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Eramet Group Presentation

MAY 2022

Our purpose, our reason for acting



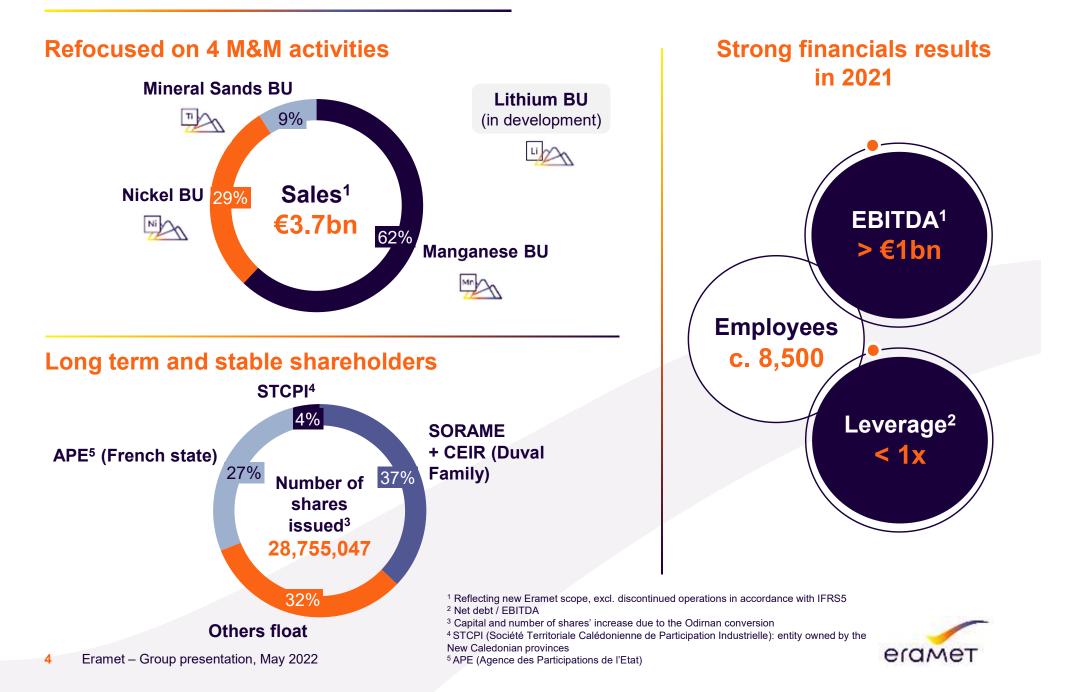
Our purpose sets a course. Conveying both our DNA and our collective ambition, it fuels our vision and the daily actions of all employees and stakeholders.



Eramet at a glance



A global pure player in Mining & Metals



Operations in manganese, nickel, mineral sands Development in lithium, nickel & cobalt, EV batteries recycling



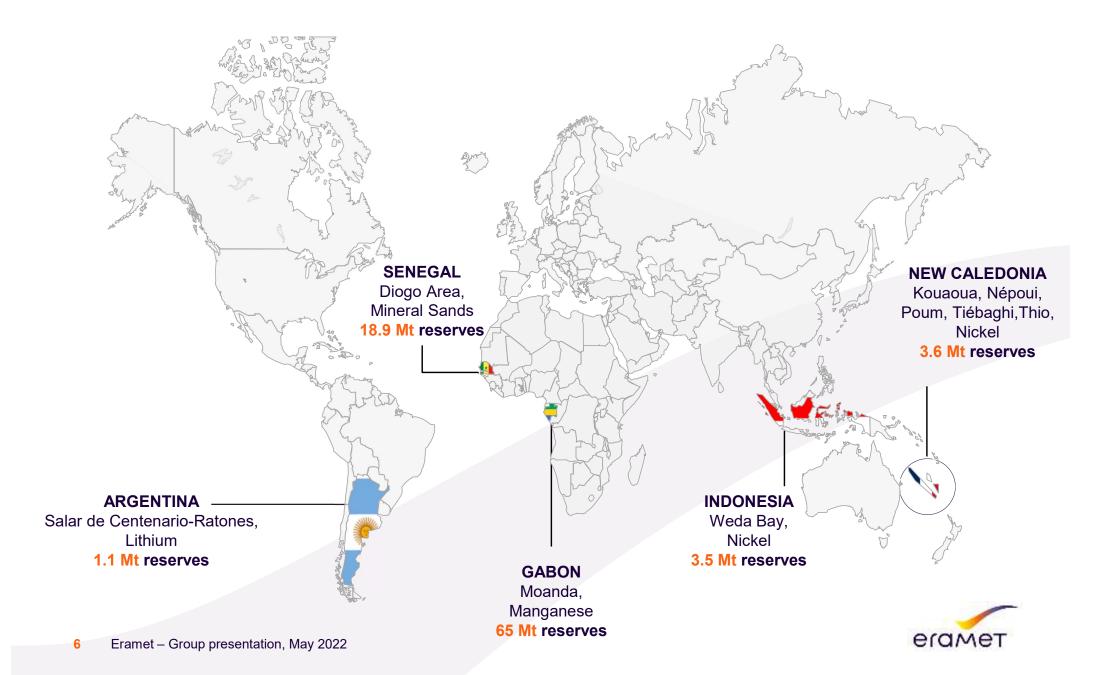
¹ Reflecting new Eramet scope, excl. discontinued operations in accordance with IFRS 5: Sandouville (divested in Feb. 2022), Aubert & Duval (MOU signed in Feb.2022, closing expected at year-end) and Erasteel (divestment process ongoing)



