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Overcoming challenges and designing a new future





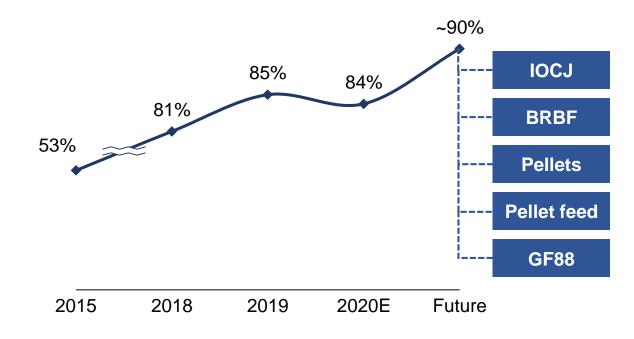
Enhancing safety, flexibility and quality

Stabilization of production adds quality to Vale's portfolio

Profile of iron ore products



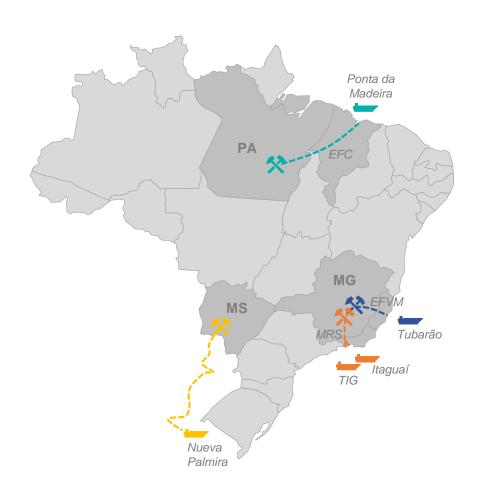
Share of premium products² (%)





Enhancing safety, flexibility and quality

Vale reinforces its flexibility by creating capacity buffer

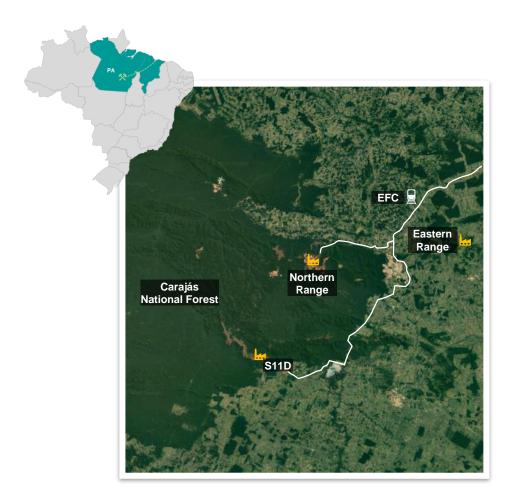


	Production (Mt)		Capacity (Mtpy)		
	2018	Today ¹	Path to 400Mtpy ²	Future	
Northern System	194	202	230	260	
Southeaster System	n 104	63	101	106	
Southern System	84	51	67	82	
Midwestern System	2	2	2	2	
VALE	385	318	400	450	



¹ Assumes actual capacity of the current operating assets. ² Minimum capacity to achieve 400 Mtpy.

IOCJ, the world's high-grade benchmark



Capacity (Mt)

	2018¹	Today	Path to 400 Mtpy	Future	Bottleneck today
Mine/ Plant	194	202	230	260	Permitting of new
Port	197	230	230	260	mining fronts

