



Disclaimer

“This presentation may include statements that present Vale's expectations about future events or results, including without limitation: (i) our perspective for reduction of emergency level of dams on slides 9, 11 and 84; (ii) our perspectives for deliveries in our Upstream Dam Decharacterization Program on slide 11; (iii) iron ore projects capacity addition and start-up on slides 17, 55, 56, 57, 58, 84 and 88; (iv) the reparation and decharacterization expenses on slides 24, 84 and 90; (v) the Sol do Cerrado project contribution to our renewable electricity consumption on slide 25; (vi) expectations of operational KPIs improvement in Iron Ore Solutions business on slides 35, 37, 38 and 39; (vii) expectations for steel production on slides 44 and 45; (viii) expectations for supply and demand of agglomerates on slide 48; (ix) plans for implementing briquetting plants and for Mega Hub development on slide 51; (x) pellets and briquettes production plan on slide 52; (xi) iron ore production guidance on slide 53; (xii) expectations for iron ore product portfolio and premium on slide 61; (xiii) expectations for EV sales and nickel and copper demand on slide 64; (xiv) copper production guidance on slides 67 and 84; (xv) nickel production guidance on slides 68 and 84; (xvi) expectations of capacity and start-up of Energy Transitions Metals projects and initiatives on slides 69 and 88; (xvii) our long-term production volume ambition for nickel and copper on slide 70; (xviii) potential for increase in resources on slide 78; (xix) cost and expenses guidance on slides 84, 85, 86 and 87; (xx) expectation of iron ore product quality on slide 84; (xxi) expected return of the project portfolio on slide 88; (xxii) guidance for capital expenditures on slide 89; and (xxiii) price sensitivity of EBITDA generation and FCF yield on slide 91.

These risks and uncertainties include factors relating to our ability to perform our production plans and to obtain applicable environmental licenses. It include risks and uncertainties relating to the following: (a) the countries where we operate, especially Brazil, Canada and Indonesia; (b) the global economy; (c) the capital markets; (d) the mining and metals prices and their dependence on global industrial production, which is cyclical by nature; (e) global competition in the markets in which Vale operates; and (f) the estimation of mineral resources and reserves, the exploration of mineral reserves and resources and the development of mining facilities, our ability to obtain or renew licenses, the depletion and exhaustion of mines and mineral reserves and resources. To obtain further information on factors that may lead to results different from those forecast by Vale, please consult the reports Vale files with the U.S. Securities and Exchange Commission (SEC), the Brazilian Comissão de Valores Mobiliários (CVM) and in particular the factors discussed under “Forward-Looking Statements” and “Risk Factors” in Vale’s annual report on Form 20-F.

valeday 2023



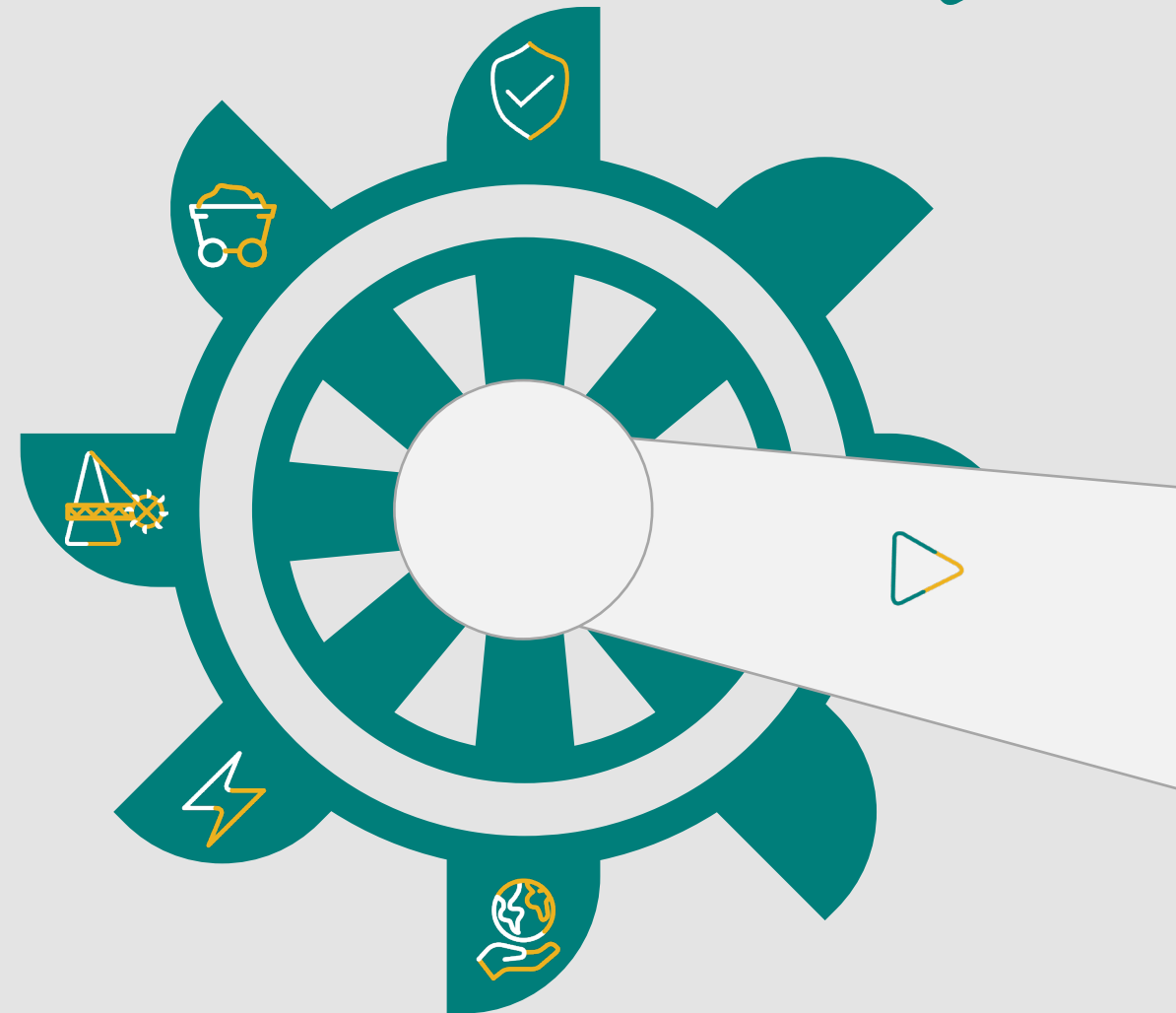
Key levers

to unlock value through 2026



Opening Remarks

Eduardo Bartolomeo



Vale of the future: executing our strategy



Promote sustainable mining

- Benchmark in safety and dam management
- Regional social and economic development
- Shared value and trust
- People-driven culture
- Nature positive

Updates since 2022



Foster low carbon solutions

- Iron ore solutions
- Energy transition metals
- Customer centricity
- Technology innovation
- Circular mining



Stay disciplined

- Reliable operations and consistent delivery
- Attractive cash return to shareholders
- Strong balance sheet
- Cost, capex and capital allocation efficiency

Key levers

to unlock value through 2026

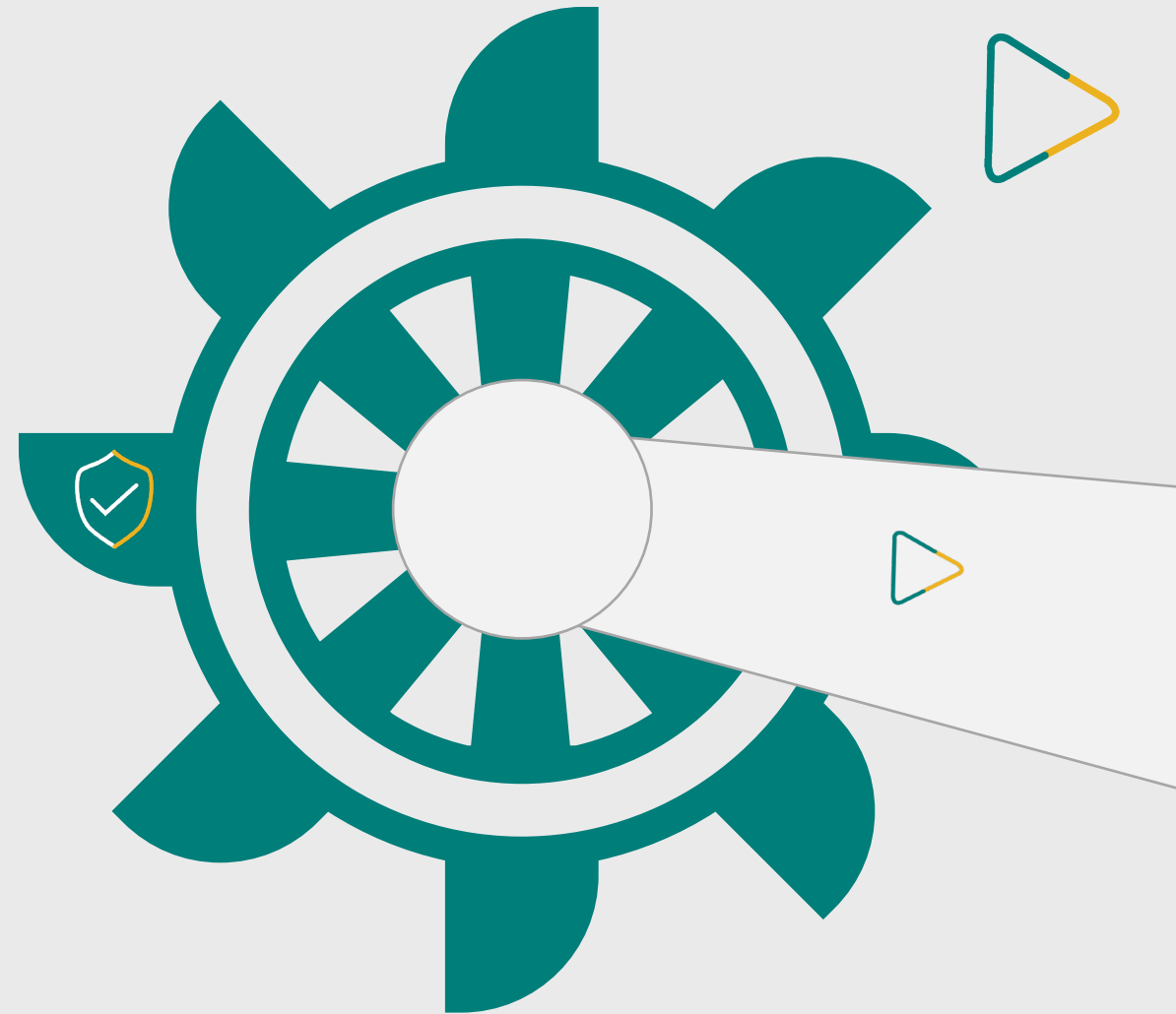


Key levers

to unlock value through 2026



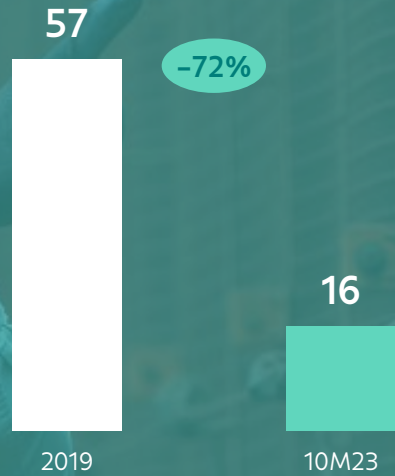
Safety Journey



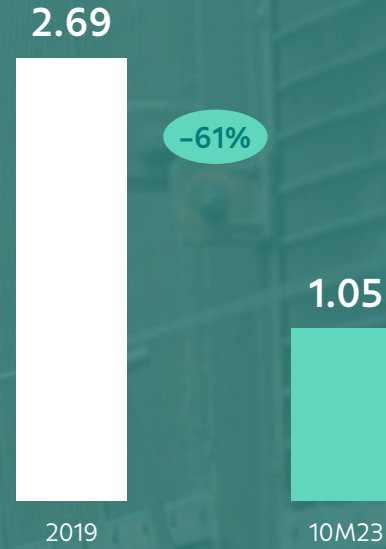


Enhancing safety

High-potential recordable injuries (N2)¹ (unit)

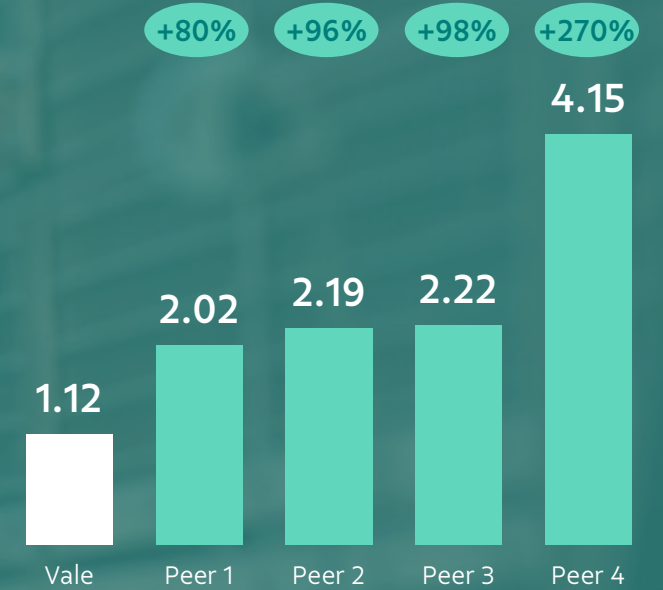


Total recordable injury frequency rate (TRIFR)²



TRIFR² comparison against major peers (2022)

Source: International Council on Mining and Metals – ICMM





Substantial progress in dam safety and tailings management



Robust tailings and dam **management**



24/7 geotechnical **monitoring** centres



Accelerated transition to **filtered tailings**



GISTM:
in conformance
with the standard¹



Goal:
No dam at level 3
by 2025²

Dique 2 after completion of decharacterization works
(Itabira, Minas Gerais, Brazil)



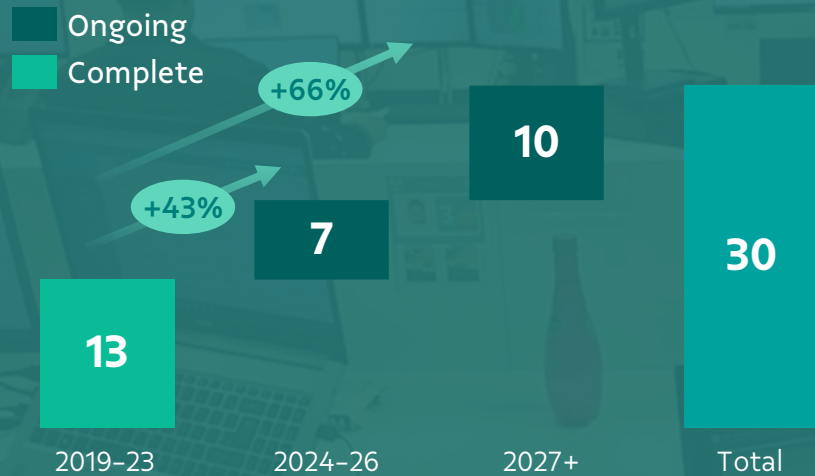
Click here to
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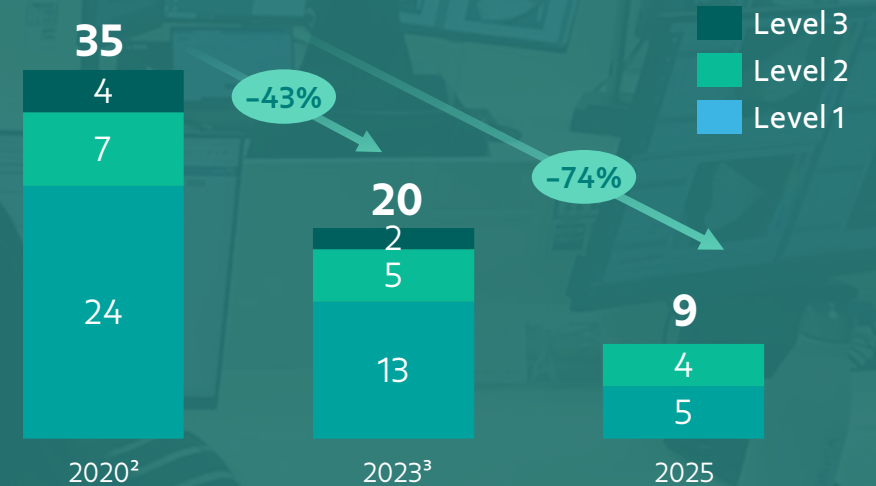
Substantial progress in dam safety and tailings management

Since 2019

Upstream dam decharacterization program



Dams at emergency level¹



No dams at level 3

Geotechnical Monitoring Center
(Nova Lima, Minas Gerais, Brazil)

