

Vale S.A.
Form 6-K
October 24, 2018
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United States
Securities and Exchange Commission

Washington, D.C. 20549

FORM 6-K

Report of Foreign Private Issuer

Pursuant to Rule 13a-16 or 15d-16

of the

Securities Exchange Act of 1934

For the month of

October 2018

Vale S.A.

Praia de Botafogo, 186
22250-145 Rio de Janeiro, RJ, Brazil

(Address of principal executive office)

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(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 Form 40-F

(Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1))

(Check One) Yes No

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(Check One) Yes No

(Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.)

(Check One) Yes No

(If Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b). 82- .)

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Interim Financial Statements

September 30, 2018

BRGAAP in R\$ (English)

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Vale S.A. Interim Financial Statements

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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

1. We have reviewed the interim financial information, individual and consolidated, of Vale S.A. (the Company), identified as Parent Company and Consolidated, respectively, included in the quarterly information form - ITR for the quarter ended September 30, 2018, which comprises the individual and consolidated statement of financial position as of September 30, 2018 and the respective statements of income and comprehensive income for the three and nine months periods ended on September 30, 2018, the statements of changes in equity for the nine-month period then ended and of the individual statement of cash flows for the nine-month period and the consolidated statements of cash flows for the three and nine months periods then ended, including the explanatory notes.

2. The Company's Management is responsible for the preparation of these interim financial information in accordance with the CPC 21(R1) Demonstração Intermediária and the IAS 34 - Interim Financial Reporting, issued by the International Accounting Standards Board IASB, as well as the presentation of these information in accordance with the standards issued by the Brazilian Securities and Exchange Commission, applicable to the preparation of quarterly information - ITR. Our responsibility is to express our conclusion on this interim financial information based on our review.

KPMG Auditores Independentes, uma sociedade simples brasileira e firma-membro da rede KPMG de firmas-membro independentes e afiliadas à KPMG International Cooperative (KPMG International), uma entidade suíça. *KPMG Auditores Independentes, a Brazilian entity and a member firm of the KPMG network of independent member firms affiliated with KPMG International Cooperative (KPMG International), a Swiss entity.*

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Scope of the review

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

Conclusion on the interim financial information

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

Other matters

Statements of added value

5. The individual and consolidated interim financial information related to the statement of value added for the nine-month period ended September 30, 2018, prepared under the responsibility of the Company's management, and presented as supplementary information for the purposes of IAS 34, was submitted to the same review procedures followed together with the review of the Company's interim financial information. In order to form our conclusion, we evaluated whether this statement was reconciliated to the interim financial information and to the accounting records, as applicable, and whether their form and content are in accordance with the criteria set on Technical Pronouncement CPC 09 - Statement of Value Added. Based on our review, nothing has come to our attention that causes us to believe that the accompanying statement of value added was not prepared, in all material respects, in accordance with the individual and consolidated interim financial information taken as a whole.

Rio de Janeiro, October 24, 2018

KPMG Auditores Independentes

CRC SP-014428/O-6 F-RJ

(Original report in Portuguese signed by)

Bernardo Moreira Peixoto Neto

Accountant CRC RJ-064887/O-8

Table of Contents**Income Statement**

In millions of Brazilian reais, except earnings per share data

	Notes	Consolidated			
		Three-month period ended September 30,		Nine-month period ended September 30,	
		2018	2017	2018	2017
Continuing operations					
Net operating revenue	3(c)	37,862	28,600	97,028	78,705
Cost of goods sold and services rendered	5(a)	(22,827)	(17,099)	(59,260)	(48,426)
Gross profit		15,035	11,501	37,768	30,279
Operating expenses					
Selling and administrative expenses	5(b)	(535)	(409)	(1,377)	(1,223)
Research and evaluation expenses		(346)	(285)	(899)	(748)
Pre operating and operational stoppage		(241)	(265)	(736)	(915)
Other operating expenses, net	5(c)	(244)	(484)	(1,042)	(1,002)
		(1,366)	(1,443)	(4,054)	(3,888)
Impairment and other results on non-current assets	4	(707)	(532)	(749)	345
Operating income		12,962	9,526	32,965	26,736
Financial income	6	445	482	1,114	1,054
Financial expenses	6	(1,479)	(2,393)	(6,320)	(7,959)
Other financial items	6	(3,924)	2,665	(12,753)	1,424
Equity results in associates and joint ventures	13	134	367	584	509
Impairment and other results in associates and joint ventures	17	(80)	(78)	(1,671)	(379)
Income before income taxes		8,058	10,569	13,919	21,385
Income taxes					
	7				
Current tax		280	(1,654)	(475)	(3,461)
Deferred tax		(2,730)	(1,407)	(2,021)	(1,660)
		(2,450)	(3,061)	(2,496)	(5,121)
Net income from continuing operations		5,608	7,508	11,423	16,264
Net income (loss) attributable to noncontrolling interests		(145)	19	(58)	166
Net income from continuing operations attributable to Vale's stockholders		5,753	7,489	11,481	16,098
Discontinued operations					
	12				
Loss from discontinued operations			(338)	(310)	(983)
Net income attributable to noncontrolling interests			8		21
Loss from discontinued operations attributable to Vale's stockholders			(346)	(310)	(1,004)

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Net income	5,608	7,170	11,113	15,281	
Net income (loss) attributable to noncontrolling interests	(145)	27	(58)	187	
Net income attributable to Vale's stockholders	5,753	7,143	11,171	15,094	
Earnings per share attributable to Vale's stockholders:					
Basic and diluted earnings per share (restated):					
Common share (R\$)	8	1.11	1.37	2.15	2.90

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

Table of Contents**Income Statement**

In millions of Brazilian reais, except earnings per share data

	Parent company			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Continuing operations				
Net operating revenue	22,728	14,369	56,860	47,033
Cost of goods sold and services rendered	(10,318)	(8,335)	(28,299)	(24,424)
Gross profit	12,410	6,034	28,561	22,609
Operating (expenses) income				
Selling and administrative expenses	(242)	(229)	(694)	(690)
Research and evaluation expenses	(210)	(171)	(549)	(444)
Pre operating and operational stoppage	(179)	(256)	(562)	(660)
Equity results from subsidiaries	531	3,224	4,104	4,840
Other operating expenses, net	(286)	(438)	(836)	(523)
	(386)	2,130	1,463	2,523
Impairment and other results on non-current assets	(81)	(258)	(305)	(326)
Operating income	11,943	7,906	29,719	24,806
Financial income	95	89	209	302
Financial expenses	(1,508)	(1,968)	(6,079)	(7,477)
Other financial items	(3,316)	2,988	(11,936)	2,120
Equity results in associates and joint ventures	134	367	584	509
Impairment and other results in associates and joint ventures	(80)	(78)	(1,671)	(370)
Income before income taxes	7,268	9,304	10,826	19,890
Income taxes				
Current tax	774	(1,278)	774	(2,344)
Deferred tax	(2,289)	(537)	(119)	(1,448)
	(1,515)	(1,815)	655	(3,792)
Net income from continuing operations	5,753	7,489	11,481	16,098
Discontinued operations				
Loss from discontinued operations		(346)	(310)	(1,004)
Net income	5,753	7,143	11,171	15,094
Earnings per share attributable to Vale's stockholders:				
Basic and diluted earnings per share (restated):				
Common share (R\$)	1.11	1.37	2.15	2.90

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

Table of Contents**Statement of Comprehensive Income**

In millions of Brazilian reais

	Consolidated			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Net income	5,608	7,170	11,113	15,281
Other comprehensive income (loss):				
Items that will not be reclassified subsequently to the income statement				
Retirement benefit obligations	144	142	112	(573)
Fair value adjustment to investment in equity securities	702		873	
Transfer to retained earnings			(51)	
Total of items that will not be reclassified subsequently to the income statement, net of tax	846	142	934	(573)
Items that may be reclassified subsequently to the income statement				
Translation adjustments	4,854	(2,523)	19,823	(414)
Net investments hedge	(308)	616	(2,338)	339
Transfer of realized results to net income			(257)	
Total of items that may be reclassified subsequently to the income statement, net of tax	4,546	(1,907)	17,228	(75)
Total comprehensive income	11,000	5,405	29,275	14,633
Comprehensive income (loss) attributable to noncontrolling interests	(176)	(118)	142	74
Comprehensive income attributable to Vale's stockholders	11,176	5,523	29,133	14,559
From continuing operations	11,176	5,571	29,117	14,607
From discontinued operations		(48)	16	(48)
	11,176	5,523	29,133	14,559

	Parent company			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Net income	5,753	7,143	11,171	15,094
Other comprehensive income:				
Items that will not be reclassified subsequently to the income statement				
Retirement benefit obligations	32	(26)	(5)	(53)
Fair value adjustment to investment in equity securities	621		770	
Equity results in associates and joint ventures	193	168	220	(520)
Transfer to retained earnings			(51)	
Total of items that will not be reclassified subsequently to the income statement, net of tax	846	142	934	(573)

Items that may be reclassified subsequently to the income statement

Translation adjustments	4,885	(2,378)	19,478	(301)
Net investments hedge	(308)	616	(2,338)	339
Transfer of realized results to net income			(112)	
Total of items that may be reclassified subsequently to the income statement, net of tax	4,577	(1,762)	17,028	38
Total comprehensive income	11,176	5,523	29,133	14,559

Items above are stated net of tax and the related taxes are disclosed in note 7.