Main products



IOCJ, BRBF input and GF88

Challenges



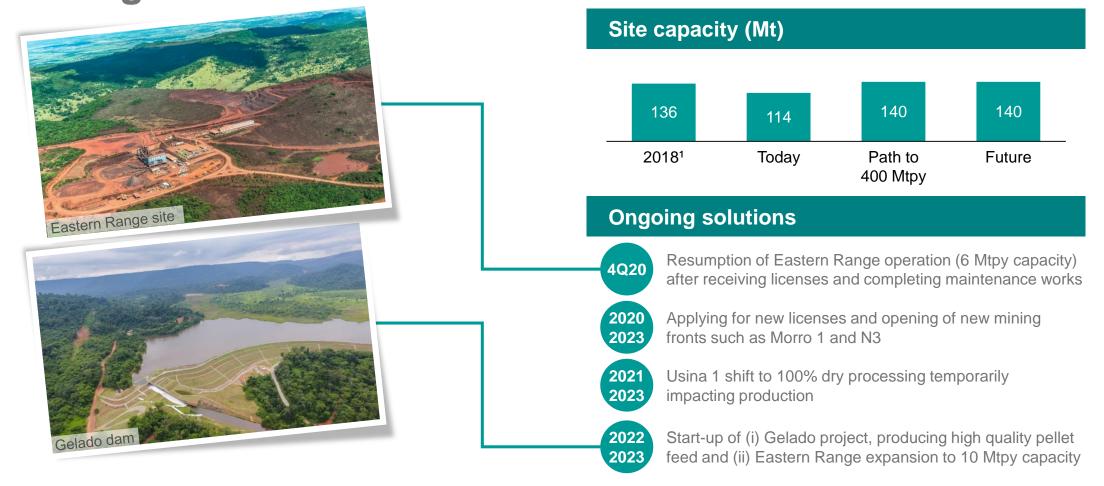
Opening of new pits and licensing



Ramp-up of operations

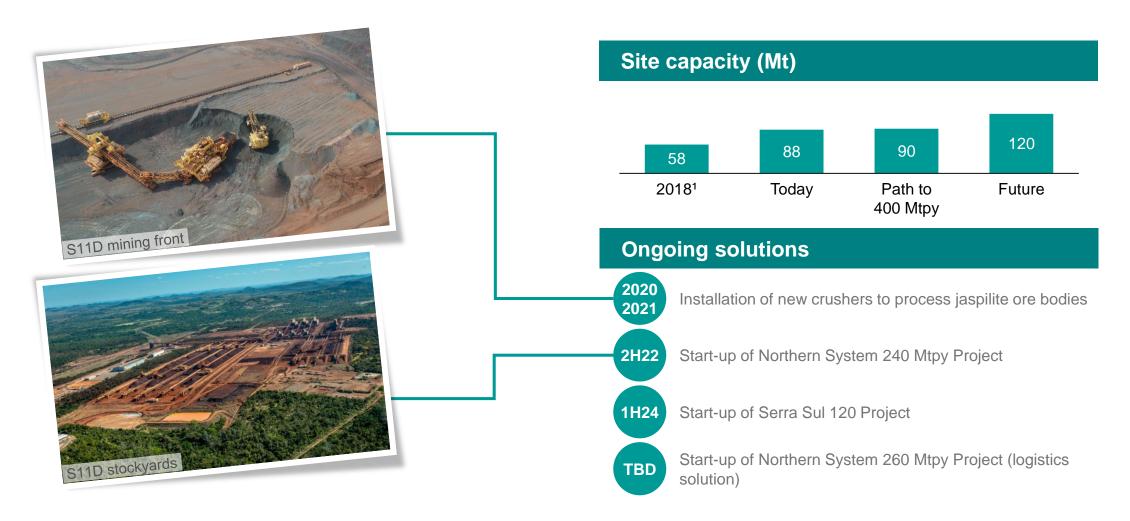


Northern and Eastern Ranges entail the opening of new mining fronts and licensing



¹ Production in 2018.

S11D, a brand new, innovative asset with Vale's lowest C1 cost



¹ Production in 2018.

Serra Sul 120 means optionality and growth to the Northern System



Serra Sul 120 Project

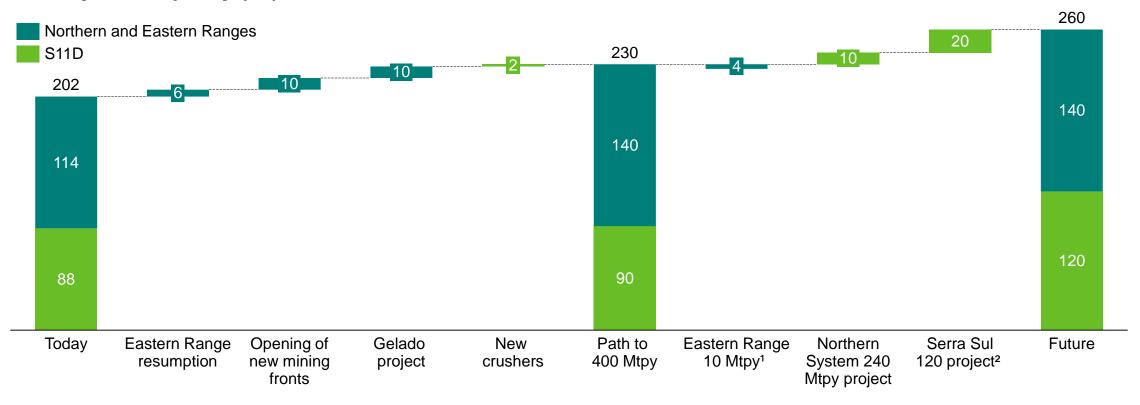
CAPEX: US\$ 1.5 bn

• Start-up: 1H24

- Increasing S11D mine-plant capacity in 20 Mtpy
- Creates capacity buffer for the short-term, ensuring greater operational flexibility
- Environmental licensing in progress to access new areas in the site
- Logistics solution to increase Northern System capacity to 260 Mtpy is under development

