulance at september 30, 2010	22,234	3,110	10,774
		Consolidated	
	Assets	Liabilities	Total
Balance at December 31, 2014	10,560	8,874	1,686
Effect in income statement	19,796	(131)	19,927
Translation adjustment	1,292	2,733	(1,441)
Acquisition of subsidiary	(31)		(31)

Other comprehensive income	93	29	64
Balance at September 30, 2015	31,710	11,505	20,205

b) Income tax reconciliation

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

	Consolidated						
	Three months period end	led September 30	Nine months period ended September 3				
	2016	2015	2016	2015			
Net income (loss) before income taxes	3,221	(24,165)	21,131	(30,945)			
Income taxes at statutory rates - 34%	(1,095)	8,216	(7,185)	10,521			
Adjustments that affect the basis of taxes:							
Income tax benefit from interest on							
stockholders equity				1,054			
Tax incentives	269	42	616	117			
Equity results	24	(410)	455	(463)			
Additions(reversals) of tax loss carry forward	221	11,174	(346)	11,174			
Unrecognized tax losses of the period	(551)	(1,302)	(1,842)	(1,807)			
Others results in associates and joint ventures	(36)		(1,305)				
Others	(187)	(643)	309	(1,430)			
Income taxes	(1,355)	17,077	(9,298)	19,166			

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 affiliates from 2003 to 2012.

At September 30, 2016, the balance of R\$17,614 (R\$1,458 as current and R\$16,156 as non-current) is due in 145 remaining monthly installments, bearing interest at the SELIC rate.

16. Employee postretirement obligations

Reconciliation of assets and liabilities recognized in the balance sheet

		Consolidated					
	Overfunded pension plans	September 30, 2016 Underfunded pension plans	Others benefits	Overfunded pension plans	December 31, 2015 Underfunded pension plans	Others benefits	
Balance at beginning of							
the period	3,754			3,455			
Interest income	404			427			
Changes in asset ceiling and							
onerous liability	1,906			(128)			
Balance at end of the							
period	6,064			3,754			
Amount recognized in the balance sheet							
Present value of actuarial							
liabilities	(9,962)	(13,958)	(4,491)	(9,659)	(14,407)	(4,773)	
Fair value of assets	16,026	11,353		13,413	12,083		
Effect of the asset ceiling	(6,064)			(3,754)			
Liabilities		(2,605)	(4,491)		(2,324)	(4,773)	
Current liabilities		(64)	(171)		(67)	(199)	
Non-current liabilities		(2,541)	(4,320)		(2,257)	(4,574)	
Liabilities		(2,605)	(4,491)		(2,324)	(4,773)	

17. Financial instruments classification

	September 30, 2016			Consolidated December 31, 2015			
Financial assets	Loans and receivables or amortized cost	At fair value through net income	Total	Loans and receivables or amortized cost	At fair value through net income	Derivatives designated as hedge accounting	Total
Current						S	
Cash and cash							
equivalents	17,428		17,428	14,022			14,022
Financial investments	372		372	109			109
		458	458		474		474

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Derivative financial instruments							
Accounts receivable	8,299		8,299	5,763			5,763
Related parties	215		215	273			273
•	26,314	458	26,772	20,167	474		20,641
Non-current	,		ĺ	ĺ			ĺ
Derivative financial							
instruments		1,635	1,635		363		363
Loans	592		592	732			732
Related parties	62		62	5			5
	654	1,635	2,289	737	363		1,100
Total of financial							
assets	26,968	2,093	29,061	20,904	837		21,741
Financial liabilities							
Current							
Suppliers and							
contractors	12,177		12,177	13,140			13,140
Derivative financial							
instruments		2,816	2,816		7,909	198	8,107
Loans and borrowings	7,080		7,080	9,788			9,788
Related parties	1,811		1,811	1,856			1,856
	21,068	2,816	23,884	24,784	7,909	198	32,891
Non-current							
Derivative financial		2 = 00	. =		- - 0.4		
instruments	05.010	3,789	3,789	102.070	5,581		5,581
Loans and borrowings	95,010		95,010	102,878			102,878
Related parties	445		445	830			830
Participative		2.127	2 127		1.006		1 226
stockholders debentures		2,137	2,137		1,336		1,336
Others (i)	05 455	817	817	102 700	551 7.468		551
Total of financial	95,455	6,743	102,198	103,708	7,468		111,176
Total of financial	116 522	0.550	127,002	120 402	15 277	100	144.067
liabilities	116,523	9,559	126,082	128,492	15,377	198	144,067

⁽i) See note 18(a).

18. Fair value estimate

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

	Consolidated						
	Level 2	September 30, 2016 Level 3	Total	Level 2	December 31, 2015 Level 3	Total	
Financial assets							
Derivative financial							
instruments	1,025	1,068	2,093	837		837	
Total	1,025	1,068	2,093	837		837	
Financial liabilities							
Derivative financial							
instruments	5,803	802	6,605	13,688		13,688	
Participative stockholders							
debentures	2,137		2,137	1,336		1,336	
Others (minimum return							
instrument)		817	817		551	551	
Total	7,940	1,619	9,559	15,024	551	15,575	

There are no changes in the methods and techniques of evaluation of instruments above compared to disclosed in the financial statements as at December 31, 2015.

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

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

		Consolida	ated	
Financial liabilities	Balance	Fair value	Level 1	Level 2
September 30, 2016				
Debt principal	100,070	96,702	46,384	50,318
December 31, 2015				
Debt principal	110,231	102,434	48,017	54,417
	,	· ·	· ·	

19. Derivative financial instruments

a) Derivatives effects on balance sheet

	Consolidated Assets				
	September	r 30, 2016	December	31, 2015	
	Current	Non-current	Current	Non-current	
Derivatives not designated as hedge					
accounting					
Foreign exchange and interest rate risk					
CDI & TJLP vs. US\$ fixed and floating rate					
swap	426		269		
IPCA swap	23	241	7	64	
Pré-dolar swap	6	52			
	455	293	276	64	
Commodities price risk					
Nickel	3	17	198	41	
	3	17	198	41	
Others		1,325		258	
		1,325		258	
Total	458	1,635	474	363	
	3:	3			
	3.	3			

	Consolidated Liabilities					
	Septembe	r 30, 2016		December 31, 2015		
	Current	Non-current	Current	Non-current		
Derivatives not designated as hedge						
accounting						
Foreign exchange and interest rate risk						
CDI & TJLP vs. US\$ fixed and floating rate						
swap	2,138	2,532	3,119	4,419		
IPCA swap	62	245	82	393		
Eurobonds swap	19	79	572	111		
Euro forward	24					
Pre dollar swap	65	115	364	280		
•	2,308	2,971	4,137	5,203		
Commodities price risk	·		,			
Nickel	7	11	153	42		
Bunker oil	501		3,609			
	508	11	3,762	42		
Others		807		336		
		807		336		
Derivatives designated as cash flow hedge						
accounting						
Bunker oil			198			
Foreign exchange			10			
			208			
Total	2,816	3,789	8,107	5,581		