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

Table of Contents**Statement of Cash Flows**

In millions of Brazilian reais

	Consolidated			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Cash flow from operating activities:				
Income before income taxes from continuing operations	8,058	10,569	13,919	21,385
Continuing operations adjustments for:				
Equity results in associates and joint ventures	(134)	(367)	(584)	(509)
Impairment and other results on non-current assets and associates and joint ventures	787	610	2,420	34
Depreciation, amortization and depletion	3,376	2,916	9,322	8,674
Financial results, net	4,958	(754)	17,959	5,481
Changes in assets and liabilities:				
Accounts receivable	(708)	(3,075)	(78)	3,420
Inventories	(721)	(173)	(1,453)	(1,488)
Suppliers and contractors	1,295	113	(82)	1,162
Provision - Payroll, related charges and other remunerations	789	632	(238)	539
Proceeds from cobalt stream transaction			2,603	
Other assets and liabilities, net	81	(855)	(1,734)	(2,824)
	17,781	9,616	42,054	35,874
Interest on loans and borrowings paid	(972)	(1,289)	(3,203)	(4,235)
Derivatives paid, net	(84)	(361)	(127)	(714)
Interest on participative stockholders' debentures paid			(245)	(221)
Income taxes	(867)	(282)	(1,808)	(1,539)
Income taxes - Settlement program	(412)	(393)	(1,225)	(1,159)
Net cash provided by operating activities from continuing operations	15,446	7,291	35,446	28,006
Cash flow from investing activities:				
Financial investments invested	(76)	(124)	(156)	(176)
Loans and advances - net receipts (payments) (note 25)	(341)	(324)	7,955	(1,059)
Additions to property, plant and equipment, intangibles and investments	(2,737)	(2,930)	(8,238)	(9,275)
Proceeds from disposal of assets and investments (note 12 and 13)	476	624	4,937	2,266
Dividends and interest on capital received from associates and joint ventures	28	64	566	330
Other investing activities	(97)	7	(105)	(95)
Net cash provided by (used in) investing activities from continuing operations	(2,747)	(2,683)	4,959	(8,009)
Cash flow from financing activities:				
Loans and borrowings				
Additions	827	1,115	3,641	5,654

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Repayments	(4,537)	(8,895)	(21,350)	(18,327)
Transactions with stockholders:				
Dividends and interest on capital paid to stockholders	(7,694)		(12,415)	(4,660)
Dividends and interest on capital paid to noncontrolling interests	(315)	(372)	(625)	(395)
Share buyback program (note 24)	(1,939)		(1,939)	
Transactions with noncontrolling stockholders			(56)	(305)
Net cash used in financing activities from continuing operations	(13,658)	(8,152)	(32,744)	(18,033)
Net cash used in discontinued operations (note 12)		(56)	(157)	(554)
Increase (decrease) in cash and cash equivalents	(959)	(3,600)	7,504	1,410
Cash and cash equivalents in the beginning of the period	24,557	18,922	14,318	13,891
Effect of exchange rate changes on cash and cash equivalents	826	(380)	2,987	(315)
Effects of disposals of subsidiaries and merger, net of cash and cash equivalents		7	(385)	(37)
Cash and cash equivalents at end of the period	24,424	14,949	24,424	14,949
Non-cash transactions:				
Additions to property, plant and equipment - capitalized loans and borrowing costs	197	351	551	938

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

Table of Contents**Statement of Cash Flows**

In millions of Brazilian reais

	Parent company	
	Nine-month period ended September 30, 2018	2017 (Restated)
Cash flow from operating activities:		
Income before income taxes from continuing operations	10,826	19,890
Continuing operations adjustments for:		
Equity results in subsidiaries, associates and joint ventures	(4,688)	(5,349)
Impairment and other results on non-current assets and associates and joint ventures	1,976	696
Depreciation, amortization and depletion	4,464	4,124
Financial results, net	17,806	5,055
Changes in assets and liabilities:		
Accounts receivable	(5,094)	13,517
Inventories	(254)	(346)
Suppliers and contractors	1,448	81
Provision - Payroll, related charges and other remunerations	(6)	483
Other assets and liabilities, net	1,274	80
	27,752	38,231
Interest on loans and borrowings paid	(1,440)	(4,311)
Derivatives paid, net	(288)	(439)
Interest on participative stockholders debentures paid	(245)	(221)
Dividends received from interest on capital and associates	1,913	1,602
Income taxes	(72)	(735)
Income taxes - Settlement program	(1,200)	(1,136)
Net cash provided by operating activities	26,420	32,991
Cash flow from investing activities:		
Financial investments (invested)	(230)	(195)
Loans and advances - net receipts (payments)	3,667	(7,468)
Additions to property, plant and equipment, intangibles and investments	(6,293)	(7,511)
Proceeds from disposal of assets and investments (note 12)	466	21
Dividends and interest on capital received from subsidiaries, associates and joint ventures	566	300
Others investing activities	(128)	(87)
Net cash used in investing activities	(1,952)	(14,940)
Cash flow from financing activities:		
Loans and borrowings		
Additions	3,641	1,452
Repayments	(12,825)	(12,705)
Transactions with stockholders:		
Dividends and interest on capital paid to stockholders	(12,416)	(4,660)
Stock buy-back program	(1,939)	
Net cash used in financing activities	(23,539)	(15,913)
Increase in cash and cash equivalents	929	2,138

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Cash and cash equivalents in the beginning of the period	1,876	1,203
Effects of disposals of subsidiaries and merger, net of cash and cash equivalents		7
Cash and cash equivalents at end of the period	2,805	3,348
Non-cash transactions:		
Additions to property, plant and equipment - capitalized loans and borrowing costs	548	938

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

Table of Contents**Statement of Financial Position**

In millions of Brazilian reais

	Notes	Consolidated		Parent company	
		September 30, 2018	December 31, 2017	September 30, 2018	December 31, 2017
Assets					
Current assets					
Cash and cash equivalents	16	24,424	14,318	2,805	1,876
Accounts receivable	9	9,807	8,602	17,111	9,560
Other financial assets	11	1,656	6,689	350	409
Inventories	10	16,238	12,987	4,855	4,601
Prepaid income taxes		2,583	2,584	2,418	2,378
Recoverable taxes		3,799	3,876	1,818	2,091
Others		2,079	1,780	944	1,542
		60,586	50,836	30,301	22,457
Non-current assets held for sale	12		11,865		7,082
		60,586	62,701	30,301	29,539
Non-current assets					
Judicial deposits	22(c)	6,730	6,571	6,290	6,110
Other financial assets	11	12,880	10,690	5,648	1,865
Prepaid income taxes		2,246	1,754		
Recoverable taxes		2,173	2,109	2,093	2,062
Deferred income taxes	7(a)	22,875	21,959	15,409	14,200
Others		1,084	882	1,308	810
		47,988	43,965	30,748	25,047
Investments	13	12,598	11,802	144,521	117,387
Intangibles	14	31,190	28,094	15,254	13,471
Property, plant and equipment	15	189,917	181,535	101,521	102,978
		281,693	265,396	292,044	258,883
Total assets		342,279	328,097	322,345	288,422
Liabilities					
Current liabilities					
Suppliers and contractors		16,169	13,367	9,369	7,503
Loans and borrowings	16	5,498	5,633	4,027	4,378
Other financial liabilities	11	3,545	3,260	4,855	4,413
Taxes payable	7(c)	2,525	2,307	2,168	1,991
Provision for income taxes		637	1,175		
Liabilities related to associates and joint ventures	17	1,171	1,080	1,171	1,080
Provisions	21	4,697	4,610	2,788	2,904
Dividends and interest on capital			4,742		4,439
Others		2,476	3,284	2,717	2,552
		36,718	39,458	27,095	29,260
	12		3,899		

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Liabilities associated with non-current assets held for sale					
		36,718	43,357	27,095	29,260
Non-current liabilities					
Loans and borrowings	16	61,808	68,759	23,625	28,966
Other financial liabilities	11	11,284	9,575	74,882	54,955
Taxes payable	7(c)	15,448	16,176	15,140	15,853
Deferred income taxes	7(a)	6,852	5,687		
Provisions	21	25,492	23,243	7,901	6,900
Liabilities related to associates and joint ventures					
	17	3,045	2,216	3,045	2,216
Deferred revenue - Gold stream		6,684	6,117		
Others		8,254	4,861	7,399	6,514
		138,867	136,634	131,992	115,404
Total liabilities		175,585	179,991	159,087	144,664
Stockholders equity					
	24				
Equity attributable to Vale's stockholders		163,258	143,758	163,258	143,758
Equity attributable to noncontrolling interests		3,436	4,348		
Total stockholders equity		166,694	148,106	163,258	143,758
Total liabilities and stockholders equity		342,279	328,097	322,345	288,422

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

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Statement of Changes in Equity

In millions of Brazilian reais

	Share capital	Results on conversion of shares	Capital reserve	Results from operation with noncontrolling interest	Profit reserves	Treasury stocks	Unrealized fair value gains (losses)	Cumulative translation adjustments	Retained earnings	Equity attributable to Vale's stockholders	Equity attributable to noncontrolling interests	Treasury stock
Balance at December 31, 2017	77,300	50	3,634	(2,663)	24,539	(2,746)	(3,912)	47,556		143,758	4,348	1
Net income									11,171	11,171	(58)	
Other comprehensive income:												
Retirement benefit obligations							112		(51)	61		
Net investments hedge								(2,338)		(2,338)		
Fair value adjustment to investment in equity securities							873			873		
Translation adjustments							327	19,039		19,366	200	
Transactions with stockholders:												
Dividends and interest on capital of Vale's stockholders									(7,694)	(7,694)		
Dividends of noncontrolling interest											(318)	
Acquisitions and disposal of noncontrolling interest											(756)	
Capitalization of noncontrolling interest advances												20
Share buyback program						(1,939)				(1,939)		
	77,300	50	3,634	(2,663)	24,539	(4,685)	(2,600)	64,257	3,426	163,258	3,436	1

Balance at
September 30,
2018

	Share capital	Results on conversion of shares	Capital reserve	Results from operation with noncontrolling interest	Profit reserves	Treasury stocks	Unrealized fair value gains (losses)	Cumulative translation adjustments	Retained earnings	Equity attributable to Vale's stockholders	Equity attributable to noncontrolling interests	T
Balance at December 31, 2016	77,300	50		(1,870)	13,698	(2,746)	(3,739)	44,548		127,241	6,461	1
Net income									15,094	15,094	187	
Other comprehensive income:												
Retirement benefit obligations							(573)			(573)		
Net investments hedge								339		339		
Translation adjustments							72	(373)		(301)	(113)	
Transactions with stockholders:												
Dividends and interest on capital of Vale's stockholders										(2,064)		
Dividends of noncontrolling interest											(341)	
Acquisitions and disposal of noncontrolling interest										(868)	(1,629)	
Capitalization of noncontrolling interest												106
Merger of Valepar			3,692							3,692		
Balance at September 30, 2017	77,300	50	3,692	(2,738)	11,634	(2,746)	(4,240)	44,514	15,094	142,560	4,671	1

