



The BMO 31st Global Metals & Mining Conference

Eduardo Bartolomeo, CEO

February 28th, 2022

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Building a better Vale

De-risking



- Brumadinho
- Mariana
- Dam safety
- Production resumption

Reshaping



- Focus on core business
- Elimination of cash drains
- Accretive growth opportunities
- Cost efficiency

Re-rating



- Benchmark in safety
- Best-in-class reliable operator
- Talent-driven organization
- Leader in low carbon mining and ESG practices
- Reference in creating and sharing value

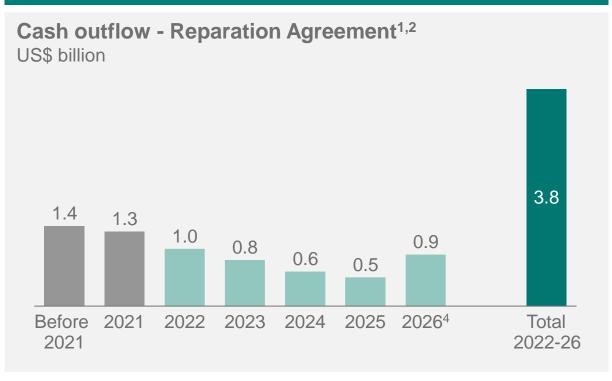
Sound cash flow generation

Discipline in capital allocation



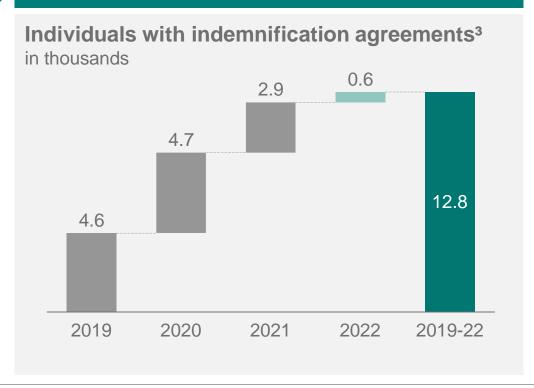
Brumadinho, a fair and quick reparation

Income Transfer Program for local communities
Projects demanded by the affected communities
Water security for the affected region



99% of the victims

with at least one family member with indemnification settlement

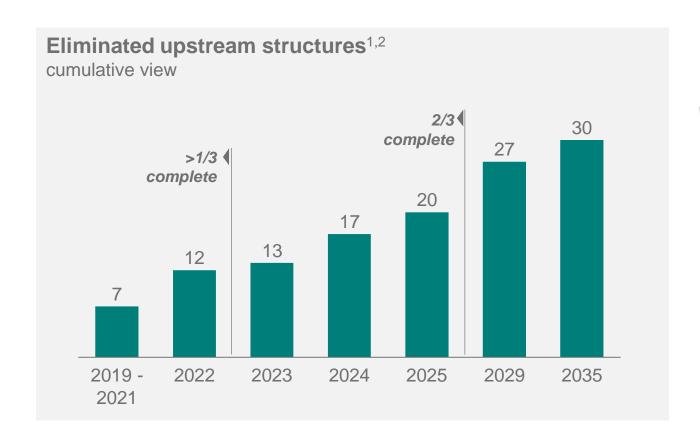


¹ Considers the agreement's economic value of R\$ 37.7 billion in February 2021, adjusted by the inflation. Payments include previous disbursements and is net of judicial deposits. ² Amounts stated include inflation and do not include discount to present value, considering average BRL/USD exchange rates in 2019 of 3.95, in 2020 of 5.2 and of 5.4 for 2021 and 5.6 onwards. It does not include individual indemnification nor incurred expenses. ³ Individuals covered by indemnification agreements entered into with Vale until February 2022. ⁴ Comprises US\$ 0.5 billion of inflation adjustments related to performance obligations which projects timeline are not defined by the agreement.