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

	Gain (loss) recog income stat 2016	nized in the	Consolida ree months period en Financial set inflows(out 2016	ded September 30 tlement	, ,	ognized in other sive income 2015
Derivatives not designated as						
hedge accounting						
Foreign exchange and interest						
rate risk						
CDI & TJLP vs. US\$ fixed and						
floating rate swap	(182)	(3,174)	16	(5)		
IPCA swap	3	(396)	(83)			
Eurobonds swap	28	(46)				
Euro forward	15					
Pre dollar swap	(26)	(690)	(3)	(11)		
	(162)	(4,306)	(70)	(16)		

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Commodities price risk					
Nickel	(8)	(69)	(9)	(77)	
Bunker oil	(25)	(1,821)	(540)	(117)	
	(33)	(1,890)	(549)	(194)	
Others	62	(169)			
	62	(169)			
Derivatives designated as					
cash flow hedge accounting					
Bunker oil		(459)		(375)	96
Foreign exchange		(37)		(37)	17
		(496)		(412)	113
Total	(133)	(6,861)	(619)	(622)	113
		34	1		
		34	r		

			Consolida	ited		
		Niı	ne months period end	•		
	Gain (loss) reco		Financial set		Gain(loss) recognized in other	
	income sta		inflows(out	· ·	comprehensi	
Desirations and desiranted as	2016	2015	2016	2015	2016	2015
Derivatives not designated as						
hedge accounting						
Foreign exchange and						
interest rate risk						
CDI & TJLP vs. US\$ fixed and						
floating rate swap	2,621	(5,533)	(322)	(883)		
IPCA swap	244	(546)	(78)	19		
Eurobonds swap	(2)	(386)	(524)	(38)		
Euro forward	(27)					
Pre dollar swap	218	(925)	(304)	(21)		
	3,054	(7,390)	(1,228)	(923)		
Commodities price risk						
Nickel	(151)	(125)	(113)	(157)		
Bunker oil	441	(1,737)	(2,277)	(499)		
	290	(1,862)	(2,390)	(656)		
Others	532	(390)				
	532	(390)				
Derivatives designated as		, ,				
cash flow hedge accounting						
Bunker oil		(950)	(203)	(1,021)		928
Foreign exchange	(10)	(109)	(10)	(109)	10	45
	(10)	(1,059)	(213)	(1,130)	10	973
Total	3,866	(10,701)	(3,831)	(2,709)	10	973

During 2015, the Company implemented bunker oil purchase cash flows protection program and recognized as cost of goods sold and services rendered and financial expense the amounts of R\$459 and R\$6,402 for the three months period ended on September 30, 2015, respectively, and the amounts of R\$950 and R\$9,751 for the nine months period ended on September 30, 2015, respectively. In 2016, all derivatives impacts were charged to financial results.

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

	Last maturity dates
Currencies and interest rates	July 2023
Bunker oil	December 2016
Nickel	September 2018
Others	December 2027

Additional information about derivatives financial instruments

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

There was no cash amount deposited as margin call regarding derivative positions on September 30, 2016. 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 September 30, 2016, with the following information: notional amount, fair value including credit risk, gains or losses in the period, value at risk and the fair value breakdown by year of maturity.

a) Foreign exchange and interest rates derivative positions

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

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.

Notional Flow September B@c2ft16er 31, 2016ex Average rate	Fair v September 30, 2016	value	Financial settlement Inflows (Outflows) September 30, 2016	Value at Risk September 30, 2016			e by ye 2018	
CDI vs. US\$ fixed	(1.004)	(2.050)	368	1/7	(1.262)	01	((02)	
rate swap Receivable R\$ 6,289 R\$ 5,239 CDI 106.78%	(1,884)	(3,059)	308	10/	(1,362)	91	(603)	
Payable US\$ 2,563 US\$ 2,288 Fix 3.46%								
TJLP vs. US\$ fixed								
rate swap	(2,178)	(3,965)	(664)	225	(44)	(714)	(354)	1,00
Receivable TJLP								
R\$ 4,559 R\$ 5,484 + 1.33%								
Payable US\$ 2,126 US\$ 2,611 Fix 1.72%	9							
TJLP vs. US\$ floating rate								
swap	(182)	(245)	(5)	16	(2)	(11)	(14)	(1:
Receivable TJLP R\$ 253 R\$ 267 + 0.92%	,							
Payable Libor								
US\$ 147 US\$ 156 + -1.21%	2							
R\$ fixed rate vs. US\$ fixed rate								
swap	(122)	(644)	(266)	74	(50)	(14)	38	(9
Receivable R\$ 1,107 R\$ 1,356 Fix 7.43%	,							
Payable US\$ 383 US\$ 528 Fix -0.79%)							
IPCA vs. US\$ fixed								
rate swap	(191)	(411)	4	37		21	17	(22

Receivabl	e IPC	'A					
	R\$ 1,000 R\$ 1,000 +	6.55%					
Payable	US\$ 434 US\$ 434 Fix	x 3.98%					
IPCA vs.	CDI swap		148	6	(93)	1	(60) (30) 23
Receivabl	e IPC	'A					
	R\$ 1,350 R\$ 1,350 +	6.62%					
Payable	US\$ 1,350 US\$ 1,350 CD	OI 98.58%					

(ii) Protection program for EUR denominated debt instruments

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

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

	Notio	onal			Fair v	value		Financial settlement Inflows (Outflows)	Value at Risk	Fair valu	e by y	ear
Flow Sept	emberDMcei	606 31, 2	Oidex	Average rate	September 30, 2016	December 31,	2015	September 30, 2016	September 30, 2016	2016 2017	2018	2019+
EUR fixed	rate vs. US	\$ fixed			•			•				
rate swap					(98)	ı	(683)	(494)	38	(18)	(16)	(63)
Receivable	500	1,000	Fix	3.75%)							
Payable	US\$ 613 U	JS\$ 1,302	Fix	4.29%)							

				Financial settlement	
Notional	Bought /	Average rate	Fair value	Inflows (Outflows)	Value at Risk Fair value by year
Florentember 30) 2021 fiber 31, 2015	Sold	(USD/EUR)	September 30, 2016 December 31, 2015	September 30, 2016	September 30, 2016 2016 2017
Forward 500	В	1.143	(24)		19.9 (24)

(iii) Foreign exchange hedging program for disbursements in CAD

In order to reduce the cash flow volatility, forward transactions were implemented to mitigate the foreign exchange exposure that arises from the currency mismatch between revenues denominated in US\$ and disbursements denominated in CAD.

The forward transactions were negotiated over-the-counter and the protected item is part of the CAD denominated disbursements. The financial settlement inflows/outflows are offset by the protected items losses/gains due to CAD/US\$ exchange rate. This program is classified under the hedge accounting requirements, and it was settled in the first quarter.

						Financial settlement		Fair value
	Notional		Bought /	Average rate	Fair value	Inflows (Outflows)	Value at Risk	by year
Flow	September 30, 20ck@mbe	er 31,	20 \$5 ld	(CAD / USD)	September 30, 2016 December 31, 2015	September 30, 2016	September 30, 2016	2016
Forward	CA	D 10	В	1.028	(10)			

b) Commodities derivative positions

(i) Bunker Oil purchase cash flows protection program

In order to partially 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.