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

Table of Contents**Value Added Statement**

In millions of Brazilian Reais

	Consolidated		Parent company	
	Nine-month period ended September 30,			
	2018	2017	2018	2017
Generation of value added from continuing operations				
Gross revenue				
Revenue from products and services	98,168	79,771	57,701	47,793
Impairment and other results on non-current assets	(749)	345	(305)	(326)
Revenue from the construction of own assets	8,271	4,657	5,302	4,165
Expected credit losses	(10)	(19)	(5)	6
Other revenues	7,462	396	3,238	313
Less:				
Acquisition of products	(1,228)	(1,483)	(534)	(516)
Material, service and maintenance	(24,918)	(19,353)	(13,973)	(12,183)
Oil and gas	(4,051)	(3,015)	(2,640)	(2,074)
Energy	(2,497)	(2,226)	(1,271)	(1,057)
Freight	(11,414)	(7,374)	(112)	(81)
Impairment and other results in associates and joint ventures	(1,671)	(379)	(1,671)	(370)
Impairment of discontinued operations				(1,004)
Other costs and expenses	(9,627)	(4,582)	(5,979)	(763)
Gross value added	57,736	46,738	39,751	33,903
Depreciation, amortization and depletion	(9,322)	(8,674)	(4,464)	(4,124)
Net value added	48,414	38,064	35,287	29,779
Received from third parties				
Equity results from entities	584	509	4,688	4,345
Equity results from discontinued operations				1,004
Financial income	1,114	1,054	209	302
Monetary and exchange variation of assets	2,087	(276)	2,746	(404)
Total value added from continuing operations to be distributed	52,199	39,351	42,930	35,026
Value added from discontinued operations to be distributed	63	482		
Total value added to be distributed	52,262	39,833	42,930	35,026
Personnel	6,988	5,502	3,577	2,648
Taxes and contributions	7,987	5,559	4,270	5,390
Current income tax	475	3,461	(774)	2,344
Deferred income tax	2,021	1,660	119	1,448
Financial expense (excludes capitalized interest)	7,432	6,222	7,074	6,335
Monetary and exchange variation of liabilities	13,622	(154)	13,592	(1,424)
Other remunerations of third party funds	2,561	1,841	3,901	3,191
Reinvested net income	11,171	15,094	11,171	15,094
Net income (loss) attributable to noncontrolling interest	(58)	166		
Distributed value added from continuing operations	52,199	39,351	42,930	35,026

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Distributed value added from discontinued operations	63	482		
Distributed value added	52,262	39,833	42,930	35,026

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

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Selected Notes to the Interim Financial Statements

Expressed in millions of Brazilian reais, unless otherwise stated

1. Corporate information

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

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

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 and are being presented in accordance with IAS 34 Interim Financial Reporting (CPC 21) of the International Financial Reporting Standards (IFRS) as implemented in Brazil by the Brazilian Accountant Pronouncements Committee (CPC), approved by the Brazilian Securities Exchange Commission (CVM) and by the Brazilian Federal Accounting Council (CFC). All relevant information from its own interim financial statements, and only this information, are being presented and correspond to those used by the Company's Management.

The selected notes of the Parent Company are presented in a summarized form in note 26.

b) Basis of presentation

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The interim financial statements have been prepared to update users about relevant events and transactions occurred in the period and should be read in conjunction with the financial statements for the year ended December 31, 2017. The accounting policies, accounting estimates and judgments, risk management and measurement methods are the same as those applied when preparing the last annual financial statements, except for new accounting policies related to the application of IFRS 9 Financial instrument (CPC 48) and IFRS 15 Revenue from contracts with customers (CPC 47), which were adopted by the Company from January 1, 2018. The accounting policy for recognizing and measuring income taxes in the interim period is described in note 7.

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

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

	Closing rate		Average rate			
	September 30, 2018	December 31, 2017	Three-month period ended September 30, 2018	September 30, 2017	September 30, 2018	September 30, 2017
US Dollar (US\$)	4.0039	3.3080	3.9505	3.1639	3.6055	3.1750
Canadian dollar (CAD)	3.0992	2.6344	3.0232	2.5235	2.7973	2.4319
Australian dollar (AUD)	2.8980	2.5849	2.8899	2.4969	2.7255	2.4320
Euro (EUR or)	4.6545	3.9693	4.5950	3.7162	4.2969	3.5392

The issue of these interim financial statements was authorized by the Board of Directors on October 24, 2018.

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c) Changes in significant accounting policies

i) IFRS 9 Financial instrument The Company has adopted IFRS 9 Financial Instruments starting January 1, 2018. This standard addresses the classification and measurement of financial assets and liabilities, new impairment model and new rules for hedge accounting. The main changes are described below:

- Classification and measurement - Under IFRS 9, the Company's financial assets are initially measured at fair value (plus transaction costs if it is not measured at fair value through profit or loss).

The investments in debt financial instruments are subsequently measured at fair value through profit or loss (FVTPL), amortized cost, or fair value through other comprehensive income (FVOCI). The classification is based on two conditions: the Company's business model in which the asset is held; and whether the contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding (SPPI).

The FVOCI category only includes equity instruments, which is not held for trading and the Company has irrevocably elected to designate upon initial recognition. The gains or losses from equity instruments at FVOCI are not recycled to income statement on derecognition and these financial assets are not subject to an impairment assessment under IFRS 9.

The Company has assessed its business models as of the date of IFRS 9 initial application, 1 January 2018, and no significant impact were identified in the financial statements.

- Impairment - IFRS 9 has replaced the IAS 39's incurred loss approach with a forward-looking expected credit loss (ECL) approach.

For accounts receivables, the Company has applied the standard's simplified approach and has calculated ECLs based on lifetime expected credit losses. The Company has established a provision matrix that is based on its historical credit loss experience, adjusted for forward-looking factors specific to the economic environment and by any financial guarantees related to these accounts receivables.

For other financial assets, the ECL is based on the 12-month ECL. The 12-month ECL is the proportion of lifetime ECLs that results from default events on a financial instrument that are possible within 12 months after the reporting date. However, when there has been a significant increase in credit risk since origination, the allowance will be based on the lifetime ECL.

When determining whether the credit risk of a financial asset has increased significantly since initial recognition and when estimating ECLs, the Company considers reasonable and supportable information that is relevant and available without undue cost or effort. This includes both quantitative and qualitative information and analysis, based on the Company's historical experience and informed credit assessment including forward-looking information.

At each reporting date, the Company assesses whether financial assets carried at amortized cost are credit-impaired. A financial asset is credit-impaired when one or more events that have a detrimental impact on the estimated future cash flows of the financial asset have occurred.

There is no significant impact on its financial statements resulting from this new impairment approach given Vale's credit rating and risk management policies in place.

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

ii) IFRS 15 Revenue from contracts with customers - The Company has adopted IFRS 15 Revenue from contracts with customers starting January 1, 2018. IFRS 15 establishes a comprehensive framework for revenue recognition and replaced IAS 18 Revenue, IAS 11 Construction Contracts and related

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interpretations. The Company has adopted IFRS 15 using the modified retrospective method. Accordingly, the information presented for 2017 has not been restated.

- Sales of commodities - IFRS 15 introduced the five-step model for revenue recognition from contracts with customers. The new standard is based on the core principle that revenue is recognized when the control of a good or service transfers to a customer of an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services.

There is no significant impact on the timing of commodities revenue recognition under IFRS 15, since usually the transfer of risks and rewards and the transfer of control under the sales contracts are at the same point in time.

The disaggregated revenue information is disclosed in note 3.

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

Under IFRS 15, the provision of shipping services for CFR and CIF contracts should be considered as a separate performance obligation in which a proportion of the transaction price would be allocated and recognized over time as the shipping services are provided. The impact on the timing of revenue recognition of the proportion allocated to the shipping service is not significant to the Company's quarter-end results ended September 30, 2018. Therefore, such revenue has not been presented separately in these interim financial statements.

- Provisionally priced commodities sales - Under IFRS 9 and 15, the treatment of the provisional pricing mechanisms embedded within the provisionally priced commodities sales remains unmodified. Therefore, these revenues are recognized based on the estimated fair value of the total consideration receivable, and the provisionally priced sales mechanism embedded within these sale arrangements has the character of a derivative.

The Company is mostly exposed to the fluctuations in the iron ore and copper price.

The selling price of these products can be measured reliably at each period, since the price is quoted on an active market. The fair value of the sales price adjustment was recognized as operational revenue in the income statement.

Table of Contents**d) Accounting standards issued but not yet effective**

The standards and interpretations issued by IASB relevant to the Company but not yet effective are the same as those applicable when preparing the financial statements for the year ended December 31, 2017, except for IFRS 9 and IFRS 15 adopted by the Company from January 1, 2018. There is no significant impact in the interim financial statements resulting from the application of IFRS 9 and IFRS 15.

e) Restatement of corresponding figures

The amounts corresponding to the Parent Company's statements of cash flows, for the nine-month period ended September 30, 2017, originally presented in the interim financial statements for that period, have been restated for reclassification from financing activities in the amount of R\$6,986 to investing activities. This amount relates to intercompany loans between the Parent Company and its subsidiary and was presented as cash flows from financing activities in the aforementioned period. This reclassification aligns the Company's accounting practice with its cash management policy, which aims to manage at the Parent Company the cash generated by its subsidiaries, including sale of investments and planning for future investments.

The effects of these restatements are as follows:

	Original balance	Parent company Nine-month period ended September 30, 2017 Reclassification	Restated
Statement of cash flows			
Net cash provided by operating activities	32,991		32,991
Cash flow from investing activities			
Loans and advances - net receipts (payments)	(482)	(6,986)	(7,468)
Net cash used in investing activities	(7,954)	(6,986)	(14,940)
Cash flow from financing activities			
Loans and borrowings			
Additions	7,875	(6,423)	1,452
Repayments	(26,114)	13,409	(12,705)
Net cash used in financing activities	(22,899)	6,986	(15,913)
Increase in cash and cash equivalents	2,138		2,138

Table of Contents**3. Information by business segment and by geographic area**

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

a) Adjusted LAJIDA (EBITDA)

Management uses adjusted LAJIDA (EBITDA) to assess each segment's contribution to the Company's performance and to support the decision making process. Adjusted LAJIDA (EBITDA) is calculated for each segment using operating income or loss plus dividends received and interest from associates and joint ventures, and adding back the amounts charged as (i) depreciation, depletion and amortization and (ii) special events (note 4).

In 2018, the Company has allocated general and corporate expenses to Others as these expenses are not directly related to the performance of each business segment. Therefore, Others includes unallocated corporate expenses. The comparative period was restated in order to reflect this change in the criteria for allocation.

	Consolidated Three-month period ended September 30, 2018						
	Net operating revenue	Cost of goods sold and services rendered	Selling, administrative and other operating expenses (i)	Research and evaluation	Pre operating and operational stoppage	Dividends received and interest from associates and joint ventures	Adjusted LAJIDA (EBITDA)
Ferrous minerals							
Iron ore	22,215	(9,777)	(5)	(105)	(95)		12,233
Iron ore Pellets	6,444	(3,211)	(17)	(24)	(24)		3,168
Ferroalloys and manganese	413	(284)	(2)	1			128
Other ferrous products and services	452	(293)	(5)	(3)		28	179
	29,524	(13,565)	(29)	(131)	(119)	28	15,708
Coal	1,671	(1,708)	8	(16)		106	61
Base metals							
Nickel and other products	4,314	(3,177)	(11)	(39)	(33)		1,054
Copper	1,987	(895)	(5)	(18)			1,069
	6,301	(4,072)	(16)	(57)	(33)		2,123
Others	366	(249)	(477)	(142)	(22)		(524)

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Total of continuing operations	37,862	(19,594)	(514)	(346)	(174)	134	17,368
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(i) Adjusted for a loss of R\$189 refers to provision for litigation classified as special events.