De-risking

Eliminating upstream dams and improving dam safety



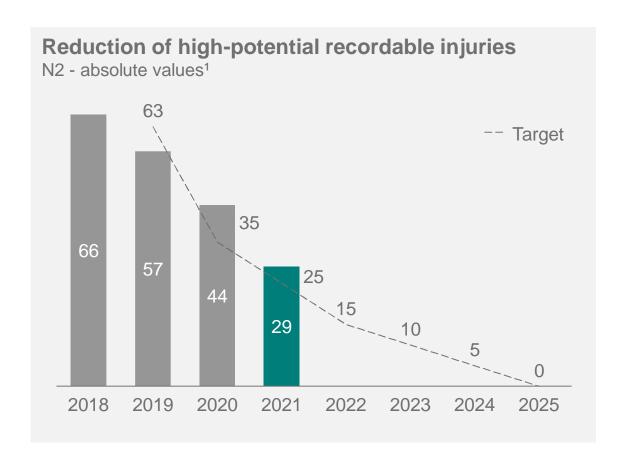


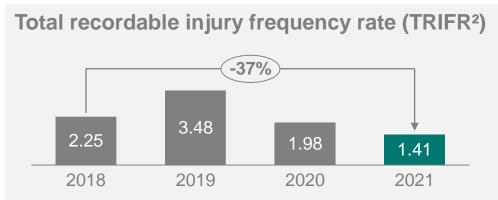


¹ The same heightening method deployed at B1 dam, collapsed in Brumadinho. ² Comprises dams, dikes and drained stacks.

De-risking 🔄

Working towards being a zero-fatality company



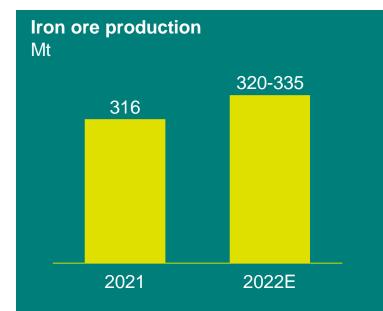




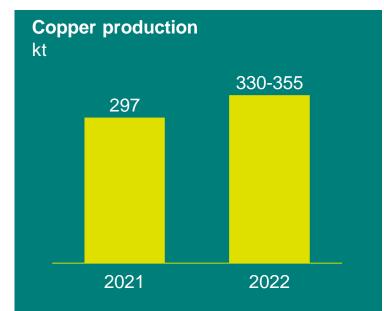


¹ Includes own employees and third parties. ² TRIFR are calculated based on one million hours worked.

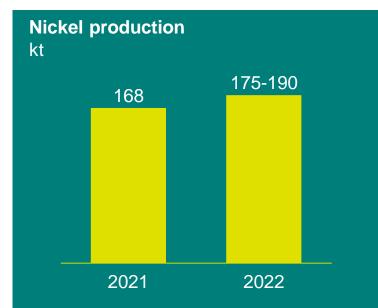
Path to recover production: 2022 key milestones



- Improvement of S11D performance with jaspilite crushers and mobile crushers
- Higher quality product portfolio
- Tailings' filtration plants and start-up of Torto dam and raising of Itabiruçu dam (taking capacity to 370 Mtpy)



- Stable production at North Atlantic mines (Sudbury + Totten ramp up)
- Improvement in Salobo mine movement and startup of Salobo 3
- Planned maintenance at Sossego



- Stable production at North Atlantic mines (Sudbury + Totten ramp up)
- New projects: VBME and CCM 1
- Onça Puma stabilization
- PTVI furnace rebuild