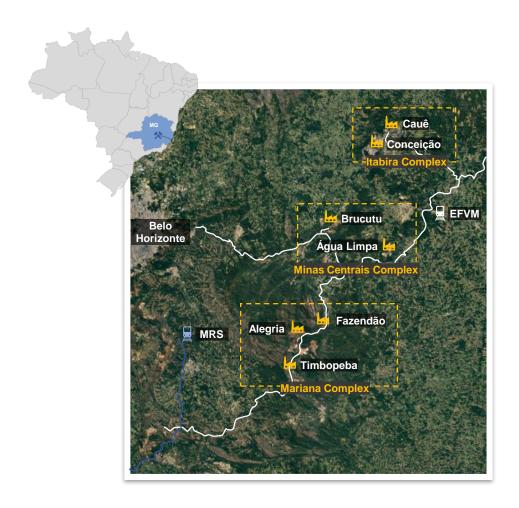
Northern System with +28 Mtpy capacity in the near term

Northern System capacity (Mt)



¹ Replacement volumes. ² After the approval for the logistics project to increase Northern System logistics capacity to 260 Mtpy.

Developing alternatives to enable beneficiation process



Capacity	(Mt)				
	2018¹	Today	Path to 400 Mtpy	Future	Bottleneck today
Mine/ Plant ²	104	63	101	106	D
Domestic market ³	c 15	13-17	15-20	15-20	Restrictions in tailings disposal
Port	97	108	108	120	a.op oodi

Main products



Pellet feed, pellets and BRBF input

Challenges



Assessment of geotechnical structures



Filtration and dry stacking solution

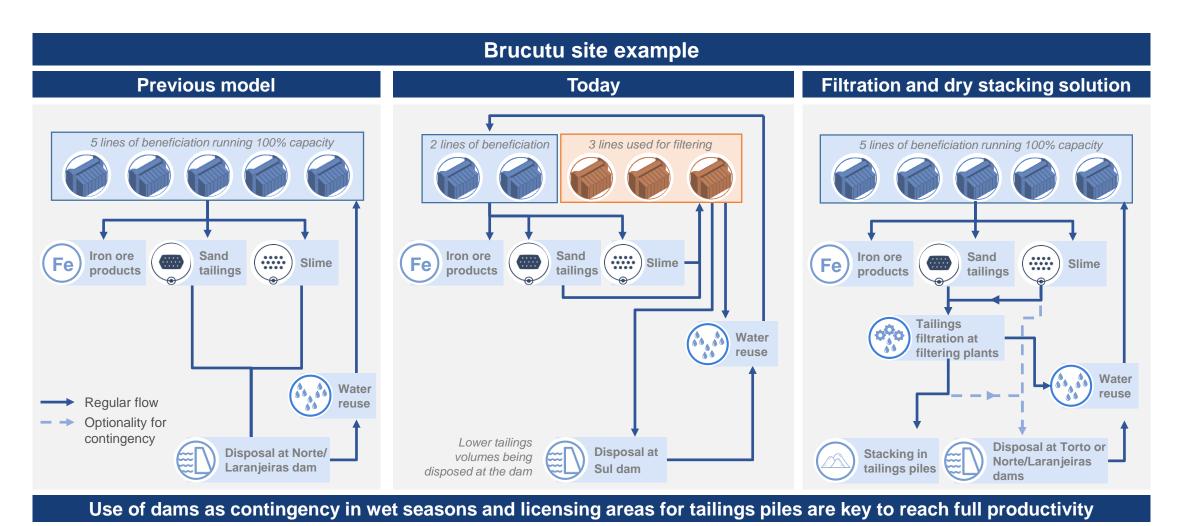


Torto dam and filtering as solutions for Brucutu



¹ Production in 2018. ² Disposal in tailings piles depends on receiving licenses. ³ Norte/Laranjeiras dam is under Emergency Level 1 and today does not have a positive stability declaration, which is required to resume operations. The dam's stability assessment and definition of necessary actions is expected in 4Q20 and the use of the dam as contingency in 2025.