						Financial Settlement F		
	Notiona	Bought /	/ Average strike	Fair	value	Inflows (Outflows)	Value at Risk	
Flow	September 30, 2016	December 31, 2015	Sold	(US\$/ton)	September 30, 2016	December 31, 2015	September 30, 2016	September 30, 2016
Bunker								
Oil								
protection								
Forwards	352,500	1,867,500	В	511	(286)	(2,252)	(1,604)) 15
Call								
options	540,000	2,041,500	В	380	0.6	0.1		0.4
Put options	540,000	2,041,500	S	300	(87)	(1,158)	(607)) 17
Total					(373)	(3,410)	,	

As at September 30, 2016 and December 31, 2015, excludes R\$128 and R\$397, respectively, of transactions in which the financial settlement occurs subsequently of the closing month.

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

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

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

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

							Financial Settlement	
	Notional (ton)		Bought /	Average strike	Fair v	value	Inflows (Outflows)	Value at Risk Fa
Flow	September 30, 2016 December 31	, 2015	Sold	(US\$/ton)	September 30, 2016	December 31, 2015	September 30, 2016	September 30, 2016 2
Fixed							•	
prices								
sales								
protection								
Nickel								
forwards	12,923	16,917	В	10,272	13	(180)	(105)	14
						` ′	` ′	
Raw								
materials								
purchase								
protection								
Nickel								
forwards	153	118	S	9,890	(0.3)	0.4	(0.4)	0.2
Copper				•	,		,	
forwards	1,262	385	S	4,873	(0.0)	0.4	0.3	0.2
Total	, .			,	(0.4)			

37

c) Silver Wheaton Corp. warrants

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

							Financial Settlement		Fair
	Notional (quanti	ty)	Bought /	Average strike	Fair	value	Inflows (Outflows)	Value at Risk	by y
Flow	September 30, 2016 Decem	nber 31, 2015	Sold	(US\$/share)	September 30, 2016	December 31, 2015	September 30, 2016	September 30, 2016	20
Call									
options	10,000,000	10,000,000	В	44	258	28		25	

d) Call options from debentures

The company has debentures in which lenders have call options of a specified quantity of Ferrovia Norte Sul S.A. ordinary shares, later changed to VLI S.A. shares. The call option strike price is given by the debentures remaining notional in each exercise date.

					Financial Settlement		Fair
	Notional (quantity)	Bought	/ Average strike	Fair value	Inflows (Outflows)	Value at Risk	by
Flow	September 30, 2016 December 31,	2015 Sold	(R\$/share)	September 30, 2016 December 31, 2015	September 30, 2016	September 30, 2016	20
Call							
options	140,239 140	,239 S	8,570	(121) (152)		7	

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

The Company entered into a contract that has options related to MBR shares. Under certain restrict and contingent conditions, which are beyond the buyer s control, such as illegality due to changes in the law, the contract has a clause that gives the buyer the right to sell back its stake to the Company. It this case, the Company could settle through cash or shares. On the other hand, the Company has the right to buy back this non-controlling interest in the subsidiary.

Financial Settlement

	Notional (quantity, in millions)	Bought /	Average strike	Fair value	Inflows (Outflows)	Value at Risk	by y
Flow	September 30, 2016 December 31, 2015	Sold	(R\$/ação)	September 30, 2016 December 31, 2015	September 30, 2016	September 30, 2016	201
Options	2,139 2,139	B/S	1.9	388 57		39	

f) Embedded derivatives in commercial 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 September 30, 2016	. ()		Average strike (US\$/ton)		value December 31, 2015	Financial Settlement Inflows (Outflows) September 30, 2016	Value at Risk September 30, 2016	Fair by 2
Nickel									
Forward	5,538	3,877	S	10,236	0.9	11.7			
Copper									
Forward	4,527	5,939	S	4,768	0.9	7.7			
Total					1.8	19.4		7.3	

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

					Financial Settlement
	Notional (volume/month)	Bought /	Average strike	Fair value	Inflows (Outflows) Value at Risk Fair
Flow	September 30, 2016 December 31, 2015	Sold	(US\$/ton)	September 30, 2016 December 31, 2015	September 30, 2016 September 30, 2016 2016
Call					
options	746,667 746,667	S	179	(5.6)	3.6 (0.0

g) 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 September 30, 2016
- 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
CDI vs. US\$ fixed rate swap	R\$ depreciation	(1,885)	(4,009)	(6,134)
	US\$ interest rate inside Brazil			
	decrease	(1,885)	(1,910)	(1,935)
	Brazilian interest rate increase	(1,885)	(1,890)	(1,895)
Protected item: R\$ denominated debt	R\$ depreciation	n.a.		
TJLP vs. US\$ fixed rate swap	R\$ depreciation	(2,178)	(3,873)	(5,567)
	US\$ interest rate inside Brazil			
	decrease	(2,178)	(2,258)	(2,341)
	Brazilian interest rate increase	(2,178)	(2,377)	(2,559)
	TJLP interest rate decrease	(2,178)	(2,318)	(2,461)
Protected item: R\$ denominated debt	R\$ depreciation	n.a.		
TJLP vs. US\$ floating rate swap	R\$ depreciation	(182)	(293)	(403)
	US\$ interest rate inside Brazil			
	decrease	(182)	(190)	(198)
	Brazilian interest rate increase	(182)	(196)	(209)
	TJLP interest rate decrease	(182)	(192)	(202)
Protected item: R\$ denominated debt	R\$ depreciation	n.a.		
R\$ fixed rate vs. US\$ fixed rate swap	R\$ depreciation	(122)	(448)	(774)
	US\$ interest rate inside Brazil			
	decrease	(122)	(159)	(199)
	Brazilian interest rate increase	(122)	(219)	(303)
Protected item: R\$ denominated debt	R\$ depreciation	n.a.		
IPCA vs. US\$ fixed rate swap	R\$ depreciation	(190)	(573)	(956)

	US\$ interest rate inside Brazil			
	decrease	(190)	(213)	(236)
	Brazilian interest rate increase	(190)	(286)	(371)
	IPCA index decrease	(190)	(238)	(285)
Protected item: R\$ denominated debt	R\$ depreciation	n.a.		
IPCA vs. CDI swap	Brazilian interest rate increase	148	(4)	(136)
	IPCA index decrease	148	70	(4)
Protected item: R\$ denominated debt linked to IPCA	IPCA index decrease	n.a.	(70)	4
EUR fixed rate vs. US\$ fixed rate swap	EUR depreciation	(97)	(673)	(1,250)
	Euribor increase	(97)	(107)	(116)
	US\$ Libor decrease	(97)	(139)	(182)
Protected item: EUR denominated debt	EUR depreciation	n.a.	673	1,250
EUR Forward	EUR depreciation	(24)	(480)	(936)
	Euribor increase	(24)	(25)	(26)
	US\$ Libor decrease	(24)	(26)	(28)
Protected item: EUR denominated debt	EUR depreciation	n.a.	480	936