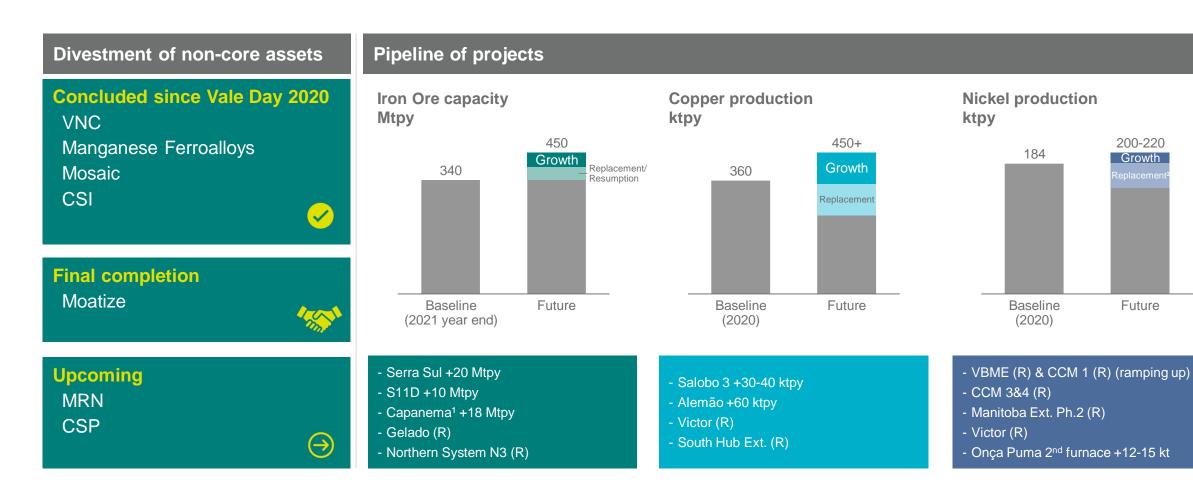


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Growth

Future

Leaner portfolio set up for growth

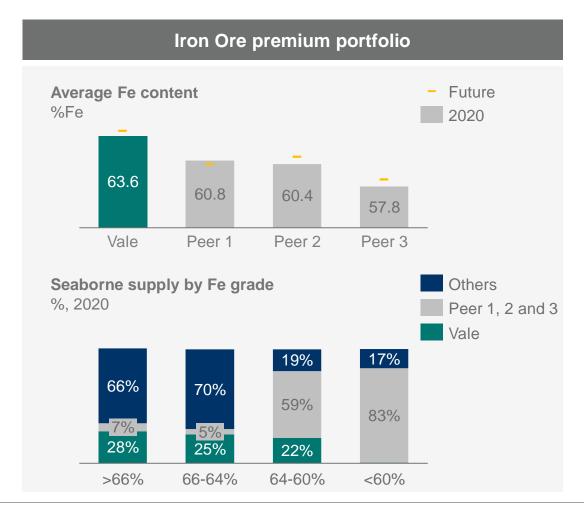


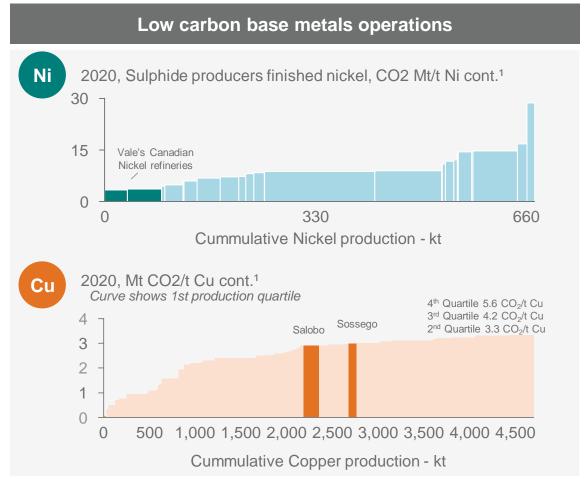
⁽R) Replacement and resumption projects. ¹ Net addition capacity of 14 Mtpy. ² Excluding CCM 1 and VBME projects which are ramping up