Key levers

to unlock value through 2026



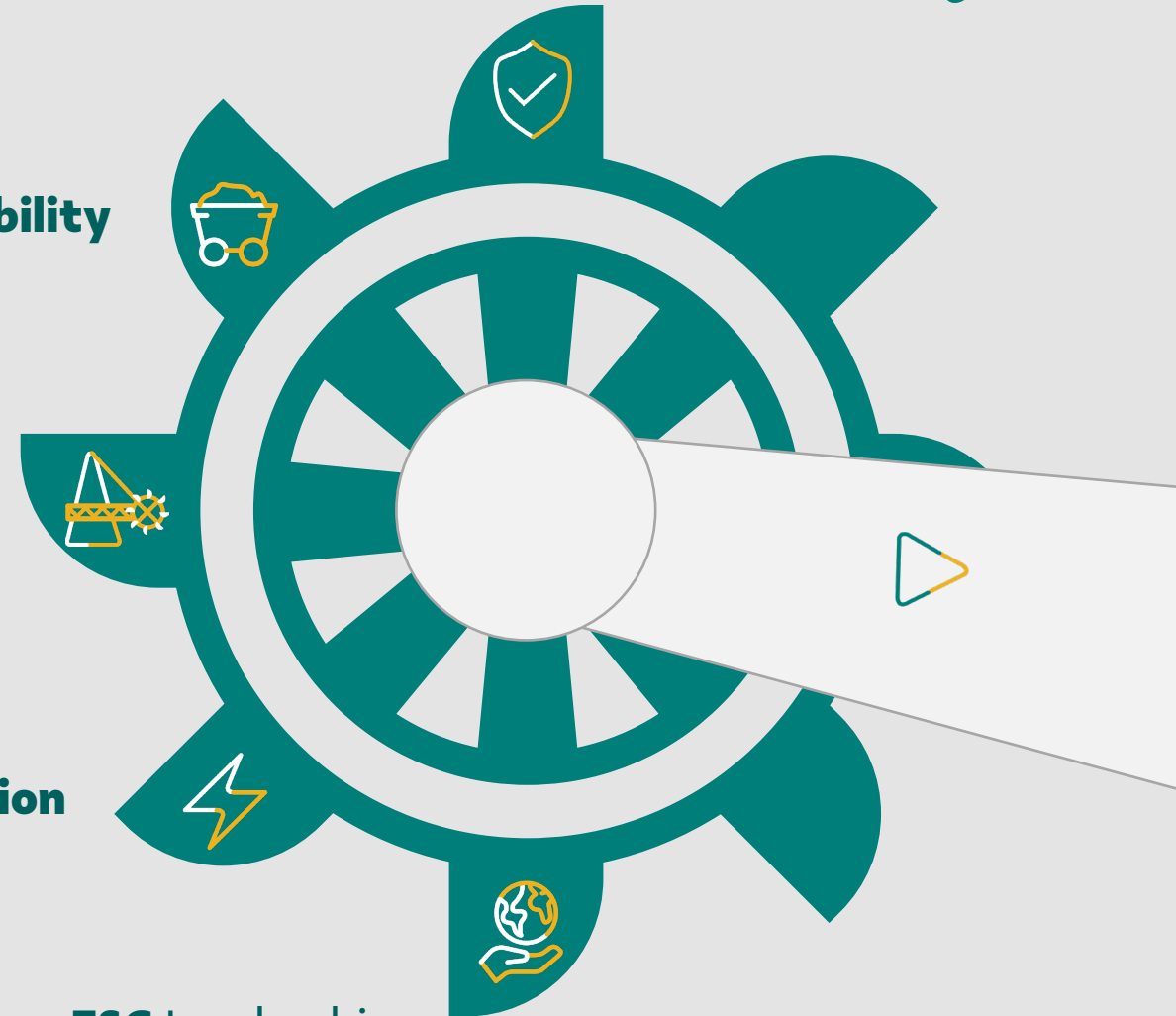
Iron Ore Operational **Stability**

Iron Ore **Growth** and **Quality**

Energy Transition Metals **Transformation**

ESG Leadership

Safety Journey

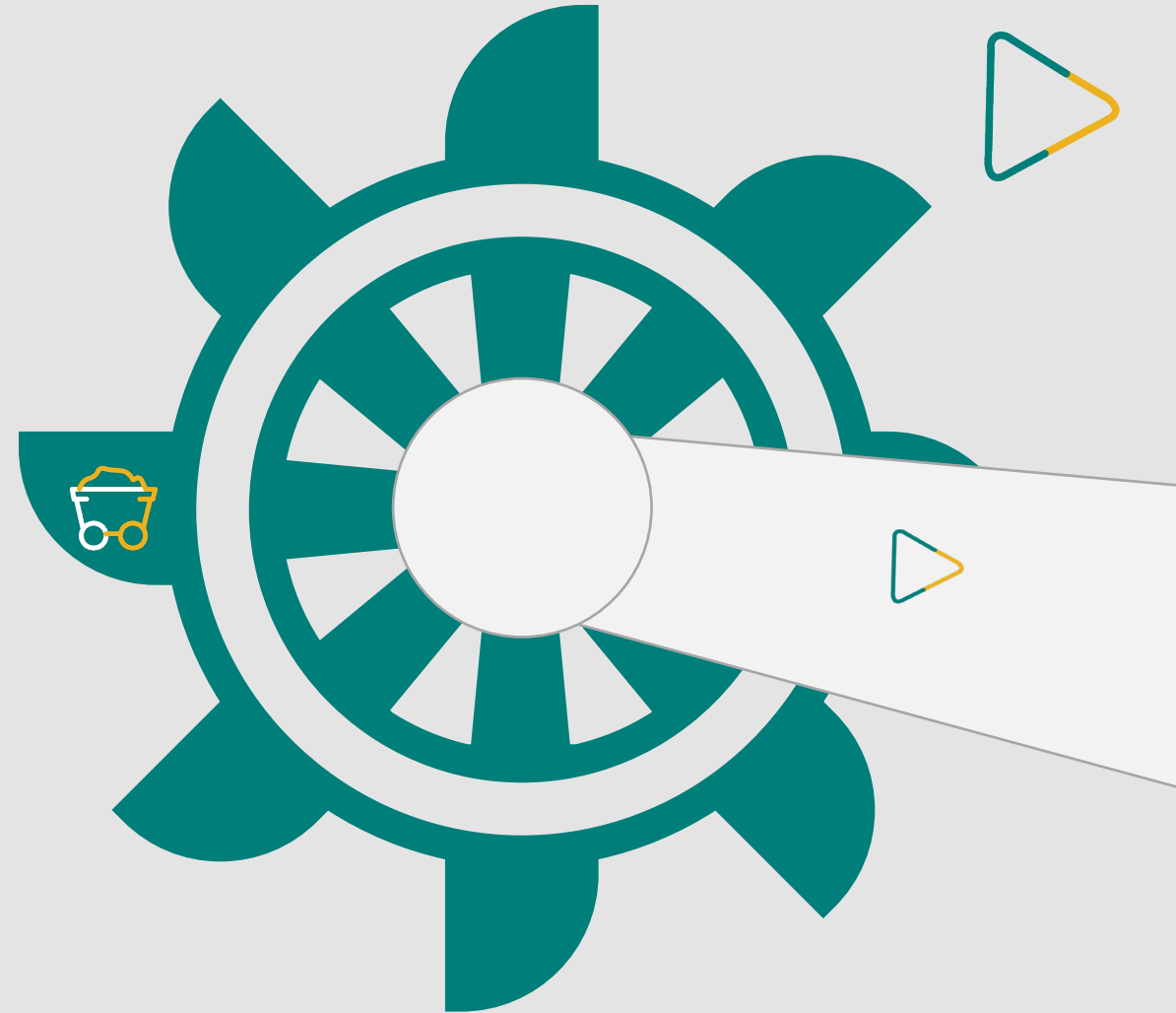


Key levers

to unlock value through 2026



Iron Ore
Operational
Stability





Designed for operational stability



Greater focus on core assets



Accelerating the implementation of the management model



Fostering execution and innovation



Promoting technical excellence



S11D, Pará, Brazil

Key levers

to unlock value through 2026

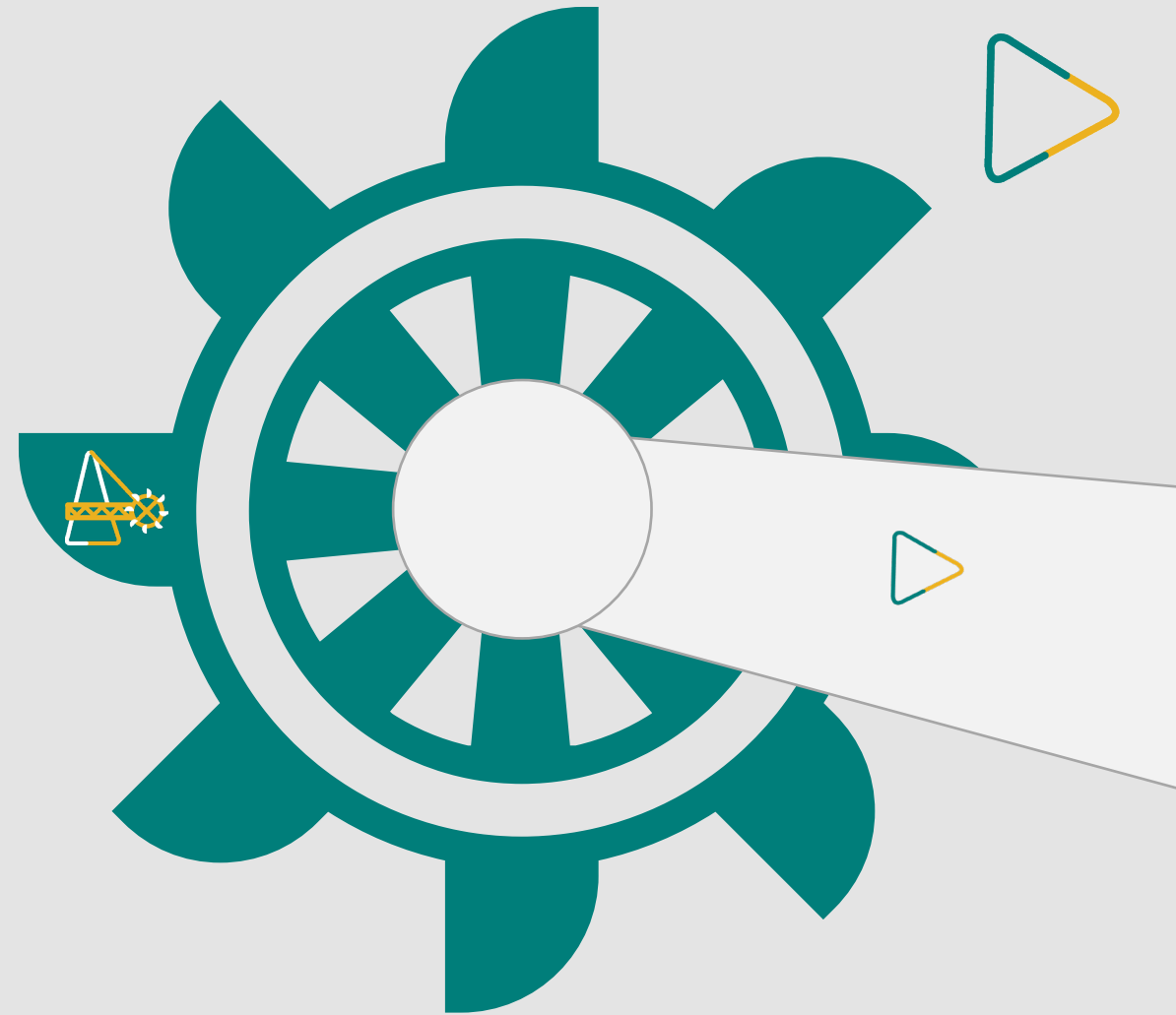


Key levers

to unlock value through 2026



Iron Ore
**Growth and
Quality**





Strategic projects to expand iron ore production and quality

+50 Mt capacity

2026

+15 Mt

Vargem Grande



4Q24

+15 Mt

Capanema



2H25

+20 Mt

S11D



2H26

Key levers

to unlock value through 2026



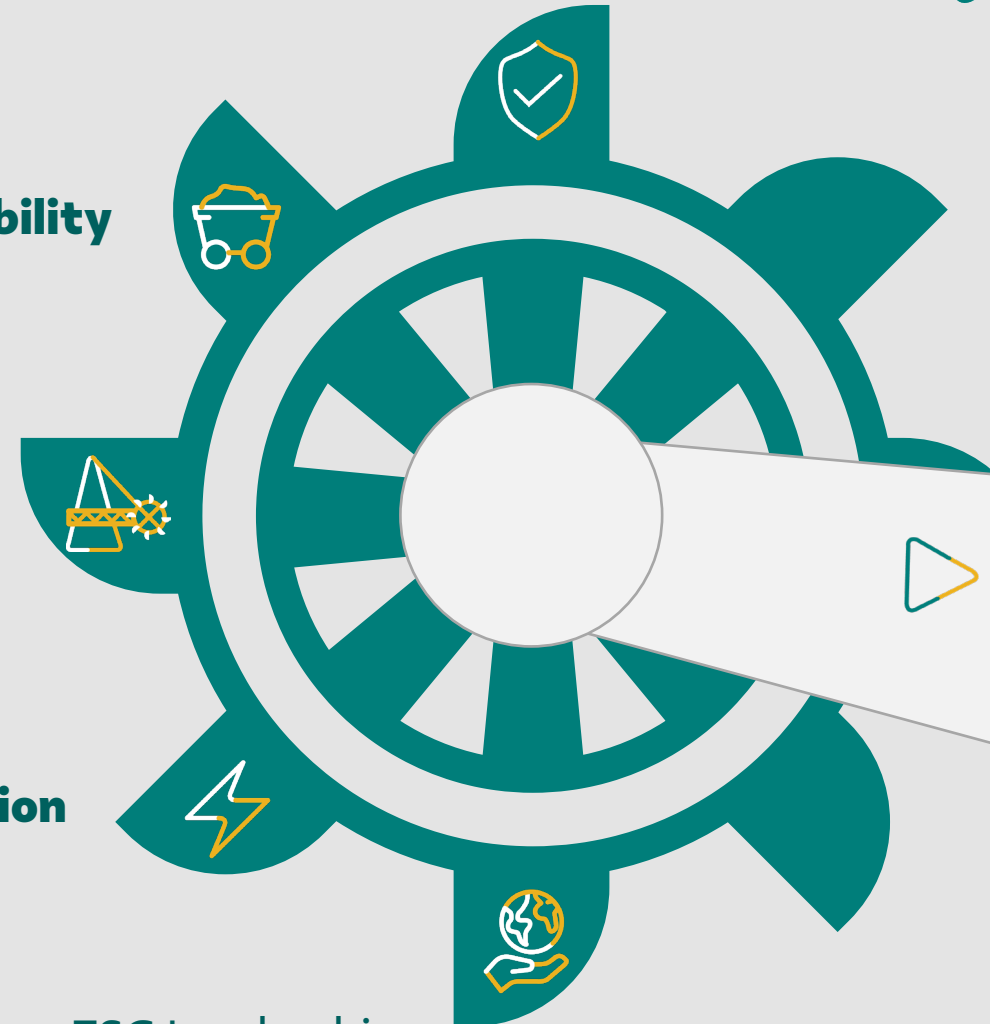
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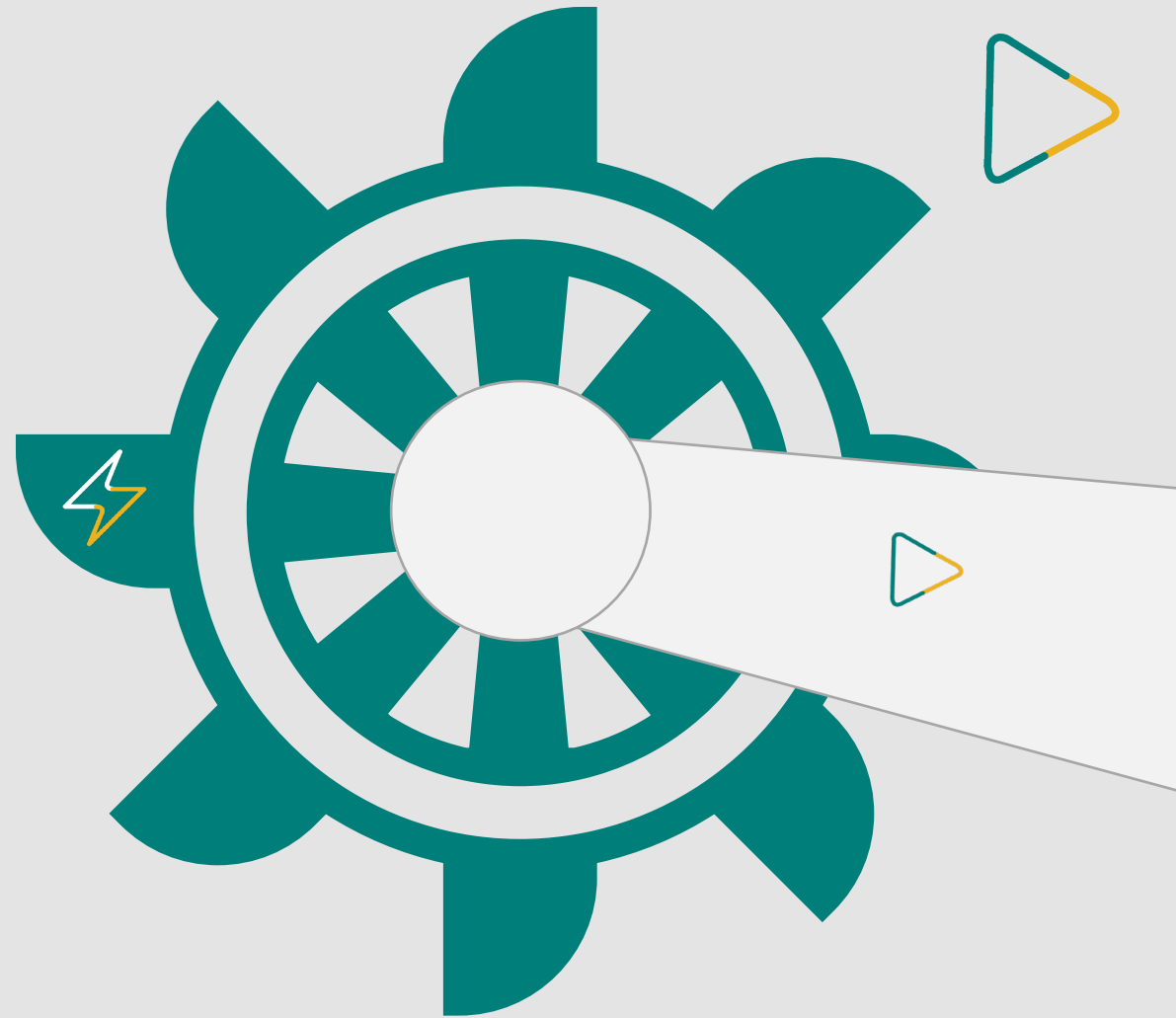