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	Consolidated						Adjusted LAJIDA (EBITDA)
	Three-month period ended September 30, 2017						
Net operating revenue	Cost of goods sold and services rendered	Selling, administrative and other operating expenses	Research and evaluation	Pre operating and operational stoppage	Dividends received and interest from associates and joint ventures		
Ferrous minerals							
Iron ore	16,212	(6,584)	(51)	(72)	(148)	3	9,360
Iron ore Pellets	4,556	(2,320)	(26)	(16)	(6)		2,188
Ferrous alloys and manganese	416	(223)	(9)		2		186
Other ferrous products and services	368	(243)	2	(1)	(1)	38	163
	21,552	(9,370)	(84)	(89)	(153)	41	11,897
Coal	1,137	(1,164)	(1)	(14)		212	170
Base metals							
Nickel and other products	3,688	(2,788)	(69)	(42)	(1)		788
Copper	1,881	(781)	(18)	(17)			1,065
	5,569	(3,569)	(87)	(59)	(1)		1,853
Others	342	(248)	(662)	(123)	(2)	23	(670)
Total of continuing operations	28,600	(14,351)	(834)	(285)	(156)	276	13,250
Discontinued operations							
(Fertilizers)	1,685	(1,554)	(74)	(12)	(11)		34
Total	30,285	(15,905)	(908)	(297)	(167)	276	13,284

	Consolidated						Adjusted LAJIDA (EBITDA)
	Nine-month period ended September 30, 2018						
Net operating revenue	Cost of goods sold and services rendered	Selling, administrative and other operating expenses (i)	Research and evaluation	Pre operating and operational stoppage	Dividends received and interest from associates and joint ventures		
Ferrous minerals							
Iron ore	54,101	(24,318)	(142)	(261)	(306)	2	29,076
Iron ore Pellets	17,055	(8,759)	(43)	(60)	(55)	391	8,529
Ferrous alloys and manganese	1,234	(763)	(10)	(2)			459
Other ferrous products and services	1,252	(834)	(10)	(5)	(1)	28	430
	73,642	(34,674)	(205)	(328)	(362)	421	38,494
Coal	4,192	(3,980)	(11)	(48)		404	557
Base metals							
Nickel and other products	12,847	(8,391)	(121)	(101)	(85)		4,149
Copper	5,530	(2,582)	(10)	(44)			2,894
	18,377	(10,973)	(131)	(145)	(85)		7,043

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Others	817	(721)	(1,458)	(378)	(60)	145	(1,655)
Total of continuing operations	97,028	(50,348)	(1,805)	(899)	(507)	970	44,439
Discontinued operations (Fertilizers)	397	(393)	(15)				(11)
Total	97,425	(50,741)	(1,820)	(899)	(507)	970	44,428

(i) Adjusted for a loss of R\$433 refers to provision for litigation classified as special events.

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	Consolidated						Adjusted LAJIDA (EBITDA)
	Nine-month period ended September 30, 2017						
	Net operating revenue	Cost of goods sold and services rendered	Selling, administrative and other operating expenses	Research and evaluation	Pre operating and operational stoppage	Dividends received and interest from associates and joint ventures	
Ferrous minerals							
Iron ore	42,841	(17,945)	82	(195)	(405)	3	24,381
Iron ore Pellets	13,426	(6,663)	(16)	(42)	(14)	119	6,810
Ferroalloys and manganese	1,062	(620)	(16)		(10)		416
Other ferrous products and services	1,157	(728)	35	(4)	(2)	38	496
	58,486	(25,956)	85	(241)	(431)	160	32,103
Coal	3,701	(2,923)	(20)	(35)	(15)	212	920
Base metals							
Nickel and other products	10,497	(8,140)	(137)	(107)	(158)		1,955
Copper	4,967	(2,296)	(24)	(29)			2,618
	15,464	(10,436)	(161)	(136)	(158)		4,573
Others	1,054	(962)	(1,907)	(336)	(8)	170	(1,989)
Total of continuing operations	78,705	(40,277)	(2,003)	(748)	(612)	542	35,607
Discontinued operations (Fertilizers)	4,138	(3,814)	(187)	(26)	(78)		33
Total	82,843	(44,091)	(2,190)	(774)	(690)	542	35,640

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

From continuing operations

	Consolidated			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Net income from continuing operations	5,608	7,508	11,423	16,264
Depreciation, depletion and amortization	3,376	2,916	9,322	8,674
Income taxes	2,450	3,061	2,496	5,121
Financial results, net	4,958	(754)	17,959	5,481
LAJIDA (EBITDA)	16,392	12,731	41,200	35,540
Items to reconcile adjusted LAJIDA (EBITDA)				
Special events (note 4)	896	532	1,182	(345)

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Equity results in associates and joint ventures	(134)	(367)	(584)	(509)
Impairment and other results in associates and joint ventures	80	78	1,671	379
Dividends received and interest from associates and joint ventures	134	276	970	542
Adjusted LAJIDA (EBITDA) from continuing operations	17,368	13,250	44,439	35,607

From discontinued operations

	Three-month period ended September 30, 2017	Consolidated Nine-month period ended September 30, 2018		2017
Loss from discontinued operations	(338)	(310)		(983)
Depreciation, depletion and amortization				3
Income taxes	(324)	(134)		(912)
Financial results, net	4	18		30
LAJIDA (EBITDA)	(658)	(426)		(1,862)
Items to reconcile adjusted LAJIDA (EBITDA)				
Equity results in associates and joint ventures	(1)			(3)
Impairment of non-current assets	693	415		1,898
Adjusted LAJIDA (EBITDA) from discontinued operations	34	(11)		33

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

	Consolidated					
	September 30, 2018			December 31, 2017		
Product inventory	Investments in associates and joint ventures	Property, plant and equipment and intangible (i)	Product inventory	Investments in associates and joint ventures	Property, plant and equipment and intangible (i)	
Ferrous minerals	7,476	7,052	120,566	5,859	6,357	119,429
Coal	490	1,272	6,464	271	1,048	5,686
Base metals	4,401	57	87,273	3,336	43	78,080
Others	50	4,217	6,804	20	4,354	6,434
Total	12,417	12,598	221,107	9,486	11,802	209,629

	Consolidated					
	Three-month period ended			September 30, 2018		
	Additions to property, plant and equipment and intangible (ii)			Additions to property, plant and equipment and intangible (ii)		
	Sustaining investments	Capital expenditures	Depreciation, depletion and amortization (iii)	Sustaining investments	Capital expenditures	Depreciation, depletion and amortization (iii)
Ferrous minerals	1,244	483	1,617	3,340	2,172	4,555
Coal	117		262	264	81	674
Base metals	885		1,408	2,155	118	3,873
Others	4	3	89	11	18	220
Total	2,250	486	3,376	5,770	2,389	9,322

	Consolidated					
	Three-month period ended			September 30, 2017		
	Additions to property, plant and equipment and intangible (ii)			Additions to property, plant and equipment and intangible (ii)		
	Sustaining investments	Capital expenditures	Depreciation, depletion and amortization (iii)	Sustaining investments	Capital expenditures	Depreciation, depletion and amortization (iii)
Ferrous minerals	881	864	1,442	2,634	3,704	4,126
Coal	39	5	178	143	125	745
Base metals	875	39	1,257	2,304	86	3,734
Others	1	9	39	7	49	69
Total	1,796	917	2,916	5,088	3,964	8,674

(i) Goodwill is allocated mainly to ferrous minerals and base metals segments in the amount of R\$7,133 and R\$7,617 in September 30, 2018 and R\$7,133 and R\$6,460 in December 31, 2017, respectively.

(ii) Includes only cash outflows.

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

Base metals

Onça Puma

In September 2017, the Federal Court granted an injunction suspending certain of nickel mining operations at Onça Puma. The Company has appealed this decision to seek a suspension of this injunction, but it is not possible to anticipate when Onça Puma activities will resume. In December 31, 2017, the Company has calculated the recoverable amount and no losses were identified. The Company has assessed the impairment risk related to this specific cash-generating unit and concluded that no significant changes occurred that could lead to a loss that should be recognized in the income statement for the period ended September 30, 2018.

Table of Contents**Cobalt streaming transaction**

In June 2018, the Company entered into two different agreements, one with Wheaton Precious Metals Corp (Wheaton) and the other with Cobalt 27 Capital Corp. (Cobalt 27), to sell a stream equivalent to 75% of the cobalt extracted as a by-product from the Voisey's Bay mine, in Canada, starting on January 1, 2021. Furthermore, the Company restarted the Voisey's Bay underground mine expansion project, which is going to increase the expected useful life of Voisey's Bay mine from 2023 to 2034. The first year of underground production is expected to be 2021, when the current operations on the open pit mine begins to ramp down.

Upon completion of the transaction, the Company received upfront payments of R\$2,603 (US\$690 million) in cash, R\$1,471 (US\$390 million) from Wheaton and R\$1,132 (US\$300 million) from Cobalt 27, which had been recorded as other non-current liabilities. Vale will receive additional payments of 20%, on average, of the market reference price for cobalt, for each pound of finished cobalt delivered.