Well-positioned to pivot towards a low-carbon economy



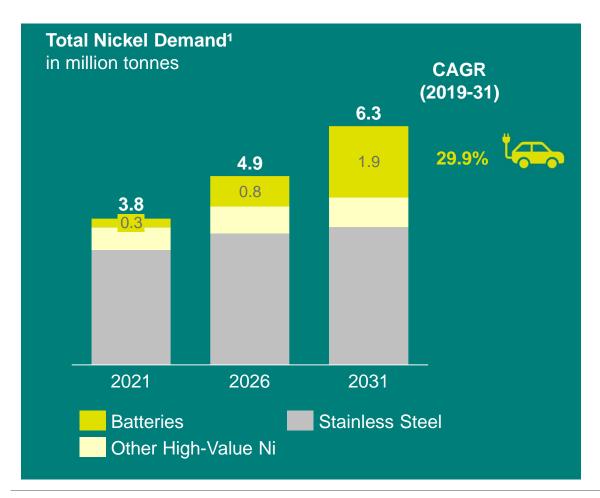


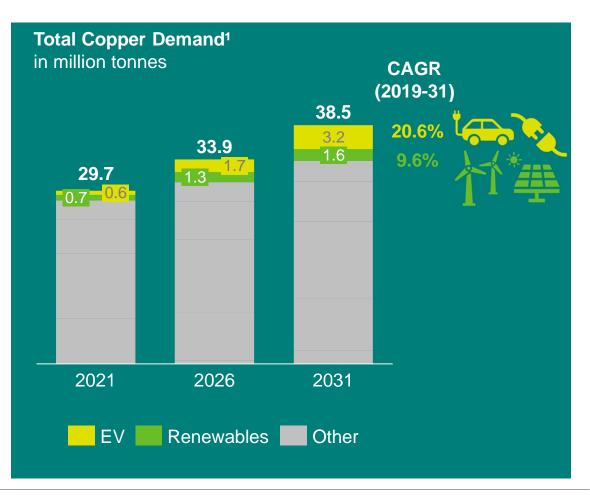


¹ Scopes 1 & 2 emissions. Source: Vale, Skarn.

Reshaping 🌑

Base metals: winner in the energy transition



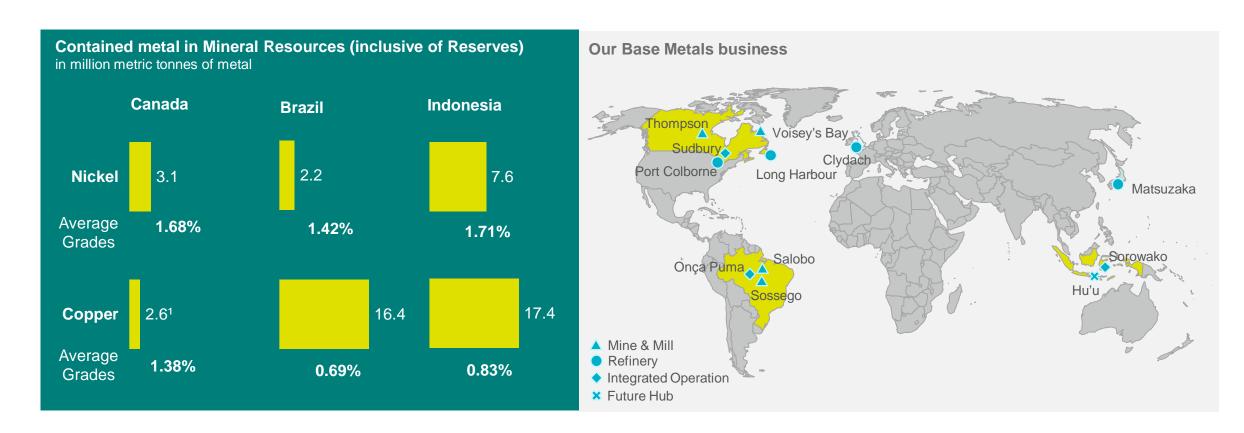




¹ Includes secondary demand (scrap)