Key levers

to unlock value through 2026



Energy Transition Metals
Transformation





Unlocking value in Energy Transition Metals



Unique assets

- *Exclusive mineral endowment*
- *Robust growth pipeline in key provinces*
- *Verified low-carbon products*



A **fit-for-purpose** organization

- *Separate enterprise with a leaner structure*
- *Top talents joining management*
- *Dedicated governance*



A platform for **growth and further value unlock**

- *Partnership with diversified investors*
- *Access to competitive funding for investments*
- *Faster and at scale execution of the long-term strategy*

Key levers

to unlock value through 2026

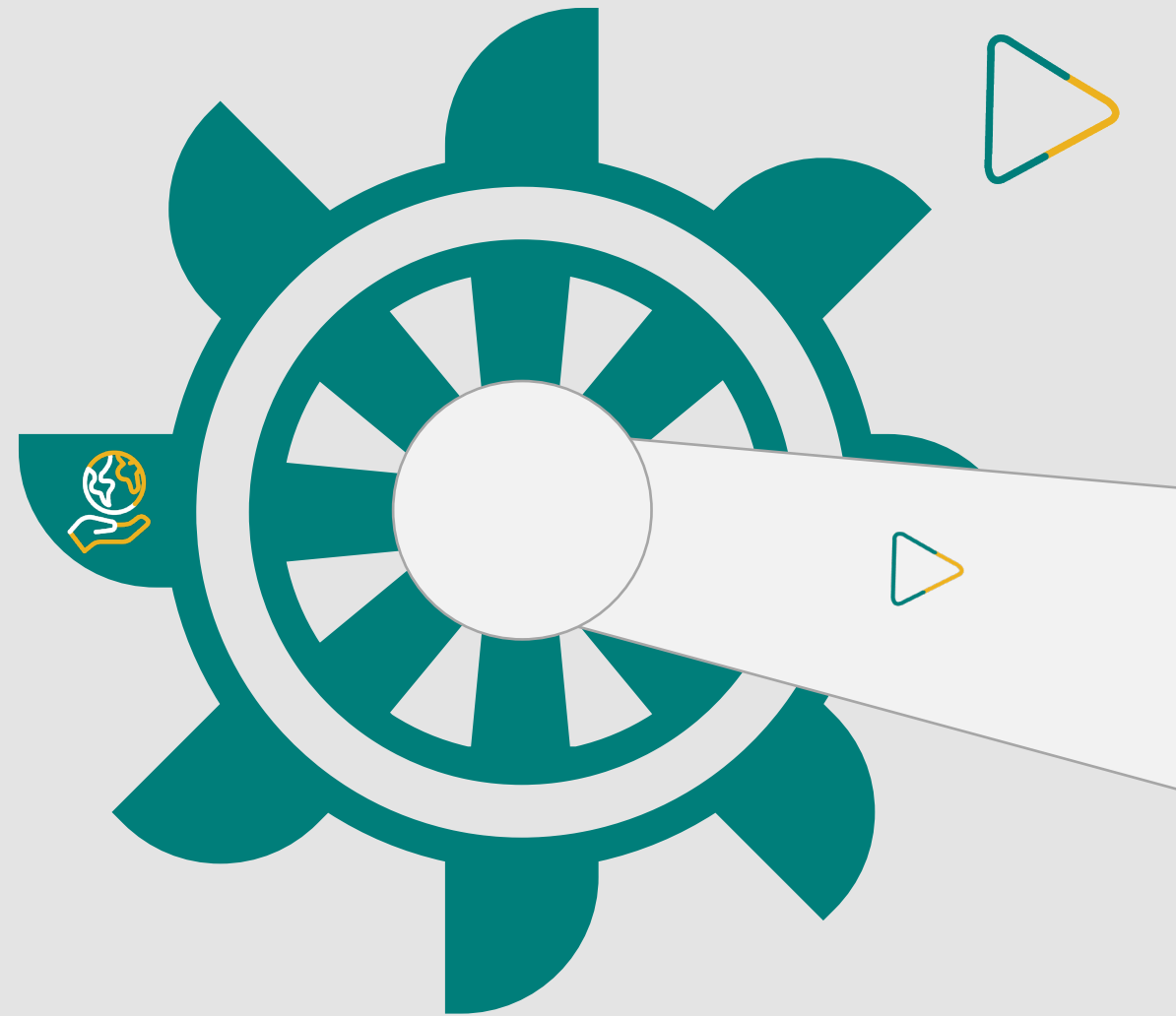


Key levers

to unlock value through 2026



ESG
Leadership





Important deliveries in Mariana's reparation

~R\$ 34 billion
disbursed in 42
compensation programs

\$ Compensation

+434,000
people indemnified

+R\$ 16 billion
paid in compensation

Water

Quality similar to pre-rupture standards

Permanent infrastructure:

- **10** sewage treatment stations
- **17** water treatment systems
- **18** water distribution networks

Resettlement

+81% of housing solutions delivered (552 out of 675)

Bento Rodrigues resettlement, Mariana, Minas Gerais, Brazil)



An expedited Brumadinho reparation

Individual compensations



+ 14,000
people compensated

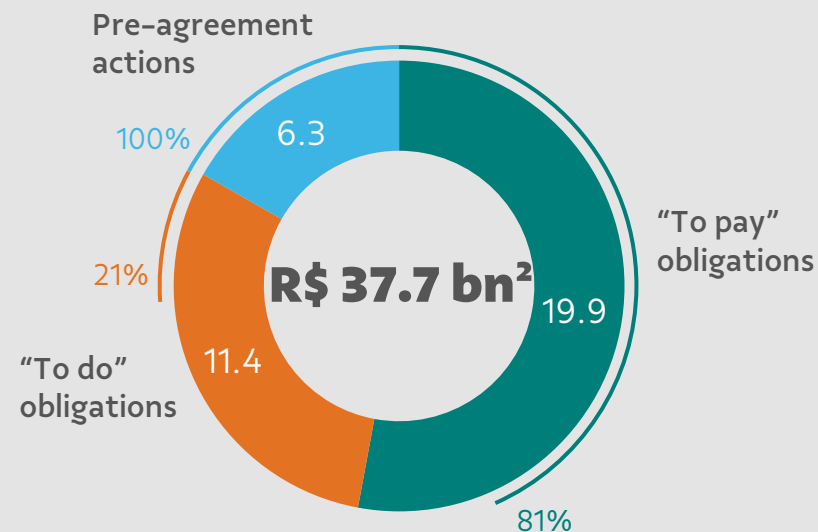


+ R\$ 3.4 billion
in compensations



Integral Reparation Agreement

(R\$ billion)



¹ Progress considering disbursements until October 31, 2023. ² As per Integral Reparation Agreement settled in February 2021.



Delivering on our Climate Change agenda



+176,000 ha of forests conserved and/or recovered since 2019¹



100% of electricity from **renewable** sources in **Brazil**



87% of electricity from renewable sources **globally**



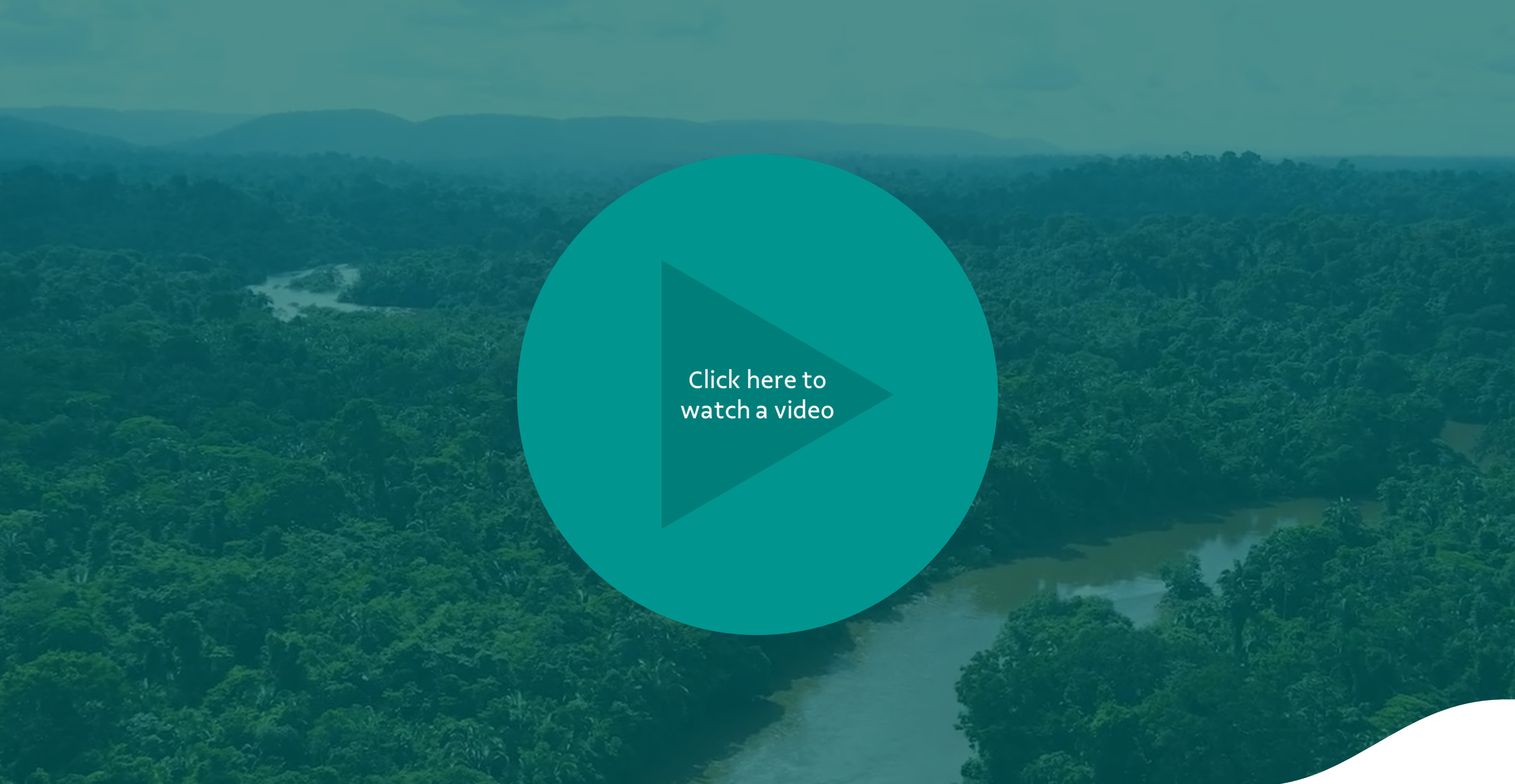
~20% of 2030 scopes 1 & 2 targets **delivered**²



Scope 3 target: transparent and measurable **carbon footprint**

The *Sol do Cerrado* solar project, with investments of ~US\$ 590 million: renewable energy to meet 16% of Vale's estimated consumption by 2025

¹ Figures dated October 31, 2023. ² Already reduce 20% of scopes 1 and 2 emissions (target 30%) delivered through the usage of electricity from renewable sources and operational improvements.



Click here to
watch a video



Continuously improving our ESG rating

Vale's ESG rating

	2019	Today
Sustainalytics (the lower, the better)	54.5	35.3
ISS Governance (the lower, the better)	10	1
MSCI (AAA highest / CCC lowest)	CCC	B
DJSI¹ (the higher, the better)	45	51 ²
Moody's (the lower, the better)	NA	CIS-2 ³

¹ Dow Jones Sustainability Index World. Also known as CSA (S&P Global's Corporate Sustainability Assessment). ² The score based on standard requirements was 76. The final score considers a reduction of ~25 due to adjusted weights of controversies such as Brumadinho and Mariana. ³ Neutral-to-low rating, improved in comparison to 2021 (highly negative or CIS-4).

Key levers

to unlock value through 2026



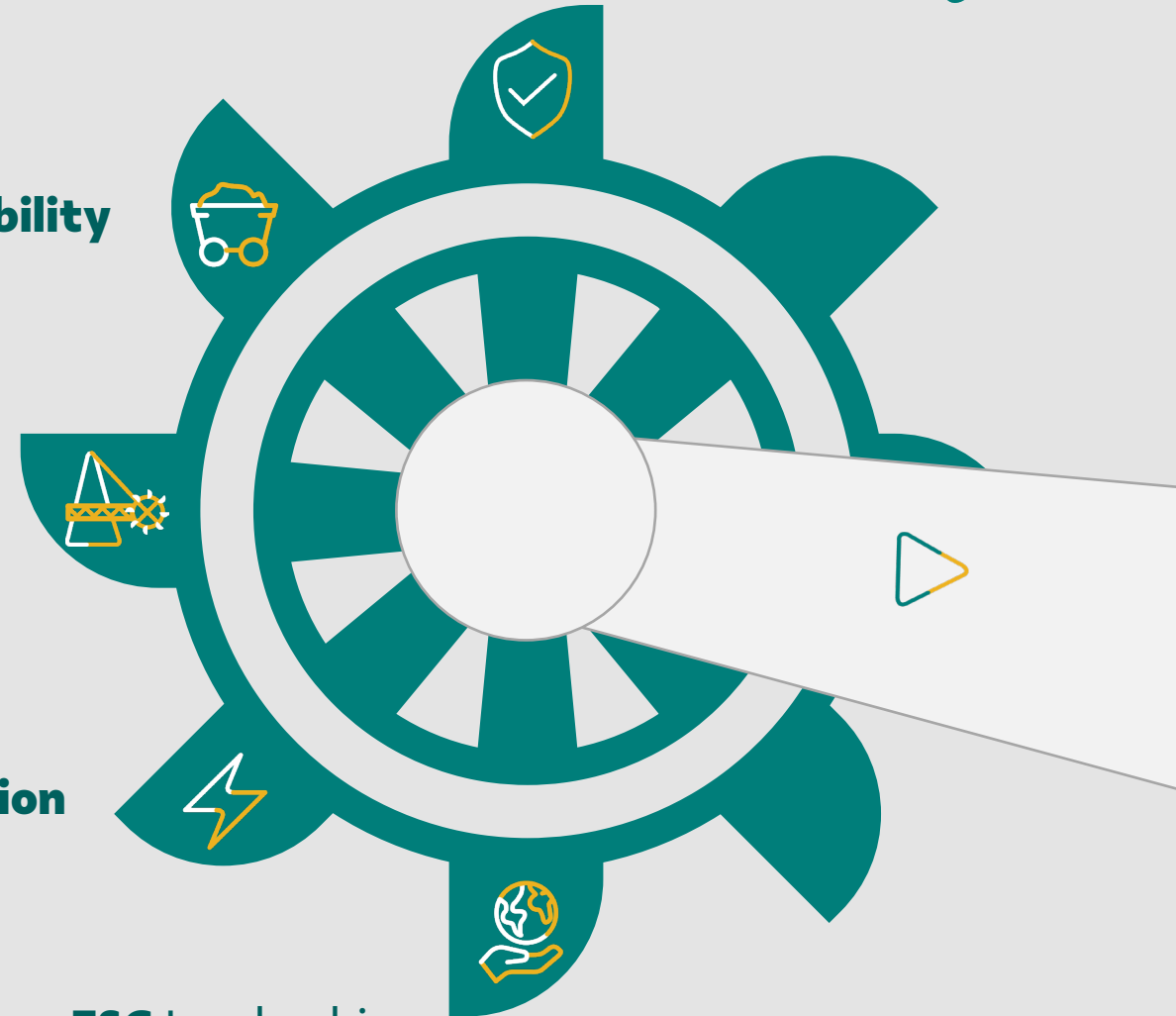
Iron Ore Operational **Stability**

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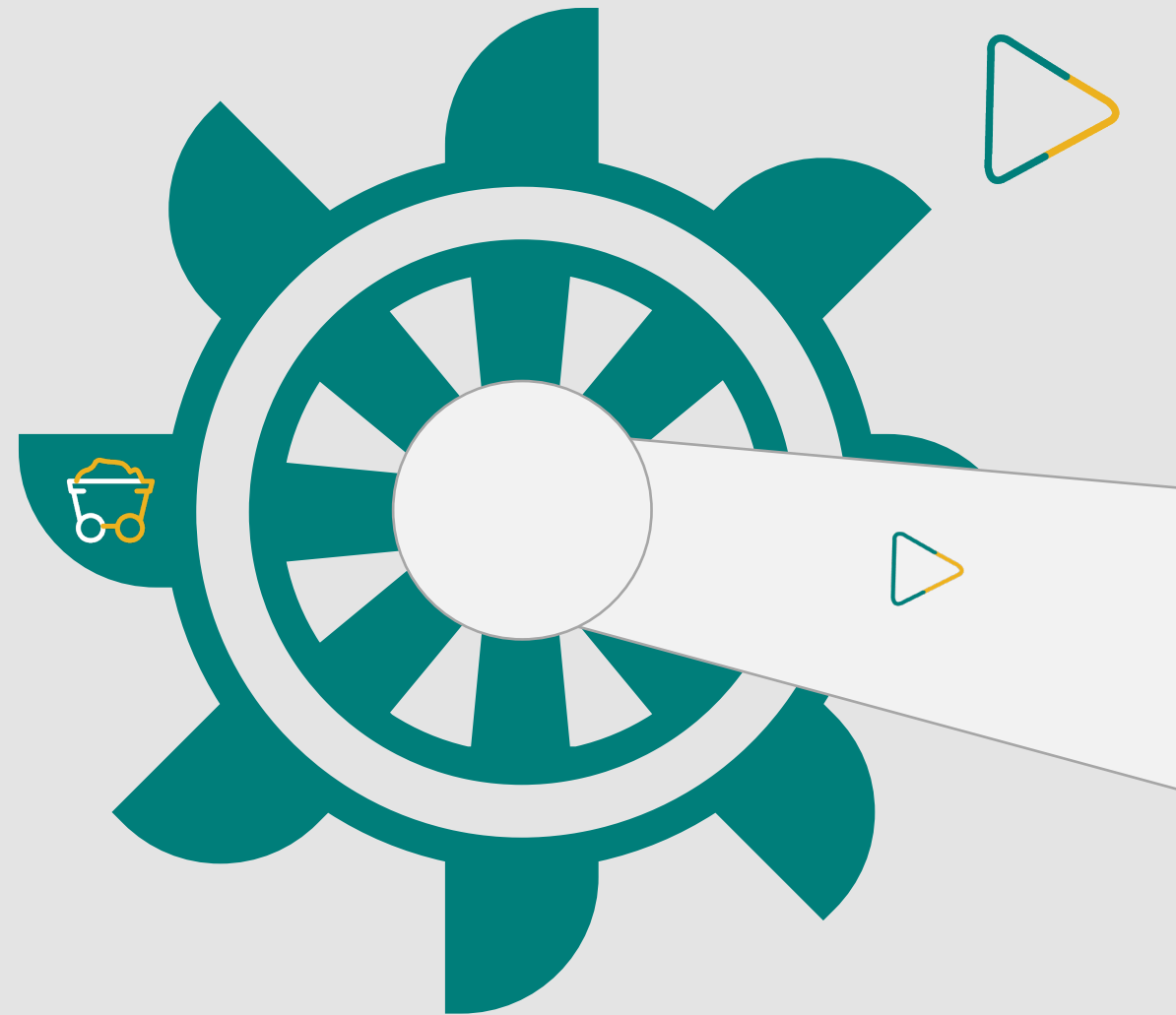
Key levers

to unlock value through 2026



Iron Ore Operational **Stability**

Carlos Medeiros





Operational excellence is paramount to unlock value and support efficient growth



Safety

Elevating the safety mindset as the cornerstone of excellence



Asset reliability

Identifying and monitoring deviations to enhance asset reliability



Operational models

Implementing tailored solutions to improve efficiency in critical sites

Our approach to building a performance culture



Operational excellence is paramount to unlock value and support efficient growth



Safety

Elevating the safety mindset as the cornerstone of excellence



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Implementing tailored solutions to improve efficiency in critical sites