The filtering plant will allow dry stacking for up to 100% of tailings



The start-up of the filtering plant in Brucutu is expected in 2022



Physical progress: 26%





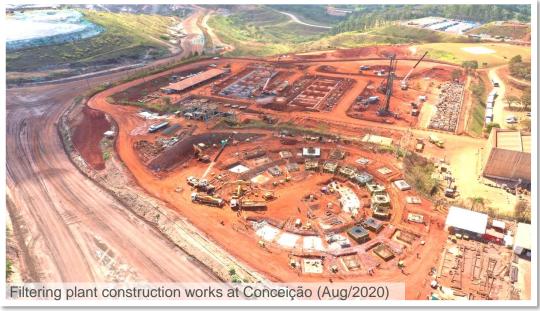


Filtering will also play an important role in the Itabira Complex



Itabira's filtration plants are expected to start-up in 2022





Physical progress (Cauê): 15%

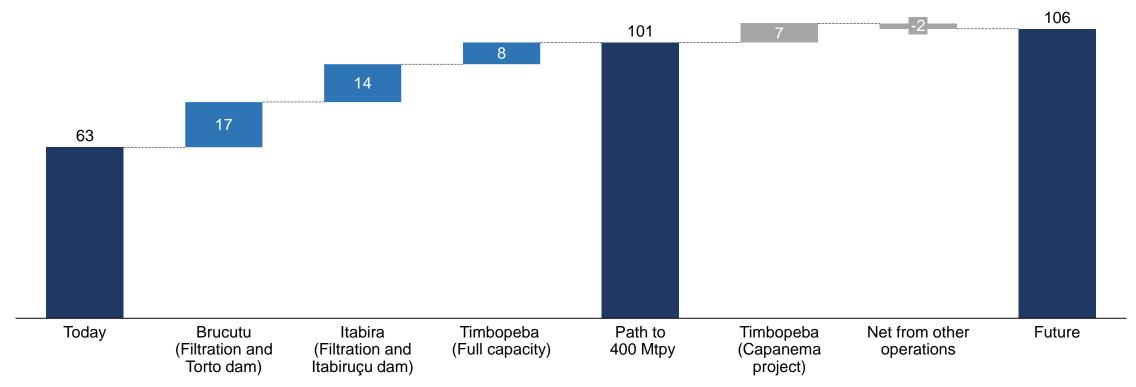
Physical progress (Conceição): 13%

In Timbopeba, the depleted pit is key to increase wet processing

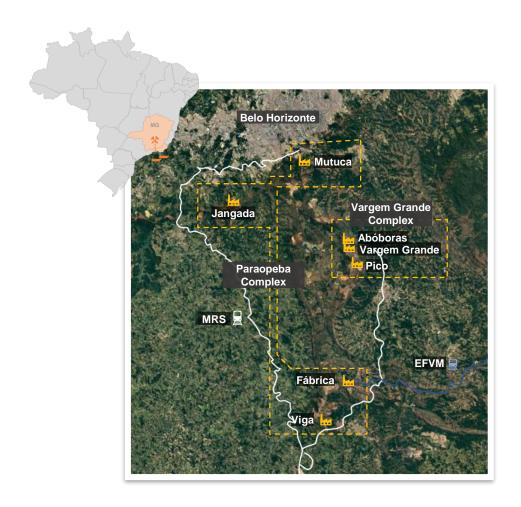


Southeastern System with +38 Mtpy capacity in the near term

Southeastern System capacity (Mt)



Gradual resumptions in Vargem Grande and Paraopeba Complexes



Capacity	(Mt)				
	2018 ¹	Today	Path to 400 Mtpy	Future	Bottleneck today
Mine/ Plant ²	84	51	67	82	Operations
Domesti market ³	c 14	8-12	12-16	12-16	near upstream
Port	60	75	75	75	dams

Main products



BRBF input, 62% Fe products and pellets

Challenges



Unlock mining capacity



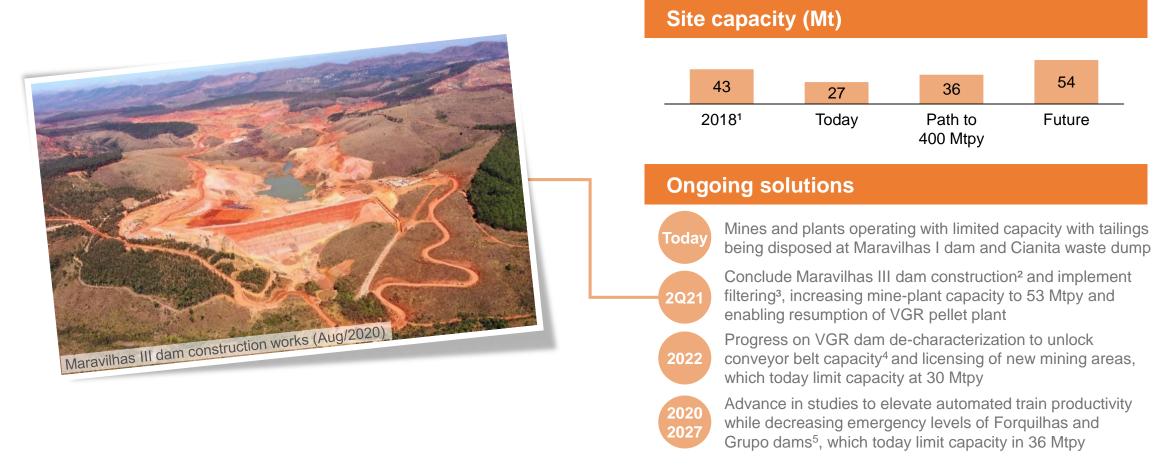
Solve interference with upstream dams



¹ Mine/Plant refers to production and Port refers to shipments. ² Including third-party purchases and not including ROM for sales. Part of production uses Southeastern System's logistics.