Vale Base Metals: right assets, right jurisdictions with technical expertise



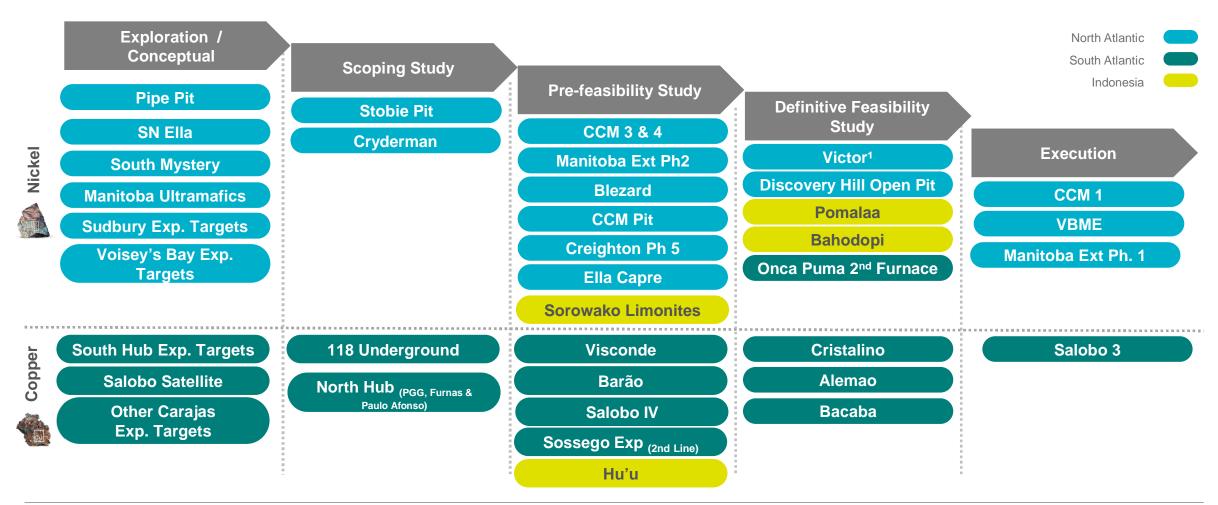
Top 3 or better resource position in each jurisdiction for primary mined metals²



Note: 2020 Mineral Resource estimates as of December 31, 2020, except for copper resources in Indonesia (interim pre-feasibility study update concluded in December 2021). Minerals resources are shown in 100% basis, not reflecting Vale's interest. Mineral Resources includes measured, indicated and inferred categories. All tonnage information has been rounded to reflect the relative uncertainty in the estimates. ¹ Copper is a byproduct of Canadian nickel operations. ² Primary mined metals would be nickel for Canada, copper and nickel each for Brazil and Indonesia. For Canadian copper, which is a byproduct, Vale is not Top 3 in resources.

Reshaping

Building a robust project portfolio

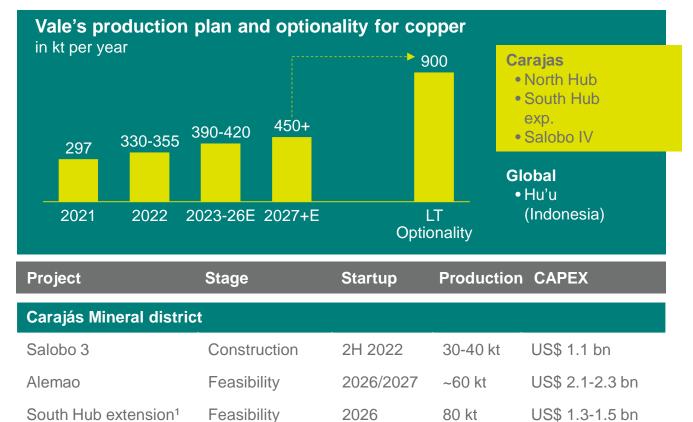


Note: Stages of development are not indicative of schedule of approval. Only those in execution have been approved. ¹ Victor is expected to produce ~20kt of copper. It is allocated to the nickel business as it should feed into the North Atlantic nickel flowsheet.