Our approach to building a performance culture

Safety is the basis of operational excellence



Maintenance workshop:
standardized environments
toward operational excellence

Pelletizing Central Maintenance Workshop,
Tubarão, Espírito Santo, Brazil

14 times more N3¹
records vs. 2022

81% already addressed

5S Implementation²

**~19,000 stations in operation and
99% with improved work conditions**

72%

**Fewer process safety events³ vs. 2022
through preventive actions and critical
controls integrity**

¹ 10M23 figures compared with 2022. N3 events measure the number of first-aid injuries and events with no potential loss. By registering them, Vale learns and carries out preventive actions to avoid N1 and N2 events. ² Part of the Vale's Management Model (VPS), the purpose of 5S is to guarantee safe and healthy working conditions. ³ 10M23 figures compared with 2022. Process safety events that generate an unplanned or uncontrolled release of hazardous energy or material involving equipment or operating assets.



Operational excellence is paramount to unlock value and support efficient growth



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Implementing tailored solutions to improve efficiency in critical sites

Our approach to building a performance culture

Integrated monitoring supports early identification of failure risks...

Asset Monitoring Center (AMC)

-  **16** centers, covering mine-plant and logistics operations
-  **+290k** monitoring points
-  **Decision-making** with a holistic view, integrating operations
-  **Processes, people** and **technology** as the main pillars

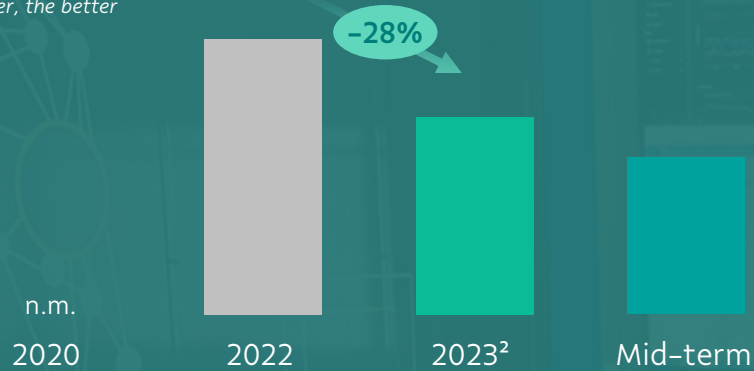


Asset Monitoring Center (AMC)
Serra Norte Plant, PA, Brazil

...resulting in increased reliability of critical assets

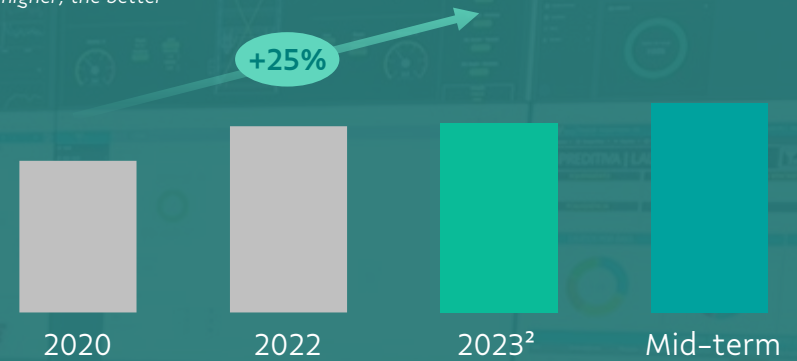
Corrective maintenance ratio¹ – Ferrous operations

The lower, the better



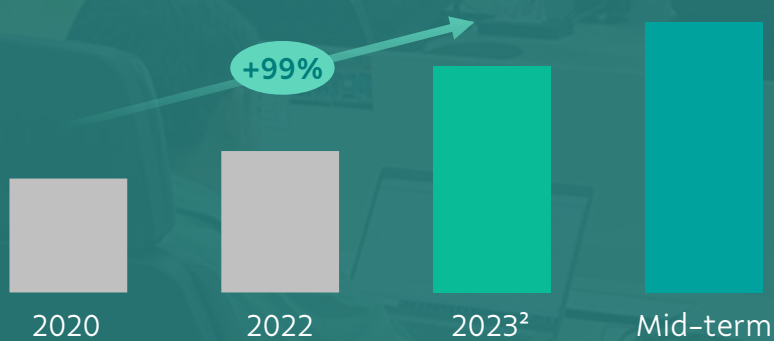
Mean Time Between Failure – Itabira mining fleet

The higher, the better



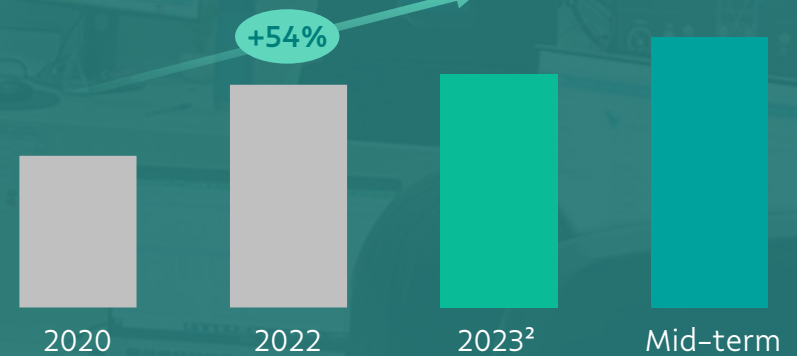
Mean Time Between Failure – S11D truckless system

The higher, the better



Km per failure³ – Vitória-Minas Railway

The higher, the better



¹ Also known as CMR, the indicator is the relation between work-hours dedicated to unplanned activities vs. total work-hours as indicated by the maintenance control center. ² 10M23 figures. ³ Km per failure is the relation between kilometers traveled by the train between failures.



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Our approach to building a performance culture

Brucutu mine: reaching higher utilization after autonomous trucks implementation



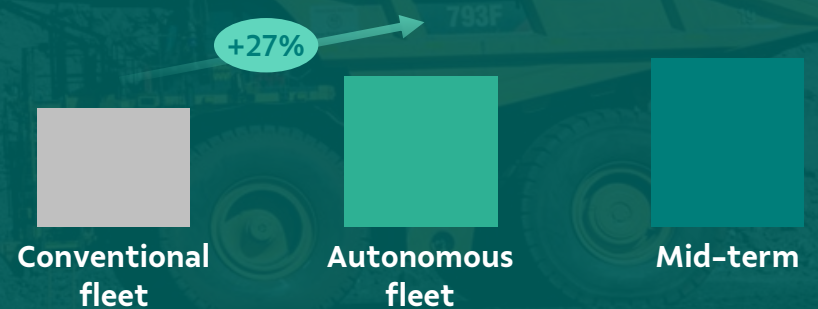
Autonomous mine – Brucutu:

▶ **Operation start-up** in July 2019

🚛 **18** trucks

✓ **Improved mining operational performance**

Asset utilization rate¹ (%)







Best performance award:
Ranked among the world's top performers

¹ Asset utilization rate represents the percentage of hours the asset has been in operation.

S11D: refining operational model to enhance performance

What are we doing to improve?

- 
Enhancing orebody predictability
 through short-term drilling sample analysis
- 
Adjusting blasting strategy
 for better operational efficiency
- 
Implementing a hybrid approach •
 combining the original truckless system and mobile mining fleet
- 
Installing new crushers
 to better handle the orebody with the occurrence of compact material

Hybrid mining approach

Asset utilization rate (%)¹:



- 
 Better control over stripping ratio² variations
- 
 Increased ROM availability
- 
 Enhanced mining selectivity and mine blend quality control

Ponta da Madeira Port: securing overall operational stability



Shipping

Upgrading the fleet with larger vessels



Yard management

Slow moving SKUs¹ removal



Stockpiles

Geometry adjustments and improved drainage systems to increase loading rate



Maintenance

Reviewed strategy to leverage equipment reliability



Total Moisture Limit (TML) predictability

AI predictive models

Mean Time Between Failure – Loading equipment Ponta da Madeira Port



Historical record

Highest discharging effectiveness rate since 2018, achieved in Oct 2023

Stepping into 2024 with a firm belief in the operational stability and excellence of our business

Reducing impact of rainy season in our production plan:

Non-exhaustive



- Enhanced de-watering plan, in line with the mining plan
- Increased ore extraction at the top of the pit
- Installation of lightning detection system



- Enhancement and upkeep of railway slopes
- Drainage channel maintenance
- Flooding prevention measures



- Low moisture ore stock for blending in wet season
- Storage yards with forced drainage system
- Storage yards expansion

Key levers

to unlock value through 2026



Iron Ore Operational **Stability**

Iron Ore **Growth** and **Quality**

Energy Transition Metals **Transformation**

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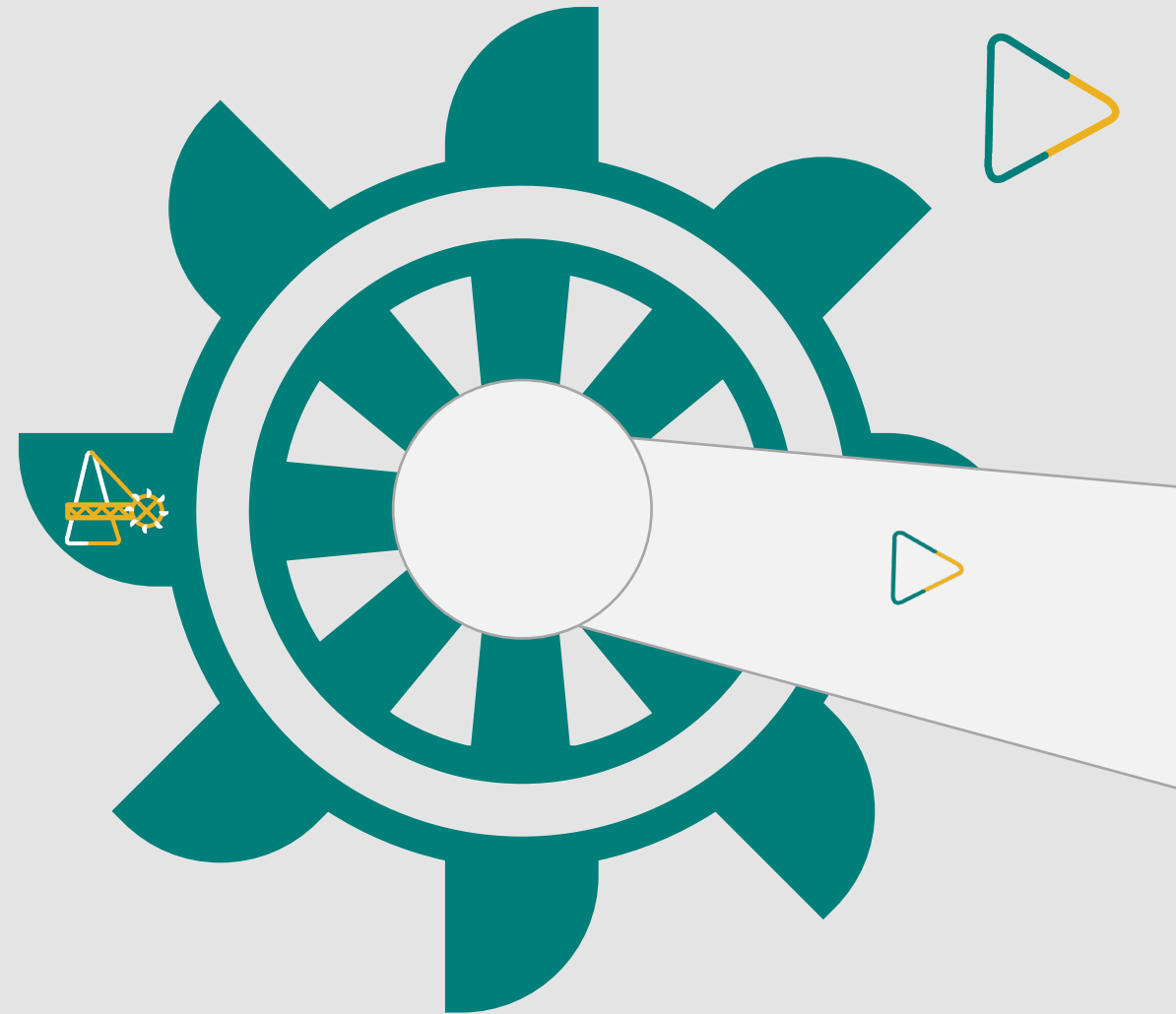
Key levers

to unlock value through 2026



Iron Ore **Growth and Quality**

Marcello Spinelli



Iron Ore Growth and Quality



Elements that are driving the demand



Our unique attributes



4 main initiatives of Iron Ore Solutions



S11D, Pará, Brazil



Steel production continues to march up globally

Main drivers for steel demand

Structural drivers



Population and economic growth



Urbanization and higher steel intensity

Decarbonization drivers

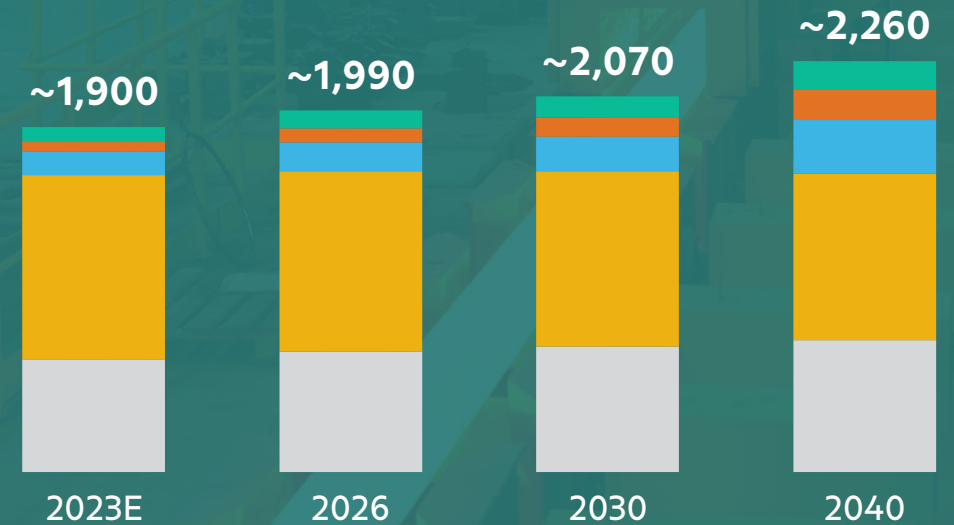


Energy transition



Reshoring

Steel production by region (Mt)

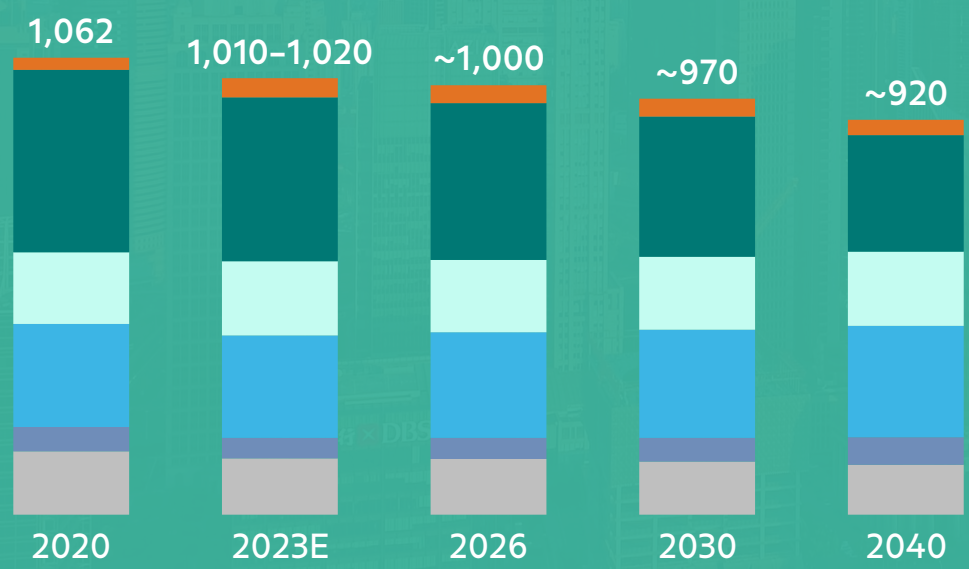


Steel demand supported by China's resilient economic growth...