Instrument	Instrument s main risk events	Scenario I	Scenario II	Scenario III
Bunker Oil protection				
Forwards and options	Bunker Oil price decrease	(373)	(550)	(735)
Protected item: Part of costs linked to bunker oil prices	Bunker Oil price decrease	n.a.	550	735
Nickel sales fixed price protection				
Forwards	Nickel price decrease	13	(98)	(208)
Protected item: Part of nickel revenues with fixed prices	Nickel price fluctuation	n.a.	98	208
Troceted item. Tart of meker revenues with fixed prices	Weker price fractuation	11.4.	70	200
Purchase protection program				
Nickel forwards	Nickel price increase	(0.3)	(1.7)	(3.0)
Protected item: Part of costs linked to nickel prices	Nickel price increase	n.a.	1.7	3.0
Copper forwards	Copper price increase	(0.0)	(2.0)	(4.0)
Protected item: Part of costs linked to copper prices	Copper price increase	n.a.	2.0	4.0
SLW warrants	SLW stock price decrease	258	142	49
			(400)	(2.75)
VLI call options	VLI stock value increase	(121)	(183)	(257)
Options regarding non-controlling interest in				
subsidiary	Subsidiary stock value decrease	388	66	(161)
Instrument	Main risks	Scenario I	Scenario II	Scenario III
nisti unicit	Iviam i isks	Scenario I	Scenario II	Scellar to 111
Embedded derivatives - Raw material purchase (nickel)	Nickel price increase	1	(45)	(91)
Embedded derivatives - Raw material purchase (copper)	Copper price increase	1	(16)	(34)
Embedded derivatives - Gas purchase	Pellet price increase	(2)	(7)	(16)

h) 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 September 30, 2016.

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Long term ratings by counterparty	Moody s	S&P
ANZ Australia and New Zealand Banking	Aa2	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	Ba3	BB
Banco Votorantim	Ba3	BB
Bank of America	Baa1	BBB+
Bank of Nova Scotia	Aa3	A+
Bank of Tokyo Mitsubishi UFJ	A1	A
Banpara	Ba3	BB-
Barclays	Baa3	BBB
BBVA	A3	BBB+
BNP Paribas	A1	A
BTG Pactual	Ba3	BB-
Caixa Economica Federal	Ba3	BB
Citigroup	Baa1	BBB+
Credit Agricole	A1	A
Deutsche Bank	A3	BBB+
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	Aa2	AA-
Royal Bank of Canada	Aa3	AA-
Societe Generale	A2	A
Standard Bank Group	Baa3	
Standard Chartered	A1	BBB+

i) 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	10,460	MAR17	10,617	SEP17	10,683
OCT16	10,544	APR17	10,627	SEP18	10,798
NOV16	10,560	MAY17	10,640	SEP19	10,882
DEC16	10,578	JUN17	10,650	SEP20	10,964
JAN17	10,593	JUL17	10,662		
FEB17	10,605	AUG17	10,673		

Copper

Maturity	Price (US\$/lb)	Maturity	Price (US\$/lb)	Maturity	Price (US\$/lb)
SPOT	2.21	MAR17	2.21	SEP17	2.22
OCT16	2.20	APR17	2.22	SEP18	2.23
NOV16	2.21	MAY17	2.22	SEP19	2.25
DEC16	2.21	JUN17	2.22	SEP20	2.26
JAN17	2.21	JUL17	2.22		
FEB17	2.21	AUG17	2.22		

Bunker Oil

Maturity	Price (US\$/ton)	Maturity	Price (US\$/ton)	Maturity	Price (US\$/ton)
SPOT	256	MAR17	262	SEP17	267

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OCT16	259	APR17	263	SEP18	280
NOV16	262	MAY17	264	SEP19	293
DEC16	262	JUN17	264	SEP20	308
JAN17	262	JUL17	265		
FEB17	261	AUG17	266		

(ii) Foreign exchange and interest rates

US\$-Brazil Interest Rate

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
11/01/16	1.61	09/01/17	2.00	01/02/20	2.86
12/01/16	1.74	10/02/17	2.05	04/01/20	2.98
01/02/17	1.78	01/02/18	2.17	07/01/20	3.07
02/01/17	1.81	04/02/18	2.25	10/01/20	3.18
03/01/17	1.82	07/02/18	2.36	01/04/21	3.28
04/03/17	1.83	10/01/18	2.42	04/01/21	3.34
05/02/17	1.86	01/02/19	2.54	07/01/21	3.43
06/01/17	1.92	04/01/19	2.62	10/01/21	3.52
07/03/17	1.93	07/01/19	2.68	01/03/22	3.57
08/01/17	1.99	10/01/19	2.72	01/02/23	3.87

US\$ Interest Rate

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
1M	0.53	6M	0.91	11M	0.94
2M	0.65	7M	0.92	12M	0.94
3M	0.85	8M	0.93	2Y	1.02
4M	0.88	9M	0.93	3Y	1.08
5M	0.90	10M	0.94	4Y	1.15

TJLP

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
11/01/16	7.50	09/01/17	7.50	01/02/20	7.50
12/01/16	7.50	10/02/17	7.50	04/01/20	7.50
01/02/17	7.50	01/02/18	7.50	07/01/20	7.50
02/01/17	7.50	04/02/18	7.50	10/01/20	7.50
03/01/17	7.50	07/02/18	7.50	01/04/21	7.50
04/03/17	7.50	10/01/18	7.50	04/01/21	7.50
05/02/17	7.50	01/02/19	7.50	07/01/21	7.50
06/01/17	7.50	04/01/19	7.50	10/01/21	7.50

	07/03/17	7.50	07/01/19	7.50	01/03/22	7.50
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BRL Interest Rate

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
11/01/16	14.03	09/01/17	12.58	01/02/20	11.58
12/01/16	13.93	10/02/17	12.48	04/01/20	11.60
01/02/17	13.77	01/02/18	12.19	07/01/20	11.61
02/01/17	13.60	04/02/18	12.01	10/01/20	11.59
03/01/17	13.48	07/02/18	11.85	01/04/21	11.58
04/03/17	13.32	10/01/18	11.73	04/01/21	11.59
05/02/17	13.16	01/02/19	11.63	07/01/21	11.59
06/01/17	13.00	04/01/19	11.59	10/01/21	11.60
07/03/17	12.88	07/01/19	11.57	01/03/22	11.60
08/01/17	12.72	10/01/19	11.58	01/02/23	11.68

Implicit Inflation (IPCA)

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
11/01/16	7.40	09/01/17	6.04	01/02/20	5.27
12/01/16	7.32	10/02/17	5.95	04/01/20	5.29
01/02/17	7.16	01/02/18	5.75	07/01/20	5.30
02/01/17	7.00	04/02/18	5.63	10/01/20	5.29
03/01/17	6.89	07/02/18	5.50	01/04/21	5.28
04/03/17	6.74	10/01/18	5.41	04/01/21	5.29
05/02/17	6.59	01/02/19	5.32	07/01/21	5.30
06/01/17	6.43	04/01/19	5.28	10/01/21	5.31
07/03/17	6.32	07/01/19	5.26	01/03/22	5.32
08/01/17	6.17	10/01/19	5.27	01/02/23	5.43