Reshaping (

Copper **Leveraging from regional opportunities**



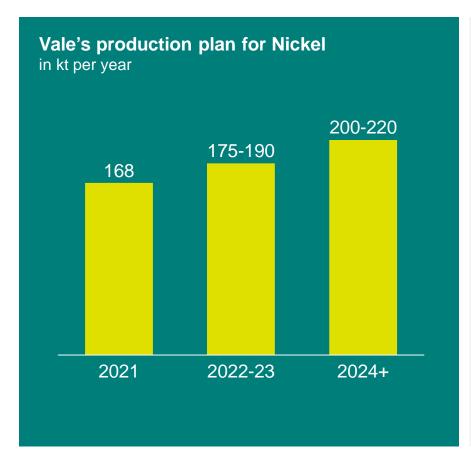


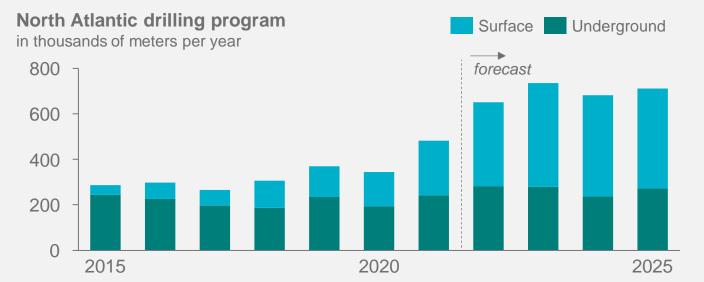


¹ Refers to Cristalino project.

Reshaping (

Nickel **Building a stable business**





Voisey's Bay

- Extensive near mine and regional program
- Potential to add resources and extend mine life at Reid Brook and Eastern Deeps

Sudbury

- Balanced portfolio of early-stage targets, advanced projects and near mine opportunities
- Strong land position in worldclass Ni camp with synergies to existing operations

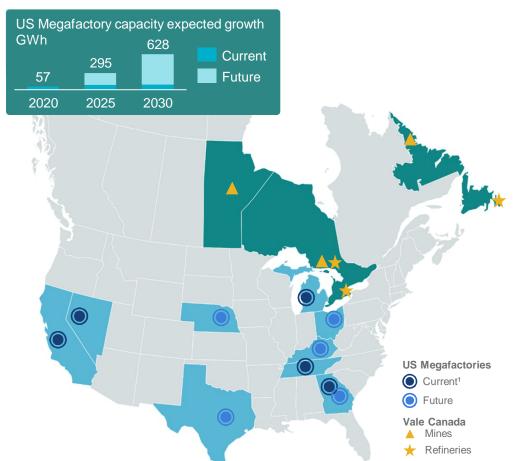
Thompson

- Exploring near mine targets to extend mine life at Thompson Mine
- Advancing exploration studies on large ultramafic-hosted Ni deposits



Reshaping

Nickel Key foundation for establishing North American EV supply chain





Increase supply of EV market metals in North America, targeting to achieve 30-40% of Ni market in the mid-term



Fully utilize existing production assets, producing best in class products with opportunities to further optimize.



Develop partnerships through the value chain, communities and rightsholders.



Develop black mass recycling: advancing quickly both sourcing and returning sustainable metals



Evaluate options to build a nickel sulphate plant in North America, as a first mover to leverage larger growth potential

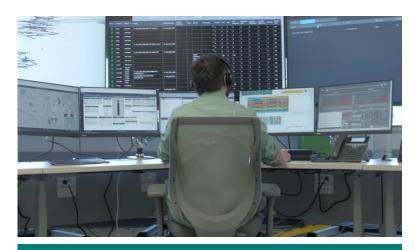
Source: Benchmark Mineral Intelligence (October 2021).



¹ Major Megafactories in 2020.