³ Considering sales in domestic market and losses in pellet making process.

Maravilhas III dam improves quality and volumes in Vargem Grande Complex



¹ Production in 2018. ² The receival of positive stability declaration is necessary start operation. ³ Disposal in tailings piles depends on receiving licenses.

⁴ Resumption of conveyor belt relies on external approvals by National Mining Agency (ANM) and external auditors. ⁵ Decrease of emergency levels also depends on external evaluation by ANM and external auditors.

Filtering, expected in 2021, will extend Maravilhas III dam lifespan







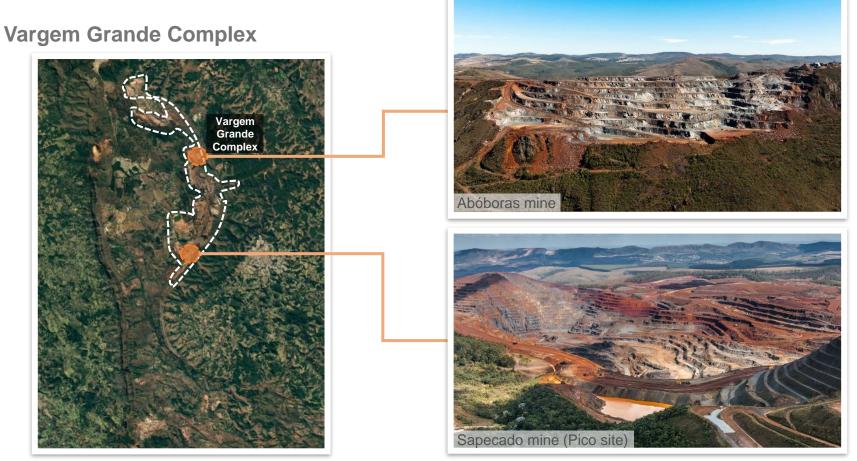


Physical progress

77%



Mechanical dismantling ending in 20211: improved productivity and costs



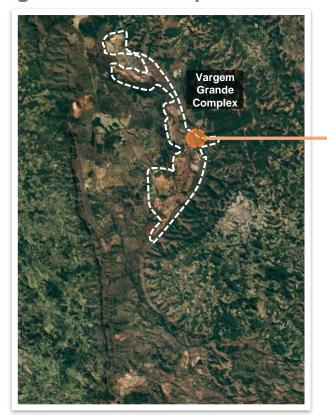
1~50% of mining cost increase²

¹ Depending on the conclusion of absence of impact in adjacent structures and on the external approval by National Mining Agency (ANM) and external auditors.

² Variation of mining costs per ton (mechanical dismantling and others) of Abóboras and Sapecado/Galinheiro (Pico) mines in 2020 (vs. 2018) in BRL.

The internal logistics interference by Vargem Grande dam is expected to be solved until 2022¹





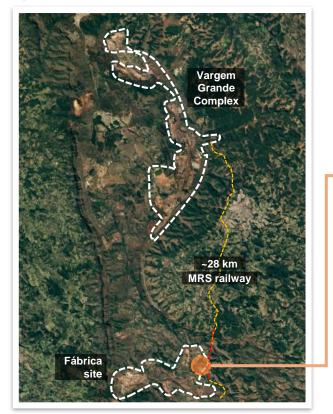


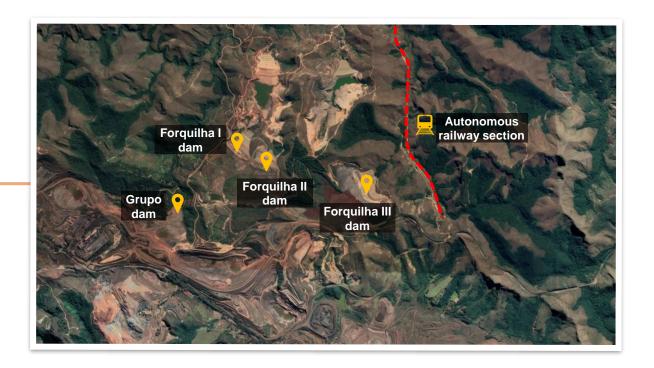


¹ Resumption of conveyor belt relies on external approvals by National Mining Agency (ANM) and external auditors.