Thus, from January 1, 2021 onwards, Wheaton and Cobalt 27 will be entitled to receive 42.4% and 32.6%, respectively, of cobalt equivalent to the production from the Voisey's Bay mine, while Vale remains exposed to approximately 40% of the cobalt economic exposure, as Vale retains the rights to 25% of the future cobalt production and will receive 20% additional payments for the cobalt stream. The result of the sale of the mineral rights will be accounted for once certain production thresholds have been met at Voisey's Bay mine and is not expected to be significant.

c) Net operating revenue by geographic area

	Consolidated				Total
	Three-month period ended September 30, 2018				
	Ferrous minerals	Coal	Base metals	Others	
Americas, except United States and Brazil	739		840		1,579
United States of America	513		872		1,385
Germany	1,034		435		1,469
Europe, except Germany	2,099	408	1,678		4,185
Middle East/Africa/Oceania	2,507	174	28		2,709
Japan	2,038	215	500		2,753
China	16,228		750		16,978
Asia, except Japan and China	2,056	761	923		3,740
Brazil	2,310	113	275	366	3,064
Net operating revenue	29,524	1,671	6,301	366	37,862

Consolidated				Total
Three-month period ended September 30, 2017				
Coal	Base metals	Others		

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	Ferrous minerals				
Americas, except United States and Brazil	435		780	46	1,261
United States of America	261		769	81	1,111
Germany	937		227		1,164
Europe, except Germany	1,464	131	1,695		3,290
Middle East/Africa/Oceania	1,671	176	12		1,859
Japan	1,901	109	320		2,330
China	11,630		432		12,062
Asia, except Japan and China	1,184	634	1,225		3,043
Brazil	2,069	87	109	215	2,480
Net operating revenue	21,552	1,137	5,569	342	28,600

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Consolidated					
Nine-month period ended September 30, 2018					
	Ferrous minerals	Coal	Base metals	Others	Total
Americas, except United States and Brazil	2,152		2,008		4,160
United States of America	1,095		2,621	25	3,741
Germany	3,115		1,183		4,298
Europe, except Germany	5,705	1,061	4,963		11,729
Middle East/Africa/Oceania	6,245	433	63		6,741
Japan	5,746	322	1,397		7,465
China	38,365		2,182		40,547
Asia, except Japan and China	4,703	2,045	3,149		9,897
Brazil	6,516	331	811	792	8,450
Net operating revenue	73,642	4,192	18,377	817	97,028

Consolidated					
Nine-month period ended September 30, 2017					
	Ferrous minerals	Coal	Base metals	Others	Total
Americas, except United States and Brazil	1,322		2,345	220	3,887
United States of America	819		1,962	263	3,044
Germany	2,530		670	51	3,251
Europe, except Germany	4,869	773	4,513	45	10,200
Middle East/Africa/Oceania	4,157	456	30		4,643
Japan	4,540	355	886		5,781
China	31,156		1,213		32,369
Asia, except Japan and China	2,943	1,740	3,467		8,150
Brazil	6,150	377	378	475	7,380
Net operating revenue	58,486	3,701	15,464	1,054	78,705

Provisionally priced commodities sales As at September 30, 2018, there were 26 million metric tons of iron ore (2017: 30 million metric tons) and 77 thousand metric tons of copper (2017: 106 thousand metric tons) provisionally priced based on forward prices. The final price of these sales will be determined during the fourth quarter of 2018. A 10% change in the realized prices compared to the provisionally priced sales, all other factors held constant, would increase or reduce iron ore net income by R\$713 and copper net income by R\$219.

4. Special events occurred during the period

The special events occurred during the period are those that, in the Company's judgment, have non-operational effect on the performance of the period due to their size and nature. To determine whether an event or transaction should be disclosed as special events, the Company considers quantitative and qualitative factors, such as frequency and magnitude.

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The special events identified by the Company are as follows:

	Consolidated			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Result in disposal of assets	(707)	(498)	(749)	(803)
Provision for litigation	(189)		(433)	
Nacala Logistic Corridor		(34)		1,576
Impairment of non-current assets				(428)
Total	(896)	(532)	(1,182)	345

Result in disposal of assets - Refers to non-viable projects and operating assets written off through sale or obsolescence, recognized in the income statement as Impairment and other results on non-current assets .

Provision for litigation Refers to the update on the likelihood of loss for various litigations.

Nacala Logistic Corridor In March 2017, the Company concluded the transaction with Mitsui to sell 15% of its stake in Vale Moçambique and 50% of its stake in the Nacala Logistics Corridor and recognized a gain in the income statement of R\$1,576.

Impairment of non-current assets In the second quarter of 2017, the Company placed an underground mine in Sudbury in care and maintenance and an impairment of R\$428 was recognized in the income statement.

Table of Contents5. **Costs and expenses by nature**a) **Cost of goods sold and services rendered**

	Consolidated			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Personnel	2,255	1,785	6,125	5,297
Materials and services	3,950	3,382	10,319	8,732
Fuel oil and gas	1,520	1,047	4,029	3,013
Maintenance	2,725	2,457	7,556	7,157
Energy	830	778	2,469	2,201
Acquisition of products	447	456	1,210	1,483
Depreciation and depletion	3,233	2,748	8,912	8,149
Freight	5,061	2,808	11,414	7,374
Others	2,806	1,638	7,226	5,020
Total	22,827	17,099	59,260	48,426
Cost of goods sold	22,305	16,606	57,673	46,993
Cost of services rendered	522	493	1,587	1,433
Total	22,827	17,099	59,260	48,426

b) **Selling and administrative expenses**

	Consolidated			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Personnel	242	179	589	546
Services	82	54	208	153
Depreciation and amortization	67	59	181	221
Others	144	117	399	303
Total	535	409	1,377	1,223

c) **Other operating expenses, net**

	Consolidated			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Provision for litigation	189	187	433	280

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Profit sharing program	141	107	511	328
Others	(86)	190	98	394
Total	244	484	1,042	1,002

Table of Contents**6. Financial results**

	Consolidated			
	Three-month period ended September 30, 2018	2017	Nine-month period ended September 30, 2018	2017
Financial income				
Short-term investments	197	164	461	441
Others	248	318	653	613
	445	482	1,114	1,054
Financial expenses				
Loans and borrowings gross interest	(1,071)	(1,317)	(3,220)	(4,343)
Capitalized loans and borrowing costs	197	351	551	938
Participative stockholders' debentures	(30)	(233)	(1,652)	(1,814)
Expenses of REFIS	(192)	(296)	(564)	(1,038)
Others	(383)	(898)	(1,435)	(1,702)
	(1,479)	(2,393)	(6,320)	(7,959)
Other financial items				
Net foreign exchange gains (losses) on loans and borrowings	(2,689)	2,175	(11,627)	1,388
Derivative financial instruments	(402)	1,166	(1,218)	1,546
Other net foreign exchange gains (losses)	28	(714)	1,742	(1,127)
Net indexation gains (losses)	(861)	38	(1,650)	(383)
	(3,924)	2,665	(12,753)	1,424
Financial results, net	(4,958)	754	(17,959)	(5,481)

7. Income taxes**a) Deferred income tax assets and liabilities**

Changes in deferred tax are as follows:

	Assets	Consolidated Liabilities	Deferred taxes, net
	Balance at June 30, 2018	25,199	6,472
Effect in income statement	(2,743)	(13)	(2,730)
Translation adjustment	319	328	(9)
Other comprehensive income	100	65	35
Balance at September 30, 2018	22,875	6,852	16,023

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	Assets	Consolidated Liabilities	Deferred taxes, net
Balance at June 30, 2017	23,472	5,179	18,293
Effect in income statement	(1,504)	(97)	(1,407)
Translation adjustment	(347)	(88)	(259)
Other comprehensive income	(552)	87	(639)
Effect of discontinued operations			
Effect in income statement	324		324
Transfer to net assets held for sale	(324)		(324)
Balance at September 30, 2017	21,069	5,081	15,988

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	Assets	Consolidated Liabilities	Deferred taxes, net
Balance at December 31, 2017	21,959	5,687	16,272
Effect in income statement	(1,976)	45	(2,021)
Transfers between asset and liabilities	29	29	
Translation adjustment	1,337	1,047	290
Other comprehensive income	1,432	44	1,388
Effect of discontinued operations			
Effect in income statement	134		134
Transfer to net assets held for sale	(40)		(40)
Balance at September 30, 2018	22,875	6,852	16,023

	Assets	Consolidated Liabilities	Deferred taxes, net
Balance at December 31, 2016	23,931	5,540	18,391
Effect in income statement	(2,022)	(362)	(1,660)
Translation adjustment	(201)	109	(310)
Other comprehensive income	(639)	(206)	(433)
Effect of discontinued operations			
Effect in income statement	912		912
Transfer to net assets held for sale	(912)		(912)
Balance at September 30, 2017	21,069	5,081	15,988

b) Income tax reconciliation Income statement

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

	Consolidated			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Income before income taxes	8,058	10,569	13,919	21,385
Income taxes at statutory rates - 34%	(2,739)	(3,594)	(4,732)	(7,271)
Adjustments that affect the basis of taxes:				
Income tax benefit from interest on stockholders' equity	794	397	2,382	1,190
Tax incentives	575	415	1,226	976
Equity results	45	125	198	174
Unrecognized tax losses of the period	(823)	(557)	(1,698)	(1,409)
Gain on sale of subsidiaries				548
Others	(302)	153	128	671
Income taxes	(2,450)	(3,061)	(2,496)	(5,121)

Income tax expense is recognized based on the estimate of the weighted average effective tax rate expected for the full year, adjusted for the tax effect of certain items recognized in full in the interim period. Therefore, the effective tax rate in the interim financial statement may differ from management's estimate of the effective tax rate for the annual financial statement.

c) **Income taxes - Settlement program (REFIS)**

The balance mainly relates to REFIS to settle most of the claims related to the collection of income tax and social contribution on equity gains of foreign subsidiaries and affiliates from 2003 to 2012. As at September 30, 2018, the balance of R\$17,104 (R\$1,656 as current and R\$15,448 as non-current) is due in 121 remaining monthly installments, bearing interest at the SELIC rate (Special System for Settlement and Custody).

Table of Contents**8. Basic and diluted earnings (loss) per share**

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

	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017 (i)	2018	2017 (i)
Net income (loss) attributable to Vale's stockholders:				
Net income from continuing operations	5,753	7,489	11,481	16,098
Loss from discontinued operations		(346)	(310)	(1,004)
Net income	5,753	7,143	11,171	15,094
Thousands of shares				
Weighted average number of shares outstanding - common shares (note 24b)	5,180,238	5,197,432	5,191,638	5,197,432
Basic and diluted earnings per share from continuing operations:				
Common share (R\$)	1.11	1.44	2.21	3.10
Basic and diluted loss per share from discontinued operations:				
Common share (R\$)		(0.07)	(0.06)	(0.20)
Basic and diluted earnings per share:				
Common share (R\$)	1.11	1.37	2.15	2.90

(i) Restated to reflect the conversion of the class A preferred shares into common shares.

The Company does not have potential outstanding shares or other instruments with dilutive effect on the earnings per share.

9. Accounts receivable

	Consolidated	
	September 30, 2018	December 31, 2017
Accounts receivable	10,037	8,802
Impairment of accounts receivable	(230)	(200)
	9,807	8,602

Accounts receivable related to the steel sector - %	80.50%	82.90%
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	Consolidated			
	Three-month period ended September 30, 2018	September 30, 2017	Nine-month period ended September 30, 2018	September 30, 2017
Impairment of trade receivables recorded in the income statement	7	(5)	(10)	(19)

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

10. Inventories

	Consolidated	
	September 30, 2018	December 31, 2017
Finished products	9,566	7,324
Work in progress	2,851	2,162
Consumable inventory	3,821	3,501
Total	16,238	12,987

	Consolidated			
	Three-month period ended September 30, 2018	September 30, 2017	Nine-month period ended September 30, 2018	September 30, 2017
Reversal (provision) for net realizable value	12	78	(55)	263

Finished and work in progress product inventory by segments is presented in note 3(b).