Structural drivers

China's steel production (Mt)



Small-scale stimulus supporting construction

- Urban village renovation campaign
- Total construction only down 2.6% in 9M23²



Emergence of a new Chinese industry

- Rapid growth in new energy related sectors
- Continued manufacturing upgrading
- Strong indirect export of steel (e.g. EVs, machinery)



Supportive fundamentals into 2024

- High BF utilization (~90%) and low inventories
- Limited scrap, increased flat steel production

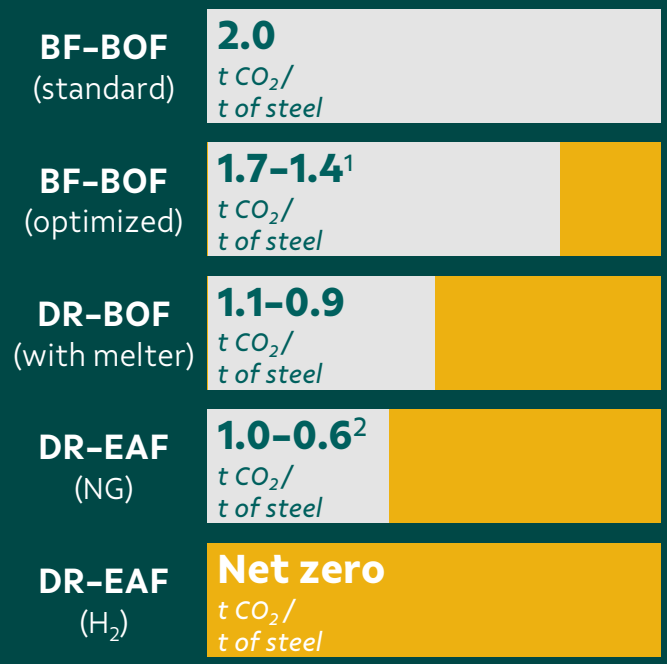
¹ Including steel inventories changes. ² Vs. 9M22, according to the Ministry of Housing and Urban-Rural Development (MOHURD) data.



...while decarbonization shifts steel and iron ore demand profiles in the long-term

The steel industry will most likely decarbonize in steps

Steelmaking emissions



Increasing energy costs



Step 1: Operational efficiency

Up to 15% CO₂ reduction

- Burden mix optimization with high-quality ores
- Energy optimization
- Increased scrap usage



Step 2: New technologies (excluding green H₂)

15-60% CO₂ reduction

- Low carbon fuels & enhanced O₂ in BF
- CCS adoption



Step 3: 100% green H₂

60-100% CO₂ reduction

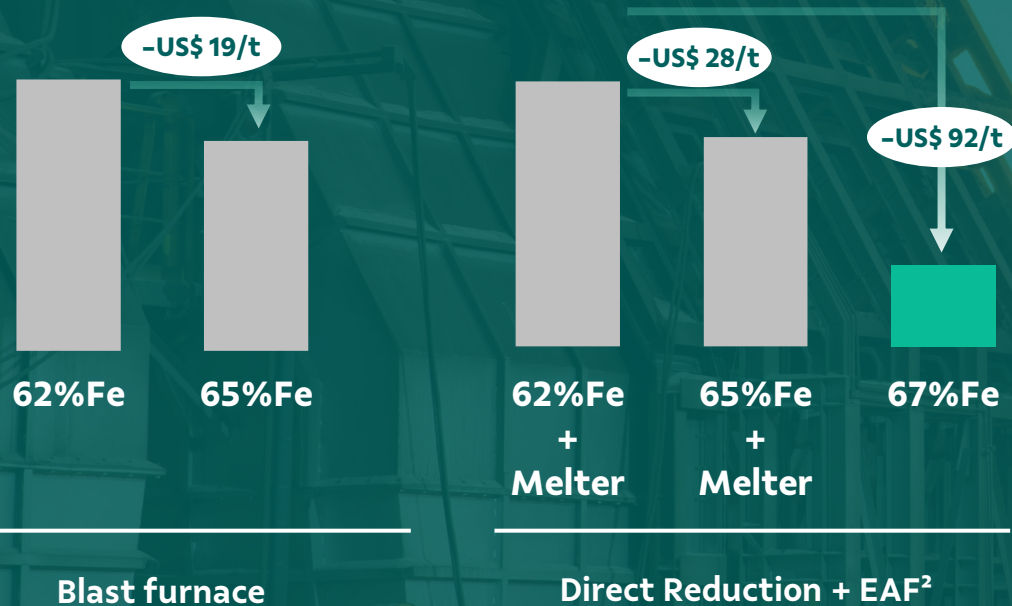
- H₂ + DR route

¹Considering increased O₂ utilization in blast furnace in the best scenario. ²Considering Carbon Capture and Storage (CCS) in the best scenario.

Exploring multiple decarbonization solutions drives demand segmentation...

High-quality ore demonstrates superior operational and cost efficiency for producers

Metallic conversion costs (US\$/t of metallic)¹ Pig Iron HBI²



¹ Assumptions: Steel margins = US\$ 0/t; CO₂ price = US\$ 100/t; Coke price = US\$ 350/t; Natural gas price = US\$ 3.2/MMBtu; Electricity price = US\$ 35/MWh; Iron ore price = US\$ 75/t. Not including premium differentials between iron ore products. Including direct reduction furnace and melter assets capital cost intensity. Assuming unconstrained supply for iron ore products. ² Considering the production of solid pig iron and HBI for usage in EAF. Including value in use (VIU) adjust to compare with pig iron in an EAF. Including conversion costs and investment capital charge.

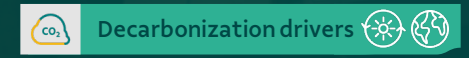


CO₂ Decarbonization drivers



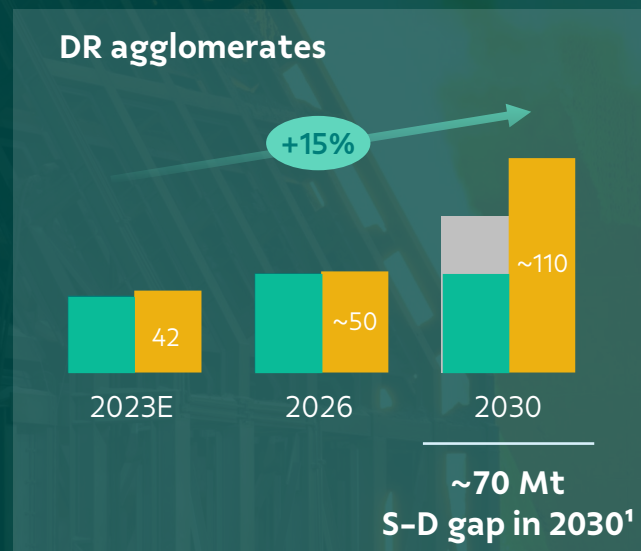
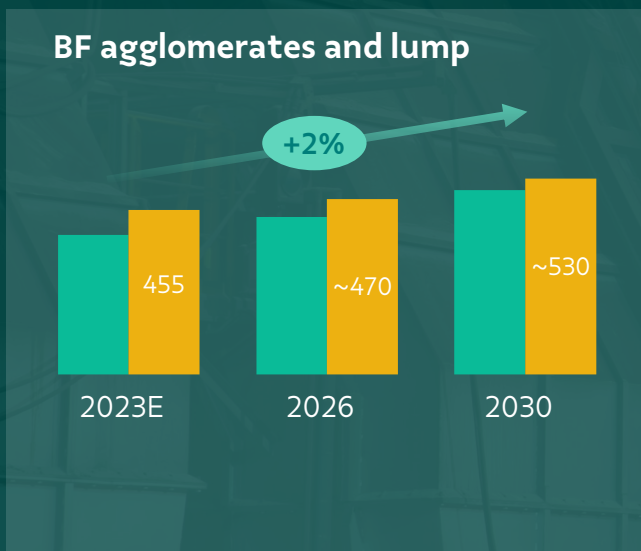


...and Vale has the credentials to support the transition to net-zero steelmaking by closing the supply gap



Seaborne iron ore supply-demand (Mt)

■ Supply
 ■ Demand
 +2% CAGR
 Vale's new initiatives to close the supply-demand gap



Our main differentials:



High iron content reserves

Carajás basin has 6 Bt in reserves with ~66% Fe and low impurities



Ores suitable to beneficiation

Beneficiation economically viable: good metallic recovery
Low LOI² and high-density differentials as advantages



Core competences in beneficiation methods

Processing and agglomeration capacity operated for decades



Building a customer-centric Iron Ore Solutions company

Repositioning our product portfolio to leverage on increasing premiums:



Mega Hubs

Redesigning the steelmaking supply chain



Agglomerates

Enabling the transition to low carbon emission routes



High-quality production growth

Increasing operating reliability and flexibility



Concentration

Lifting the constraints to high-quality feedstock supply





[Click here to watch a video](#)

Forging partnerships to start Mega Hubs construction in 2024-25...

2022

Agreements signed with local authorities in the Middle East

2023

MoUs and land lease agreements signed in the Middle East

Development studies in Brazil and US

2024

Expected signing of the first binding agreement by 1H24

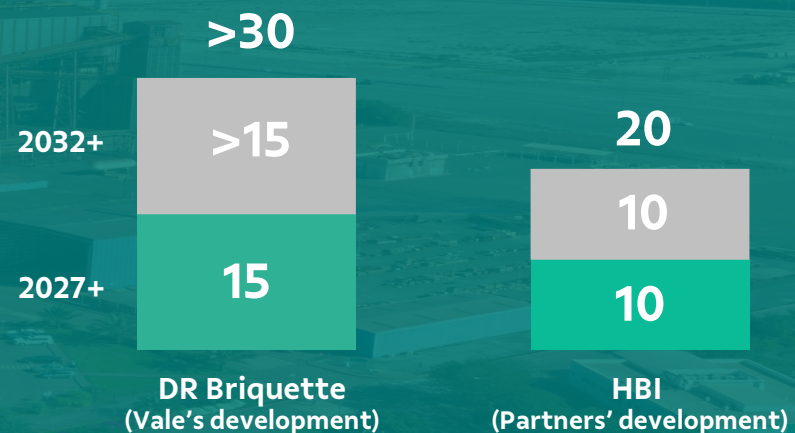
2027

Start-up of the first Mega Hub in the Middle East



Sohar, Oman

Volumes (Mt, preliminary estimates)



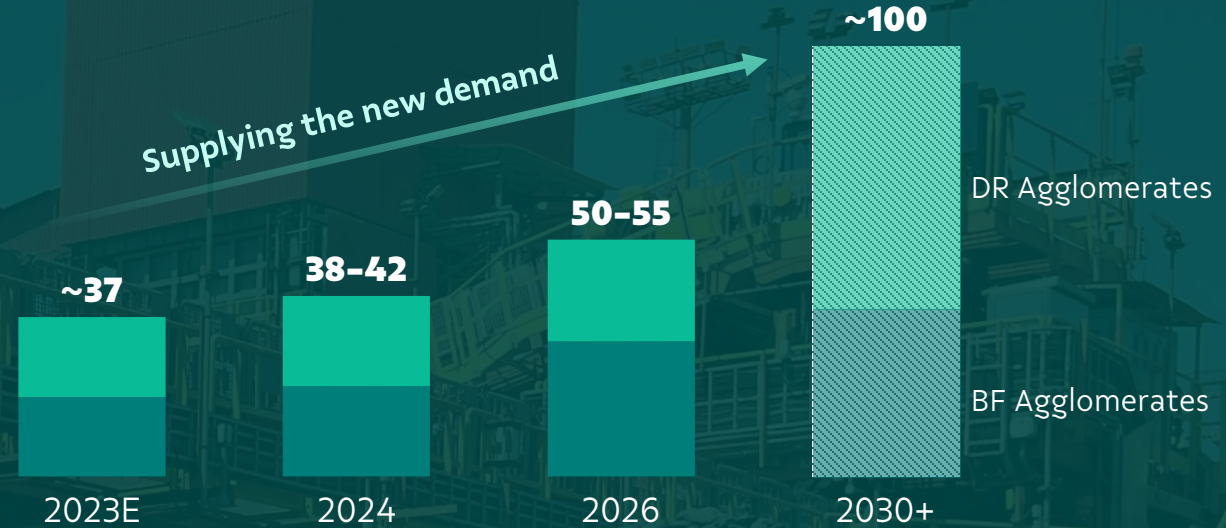
...and reshaping our portfolio for a more tailored product offering



Tubarão Plant, Espírito Santo, Brazil

Pellets and briquettes production (Mt)

Supplying the new demand




The economics of iron ore briquettes

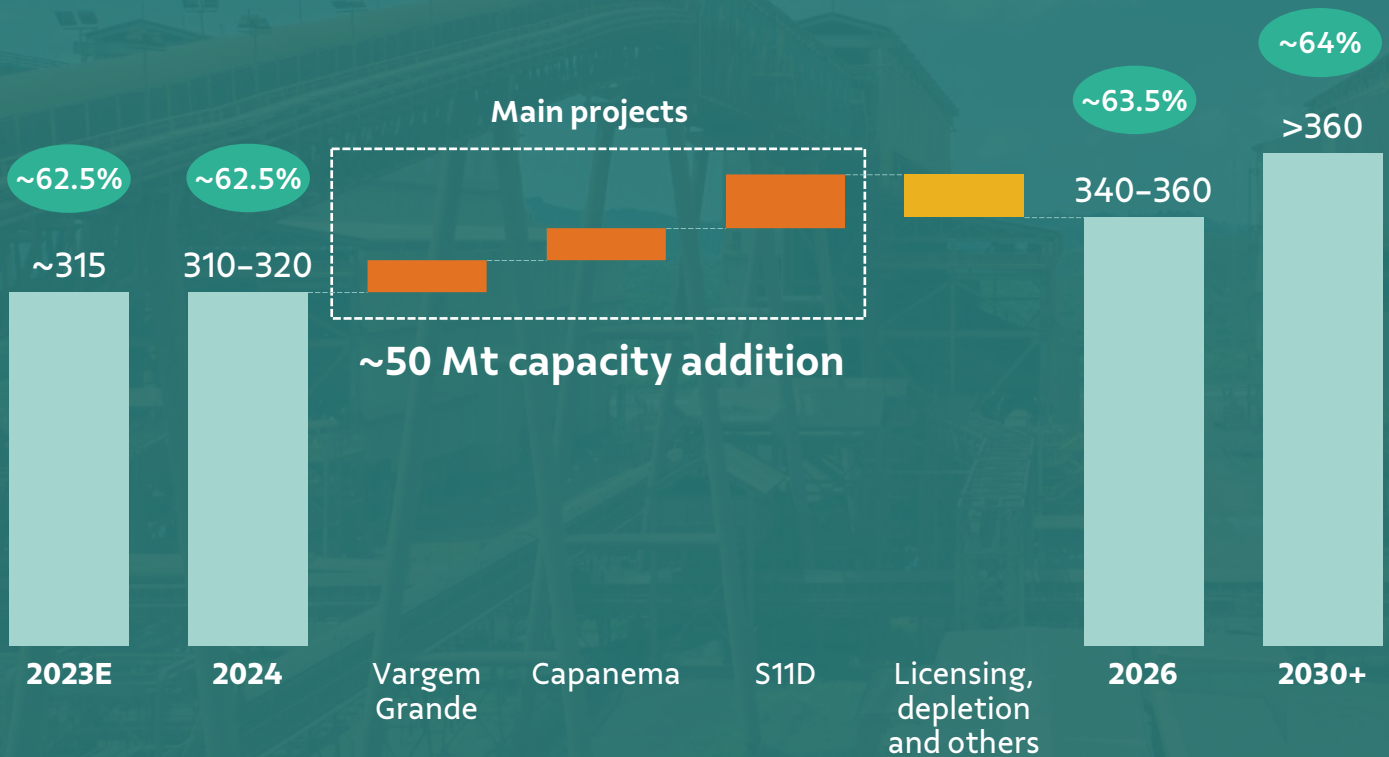
- Similar VIU to pellets
- ~50% lower costs vs pelletizing¹
- ~66% lower capital intensity²
- 80% less CO₂ emissions²

¹ Tubarão 1 & 2 briquettes plants estimated transformation costs of US\$ 10-15/t, after full ramp-up.
² Preliminary comparison considering pelletizing scopes 1 and 2 emissions.

On track to reach 340–360 Mt with an improved portfolio by 2026

Iron ore production (Mt)

 Average sales Fe content



Licensing
Preserving the baseline



Projects
Growing with low capex intensity (US\$ 45–60/t)



Quality
Ensuring higher quality portfolio

Progressing in licensing process to stabilize production baseline

Licensing challenges



Southeastern and Southern Systems
Significant regulatory changes after 2019



Northern System
Conservation of the biome supported by extensive studies

Public-private partnerships to advance

Minas Gerais Government

- Licenses granted doubled vs. 2022

ICMBio

- 8 collaboration agreements signed, totaling ~US\$ 50 million

What are we doing?