Increase autonomous train productivity and decrease emergency level at Forquilhas and Grupo dams elevate Vargem Grande capacity

Vargem Grande Complex





Fábrica resumption is key to supply the domestic market with pellets



Site capacity (Mt) 7 6 6 2018¹ Today Path to 400 Mtpy Future

Ongoing solutions

2Q21

- Conclusion of required vibration tests (to certify the absence of impacts on the site's structures) and evaluation by external auditors and ANM
 - Resume site's production after concluding pipeline construction for tailings disposal at Forquilha V dam

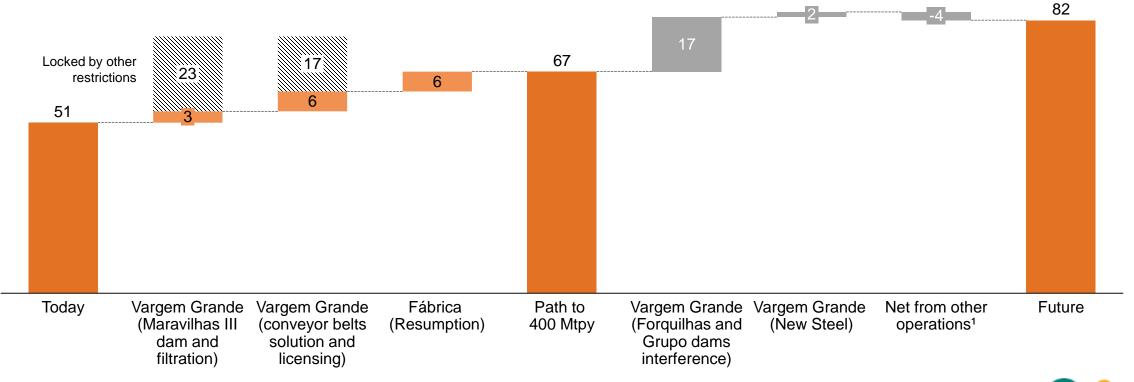
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Resume pellet production after concluding abovementioned steps, which relies on market conditions

mentioned etops, which relies on market contaktions

Southern System with +16 Mtpy capacity in the near term

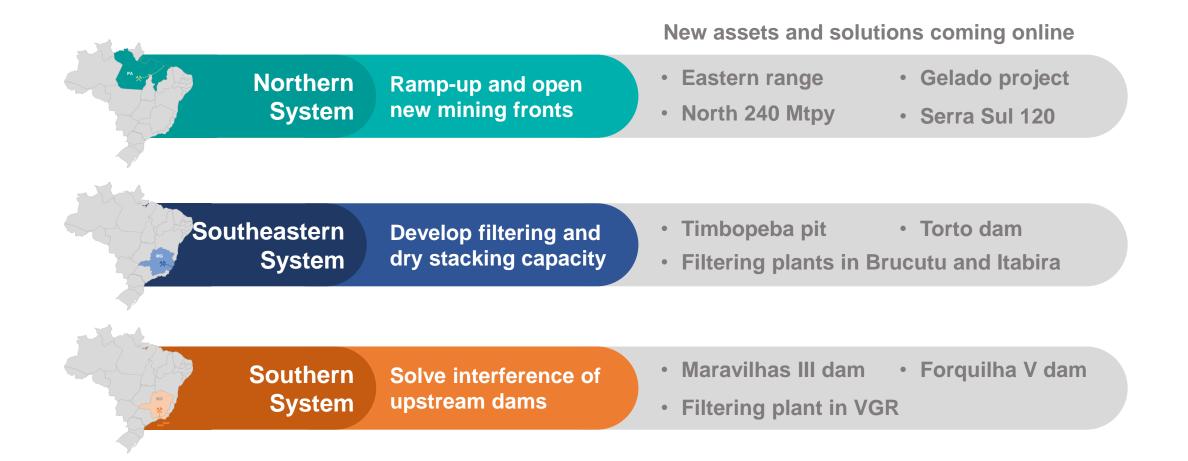
Southern System capacity (Mt)



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Creating buffers to deliver production stability

Vale will create capacity buffers to ensure ~400 Mtpy production





De-risking Vale the evolution of our roadmap

Keeping fast pace at Brumadinho's reparation

Focusing on operational excellence and dam safety

Approaching ESG towards best practices

Achieving business stability with capital discipline

Keeping fast pace at Brumadinho's reparation

Over R\$ 10 billion spent¹



Brumadinho's Master Plan finalized after extensive community consultation and submitted to the authorities' approval²

R\$ 4.1 billion in indemnifications³

Indemnities Emergency Aid

Civil and Labour

People

+106,000

+7,940

33 agreements a robust legal framework



Indemnify people



Recover the environment



Support families and communities



Ensure external audits



Ensure water supply



Compensate Social Security



¹ Excludes de-characterization expenditure. 2Submitted to the municipality of Brumadinho. 3Approximate figures, referring to signed agreements (paid and payable, civil and labour), labour indemnification paid for collective damages and emergency aid paid, updated on September 10th, 2020.