Table of Contents**11. Other financial assets and liabilities**

	Current		Consolidated	
	September 30, 2018	December 31, 2017	September 30, 2018	December 31, 2017
			Non-Current	
Other financial assets				
Financial investments	22	61		
Loans			619	498
Derivative financial instruments (note 20)	291	351	1,391	1,497
Investments in equity securities (note 12)			4,445	
Related parties - Loans (note 25)	1,343	6,277	6,425	8,695
	1,656	6,689	12,880	10,690
Other financial liabilities				
Derivative financial instruments (note 20)	1,528	344	1,971	2,269
Related parties (note 25)	2,017	2,916	3,839	3,226
Participative stockholders debentures			5,474	4,080
	3,545	3,260	11,284	9,575

Participative stockholders debentures

On October 2, 2018 (subsequent event), the Company paid the amount of R\$261 as remuneration to stockholders debentures.

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

	Consolidated December 31, 2017 Fertilizers
Assets	
Accounts receivable	297
Inventories	1,522
Other current assets	363
Investments in associates and joint ventures	274
Property, plant and equipment and Intangibles	7,110
Other non-current assets	2,299
Total assets	11,865

Liabilities	
Suppliers and contractors	1,070
Other current liabilities	711
Other non-current liabilities	2,118
Total liabilities	3,899
Net non-current assets held for sale	7,966

a) **Fertilizers (discontinued operations)**

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

In January 2018, the Company and Mosaic concluded the transaction and the Company received R\$3,495 (US\$1,080 million) in cash and 34.2 million common shares, corresponding to 8.9% of Mosaic s equity after the issuance of these shares (R\$2,907 (US\$899 million), based on the Mosaic s quotation at closing date of the transaction) and a loss of R\$184 was recognized in the income statement from discontinued operations.

Mosaic s shares received were accounted for as an equity investment measured at fair value through other comprehensive income. For the three and nine-month periods ended September 30, 2018, the Company recognized a gain of R\$702 and R\$873 in other comprehensive income as Fair value adjustment to investment in equity securities .

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

In November 2017, the Company entered into an agreement with Yara International ASA (Yara) to sell its assets located in Cubatão, Brazil. In May 2018, the transaction was concluded and the Company received R\$882 (US\$255 million) in cash and a loss of R\$231 was recognized in the second quarter of 2018, in the income statement from discontinued operations.

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

Income statement

	Three-month period ended September 30, 2017	Consolidated	
		Nine-month period ended September 30, 2018	Nine-month period ended September 30, 2017
Discontinued operations			
Net operating revenue	1,685	397	4,138
Cost of goods sold and services rendered	(1,554)	(393)	(3,814)
Operating expenses	(97)	(15)	(294)
Impairment of non-current assets	(693)	(415)	(1,898)
Operating loss	(659)	(426)	(1,868)
Financial Results, net	(4)	(18)	(30)
Equity results in associates and joint ventures	1		3
Loss before income taxes	(662)	(444)	(1,895)
Income taxes	324	134	912
Loss from discontinued operations	(338)	(310)	(983)
Net income attributable to noncontrolling interests	8		21
Loss attributable to Vale's stockholders	(346)	(310)	(1,004)

Statement of cash flow

	Three-month period ended September 30, 2017	Consolidated	
		Nine-month period ended September 30, 2018	Nine-month period ended September 30, 2017
Discontinued operations			
Cash flow from operating activities			
Loss before income taxes	(662)	(444)	(1,895)
Adjustments:			

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Equity results in associates and joint ventures	(1)		(3)
Depreciation, amortization and depletion			3
Impairment of non-current assets	693	415	1,898
Others		18	
Increase (decrease) in assets and liabilities	245	(110)	235
Net cash provided by (used in) operating activities	275	(121)	238
Cash flow from investing activities			
Additions to property, plant and equipment	(226)	(36)	(686)
Others	2		2
Net cash used in investing activities	(224)	(36)	(684)
Cash flow from financing activities			
Loans and borrowings			
Repayments	(107)		(108)
Net cash used in financing activities	(107)		(108)
Net cash used in discontinued operations	(56)	(157)	(554)

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

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

	Associates	Consolidated Joint ventures	Total
Balance at December 31, 2017	4,774	7,028	11,802
Additions		79	79
Translation adjustment	228	157	385
Equity results in income statement	109	475	584
Dividends declared		(525)	(525)
Transfer from non-current assets held for sale (i)	280		280
Others	20	(27)	(7)
Balance at September 30, 2018	5,411	7,187	12,598

(i) Refers to 18% interest held by Vale Fertilizantes at Ultrafertil which was transferred to Vale as part of the final settlement in January 2018 (note 12).

	Associates	Consolidated Joint ventures	Total
Balance at December 31, 2016	4,683	7,363	12,046
Additions	2	286	288
Translation adjustment	(24)	(20)	(44)
Equity results in income statement	150	359	509
Equity results in statement of comprehensive income		(541)	(541)
Dividends declared	(134)	(290)	(424)
Others		380	380
Balance at September 30, 2017	4,677	7,537	12,214

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

b) Guarantees provided

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As of September 30, 2018, 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. were R\$1,281 and R\$5,625, respectively.

c) Acquisitions and divestiture

2017

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

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

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

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

After the conclusion of the transaction, Vale has outstanding loan balances with Nacala BV and Pangea Emirates Ltd due to the deconsolidation of Nacala Logistic Corridor are disclosed in note 25.

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

Associates and joint ventures	% ownership	% voting capital	Investments in associates and joint ventures		Consolidated				Dividends received				
			September 30, 2018	December 31, 2017	Equity results in the income statement				Three-month periods ended				
			September 30, 2018	December 31, 2017	Three-month period ended September 30, 2018	Three-month period ended September 30, 2017	Three-month period ended September 30, 2018	Three-month period ended September 30, 2017	Three-month period ended September 30, 2018	Three-month period ended September 30, 2017			
Ferrous minerals													
Baovale Mineração S.A. Companhia	50.00	50.00	102	87	5	5	15	17				2	
Coreano-Brasileira de Pelotização Companhia	50.00	50.00	399	295	64	35	177	113				56	
Hispano-Brasileira de Pelotização (i) Companhia	50.89	51.00	320	270	59	28	137	96				87	18
Companhia Ítalo-Brasileira de Pelotização (i)	50.90	51.00	363	263	55	28	161	91				122	54
Companhia Nipo-Brasileira de Pelotização (i)	51.00	51.11	676	453	119	69	330	214				127	47
MRS Logística S.A.	48.16	46.75	1,813	1,711	48	70	153	188					
VLI S.A.	37.60	37.60	3,289	3,202	84	53	89	74	28	37	28	37	
Zhuhai YPM Pellet Co.	25.00	25.00	90	76	1		2						
			7,052	6,357	435	288	1,064	793	28	37	422	156	
Coal													
Henan Longyu Energy Resources Co., Ltd.	25.00	25.00	1,272	1,048	7	11	48	62					
			1,272	1,048	7	11	48	62					
Base metals													
Korea Nickel Corp.	25.00	25.00	57	43	2	1	6	2					
			57	43	2	1	6	2					
Others													
Aliança Geração de Energia S.A. (i)	55.00	55.00	1,892	1,889	10	10	91	57			27	88	63
Aliança Norte Energia Participações S.A. (i)	51.00	51.00	623	529	16	(12)	49	(1)					
California Steel Industries, Inc.	50.00	50.00	998	663	97	32	238	111				56	43
Companhia Siderúrgica do Pecém	50.00	50.00		867	(460)		(867)	(456)					
Mineração Rio do Norte S.A.	40.00	40.00	340	333	7	28	(14)	30					68
Others			364	73	20	9	(31)	(89)					
			4,217	4,354	(310)	67	(534)	(348)			27	144	174
Total			12,598	11,802	134	367	584	509	28	64	566	330	

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

Table of Contents**14. Intangibles**

Changes in intangibles are as follows:

	Goodwill	Concessions	Consolidated Right of use	Software	Total
Balance at December 31, 2017	13,593	13,236	506	759	28,094
Additions		2,448		22	2,470
Disposals		(75)			(75)
Amortization		(341)	(22)	(284)	(647)
Translation adjustment	1,156	97	69	26	1,348
Balance at September 30, 2018	14,749	15,365	553	523	31,190
Cost	14,749	19,121	872	4,329	39,071
Accumulated amortization		(3,756)	(319)	(3,806)	(7,881)
Balance at September 30, 2018	14,749	15,365	553	523	31,190

	Goodwill	Concessions	Consolidated Right of use	Software	Total
Balance at December 31, 2016	10,041	10,759	480	1,115	22,395
Additions		2,360		73	2,433
Disposals		(19)			(19)
Amortization		(367)	(5)	(345)	(717)
Translation adjustment	229	(13)	17	7	240
Merger of Valepar	3,073				3,073
Balance at September 30, 2017	13,343	12,720	492	850	27,405
Cost	13,343	16,651	779	5,092	35,865
Accumulated amortization		(3,931)	(287)	(4,242)	(8,460)
Balance at September 30, 2017	13,343	12,720	492	850	27,405

Concessions

During the third quarter of 2018, the Company started the process of early renewal of its railway concessions, which expire in 2027. The early renewal of the concessions will be submitted to the Board of Directors, subject to the analysis of the compensations required by the government, including the implementation of the Midwest Integration Railroad (FICO), totaling 377 km between the Brazilian states of Mato Grosso and Goias. The compensations required for the renewal will be formalized after the stage of public hearing.

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

Changes in property, plant and equipment are as follows:

	Land	Building	Facilities	Equipment	Consolidated Mineral properties	Others	Constructions in progress	Total
Balance at December 31, 2017	2,375	40,028	38,986	22,803	29,999	27,104	20,240	181,535
Additions (i)							6,058	6,058
Disposals	(1)	(124)	(144)	(862)	(15)	(198)	(53)	(1,397)
Asset retirement obligation					(495)			(495)
Depreciation, amortization and depletion		(1,534)	(1,863)	(2,246)	(1,393)	(1,798)		(8,834)
Translation adjustment	114	2,262	1,873	2,321	3,602	1,380	1,498	13,050
Transfers	25	1,979	4,569	3,457	1,170	2,625	(13,825)	
Balance at September 30, 2018	2,513	42,611	43,421	25,473	32,868	29,113	13,918	189,917
Cost	2,513	71,305	68,732	49,349	66,544	46,450	13,918	318,811
Accumulated depreciation		(28,694)	(25,311)	(23,876)	(33,676)	(17,337)		(128,894)
Balance at September 30, 2018	2,513	42,611	43,421	25,473	32,868	29,113	13,918	189,917

	Land	Building	Facilities	Equipment	Consolidated Mineral properties	Others	Constructions in progress	Total
Balance at December 31, 2016	2,360	34,790	30,866	22,141	27,312	24,494	38,653	180,616
Additions (i)							7,085	7,085
Disposals	(1)	(2)	(154)	(102)	(402)	(368)	(446)	(1,475)
Asset retirement obligation					(238)			(238)
Depreciation, amortization and depletion		(1,397)	(1,724)	(2,025)	(1,525)	(1,804)		(8,475)
Translation adjustment	(7)	53	67	(234)	693	226	(15)	783
Transfers	59	5,765	8,375	2,340	2,062	4,427	(23,028)	
Balance at September 30, 2017	2,411	39,209	37,430	22,120	27,902	26,975	22,249	178,296
Cost	2,411	60,810	58,492	40,828	54,572	40,677	22,249	280,039
Accumulated depreciation		(21,601)	(21,062)	(18,708)	(26,670)	(13,702)		(101,743)

Balance at								
September 30, 2017	2,411	39,209	37,430	22,120	27,902	26,975	22,249	178,296

(i) Includes capitalized borrowing costs.