Investing in technology for a stronger performance







Integrated Remote Operating Control (iROC)

- ✓ Short interval control: adherence to plan and expedite problem solving
- ✓ Minimize operational delays and expedite maintenance services
- ✓ Opportunity to increased production (>10%)

Mine automation and continuous operations

- ✓ Mechanical rock excavator: potential to change underground hard rock mining in Canada
- ✓ More continuous type process, aiming to increase productivity by 50% in underground development activities (less blasting, more time at face)
- ✓ Undergoing trials at Garson mine in Sudbury

Autonomous equipment coupled with Surge Loader & Ore Sorter

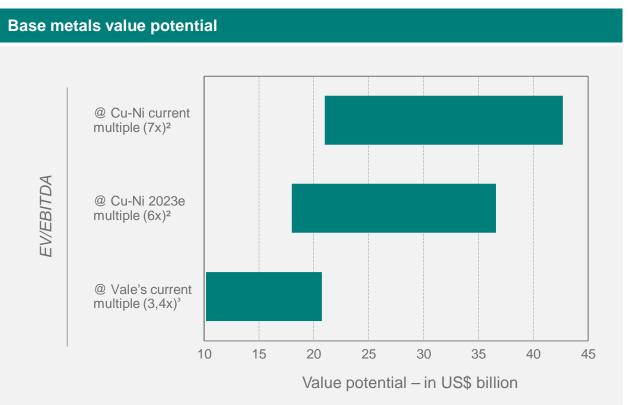
- ✓ Autonomous drills & trucks: remove people from risk, increase productivity and effective work time
- ✓ Surge Loader with ore sorting: high-grading to increase recovery
- ✓ Full implementation of the autonomous across Base Metals for >5% asset productivity increase and ~ 5% reduction in GHG emissions





Base Metals business: up to US\$ 40 billion value potential





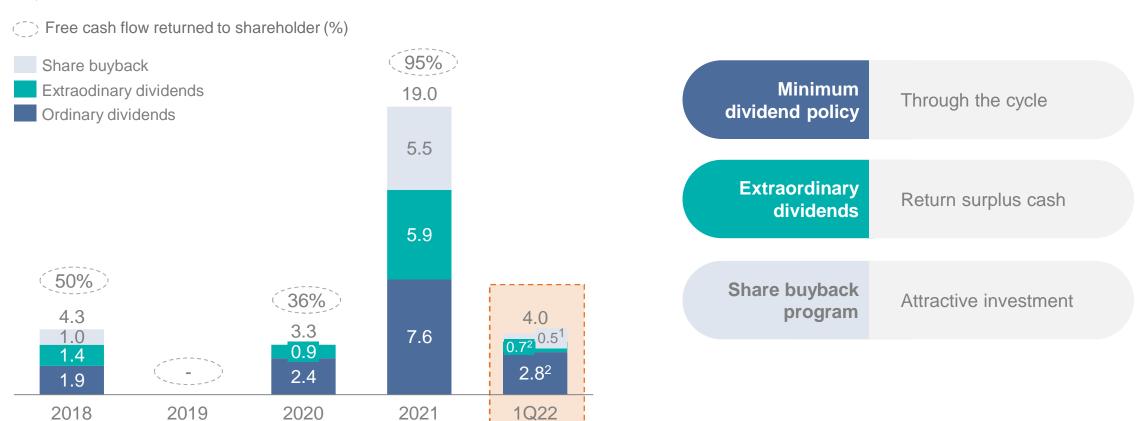
¹ Assuming ~220ktpy Ni production and ~420 ktpy of copper production. ² Average multiple for Copper and Nickel companies in the last 30 days as of February 21, 2022. ³ Average multiple for Vale in the last 30 days as of February 21, 2022.



Committed to maintain solid shareholders' return

Free cash flow returned to shareholder

US\$ billion



¹ Considering share buyback program in year-to-date (February 24). 2 Considering dividends announced in February 24 to be paid in March.



On track for delivering value

Materially de-risked and re-shaped portfolio

Substantial value creation opportunity at Base Metals

Class I Iron Ore key to support the energy transition

Capital discipline and return to shareholder to remain a priority