Keeping fast pace at Brumadinho's reparation

Provisions for reparation are well-sized and timely disbursed



VALE

¹ EBITDA impact in 2019 and 1H20 accumulated at US\$ 3.947 billion. PV & FX depreciation effects related to 2019 and 1H20 of US\$ 858 million. Average FX rate BRL/US\$ estimate at 5.20 in 2H20, 5.10 in 2021 and 4.77 in 2022+. Provisions for de-characterization excluded. ²As of June 30th, 2020.

Focusing on operational excellence and dam safety

By transforming our culture with VPS



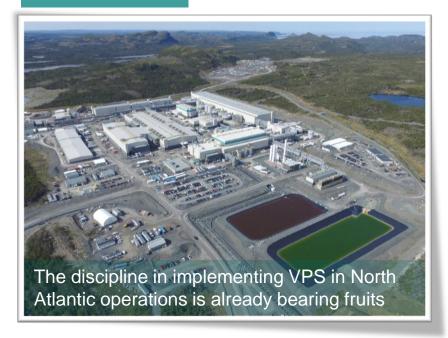
People development

Standardization of best practices

Operational discipline

Compliance with routine

North Atlantic



- Robust nickel production since 4Q19.
- Increased stability of our value chain.
- Improved predictability in processes and results.



Focusing on operational excellence and dam safety

By continuously improving dam management

Business units		Safety & Risk	Internal audit		External sentinels		
Geotechnical operations team	Geotechnical support team	Safety & Operational Excellence Office	Independent Board Committee for Dam Safety	Chief Compliance Officer Internal audit and whistleblower channel	Engineer of Record Dam safety inspections and performance assessments	Independent Auditors Public Prosecutors technical reviews and Tailing Review Boards	Dam Safety Reviews Periodical technical reviews by external engineering company
1 st layer	2nd layer	2 nd line of	3 rd line of defense				
1 st line of defense		defense	o lille o	rucicisc			







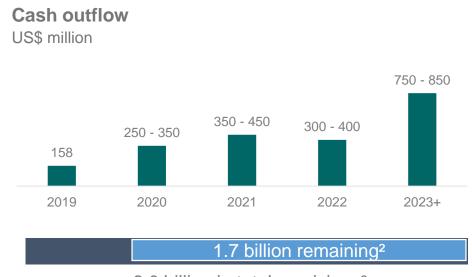


Focusing on operational excellence and dam safety

By evolving with our de-characterization plan

The updated decharacterization timeline is available at www.vale.com/esg





2.0 billion in total provisions³

VALE

¹ After further assessments, the Xingu drained pile was reclassified as upstream dam. ²US\$ 1,686 million as of June 30th, 2020. ³Considering a 2019 EBITDA impact of US\$ 2,624, with PV & FX adjustments of US\$ 669 million.

Approaching ESG towards best practices

We are evolving with our ESG practices



Where we stand today¹



33% emissions reduction target for scopes 1&2 by 2030



Carbon neutral by 2050 in scopes 1&2



New Pact with society



Goal to double percentage of women on the workforce



Creation of Chief Compliance Office



Sustainability targets in long term remuneration goals

Next steps¹



Scope 3 target ambition



Sensitivity analysis/stress test related to water



Systematic involvement of local stakeholders in the CDP²



Stablish a human rights due diligence process



First Board election with Nomination Committee



Integrated Reporting



Closing cash drains

2020E	VNC	COAL	SAMARCO
Milestones achieved	VNC refinery was shut down in 2Q20	New mining plan and plant revamp defined	Operational resumption approved by authorities
Ongoing measures	Exiting VNC, starting with placing it on care & maintenance	Plant revamp to start in November 2020, following improved pandemic scenario	Preparatory works to restart operations by December 2020
2020 cash drain (US\$ million)	~350	~1,100	~200¹
Tapped drain (E)	2021	2022	2021

40

VALE

¹ Excludes expenses related to the Renova Foundation.