2021

5

Long life world class deposits positioned on the first quartile of the mining industry cost curve



A committed, contributive and recognised corporate citizen

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Societal engagement embedded in the strategic vision



- Our Purpose drives our ways of working
- A 2018-2023 CSR roadmap to structure and set the pace for our action plans
- Aligned with the United Nations' Sustainable Development Goals





- License to operate: Partnering with the countries and territories where we operate is in our DNA
- Beyond mining operation, we contribute to the local development and take care of the environment



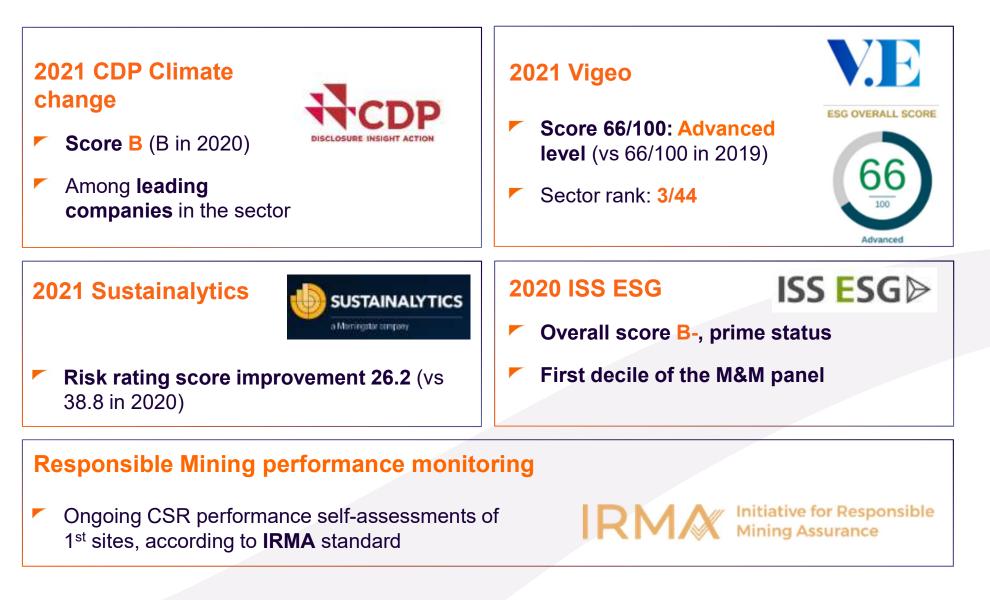
Reducing energy/climate footprint



- Validation of the Group's CO₂ emissions reduction target "well below 2°C" by the SBTi¹:
 - **2035:** -40% Reduction target in absolute CO₂ emissions (vs 2019)
 - 2050: Contributing to carbon neutrality (scopes 1 and 2)



ESG performance recognised by leading agencies





A future leading player in the new age of metals...