There are no material changes to the net book value of consolidated property, plant and equipment pledged to secure judicial claims and loans and borrowings (note 16(c)) compared to those disclosed in the financial statements as at December 31, 2017.

16. Loans, borrowings, cash and cash equivalents and financial investments

a) Net debt

The Company analyzes the net debt in order to ensure its business continuity in the long term.

	September 30, 2018	Consolidated December 31, 2017
Debt contracts in the international markets	52,159	57,187
Debt contracts in Brazil	15,147	17,205
Total of loans and borrowings	67,306	74,392
(-) Cash and cash equivalents	24,424	14,318
(-) Financial investments (note 11)	22	61
Net debt	42,860	60,013

b) Cash and cash equivalents

Cash and cash equivalents include cash, immediately redeemable deposits and short-term investments with an insignificant risk of change in value. They are readily convertible to cash, partly in R\$, indexed to the Brazilian Interbank Interest rate (DI Rate or CDI) and partly denominated in US\$, denominated time deposits.

Table of Contentsc) **Loans and borrowings**i) **Total debt**

	Consolidated			
	Current liabilities		Non-current liabilities	
	September 30, 2018	December 31, 2017	September 30, 2018	December 31, 2017
Debt contracts in the international markets				
Floating rates in:				
US\$	1,558	1,027	7,151	9,142
EUR				794
Fixed rates in:				
US\$	24		37,404	41,642
EUR			4,420	2,977
Other currencies	136	57	653	682
Accrued charges	813	866		
	2,531	1,950	49,628	55,237
Debt contracts in Brazil				
Floating rates in:				
R\$, indexed to TJLP, TR, IPCA, IGP-M and CDI	1,529	1,478	9,634	10,570
Basket of currencies and US\$ indexed to LIBOR	1,061	1,121	2,118	2,341
Fixed rates in:				
R\$	220	225	408	572
Accrued charges	157	859	20	39
	2,967	3,683	12,180	13,522
	5,498	5,633	61,808	68,759

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

	Consolidated				Estimated future interest payments (i)
	Bank loans	Capital markets	Principal Development agencies	Total	
2018	935		789	1,724	893
2019	580		2,923	3,503	3,566
2020	713	1,326	2,556	4,595	3,421
2021	1,387	1,520	2,346	5,253	3,141
Between 2022 and 2026	6,133	18,446	4,005	28,584	11,844
2027 onwards	367	21,981	309	22,657	16,802
	10,115	43,273	12,928	66,316	39,667

(i) Estimated future payments of interest, calculated based on interest rate curves and foreign exchange rates applicable as at September 30, 2018 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, 2018, the average annual interest rates by currency are as follows:

	Average interest rate (i)	Consolidated Total debt
Loans and borrowings		
US\$	5.59%	50,030
R\$ (ii)	9.40%	11,941
EUR (iii)	3.81%	4,548
Other currencies	3.00%	787
		67,306

(i) In order to determine the average interest rate for debt contracts with floating rates, the Company used the rate applicable at September 30, 2018.

(ii) R\$ denominated debt that bears interest at IPCA, CDI, TR or TJLP, plus spread. For a total of R\$7,163 the Company entered into derivative transactions to mitigate the exposure to the cash flow variations of the floating rate debt denominated in R\$, resulting in an average cost of 1.95% 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\$.

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

	December 31, 2017	Additions	Cash flow		Consolidated		Non-cash changes Effect of exchange rate	Interest accretion	September 30, 2018
			Repayments	Interest paid	Transferences				
Loans and borrowings									
Current	5,633		(21,350)	(3,203)	20,205	712	3,501	5,498	
Non-current	68,759	3,641			(20,205)	9,585	28	61,808	
Total	74,392	3,641	(21,350)	(3,203)		10,297	3,529	67,306	

iii) Credit and financing lines

Type	Contractual currency	Date of agreement	Period of the agreement	Total amount	Available amount September 30, 2018
Credit lines					
Revolving credit facilities	US\$	May 2015	5 years	12,012	12,012
Revolving credit facilities	US\$	June 2017	5 years	8,008	8,008
Financing lines					
BNDES - CLN 150	R\$	September 2012	10 years	3,883	20
BNDES - S11D e S11D Logística	R\$	May 2014	10 years	6,163	1,014

iv) Repayments

During the first half of 2018, the Company conducted a cash tender offer for Vale Overseas 5.875% guaranteed notes due 2021, 4.375% guaranteed notes due 2022 and a cash tender offer for Vale S.A. 5.625% guaranteed notes due 2042 and repurchased a total of R\$9,431 (US\$2,730 million). The Company also redeemed all of Vale Overseas 4.625% guaranteed notes due 2020 totaling R\$1,698 (US\$499 million).

v) Guarantees

As at September 30, 2018 and December 31, 2017, loans and borrowings are secured by property, plant and equipment in the amount of R\$885 and R\$910, respectively.

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

vi) Covenants

Some of the Company's debt agreements with lenders contain financial covenants. The primary financial covenants in those agreements require maintaining certain ratios, such as debt to EBITDA (Earnings before Interest Taxes, Depreciation and Amortization) and interest coverage. The Company has not identified any instances of noncompliance as at September 30, 2018.

Table of Contents**17. Liabilities related to associates and joint ventures**

The movement of 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), in the nine-month periods ended September 30, 2018 and 2017 are as follows:

	2018	2017
Balance at January 01,	3,296	3,511
Payments	(699)	(687)
Present value valuation	143	426
Provision increase	1,476	
Balance at September 30,	4,216	3,250
Current liabilities	1,171	954
Non-current liabilities	3,045	2,296
Liabilities	4,216	3,250

In 2018, the Fundação Renova reviewed the estimates for the expenditures required to mitigate and compensate for the impacts of the disruption from Samarco's tailing dam. As a result of this revision, Vale S.A. recognized in the second quarter of 2018 an additional provision of R\$1,476, which amounts to the present value of Vale's new estimated secondary responsibility to support the Renova Foundation works and is equivalent to 50% of Samarco's additional obligations over the next 12 years.

In addition to the provision above, Vale S.A. made available in the three and nine-month periods ended September 30, 2018 the amount of R\$79 and R\$194, respectively, which was fully used to fund Samarco's working capital and was recognized in Vale's income statement as Impairment and other results in associates and joint ventures. Vale S.A. intends to make available until December 31, 2018 up to R\$125 to support Samarco's working capital requirements, without any binding obligation to Samarco in this regard. Such amounts will be released by the shareholders, simultaneously and pursuant to the same terms and conditions, subject to the fulfillment of certain milestones.

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

The contingencies related to the Samarco dam failure are disclosed in note 22.

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

	Consolidated				December 31, 2017		
	Amortized cost	September 30, 2018 At fair value through OCI	At fair value through profit or loss	Total	Amortized cost	At fair value through profit or loss	Total
Financial assets							
Current							
Cash and cash equivalents	24,424			24,424	14,318		14,318
Financial investments	22			22	61		61
Derivative financial instruments			291	291		351	351
Accounts receivable	9,895		(88)	9,807	8,602		8,602
Related parties	1,343			1,343	6,277		6,277
	35,684		203	35,887	29,258	351	29,609
Non-current							
Derivative financial instruments			1,391	1,391		1,497	1,497
Investments in equity securities		4,445		4,445			
Loans	619			619	498		498
Related parties	6,425			6,425	8,695		8,695
	7,044	4,445	1,391	12,880	9,193	1,497	10,690
Total of financial assets	42,728	4,445	1,594	48,767	38,451	1,848	40,299
Financial liabilities							
Current							
Suppliers and contractors	16,169			16,169	13,367		13,367
Derivative financial instruments			1,528	1,528		344	344
Loans and borrowings	5,498			5,498	5,633		5,633
Related parties	2,017			2,017	2,916		2,916
	23,684		1,528	25,212	21,916	344	22,260
Non-current							
Derivative financial instruments			1,971	1,971		2,269	2,269
Loans and borrowings	61,808			61,808	68,759		68,759
Related parties	3,839			3,839	3,226		3,226
Participative stockholders debentures			5,474	5,474		4,080	4,080
	65,647		7,445	73,092	71,985	6,349	78,334
Total of financial liabilities	89,331		8,973	98,304	93,901	6,693	100,594

19. Fair value estimate

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

	September 30, 2018			Consolidated	December 31, 2017		Total
	Level 1	Level 2	Level 3	Total	Level 2	Level 3	
Financial assets							
Derivative financial instruments		719	963	1,682	954	894	1,848
Accounts receivable		(88)		(88)			
Investments in equity securities	4,445			4,445			
Total	4,445	631	963	6,039	954	894	1,848
Financial liabilities							
Derivative financial instruments		2,834	665	3,499	1,923	690	2,613
Participative stockholders debentures		5,474		5,474	4,080		4,080
Total		8,308	665	8,973	6,003	690	6,693

The Company changed its accounting estimate on the calculation of the participative stockholders debentures from January 1, 2018. The Company has replaced in the calculation the assumption of spot price at the reporting date to the weighted average price traded on the market within the last month of the quarter.

There were no transfers between Level 1 and Level 2, or between Level 2 and Level 3 for the nine-month period ended on September 30, 2018.

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The following table presents the changes in Level 3 assets and liabilities for the nine-month period ended on September 30, 2018:

	Consolidated	
	Derivative financial instruments Financial assets	Derivative financial instruments Financial liabilities
Balance at December 31, 2017	894	690
Gains and losses recognized in income statement	69	(25)
Balance at September 30, 2018	963	665

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

Financial instruments are evaluated by calculating their present value through the use of instrument yield curves at the closing dates. The curves and prices used in the calculation for each group of instruments are detailed in the market curves (note 27j).