Advancing towards more sustainable operations



Investing in collaborative environmental studies →



Portfolio prioritization and active listening



Strategic projects to expand Iron Ore Solutions

+50 Mt capacity

2026 →

+15 Mt

Vargem Grande



4Q24

+15 Mt

Capanema



2H25

+20 Mt

S11D



2H26

Vargem Grande



~15 Mt capacity addition



Physical Progress

Vargem Grande Complex

- Mines expansion licensing
- New screening circuit and improved handling system adequacy at VGR1 plant
- Start-up: 4Q24

Capanema



~15 Mt capacity addition



Physical Progress

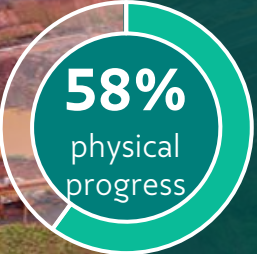
Capanema Maximization

- Sinter feed production using natural moisture processing
- Increasing operational flexibility of Timbopeba
- Start-up: 1H25

S11D

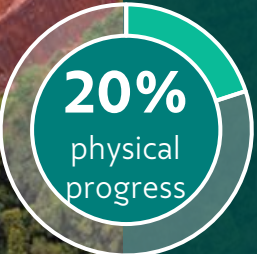


~20 Mt capacity addition



Serra Sul

- Mine-plant capacity to increase by 20 Mtpy
- Conveyor belt duplication
- Start-up: 2H26



Compact Crushing

- New crushing plant for jaspilite waste
- Potential to debottleneck 50 Mtpy capacity
- Start-up: 2H26



Lifting constraints to ensure high-quality feedstock supply

Vale's concentration solutions

Tailings filtration



Dry concentration



Third-party concentration facilities



IOCJ ore concentration & solutions



Sohar concentration





Vale's concentration solutions

IOCJ ore concentration & solutions



- *Generate DR quality feed from IOCJ*
- *Pilot studies completed*
- *Economic feasibility studies ongoing*

Sohar concentration



- *Located next to Oman's pellet plant*
- *Asset-light partnership*
- *12-15 Mtpy of concentrate (FID¹ expected for 2024)*



Adding high-quality capacity to capture higher premiums



Decarbonization is creating a segmented iron ore market, with a growing high-quality demand



Customer-centric approach and carbon footprint transparency for product differentiation

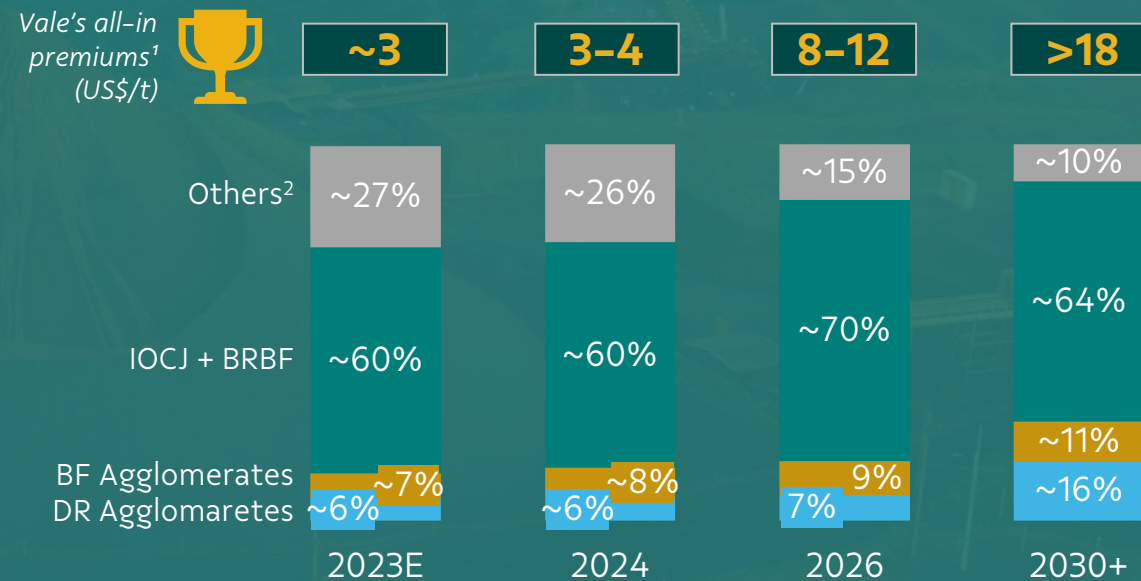


Optimized and diversified portfolio to supply different geographies and technologies



Iron Ore Solutions will create substantial value to clients, society and shareholders

Vale's product portfolio (%)



Key levers

to unlock value through 2026



Iron Ore Operational **Stability**

Iron Ore **Growth** and **Quality**

Energy **Transition** Metals Transformation



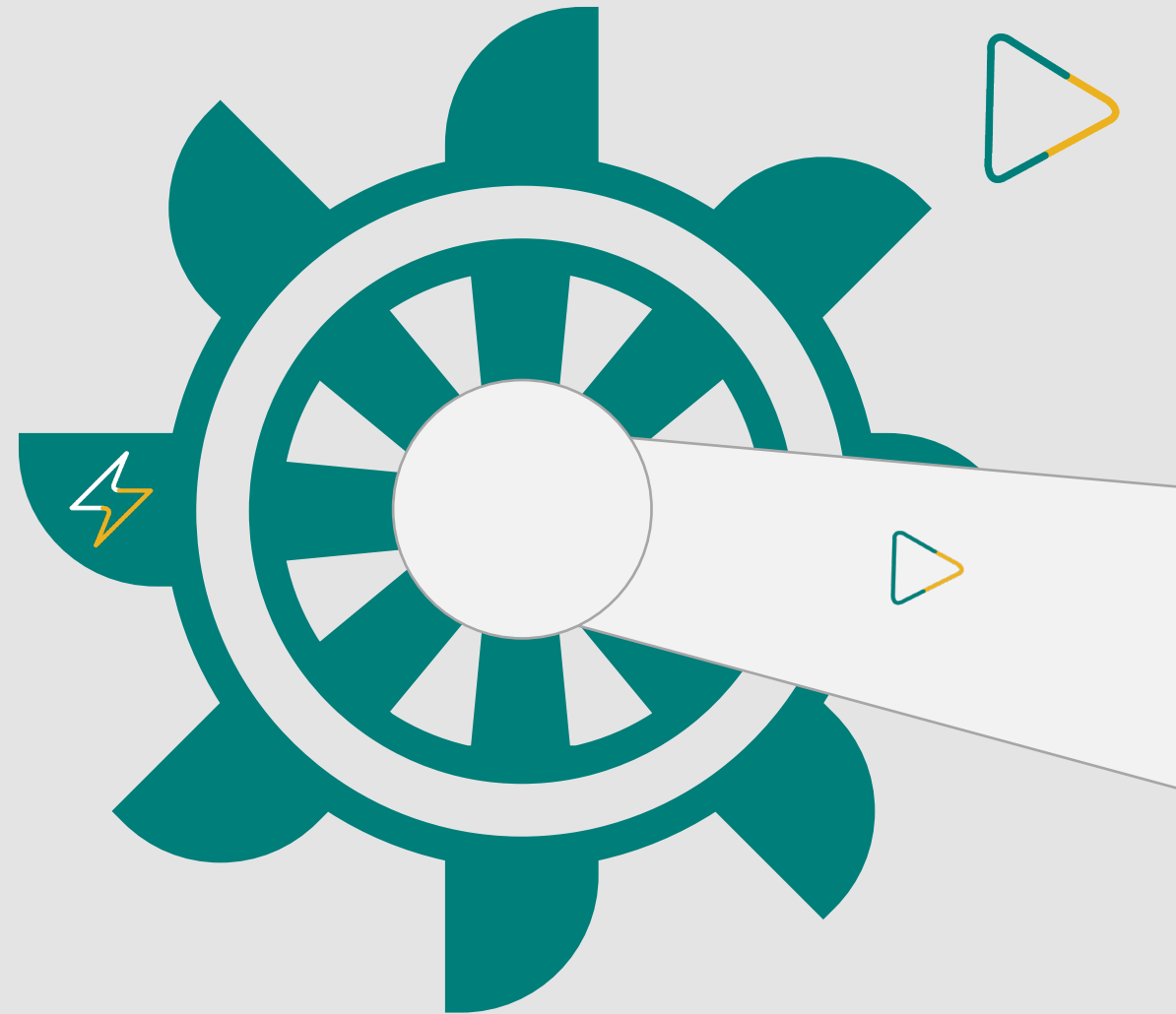
Key levers

to unlock value through 2026



Energy Transition Metals **Transformation**

Deshnee Naidoo
Mark Cutifani



Long-term fundamentals remain solid

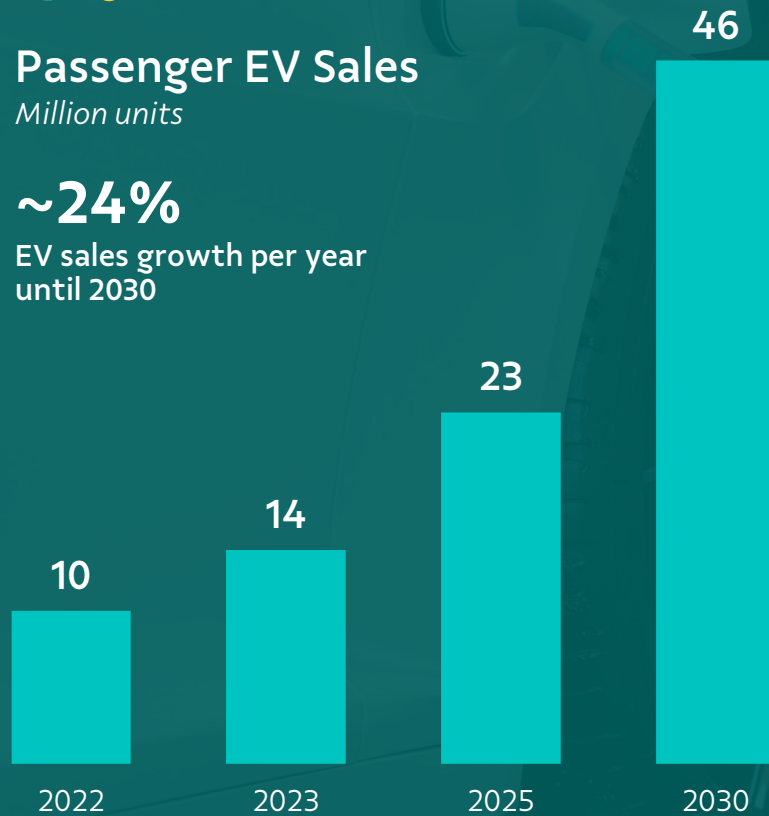


Passenger EV Sales

Million units

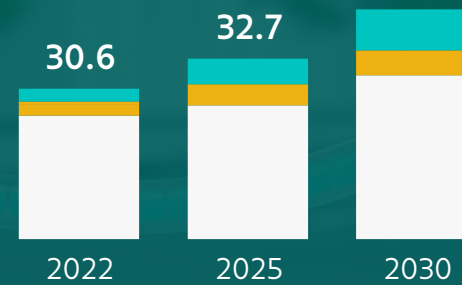
~24%

EV sales growth per year until 2030



Cu Copper demand

Mtpy



CAGR

~16%

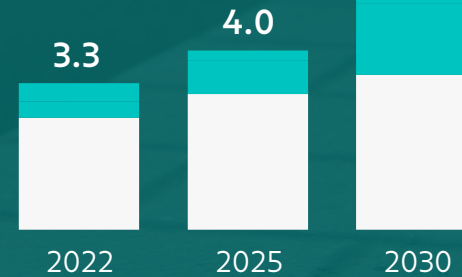
EV segment

~8%

Renewables

Ni Nickel demand

Mtpy



CAGR

~19%

EV segment



Setting up to succeed



Unique Attributes



Resources

Large and untapped resource base



Asset Base

Leading base metals producer in attractive jurisdictions



Growth

Robust project pipeline to extend and grow



ESG

Strong ESG credential to target next generation green applications

Dedicated Vehicle

Partnership with global **diversified investors**

Access to more **competitive capital**

Execution of the **long-term strategy**



On the right path



20 % TRIFR

improvement on

at 1.89, reflecting leadership in the field, critical risk management and critical control verification



>90%

Salobo I+II plant availability (+5% yoy)

\$370 million

bonus for 32Mtpy capacity achieved at Salobo

90%

of design capacity reached at Salobo III

12%

increased throughput at Sossego plant after maintenances



21%

increase in mine development in Sudbury

Approval

of the Pomalaa mine project (120 ktpy)

90%

VBME project physical completion

Heads of Agreement

signed on PTVI

Clydach Refinery, UK

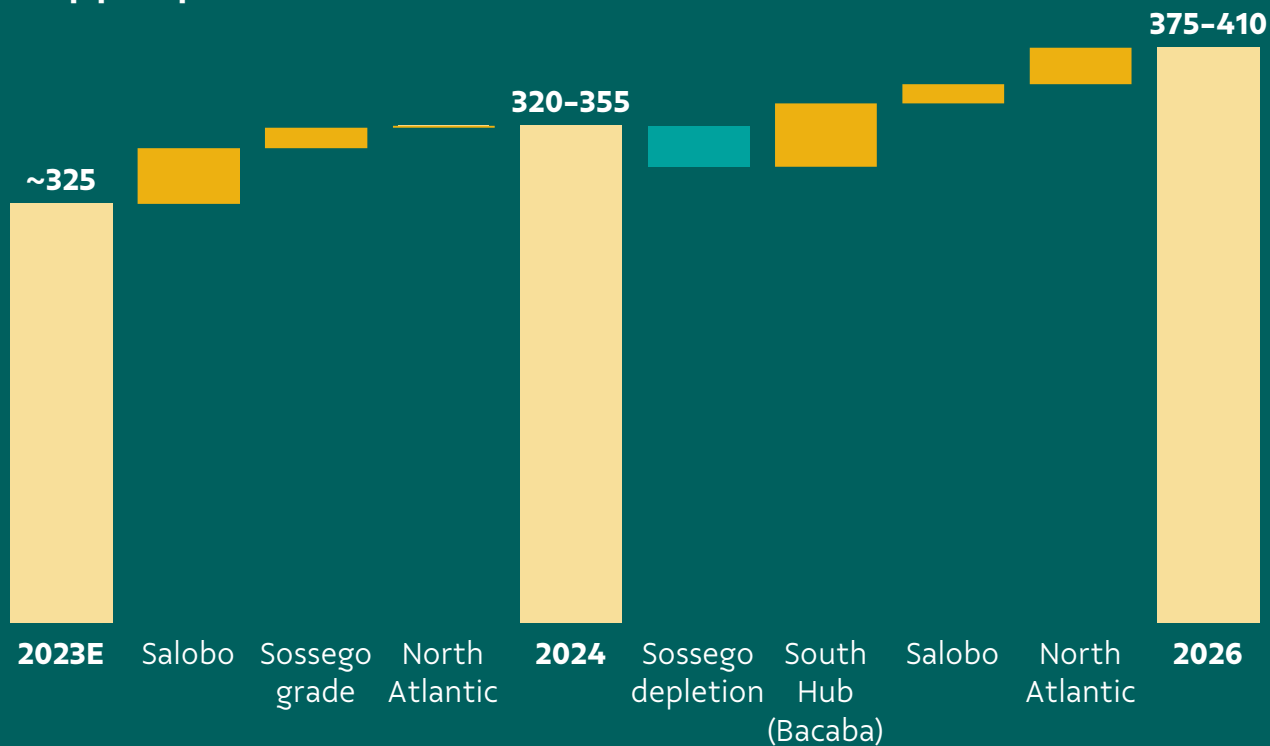




Significant copper production growth



Copper production (kt)



Salobo III plant

Salobo

Ramp-up to full production at Salobo 3

Recovery plan for plants 1 and 2



Sossego plant

South Hub

Mining of higher-grade zones in 2024

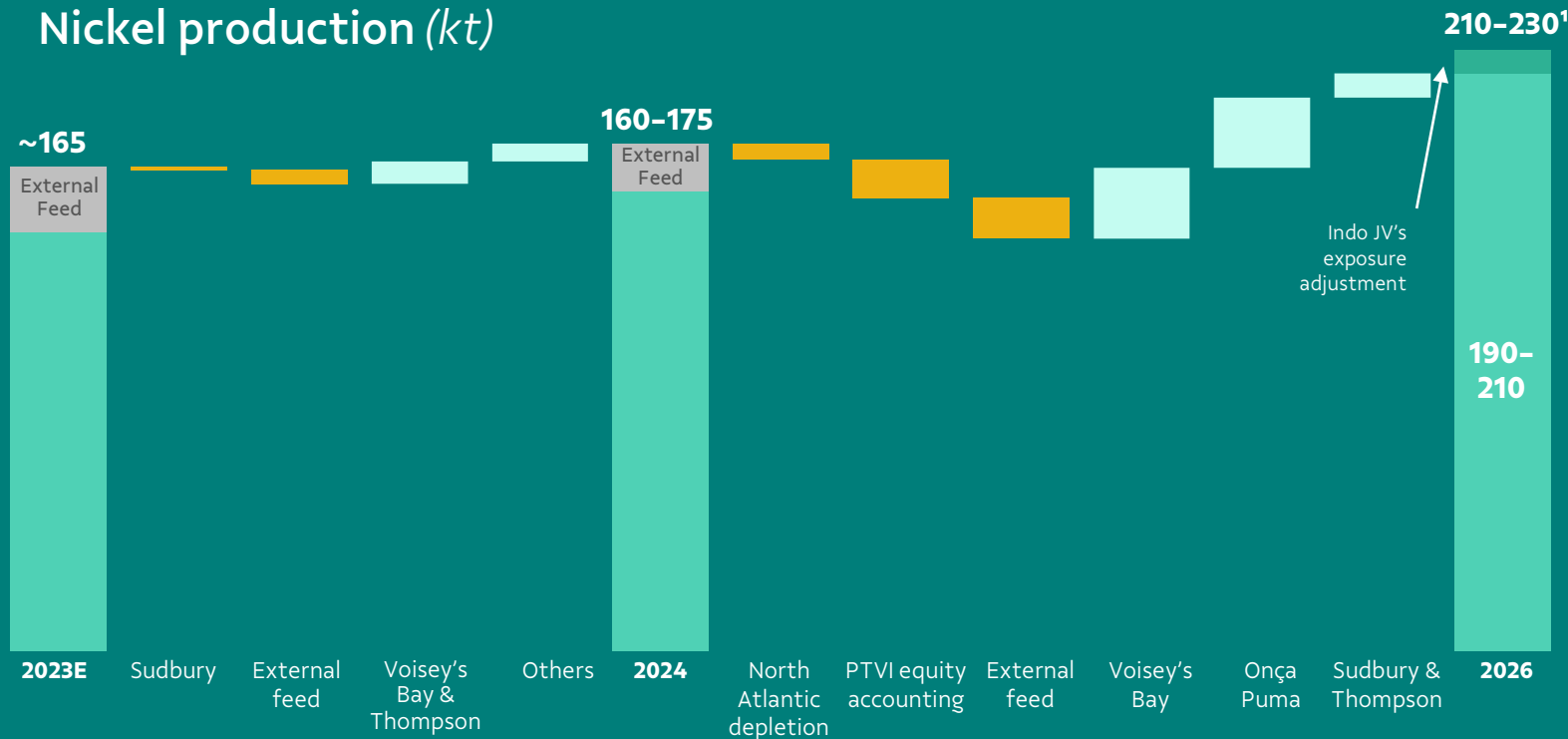
Bacaba project to offset Sossego depletion



Nickel production on the way up



Nickel production (kt)



Underground mine in Sudbury

North Atlantic

VBME Project full ramp-up by 2026

Increased mine output in Sudbury



Onça Puma plant

Onça Puma

Furnace # 1 revamp by 1Q24

2nd furnace start-up in the 2H25

¹Including indirect exposure to Indonesian JV's nickel production. It reflects PTVI's 49% share on Bahodopi NPI production and the payable nickel in ore for Pomalaa and Sorowako, which are wholly owned by PTVI



The upcoming years will be crucial for transitioning to a new phase...