EUR Interest Rate

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
1M	-0.38	6M	-0.11	11 M	-0.01
2M	-0.35	7M	-0.08	12M	0.00
3M	-0.32	8M	-0.05	2Y	-0.22
4M	-0.21	9M	-0.04	3Y	-0.21
5M	-0.15	10M	-0.02	4Y	-0.19

CAD Interest Rate

Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)	Maturity	Rate (% p.a.)
1M	0.88	6M	1.01	11M	0.10
2M	0.89	7M	0.74	12M	0.01
3M	0.90	8M	0.51	2Y	0.88
4M	0.96	9M	0.34	3Y	0.91
5M	1.00	10M	0.21	4Y	0.95

Currencies - Ending rates

CAD/US\$	0.7623	US\$/BRL	3.2462	EUR/US\$	1.1222

43

20. Stockholders equity

a) Share capital

At September 30, 2016 and December 31, 2015, the share capital was R\$77,300 corresponding to 5,244,316,120 shares issued and fully paid without par value.

		September 30, 2016	
	ON	PNA	Total
Stockholders			
Valepar S.A.	1,716,435,045	20,340,000	1,736,775,045
Brazilian Government (Golden Share)		12	12
Foreign investors - ADRs	792,920,634	640,657,142	1,433,577,776
FMP - FGTS	75,083,246		75,083,246
PIBB - BNDES	742,578	993,751	1,736,329
BNDESPar	206,378,882	66,185,272	272,564,154
Foreign institutional investors in local market	273,953,175	746,942,370	1,020,895,545
Institutional investors	76,600,716	128,382,435	204,983,151
Retail investors in Brazil	43,538,724	364,220,944	407,759,668
Shares outstanding	3,185,653,000	1,967,721,926	5,153,374,926
Shares in treasury	31,535,402	59,405,792	90,941,194
Total issued shares	3,217,188,402	2,027,127,718	5,244,316,120
Amounts per class of shares (in millions)	47,421	29,879	77,300
<u> </u>			
Total authorized shares	3,600,000,000	7,200,000,000	10,800,000,000

b) Basic and diluted earnings per share

Basic and diluted earnings per share are as follows:

Three months period ended September 30 2016 2015 Nine months period ended September 30 2016 2015

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Net income (loss) attributable to Vale s stockholders	1,842	(6,663)	11,738	(11,058)
Basic and diluted earnings per share:				
Income (loss) available to preferred stockholders	703	(2,544)	4,482	(4,222)
Income (loss) available to common stockholders	1,139	(4,119)	7,256	(6,836)
Total	1,842	(6,663)	11,738	(11,058)
Thousands of shares	,	, , ,	,	, , ,
Weighted average number of shares outstanding - preferred				
shares	1,967,722	1,967,722	1,967,722	1,967,722
Weighted average number of shares outstanding - common				
shares	3,185,653	3,185,653	3,185,653	3,185,653
Total	5,153,375	5,153,375	5,153,375	5,153,375
Basic and diluted earnings (loss) per share				
Preferred share	0.36	(1.29)	2.28	(2.15)
Common share	0.36	(1.29)	2.28	(2.15)
	44			
	⊤ ¶			

21. Costs and expenses by nature

a) Cost of goods sold and services rendered

	Consolidated						
	Three months period en	ded September 30	Nine months period ended September 30				
	2016	2015	2016	2015			
Personnel	1,887	2,043	5,924	5,505			
Materials and services	3,301	3,426	10,424	9,248			
Fuel oil and gas	1,097	1,113	3,396	3,085			
Maintenance	2,394	2,213	7,079	6,252			
Energy	699	500	2,004	1,443			
Acquisition of products	430	464	1,267	1,931			
Depreciation and depletion	2,918	3,077	9,114	8,444			
Freight	2,000	3,275	6,052	8,181			
Others	1,356	1,914	4,080	4,892			
Total	16,082	18,025	49,340	48,981			
Cost of goods sold	15,643	17,617	48,074	47,727			
Cost of services rendered	439	408	1,266	1,254			
Total	16,082	18,025	49,340	48,981			

b) Selling and administrative expenses

	Consolidated						
	Three months period en	ded September 30	Nine months period ended September 30				
	2016	2015	2016	2015			
Personnel	199	196	601	658			
Services (consulting, infrastructure and							
others)	62	94	186	252			
Advertising and publicity	7	14	17	30			
Depreciation and amortization	118	112	323	297			
Travel expenses	7	9	21	26			
Taxes and rents	12	11	37	40			
Others	90	22	268	198			
Total	495	458	1,453	1,501			

c) Others operational expenses (incomes), net

	Consolidated						
	Three months period en	ded September 30	Nine months period ended September 30				
	2016	2015	2016	2015			
Provision for litigation	102	(6)	447	67			
Provision for loss with VAT credits (ICMS)	89	188	135	458			
Provision for profit sharing program	64	5	92	59			
Provision (reversals) for disposal of							
materials and inventories	13	61	(339)	343			
Gold stream transaction	(481)		(481)	(722)			
Others	37	174	670	661			
Total	(176)	422	524	866			

22. Financial result

	Consolidated					
	Three months period end	led September 30	Nine months period ended Septembe			
	2016	2015	2016	2015		
Financial expenses						
Loans and borrowings gross interest	(1,514)	(1,526)	(4,711)	(3,891)		
Capitalized loans and borrowing costs	556	688	1,995	1,789		
Labor, tax and civil lawsuits	(13)	26	(95)	(122)		
Derivative financial instruments	(329)	(6,402)	(1,132)	(10,718)		
Indexation and exchange rate variation (a)	(1,977)	(27,233)	(9,881)	(45,067)		
Participative stockholders debentures	(155)	245	(918)	2,073		
Expenses of REFIS	(466)	(486)	(1,368)	(1,333)		
Others	(737)	(207)	(1,849)	(1,106)		
	(4,635)	(34,895)	(17,959)	(58,375)		
Financial income						
Short-term investments	20	188	279	326		
Derivative financial instruments	196		4,998	967		
Indexation and exchange rate variation (b)	911	8,710	20,925	18,907		
Others	95	150	190	274		
	1,222	9,048	26,392	20,474		
Financial results, net	(3,413)	(25,847)	8,433	(37,901)		
Summary of indexation and exchange						
rate variation						
Loans and borrowings	(1,034)	(24,473)	18,067	(36,828)		
Others	(32)	5,950	(7,023)	10,668		
Net (a) + (b)	(1,066)	(18,523)	11,044	(26,160)		

23. Deferred revenue - Gold stream

In August 2016, the Company entered into an amendment to the original agreement with Silver Wheaton Corp. (SLW) to sell an additional 25% premium of the payable gold stream in copper concentrate from the Salobo copper mine for the life of the mine. In this transaction, the Company received: (i) an initial cash payment of R\$2.568 (US\$800); (ii) an option value with a reduction of the exercise price, from R\$211.00 (US\$65.00) to R\$142.00 (US\$43.75), of the 10 million warrants of SLW held by Vale since 2013 and maturing in 2023; and (iii) future cash payments for each ounce of gold delivered to SLW under the agreement, equal to the lesser of US\$400 per oz (plus a 1% annual adjustment from 2019 onwards) and the prevailing market price.