Advancing with capacity replacement and growth in Nickel

EBITDA breakeven¹

US\$ 6,477/t

Average price¹

US\$ 13,948/t

North Atlantic

CCM and VBME

Replacement projects

Start-up: 2021

Capacity: 45-55 ktpy²

South Atlantic

Onça Puma

Growth project

Start-up: 2023E³

Capacity: +20 ktpy

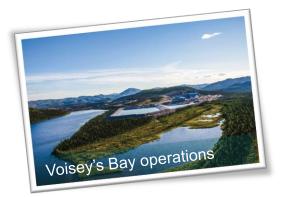
Indonesia

Pomalaa and Bahodopi

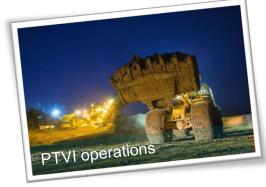
Growth projects

Through JVs³

Capacity: +110 ktpy⁴







¹ Nickel EBITDA break-even and average realized price in 2Q20. ² Both projects combined. ³ Pending approval. ⁴ Combined in a 100% equity project basis.

Advancing with growth projects for Copper

EBITDA breakeven¹

US\$ 1,181/t

Average price¹

US\$ 5,994/t

South Atlantic

Salobo III

Expansion project

Start-up: 2022E

Capacity: +30-40 ktpy

Alemão

Growth project

Start-up: 2024E

Capacity: +60 ktpy

North Atlantic

Victor deposits

In partnership with Glencore

Start-up: 2025+

Capacity: +30 ktpy



Indonesia

Hu'u

Searching for a partner

Start-up: 2030+

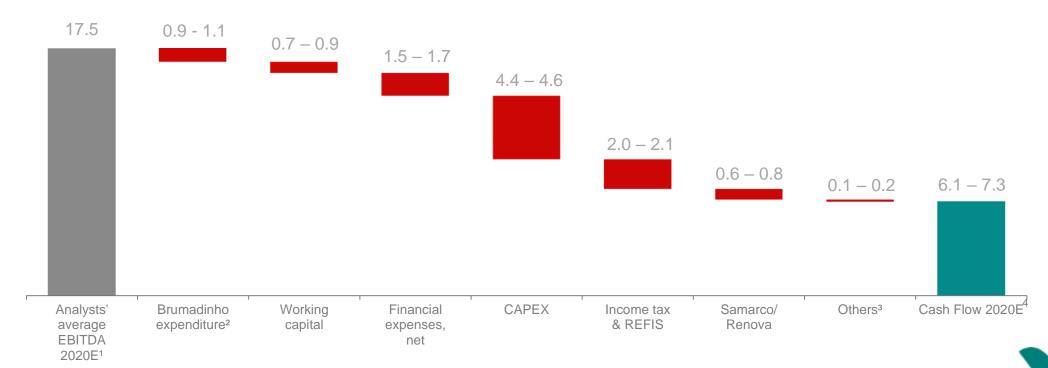
Capacity: +250 ktpy



¹ Copper EBITDA break-even and average realized price in 2Q20.

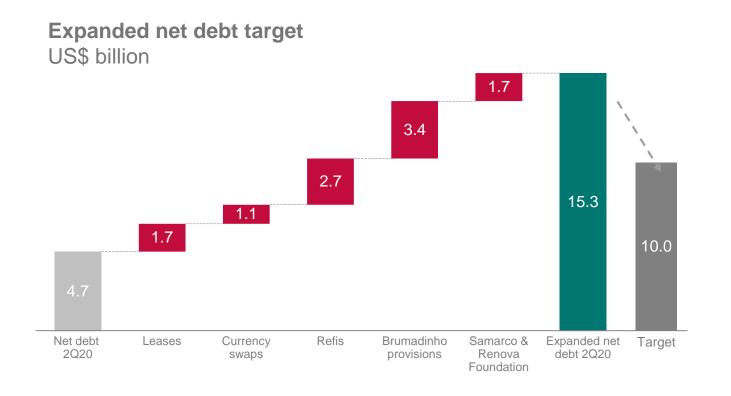
Robust cash generation to sustain reparation, fund accretive projects and remunerate shareholders

2020 Expected Cash Flow, based on sell-side analysts' EBITDA estimates US\$ billion



¹Analysts' consensus ranging from US\$ 15.0 billion to US\$ 20.8 billion. ² Includes reparation, de-characterization and incurred expenses, excludes the release of judicial deposits of US\$ 274 million. ³ Includes derivatives, dividends paid to non controlling interest, disbursements in accordance with IFRS16, disbursements with scrubbers and others. ⁴ Excludes dividends, bolt-on acquisitions and debt repayment.

Cash allocation plan based on long-term expanded net debt target







A roadmap for value creation

De-risking

- Repairing Brumadinho
- Enhancing dams safety
- Improving ESG practices
- Resuming production
- Operating with excellence (VPS)

Reshaping

- Fixing cash drains
- Focusing on core business
- Capturing growth optionalities

Re-rating

- Benchmark in safety
- Best in class reliable operator
- Talent factory
- Leader in low-carbon mining
- Reference in creating and sharing value