Pure player in Mining and Metals contributing to a sustainable future

Grow in metals supporting global economic development



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Resilient markets

MANGANESE ORE & ALLOYS

NICKEL

MINERAL SANDS

Demonstrated leadership and continuous value-accretive organic growth

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Fast-growing markets



LITHIUM

NICKEL/COBALT SALTS



Huge potential to benefit from energy transition

Most of mines and plants are positioned on the first quartile of the industry cash cost curves

ATTRACTIVE and SUSTAINABLE POSITIONING

CASH-GENERATING BUSINESS



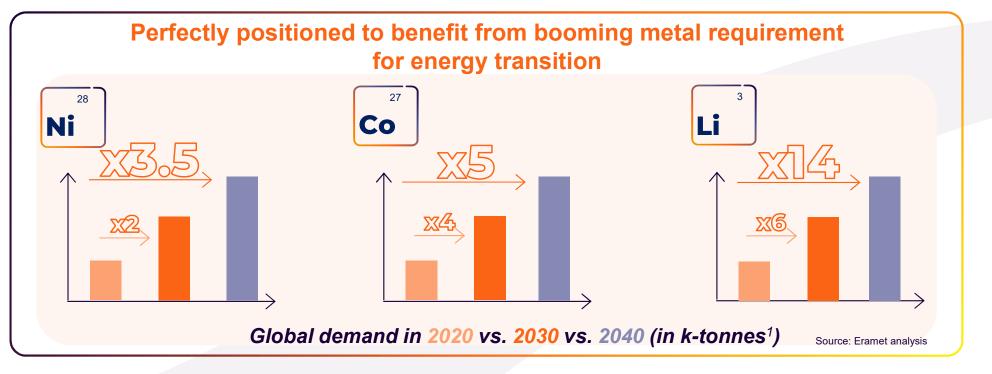
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A portfolio contributing to the battle for climate change

Greener product offering

- World class assets, providing the highest metal contents at lower carbon contents
- CO2 reduction targets SBTi certified