Operational efficiency/ ramp-up Replacement Growth

South Atlantic

Salobo

Cu

- 1Q24** Plants I&I recovery plan completion
- 4Q24** Salobo 3 full ramp-up (+30-40 ktpy)

Sossego/ South Hub

- 2H26** Bacaba project start-up (60 ktpy)

Carajas Copper Growth

- 2029** Alemão project start-up (+60 ktpy)

Onça Puma

Ni

- 1Q24** Furnace #1 revamp completion
- 2H25** Onça Puma 2nd furnace start-up (+12-15 ktpy)

North Atlantic

Voisey's Bay transition

Ni Cu

- 2H24** Eastern Deeps main production start-up
- 2H26** VBME full ramp-up (45ktpy Ni)

Sudbury replacement capacity approval

- 2026** CCM Pit project start-up (12-15 ktpy Ni; 7-9ktpy Cu)
- 2027** Creighton phase 5 project start-up (~25 ktpy Ni; ~20 ktpy Cu)
- 2028** Victor project start-up (~25ktpy Cu;~5 ktpy Ni)

Indonesia

PTVI

Ni

- Ongoing** Definitive agreement on PTVI in 2024

JV's

- 2026** Bahodopi start-up (+73 ktpy Ni)¹
- 2026** Pomalaa start-up (+120 ktpy Ni)²
- 2027** Sorowako start-up (+60 ktpy Ni)³

Hu'u

- 2024** Project optimization
- 2025**

Asset review initiatives implementation

2024
2026



... allowing us to focus on our long-term ambition



+ LT volumes (2030+)

Cu	Ni
~900kt	>300kt





Asset review initial remarks





***We are not
there yet...***



Resource Endowment

Mining Methods

Asset Integrity

Flowsheet Optimization

Project Development



Identifying opportunities through a comprehensive asset review

Well-positioned to support and supply North America EV growth

A Tier 1 mining complex with growth optionality

Attractive exposure to Indonesia



Identifying opportunities through a comprehensive asset review

Global flowsheet

Opportunities for optimization



Canada

Balancing potential and mature assets

Carajás

Right potential in copper

Indonesia

Great assets for the future



Carajas: right potential in copper



Salobo I&II plants

Salobo

- Endowment & resource potential
- Operating practices
- Asset management
- Underground potential



Sossego plant

Sossego

- Endowment
- Satellites development
- Operating practices
- Underground potential



Future Alemão project area

Copper Growth

- Endowment
- Project management
- Alemão optimization



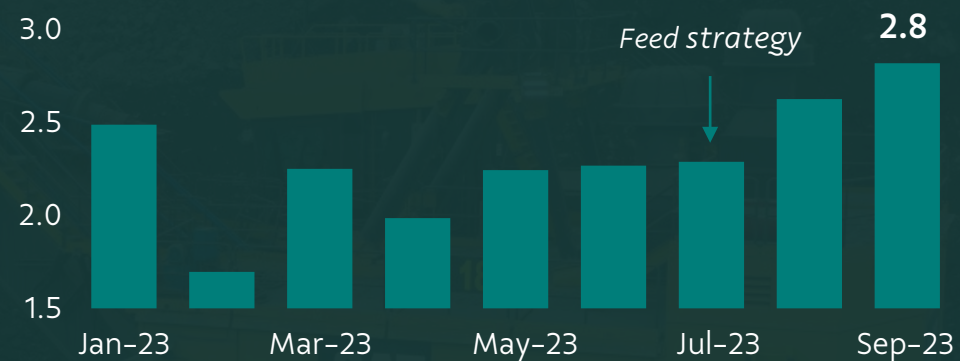
Salobo: improve performance through debottlenecking



Plants I&II

Plants I&II throughput improvement through implementation of feed strategy

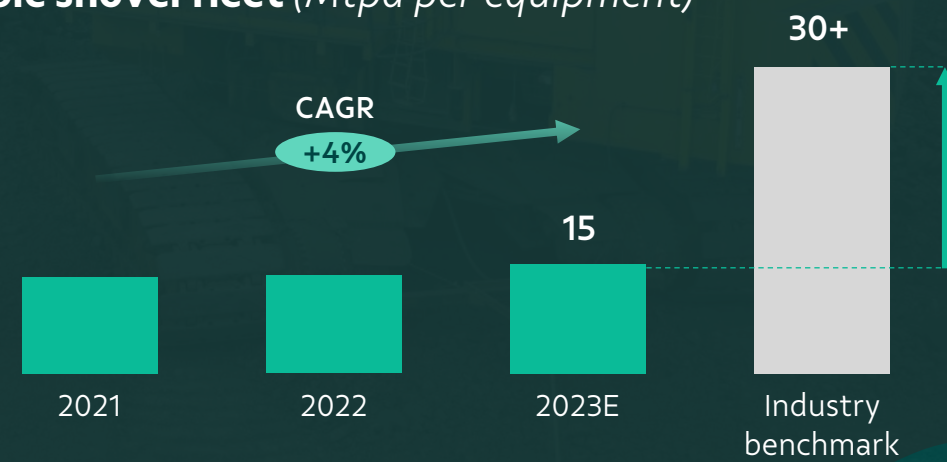
Plants I&II throughput (kt of ore per hour)



Mine

Ongoing work to improve mine productivity and critical equipment performance

Cable shovel fleet (Mtpa per equipment)





Canada: balancing potential and mature assets



Clarabelle mill

Sudbury

- Endowment potential
- Mine development
- Cut-off grade strategies
- Asset potential



Thompson mill

Thompson

- Endowment potential
- Ultramafic targets
- Processing options



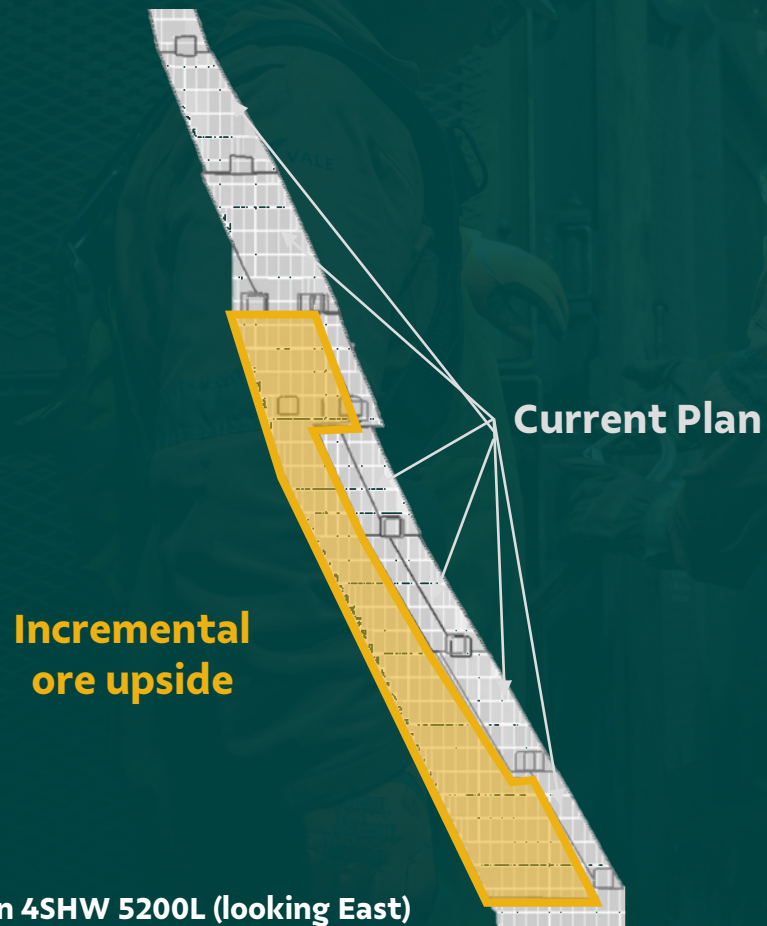
Voisey's Bay mine

Voisey's Bay

- Endowment potential
- Disseminated ore options
- Long Harbour feed options



Sudbury: opportunities to unlock mill feed through a bolder cut-off grade strategy



Garson mine example

- Lower-grade zones interspersed with zones within the cut-off limit
- 0.3% Ni reduction in Ni cut-off grade has the potential increase resources tonnage by 50%
- Opportunity to increase mill feed with low investment, using existing infrastructure



Indonesia: Great assets for the future



PTVI plant

Indonesia

- Endowment potential
- Operating practices
- Driving growth through resource value arbitrage