Vale may also receive an additional cash payment contingent on its decision to expand its capacity to process Salobo copper ores to more than 28 Mtpy before 2036. Salobo I and Salobo II, which are ramping up, will have a total capacity to process 24 Mtpy of run-of-mine (ROM). The

contingent additional cash payment could range from US\$113 to US\$953 depending on ore grade, timing and size of the expansion.

This transaction was bifurcated into two identifiable components (i) the sale of the mineral rights which resulted in R\$481 (US\$150) gain in the income statement under. Other operating income (expenses), net. and, (ii) R\$1.762 (US\$549) recorded as deferred revenue (liability) related to the services for gold extraction on the portion in which Vale operates as an agent for SLW gold extraction.

After the completion of this transaction SLW holds 75% of the payable gold stream in copper concentrated from the Salobo mine and 70% of the gold extracted during the next 20 years as a by-product of the Sudbury nickel mines. During the three months period ended September 30, 2016 and 2015, the Company recognized R\$187 and R\$79, respectively, and during the nine months period ended September 30, 2016 and 2015, R\$493 and R\$225, respectively, in income statement related to rendered services of the original and amended transactions.

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

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

46

24. Commitments

a) Base metals operations

In December 2015, the put option related to the dilution of Sumic Nickel Netherland B.V. (Sumic) interest in Vale Nouvelle-Calédonie S.A.S. (VNC) was automatically triggered.

In March 2016, Vale Canada Limited purchased the equity interest held by Sumic in VNC for R\$ 480 (US\$135).

b) Participative stockholders debentures

At October 3rd, 2016 (subsequently event), the company has paid the semiannual remuneration to stockholders debentures the amount of R\$164.

c) Operating lease and purchase obligations

The future payment commitments for operating lease and purchase obligations are as follows:

2016	130
2017	197
2018	206
2019	177
2020 and thereafter	186
Total minimum payments required	896

d) Guarantees provided

As of September 30, 2016, 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\$1,149 and R\$4,385 respectively.

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.

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

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

	Assets Consolidated							
		September 3	0, 2016	Collson	nuateu			
	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.	1,740	711		•	144	258		•
Banco do Brasil S.A.	503	101			1,544	62		
Baovale Mineração S.A.								4
Companhia								
Coreano-Brasileira de								
Pelotização				45				22
Companhia								
Hispano-Brasileira de								
Pelotização			7				3	14
Companhia Ítalo-Brasileira								
de Pelotização								33
Companhia Nipo-Brasileira								2.5
de Pelotização				71				35
Companhia Siderúrgica do				50				
Atlântico				52				
Companhia Siderúrgica do			107					
Pecem Consórcio de Rebocadores			187					
da Baia de São Marcos			32				60	
Ferrovia Norte Sul S.A.			5				12	
Mitsui & Co., Ltd.			10				5	
MRS Logística S.A.			10	61			3	65
VLI Multimodal S.A.			15	O1			36	03

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VLI Operações Portuárias S.A.			6				99	
VLI S.A.			6	38				39
Others			77	10			91	66
Total	2,243	812	345	277	1,688	320	306	278
			48					

	Liabilities							
	Consolidated September 30, 2016 Derivative Derivative Consolidated December 31, 2015 Derivative							
	Others liabilities	financial instruments	Related parties	Loans and borrowings	Others liabilities	financial instruments	Related parties	Loans and borrowings
Aliança Geração de Energia S.A.	38		155	_	43		_	
Banco Bradesco S.A.		1,526		19	212	800		1,445
Banco do Brasil S.A.		678		9,365		976		10,250
Baovale Mineração S.A.	70				29			
BNDES		123		14,520		152		15,877
BNDES Participações S.A.				1,428				1,449
Companhia								
Coreano-Brasileira de								
Pelotização	149		97		15		273	
Companhia								
Hispano-Brasileira de								
Pelotização	82		100		143		26	
Companhia Ítalo-Brasileira								
de Pelotização	106		162		12		252	
Companhia Nipo-Brasileira								
de Pelotização	300		197		34		436	
Consórcio de Rebocadores								
Baia da São Marcos					30			
Ferrovia Centro Atlântica								
S.A.			268				266	
Mitsui & Co., Ltd.	42				41			
MRS Logística S.A.	43				91			
Sumic Nickel Netherland			1 144				1.074	
B.V.	2		1,144				1,374	
VLI S.A. Others	2 95		109 24		93		59	
Total	95 927	2 227	= -	25,332	7 43	1,928	2,686	29,021
าบเลเ	941	2,327	2,256	25,552	743	1,928	4,000	49,041

	Consolidated									
	Three months period ended September 30									
	Net operating revenue	2016 Costs and expenses	Financial result	Net operating revenue	2015 Costs and expenses	Financial result				
Aliança Geração de Energia										
S.A.		(105)		22						
Banco Bradesco S.A. (i)			(807)			(294)				
Banco do Brasil S.A. (i)			(793)			(460)				
Baovale Mineração S.A.		(13)			(2)					
BNDES (i)			(529)			(381)				
BNDES Participações S.A.										
(i)			(73)			(30)				

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Companhia						
Coreano-Brasileira de						
Pelotização		(21)	(17)		(84)	
Companhia						
Hispano-Brasileira de						
Pelotização		(37)	(11)		(58)	
Companhia Ítalo-Brasileira						
de Pelotização		(42)	(19)		(73)	
Companhia Nipo-Brasileira						
de Pelotização		(88)	(29)		(86)	
Companhia Siderúrgica do						
Pecem	192					
Ferrovia Centro Atlântica						
S.A.	35	(31)	(4)	47	(32)	(2)
Ferrovia Norte Sul S.A.	11					
Mitsui & Co., Ltd.	133			146		
MRS Logística S.A.		(433)			(386)	
Samarco Mineração S.A.				70		
VLI Multimodal S.A.	30					
VLI Operações Portuárias						
S.A.	100	(24)		112		
VLI S.A.	109			141		
Others	7	(27)	7	39	(22)	13
Total	617	(821)	(2,275)	577	(743)	(1,154)