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

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

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

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

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

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

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

	Balance	Fair value	Consolidated Level 1	Level 2
Financial liabilities				
September 30, 2018				
Debt principal	66,316	70,064	47,513	22,551
December 31, 2017				
Debt principal	72,628	76,377	49,406	26,971

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

Table of Contents**20. Derivative financial instruments****a) Derivatives effects on the statement of financial position**

	Consolidated Assets			
	September 30, 2018		December 31, 2017	
	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	45		125	
IPCA swap	15	290	30	271
Eurobonds swap		100		89
Pré-dolar swap	72		73	106
	132	390	228	466
Commodities price risk				
Nickel	6		73	10
Bunker oil	153		50	
	159		123	10
Others (note 26)		1,001		1,021
		1,001		1,021
Total	291	1,391	351	1,497

	Consolidated Liabilities			
	September 30, 2018		December 31, 2017	
	Current	Non-current	Current	Non-current
Derivatives not designated as hedge accounting				
Foreign exchange and interest rate risk				
CDI & TJLP vs. US\$ fixed and floating rate swap	1,280	933	314	1,356
IPCA swap	167	215		136
Eurobonds swap	19		13	
Pré-dolar swap	40	155	17	79
	1,506	1,303	344	1,571
Commodities price risk				
Nickel	22	4		
	22	4		
Others (note 26)		664		698

		664		698
Total	1,528	1,971	344	2,269

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

	Consolidated			
	Gain (loss) recognized in the income statement			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Derivatives not designated as hedge accounting				
Foreign exchange and interest rate risk				
CDI & TJLP vs. US\$ fixed and floating rate swap	(254)	594	(971)	871
IPCA swap	(20)	150	(200)	166
Eurobonds swap		65	(40)	79
Euro forward				144
Pré-dolar swap	(33)	131	(162)	164
	(307)	940	(1,373)	1,424
Commodities price risk				
Nickel	(76)	31	(44)	20
Bunker oil	(32)	(19)	207	(309)
	(108)	12	163	(289)
Others	13	214	(8)	411
Total	(402)	1,166	(1,218)	1,546

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	Consolidated			
	Financial settlement inflows (outflows)			
	Three-month period ended September 30,		Nine-month period ended September 30,	
	2018	2017	2018	2017
Derivatives not designated as hedge accounting				
Foreign exchange and interest rate risk				
CDI & TJLP vs. US\$ fixed and floating rate swap	(170)	(308)	(369)	(441)
IPCA swap		(65)	22	(65)
Eurobonds swap			(13)	(121)
Pré-dolar swap	(8)		41	(4)
	(178)	(373)	(319)	(631)
Commodities price risk				
Nickel	(6)	12	67	(8)
Bunker oil	100		125	(75)
	94	12	192	(83)
Total	(84)	(361)	(127)	(714)

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

	Last maturity dates
Currencies and interest rates	January 2024
Bunker oil	December 2018
Nickel	September 2020
Others	December 2027

c) Hedge in foreign operations

As at September 30, 2018 the carrying value of the debts designated as instrument hedge of the Company's investment in foreign operations (Vale International S.A. and Vale International Holding GmbH; hedging objects) are R\$13,012 (US\$3,250 million) and R\$3,491 (EUR750 million), respectively. The foreign exchange loss of R\$468 and R\$3,543 (R\$308 and R\$2,338, net of taxes), was recognized in the Cumulative translation adjustments in stockholders' equity for the three and nine-month period ended September 30, 2018, respectively, while the foreign exchange gains of R\$935 and R\$515 (R\$617 and R\$339, net of taxes), were recognized for the three and nine-month period ended September 30, 2017, respectively. This hedge was highly effective throughout the period ended September 30, 2018.

21. Provisions

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	Consolidated		Consolidated	
	Current liabilities		Non-current liabilities	
	September 30,	December 31,	September 30,	December 31,
Payroll, related charges and other remunerations	3,518	3,641		
Onerous contracts	443	337	1,077	1,203
Environment restoration	67	99	354	262
Asset retirement obligations	253	289	11,295	10,191
Provisions for litigation (note 22)			5,187	4,873
Employee postretirement obligations (note 23)	416	244	7,579	6,714
Provisions	4,697	4,610	25,492	23,243

Table of Contents**22. Litigation****a) Provision for litigation**

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

Changes in provision for litigation are as follows:

	Consolidated			Environmental	Total of litigation
	Tax litigation	Civil litigation	Labor litigation	litigation	provision
Balance at December 31, 2017	2,483	432	1,924	34	4,873
Additions (reversals)	62	78	306	(13)	433
Payments	(29)	(80)	(261)	(6)	(376)
Additions - discontinued operations	56	3	59	1	119
Indexation and interest	68	35	(9)	(3)	91
Translation adjustment	42	5			47
Balance at September 30, 2018	2,682	473	2,019	13	5,187

	Consolidated			Environmental	Total of litigation
	Tax litigation	Civil litigation	Labor litigation	litigation	provision
Balance at December 31, 2016	695	272	1,742	25	2,734
Additions (reversals)	(48)	42	274	12	280
Payments	(286)	(22)	(260)	(2)	(570)
Indexation and interest	11	39	98	(4)	144
Translation adjustment	26				26
Merger of Valepar	2,013				2,013
Balance at September 30, 2017	2,411	331	1,854	31	4,627

b) Contingent liabilities

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Contingent liabilities are 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. The contingent liabilities are as follows:

	September 30, 2018	Consolidated December 31, 2017
Tax litigation	33,671	29,244
Civil litigation	6,551	5,371
Labor litigation	6,547	6,455
Environmental litigation	7,915	7,242
Total	54,684	48,312

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

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. The changes reported in the period resulted, mainly from review of the process related to commercial divergences of supply contracts.

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.

Table of Contents**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.

	September 30, 2018	Consolidated	December 31, 2017
Tax litigation	4,111		3,971
Civil litigation	165		199
Labor litigation	2,393		2,359
Environmental litigation	61		42
Total	6,730		6,571

d) Contingencies related to Samarco accident*(i) Public civil claim filed by the Federal Government and others*

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

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

On June 2018, the parties that proposed the ACP mentioned above, together with the Federal Public Prosecutor's Office and the Public Defender's Offices of the Union and the States of Minas Gerais and Espírito Santo, entered into a new Agreement (Term of Adjustment of Conduct), which extinguishes important lawsuits, including the ACP, without judgment of merit. Afterwards, on August 8, 2018, the Agreement was ratified by the judge of the 12th Federal Court of Belo Horizonte, producing its legal and procedural effects.

(ii) 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 claims, including: (i) the adoption of measures for mitigating the social, economic and environmental impacts resulting from the dam failure and other emergency measures; (ii) the payment of compensation to the community; and (iii) payments for the collective moral damage. The action value indicated by the MPF is R\$155 billion.

In January 2017 Samarco, Vale S.A. and BHPB entered into two preliminary agreements with the MPF. The first agreement (*First Agreement*) aims to outline the process and timeline for negotiations of a Final Agreement (*Final Agreement*), initially expected to occur by June 30, 2017, which was, nevertheless, extended by the parties to late June 2018.

This First Agreement establishes a timeline and actions to set the ground for conciliation of two public civil actions in the amounts of R\$20.2 billion and R\$155 billion, mentioned above.

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

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

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

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

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

On June 25, 2018, a Term of Conduct Adjustment (TACGov) was signed among Samarco and its shareholders, Vale and BHP Billiton Brasil, the Public Prosecutors (the Federal one and the ones from the States of Espírito Santo and Minas Gerais), the Public Defender Office (from the União and the States of Espírito Santo and Minas Gerais) and the Public Attorneys (from the Union and the States of Espírito Santo and Minas Gerais). The agreement established some innovations regarding the governance previously defined by the Frame Work Agreement and aim to improve the participation of people affected by the dawn break of the Fundão dam in the programs under the responsibility of Renova Foundation. It also establishes a negotiation process in order to allow the possible renegotiation of the programs dedicated to repair the impacts resulting from the event, to be discussed after the conclusion of the studies of the specialists hired by Samarco to advise the Public Prosecutor s Office (Experts). In addition, the TACGov extinguished some important lawsuits, including but not limited to, the ACP of R\$20 billion proposed by the Federal Government and the States of Minas Gerais and Espírito Santo, and part of the ACP of R\$155 billion, as well address the discussions about some legal guarantees in the amount of R\$2.2 billion, bringing, therefore, greater legal certainty for the companies. On August 8, the TACGov was ratified by the judge of the 12th Federal Court of Belo Horizonte, producing its legal and procedural effects.

(iii) U.S. Securities class action suits

Related to the Vale's American Depositary Receipts

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

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

This lawsuit is currently ongoing under discovery with the gathering of documents to be provided to the plaintiffs. In addition, depositions of some custodians indicated by the parties.

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

Related to the Samarco bonds

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

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In June 2017 the defendants presented a joint motion to dismiss the claims requested by the plaintiffs. In March 2018, the Judge issued an order dismissing defendant's motion to dismiss without prejudice and ordering leading plaintiff to submit a final amended complaint, which was presented by the plaintiffs on March 21, 2018. As a result, a second joint motion to dismiss the claims was filed by the defendants a new decision regarding the merits of the motion to dismiss is expected to be issued by the Judge on the following months.

Vale S.A. continues to contest this lawsuit.

(iv) Criminal lawsuit

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

In November 2016, the Federal Court of Ponte Nova received the complaint and began the criminal action.

On June 12 and 13, 2018, two hearings were conducted for the deposition of the first prosecution witness. On the second semester, hearings were conducted on September 12, 20 and 26 and October 3 and 4, 2018, for the depositions of the other prosecution witnesses. At this point, the criminal action is temporarily suspended according to a decision from October 15, 2018, due to two Habeas Corpuses judged by the 1st Regional Federal Court and therefore it is not possible to precise at this point when there will be a decision and/or trial of Federal Prosecution's indictment.

(v) Other lawsuits

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

After the ratification by the judge of the 12th Federal Lower Court of the new Agreement with public authorities and public prosecutors, some public civil actions shall be extinguished.

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

e) Contingent assets

In 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.

23. Employee postretirement obligations

Reconciliation of net liabilities recognized in the statement of financial position

	September 30, 2018			Consolidated		December 31, 2017		
	Overfunded pension plans	Underfunded pension plans	Other benefits	Total	Overfunded pension plans	Underfunded pension plans	Other benefits	Total
Amount recognized in the statement of financial position								
Present value of actuarial liabilities	(11,198)	(17,130)	(5,406)	(33,734)	(11,239)	(14,789)	(4,661)	(30,689)
Fair value of assets	16,171	14,541		30,712	15,972	12,492		28,464
Effect of the asset ceiling	(4,973)			(4,973)	(4,733)			(4,733)
Liabilities		(2,589)	(5,406)	(7,995)		(2,297)		