Global flowsheet: Opportunities for optimization

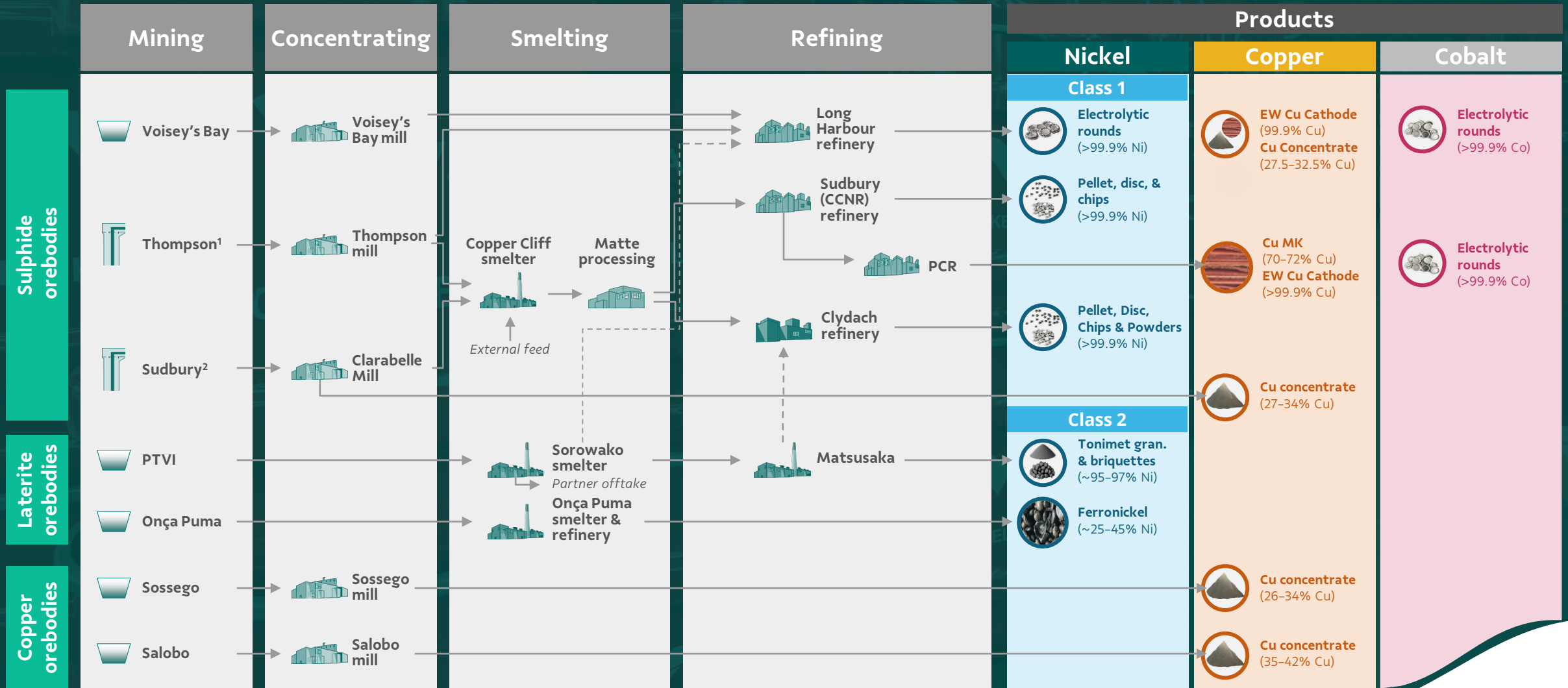
Global flowsheet

Opportunities for optimization





Global flowsheet: Opportunities for optimization





The pathway to value



Long-term demand resilience driven by energy transition

Unique opportunities from **resource endowment**

Right assets in the right jurisdictions

Strong foundation for achieving superior performance

A New Vehicle set to thrive

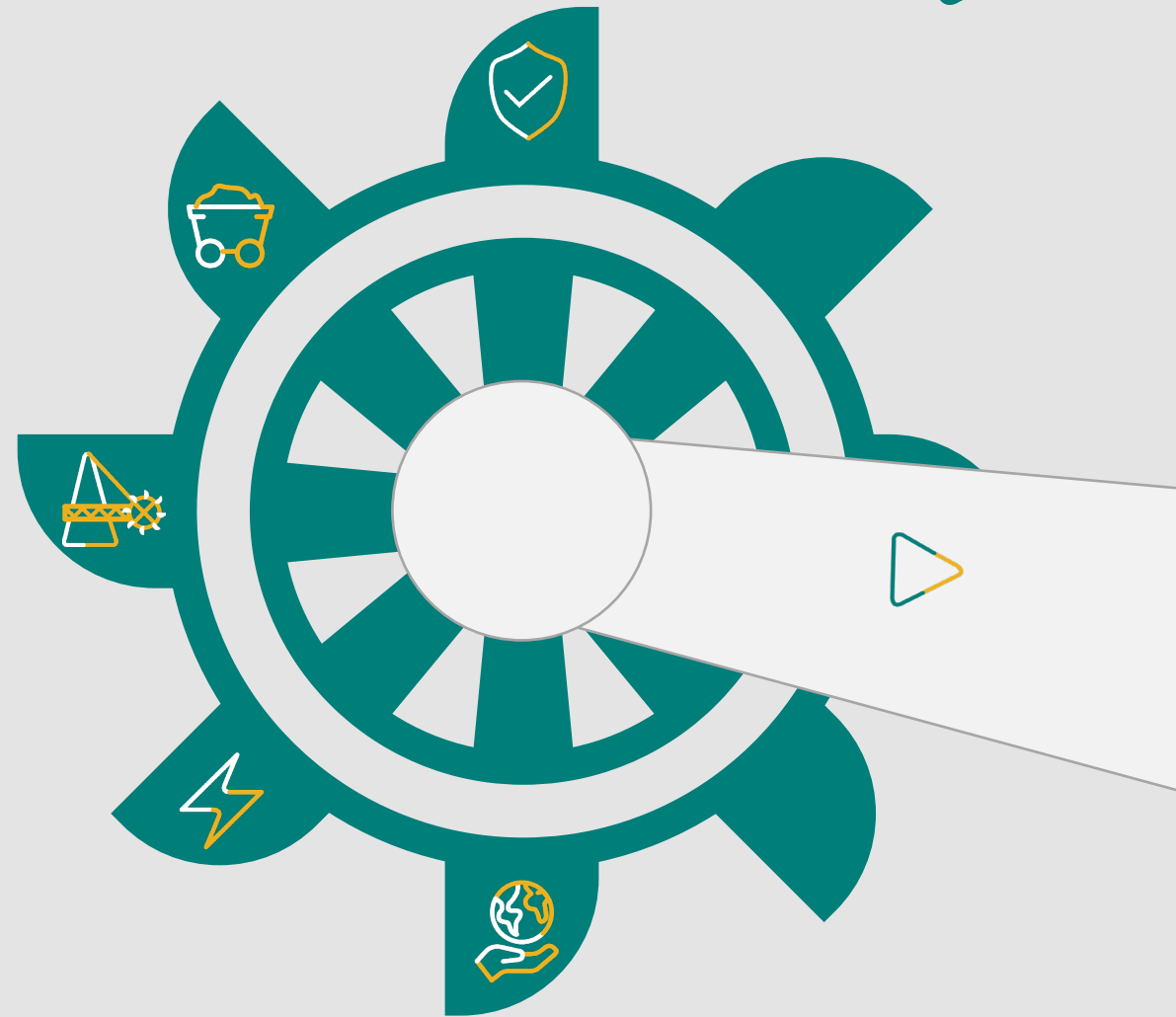
Key levers

to unlock value through 2026



Stay Disciplined

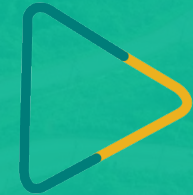
Gustavo Pimenta





Value drivers through 2026

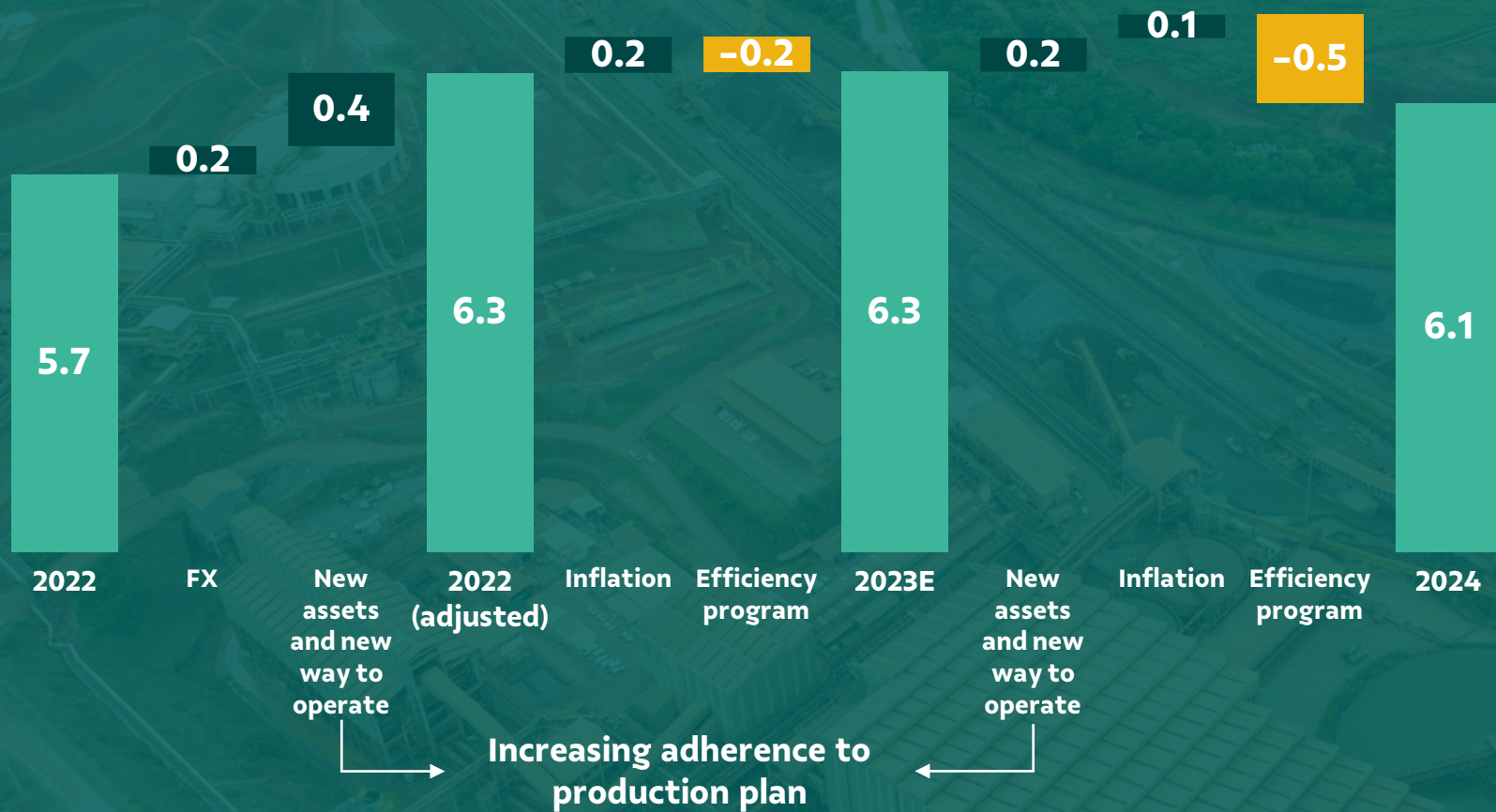
	<h2>Safety Journey</h2>	<ul style="list-style-type: none"> ■ No dam at level 3 by 2025 ■ Access to a broader investor base and indexes
	<h2>Iron Ore Operational Stability</h2>	<ul style="list-style-type: none"> ■ Secure 310–320 Mt baseline ■ Greater predictability, lower variability ■ Higher adherence to production plan: 95%, up from 90%
	<h2>Iron Ore Growth and Quality</h2>	<ul style="list-style-type: none"> ■ +50 Mt capacity with low capital intensity ■ C1 < \$20/t ■ Fe content: 63.5%, up from 62.5%
	<h2>Energy Transition Metals Transformation</h2>	<ul style="list-style-type: none"> ■ Asset review implementation ■ +70 kt copper and +55 kt nickel¹ production growth
	<h2>ESG Leadership (e.g. Reparation)</h2>	<ul style="list-style-type: none"> ■ Solid progress on reparation execution ■ Commitments down from current ~US\$ 3 bn to an average of US\$ 0.8 bn between 2026–2030





Delivering cost efficiency and offsetting inflationary effects

Fixed spending – Iron Ore Solutions (US\$ billion)



Cost Efficiency Program



Accelerated cost savings



Optimization of purchase specifications



Overhead efficiency



New volumes and efficiency program resulting in lower C1



Iron ore fines C1 cash cost – ex. 3rd-party purchase (US\$/t)¹



¹ Amounts in real terms



Competitive operations across all three businesses



All-in costs (US\$/t)¹

2023E

2024

2026

Main assumptions for 2026

		2023E	2024	2026
	Iron Ore	~56	53-57	~45
	Copper	~3,400	4,000 - 4,500	3,500 - 4,000
	Nickel	~16,200	14,500-16,000	11,500 - 13,500 ²

- C1 (< US\$ 20/t): with increased volumes and efficiency program
- Premium (US\$ 8-12/t): improved portfolio and steel margins

- Increased volume from Salobo diluting fixed costs
- Bacaba ramp-up in 2H26 and Sossego depletion

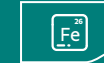
- Increased nickel & by-products production w/ VBME ramp-up
- Decrease in 3rd-party purchases

¹ Amounts in real terms. Before sustaining investments. ² Not considering the effects from the PTVI divestment.



Accretive projects, additional ~US\$ 4 bn in EBITDA¹

Project pipeline



Iron Ore



Nickel



Copper

2024–2026 (approved projects)

2027 onwards

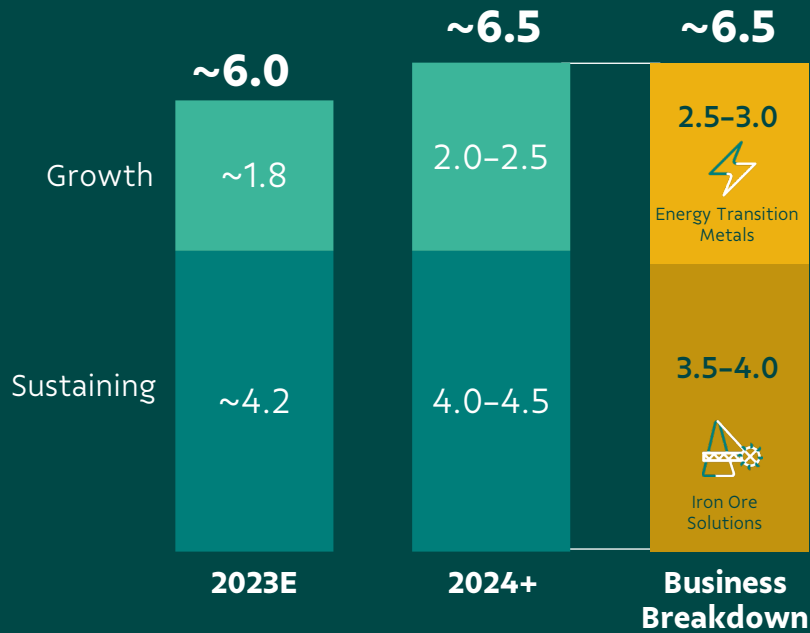
30+% Iron Ore Solutions IRR ¹ (weighted average)	Serra Sul 20 Mtpy	Capanema 15 Mtpy	VGR1 revamp 15 Mtpy (sustaining)	Serra Leste expansion	New briquette plants	S11C
	Briquettes Tubarão 6 Mtpy	Compact crushing 50 Mtpy (sustaining)	N3 6 Mtpy (sustaining)	Mega Hubs	N1/N2	South Hub expansion
	Onça Puma 2nd furnace 12–15 Mtpy	VBME 45 ktpy (sustaining)		Hu'u	Victor	North Hub
15+% ETM IRR ¹ (weighted average)	Bahodopi² 70 ktpy	Pomalaa² 120 ktpy		Sorowako Limonite	Creighton PH5	CCM Pit





Controlled CAPEX in the coming years

CAPEX (US\$ bn)¹



Controlled and efficient capex to sustain production



Low carbon agenda initiatives



Accretive growth opportunities

Brucutu Site, Minas Gerais, Brazil



¹ Amounts in real terms



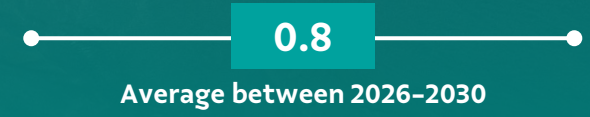
Performing on our commitments



Doce River, Minas Gerais, Brazil

Brumadinho & Mariana commitments (US\$ billion)¹

	2023E	2024	2025	2026	2027	'28-35 Avg.	
Decharacterization	0.4	0.6	0.5	0.6	0.5	0.3	Stable cash outlays
Brumadinho agreements²	1.4	1.1	0.9	0.6	0.2	0.0	64% of Reparation Agreement completed by Oct/23
Incurred expenses	0.5	0.4	0.4	0.3	0.3	0.0⁴	Gradual reduction throughout the years
Samarco & Renova³	0.6	0.9	1.2	0.4	0.3	0.1	Potential support from Samarco cash generation
Total	2.9	3.0	3.0	1.9	1.3	0.4	



¹ Amounts stated in real terms, net of judicial deposits and without discounts to present value, considering average BRL-USD Exchange rates of 5.0076. ² Includes Integral Reparation Agreement, individual, labor and emergency indemnifications, tailings removal and containment works. ³ Includes Germano dam decharacterization provision and estimates of Samarco's contribution. ⁴ Considering US\$ 0.3 billion in 2028.



Solid value creation in different scenarios...

Serra Norte, Pará, Brazil

2026 EBITDA, real terms (US\$ bn)

		Iron ore price (US\$/t)		
		90	110	130
Nickel/ Copper price (US\$/t)	16 k / 7 k	15.2	21.5	27.8
	20 k / 9 k	16.7	23.1	29.4
	24 k / 11 k	18.3	24.6	31.0

2026 Free Cash Flow yield, real terms (%)¹

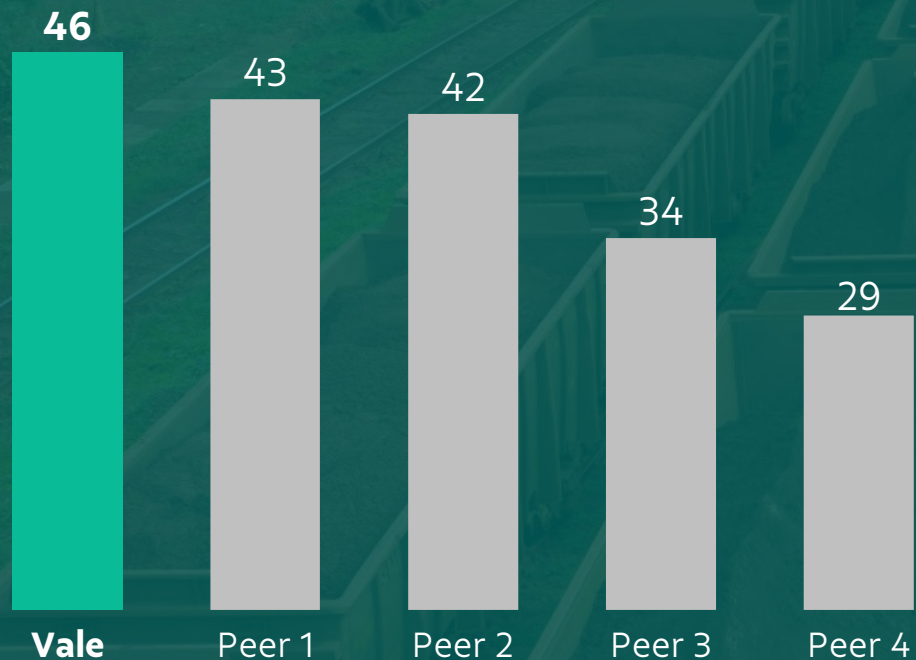
		Iron ore price (US\$/t)		
		90	110	130
Nickel/ Copper price (US\$/t)	16 k / 7 k	5.2%	12.1%	19.1%
	20 k / 9 k	7.2%	14.2%	21.1%
	24 k / 11 k	9.3%	16.2%	23.2%

¹ Using market cap of December 1st, 2023



...and continuing to focus on returning value to shareholders

Accumulated dividend yield¹ (2020–2023, %)



US\$ 29 billion distributed since 2020

- Solid dividend policy: 30% x (EBITDA – Sustaining)
- Additional dividends
- Robust dividend yield (higher than peers)



Consistent buyback programs

- ~17% of share base repurchased since 2021
- Ongoing program to acquire 150 million shares
- Concentration of future earnings and dividends

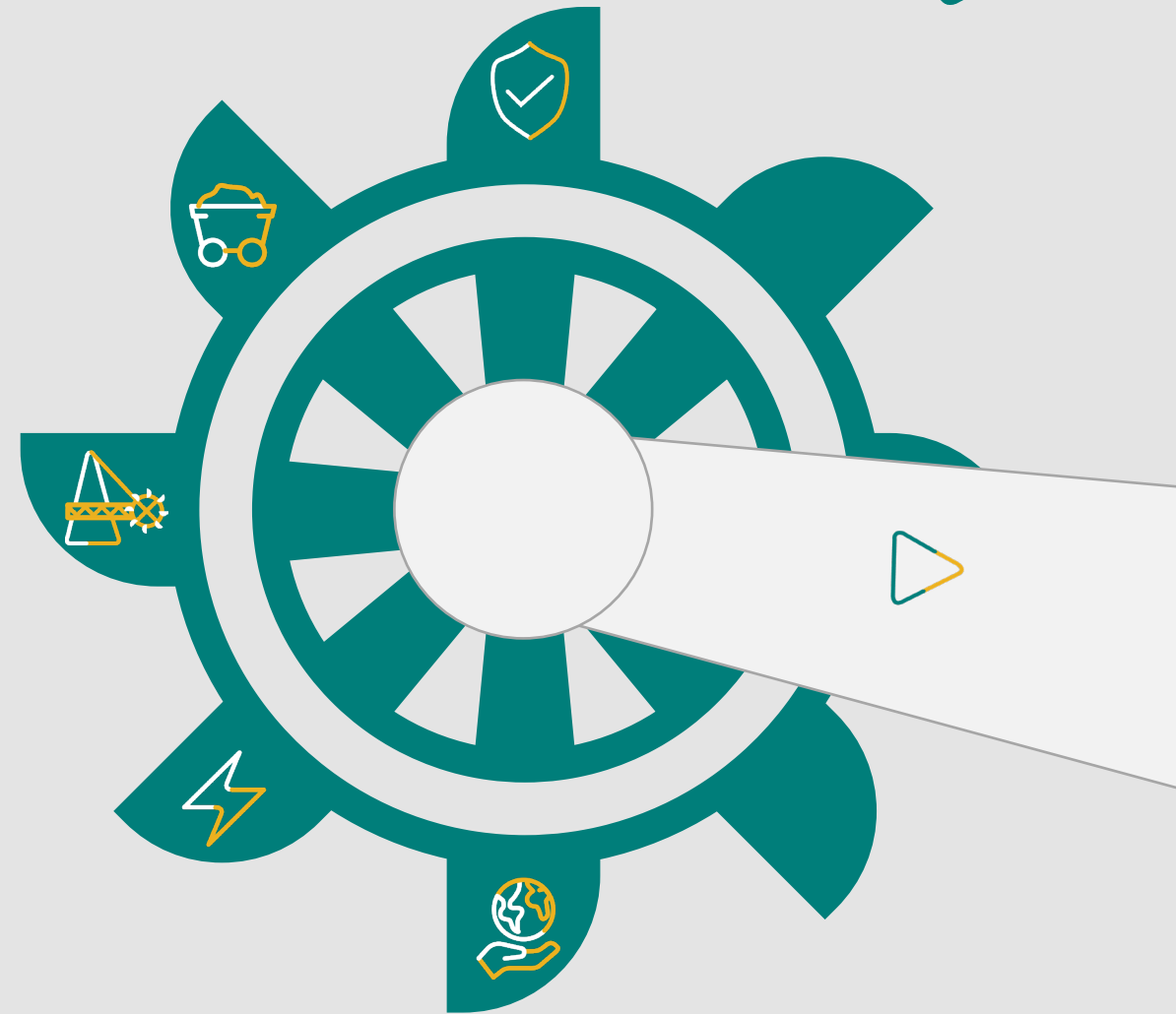
Key levers

to unlock value through 2026



Closing Remarks

Eduardo Bartolomeo



A clear pathway towards an even greater Vale



A safer Vale with improving performance

- *ESG Leadership*



In Iron Ore Solutions

- *A stable production baseline*
- *Additional 50 Mt capacity*
- *Higher average quality*



In Energy Transition Metals

- *Asset review to unlock additional value*



VALE