⁽i) Does not include exchange rate variation

Consolidated Nine months period ended September 30

		2016	Nine months period	ended September 30	2015	
	Net operating revenue	Costs and expenses	Financial result	Net operating revenue	Costs and expenses	Financial result
Aliança Geração de Energia						
S.A.		(334)		22		
Banco Bradesco S.A. (i)			(380)			(462)
Banco do Brasil S.A. (i)			(1,091)			(828)
Baovale Mineração S.A.		(43)			(62)	
BNDES (i)			(1,057)			(489)
BNDES Participações S.A.						
(i)			(146)			(62)
Companhia						
Coreano-Brasileira de						
Pelotização		(152)	(17)		(187)	
Companhia						
Hispano-Brasileira de						
Pelotização		(108)	(11)		(121)	
Companhia Ítalo-Brasileira						
de Pelotização		(123)	(19)		(156)	
Companhia Nipo-Brasileira						
de Pelotização		(285)	(29)		(236)	
Companhia Siderúrgica do						
Atlântico		(21)				
Companhia Siderúrgica do						
Pecem	308					
Ferrovia Centro Atlântica						
S.A.	104	(75)	(5)	120	(94)	(4)
Ferrovia Norte Sul S.A.	50					
Mitsui & Co., Ltd.	359			471		
MRS Logística S.A.		(1,161)			(1,161)	
Samarco Mineração S.A.				336		
VLI Multimodal S.A.	30					
VLI Operações Portuárias						
S.A.	348	(35)		112		
VLI S.A.	327			528		
Others	48	(94)	1	139	(92)	19
Total	1,574	(2,431)	(2,754)	1,728	(2,109)	(1,826)

⁽i) Does not include exchange rate variation

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

(a) Investments

	Parent compa	any
	2016	2015
Balance at January 1st	127,517	128,615
Acquisitions		1,818
Additions	1,638	5,109
Disposals		(4,000)
Translation adjustment	(13,504)	35,215
Equity results in income statement	5,970	(4,720)
Equity results in statement of comprehensive income	(683)	177
Dividends declared	(524)	(355)
Transfer to held for sale		(30)
Others	8	132
Balance at September 30,	120,422	161,961

(b) Intangible

	Parent company					
	Concessions	Right of use	Software	Total		
Balance at December 31, 2015	7,084	123	1,350	8,557		
Additions (i)	3,643		36	3,679		
Disposals	(29)			(29)		
Amortization	(405)	(5)	(362)	(772)		
Balance at September 30, 2016	10,293	118	1,024	11,435		
Cost	13,773	223	4,033	18,029		
Accumulated amortization	(3,480)	(105)	(3,009)	(6,594)		
	10,293	118	1,024	11,435		

	Parent company						
	Concessions	Right of use	Software	Total			
Balance at December 31, 2014	5,876	129	1,462	7,467			
Additions	1,572		365	1,937			
Disposals	(49)			(49)			
Amortization	(361)	(6)	(380)	(747)			
Balance at September 30, 2015	7,038	123	1,447	8,608			
Cost	10,581	223	3,967	14,771			

Accumulated amortization	(3,543)	(100)	(2,520)	(6,163)
	7,038	123	1,447	8,608

(i) Refers mainly duplication the Carajás Railroad.

51

(c) Property, plant and equipment

	Parent company Mineral Constructions							
	Land	Building	Facilities	Equipment	properties	Others	in progress	Total
Balance at								
December 31, 2015	1,672	19,546	19,379	8,371	4,215	14,203	29,501	96,887
Additions (i)							6,288	6,288
Disposals		(1)	(9)	(64)		(37)	(30)	(141)
Depreciation and								
amortization		(467)	(723)	(817)	(152)	(934)		(3,093)
Assets retirement								
obligations					159			159
Transfers	9	1,808	759	960	(46)	226	(3,721)	(5)
Balance at								
September 30, 2016	1,681	20,886	19,406	8,450	4,176	13,458	32,038	100,095
Cost	1,681	24,044	25,796	14,103	5,575	21,049	32,038	124,286
Accumulated								
depreciation		(3,158)	(6,390)	(5,653)	(1,399)	(7,591)		(24,191)
	1,681	20,886	19,406	8,450	4,176	13,458	32,038	100,095

	Parent company							
	Land	Building	Facilities	Equipment	Mineral properties	Others	Constructions in progress	Total
Balance at								
December 31, 2014	1,452	13,364	17,337	7,097	4,396	9,820	33,855	87,321
Additions (i)							9,614	9,614
Disposals		(10)	(8)	(92)		(36)		(146)
Depreciation and								
amortization		(371)	(656)	(722)	(259)	(856)		(2,864)
Transfers	236	4,530	2,452	1,682	543	4,053	(13,496)	
Balance at								
September 30, 2015	1,688	17,513	19,125	7,965	4,680	12,981	29,973	93,925
Cost	1,688	20,085	24,712	12,690	5,794	19,852	29,973	114,794
Accumulated								
depreciation		(2,572)	(5,587)	(4,725)	(1,114)	(6,871)		(20,869)
	1,688	17,513	19,125	7,965	4,680	12,981	29,973	93,925

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

(d) Loans and borrowings

		Paren	t company			
	Current li	iabilities	Non-current liabilities			
	September 30, 2016	December 31, 2015	September 30, 2016	December 31, 2015		
Debt contracts in the						
international markets						
Floating rates in:						
US\$	447	567	15,060	16,829		
Fixed rates in:						
US\$	1,331	937	4,869	9,020		
EUR			5,473	6,376		
Accrued charges	329	479				
	2,107	1,983	25,402	32,225		
Debt contracts in Brazil						
Floating rates in:						
R\$, indexed to TJLP,						
TR, IPCA, IGP-M and CDI	921	780	17,395	17,658		
Basket of currencies and						
US\$ indexed to LIBOR	1,074	1,125	4,049	5,227		
Fixed rates in:						
R\$	190	190	733	876		
Accrued charges	999	658				
	3,184	2,753	22,177	23,761		
	5,291	4,736	47,579	55,986		

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

	Parent company Debt principal
2016	604
2017	4,099
2018	12,546
2019	6,872
2020	7,690
2021	3,553
Between 2022 and 2025	10,683
2026 onwards	5,495
	51,542

(e) Provisions for litigation

		Parent company					
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	Total of litigation provision		
Balance at December 31,							
2015	332	241	1,562	55	2,190		
Additions	38	296	575	7	916		
Reversals	(44)	(171)	(278)	(16)	(509)		
Payments	(277)	(167)	(306)		(750)		
Indexation and interest	2	66	56	(4)	120		
Balance at September 30,							
2016	51	265	1,609	42	1,967		

			Parent company		
	Tax litigation	Civil litigation	Labor litigation	Environmental litigation	Total of litigation provision
Balance at December 31,					
2014	436	186	1,732	94	2,448
Additions	369	89	379	1	838
Reversals	(500)	(82)	(330)	(1)	(913)
Payments	(44)	(4)	(56)	(34)	(138)
Indexation and interest	97	50	(127)	6	26
Balance at September 30,					
2015	358	239	1,598	66	2,261

(f) 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 Nine months period ended Se	entember 30
	2016	2015
Net income (loss) before income taxes	17,958	(28,663)
Income taxes at statutory rates - 34%	(6,106)	9,745
Adjustments that affect the basis of taxes:		
Income tax benefit from interest on stockholders equity		1,054
Tax incentives	559	
Equity results	2,030	(1,605)
Addiction (Reversals) of tax loss carry forward	(1,250)	8,818
Others results in associates and joint ventures	(1,305)	
Others	(148)	(407)
Income taxes	(6,220)	17,605
5.	3	

(g) Related parties

	Parent company Assets							
		Septembe	r 30. 2016	ASS	seis	December	· 31, 2015	
	Cash and	September	Derivative		Cash and	December	Derivative	
	cash equivalents	Accounts receivable	financial instruments	Related parties	cash equivalents	Accounts receivable	financial instruments	Related parties
Banco Bradesco S.A.	88		711	•	44		258	•
Banco do Brasil S.A.	39		101		217		62	
Biopalma da Amazônia S.A.				973				1,360
Companhia Coreano-Brasileira de				4.7				22
Pelotização				45				22
Companhia								
Hispano-Brasileira de		_						
Pelotização		7						14
Companhia								
Ítalo-Brasileira de								
Pelotização								33
Companhia								
Nipo-Brasileira de								
Pelotização				71				35
Companhia Portuária								
Baía de Sepetiba				119				119
Companhia Siderúrgica								
do Atlântico				52				
Companhia Siderúrgica								
do Pecem		173						
Empreendimentos								
Brasileiros de Mineração								
S.A.				121				
Mineração Brasileiras								
Reunidas S.A.								161
Mineração Corumbaense								
Reunidas S.A.		46				51		
MRS Logística S.A.				26				27
Salobo Metais S.A.		14		119		22		155
Vale International S.A.		26,092				36,518		331
VLI Multimodal S.A.		15				36		
VLI Operações Portuárias								
S.A.		6				99		
VLI S.A.		6		38				39
Others		126		3		230		6
Total	127	26,485	812	1,567	261	36,956	320	2,302

Parent company Liabilities

		September 30, 2016 Derivative		Datametes		December 31, 2015 Derivative		
	Othes liabilities	financial instruments	Related parties	Loans and borrowings	Othes liabilities	financial instruments	Related parties	Loans and borrowings
Aliança Geração de	38		155		43			
Energia S.A.	38	1.506	155	10	43	000		1 445
Banco Bradesco S.A.		1,526		19		800		1,445
Banco do Brasil S.A.	70	678		9,365	29	976		10,250
Baovale Mineração S.A.	70	100		12.004	29	150		14.405
BNDES		123		13,004		152		14,405
BNDES Participações S.A.				1,428				1,449
Companhia				1,420				1,449
Coreano-Brasileira de								
Pelotização	149				15			
Companhia	117				13			
Hispano-Brasileira de								
Pelotização	82				143			
Companhia								
Ítalo-Brasileira de								
Pelotização	105				12			
Companhia								
Nipo-Brasileira de								
Pelotização	300				34			
Companhia Portuária								
Baía de Sepetiba	677				484			
Ferrovia Centro Atlântica								
S.A.			268				266	
Mineração Brasileiras								
Reunidas S.A.	521		3,032		510		3,172	
MRS Logística S.A.	43				91			
Vale International S.A.	4		56,126		5		66,814	
VLI S.A.	2		109		2			
Others	146		351		255		359	
Total	2,137	2,327	60,041	23,816	1,623	1,928	70,611	27,549

Parent company Nine months period ended September 30 2016 2015 Costs and Net operating Net operating Costs and revenue expenses Financial result revenue expenses Financial result Aliança Geração de Energia (334)S.A. Banco Bradesco S.A. (i) (389)(461)Banco do Brasil S.A. (i) (1,094)(828) Baovale Mineração S.A. (43) Biopalma da Amazônia S.A. 526 (178)BNDES (i) (480)(1,033)BNDES Participações S.A. (i) (146)(62)Companhia Coreano-Brasileira de Pelotização (151)(62)Companhia Hispano-Brasileira de Pelotização (108)(187)Companhia Ítalo-Brasileira de Pelotização (121)(123)Companhia Nipo-Brasileira de Pelotização (285)(156)Companhia Portuária Baía de (536)(602)Sepetiba Companhia Siderúrgica do Atlântico (21)Companhia Siderúrgica do Pecem 294 Ferrovia Centro Atlântica 104 S.A. (75)(5) 120 (94)(4) Mineração Brasileiras Reunidas S.A. (1,172)(305)(675)(53)MRS Logística S.A. (1,161)(1,161)Salobo Metais S.A. 30 24 (7) Samarco Mineração S.A. 336 7 Vale Energia S.A. (8) (185)Vale International S.A. 28,206 3,344 26,945 (13,425)VLI Multimodal S.A. 30 VLI Operações Portuárias 112 S.A. 348 (35)VLI S.A. 327 528 Others (276)95 (247)55 89 (3) 29,428 **Total** (4,055)(82)28,161 (3,497)(14,725)

⁽i) Does not include exchange rate variation

Members of the Board of Directors, Fiscal Council, Advisory Committees and Executive Officers

Board of Directors

Gueitiro Matsuo Genso

Chairman

Sérgio Alexandre Figueiredo Clemente

Vice-President

Dan Antonio Marinho Conrado Marcel Juviniano Barros Eduardo Refinetti Guardia Fernando Jorge Buso Gomes Motomu Takahashi

Oscar Augusto de Camargo Filho Eduardo de Salles Bartolomeo

Lucio Azevedo Alberto Guth

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

Marcelo Marcolino

Carlos Roberto de Assis Ferreira

Marcelo Gasparino

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Controlling Committee

Eduardo Cesar Pasa Moacir Nachbar Junior

Oswaldo Mário Pego de Amorim Azevedo

Executive Development Committee

Oscar Augusto de Camargo Filho

Governance and Sustainability Committee

Fernando Jorge Buso Gomes Fernando Santos do Nascimento Eduardo de Oliveira Rodrigues Filho Priscila Valle Costa de Oliveira Ricardo Simonsen

Fiscal Council

Marcelo Amaral Moraes

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Alternate

Paula Bicudo de Castro Magalhães Sergio Mamede Rosa do Nascimento Oswaldo Mário Pego de Amorim Azevedo Julio Sergio de Souza Cardozo

Executive Officers

Murilo Pinto de Oliveira Ferreira Chief Executive Officer

Clovis Torres Junior

Executive Officer (Human Resources, Health & Safety, Sustainability, Energy, Mergers and Acquisitions, Governance, Corporate Integrity, Legal and Tax)

Luciano Siani Pires

Executive Officer (Finance and Investors Relations)

Roger Allan Downey

Executive Officer (Fertilizers, Coal and Strategy)

Gerd Peter Poppinga

Executive Officer (Ferrous)

Marcel Juviniano Barros Humberto Ramos de Freitas

Fernando Jorge Buso Gomes **Executive Officer (Logistics and Mineral Research)**

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Gilmar Dalilo Cezar Wanderley Fernando Jorge Buso Gomes

Eduardo de Oliveira Rodrigues Filho

Marcelo Marcolino

Rogerio Nogueira

Global Controller Director

Controllership Director

Dioni Brasil

Accounting Manager TC-CRC-RJ 083305/O-8

56

Table of Contents

Date: October 27, 2016

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)

By:

/s/ Andre Figueiredo Andre Figueiredo

Director of Investor Relations