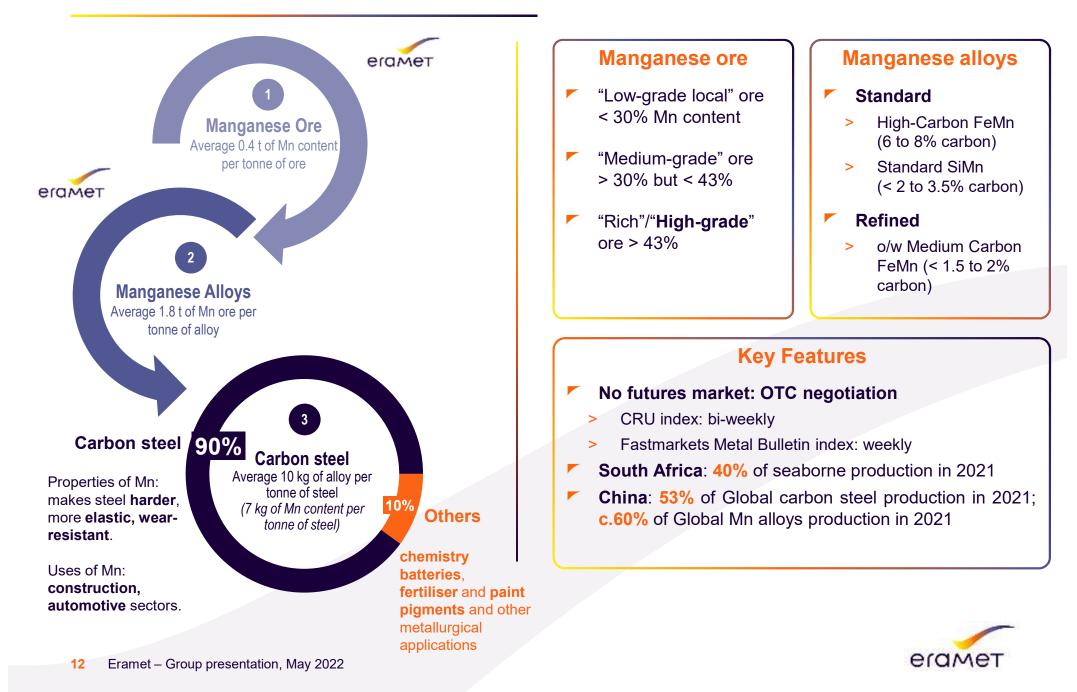


Grow in metals supporting global economic development



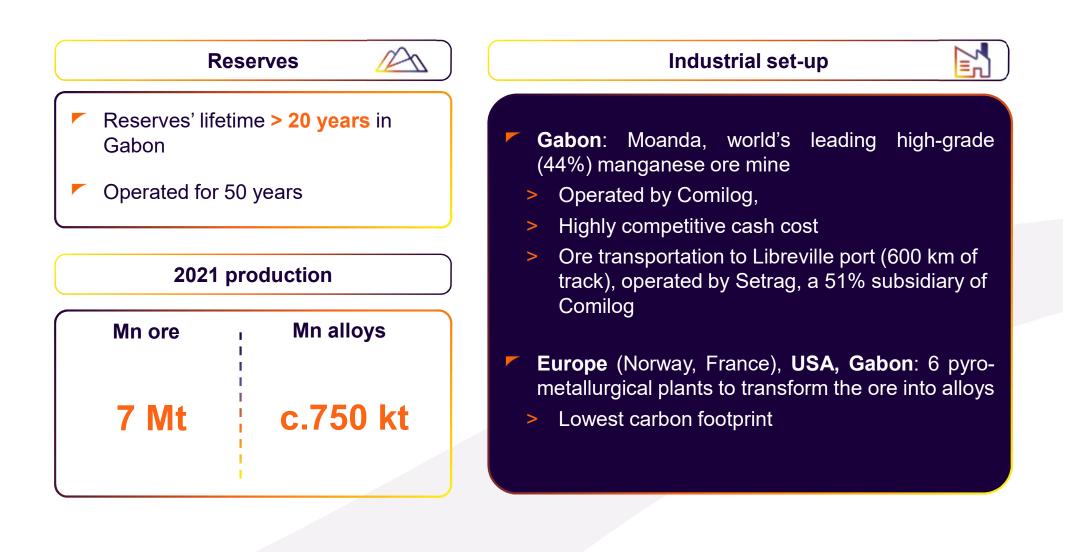
Manganese main growth drivers: carbon steel (90% of global production) and China



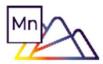




Manganese BU key features (1/2)







Manganese BU key features (2/2)

Market Share

- 1st global producer of high-grade Mn ore
- 1st global producer of refined Mn alloys
- Main market for Mn Alloys:
 Europe and North
 America





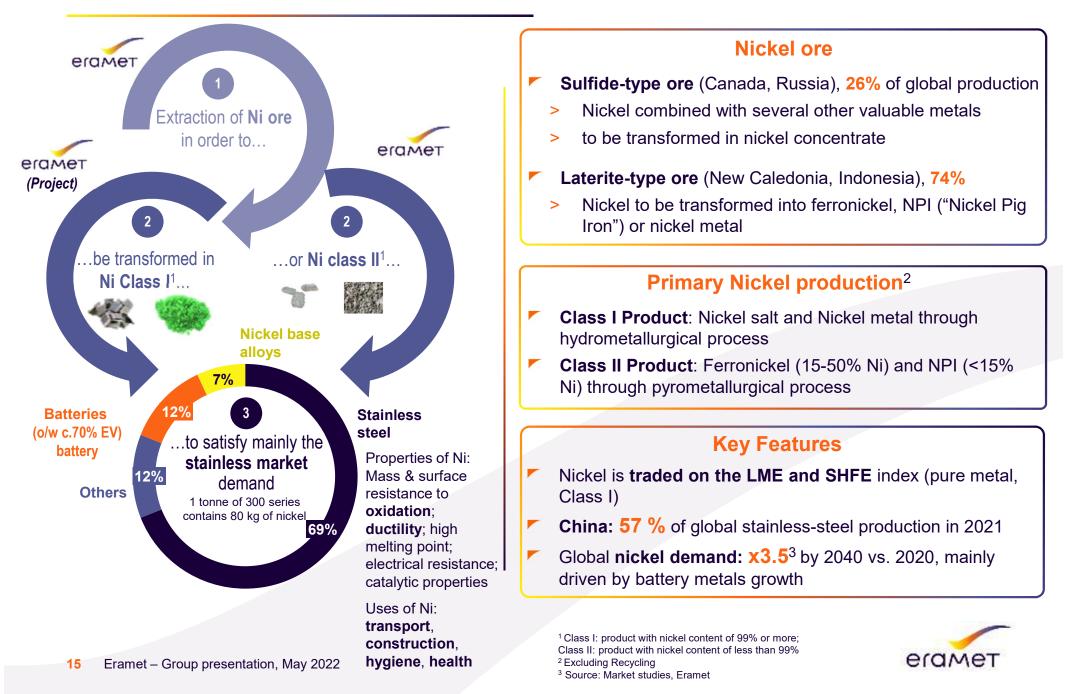






Nickel main growth drivers: stainless steel and batteries

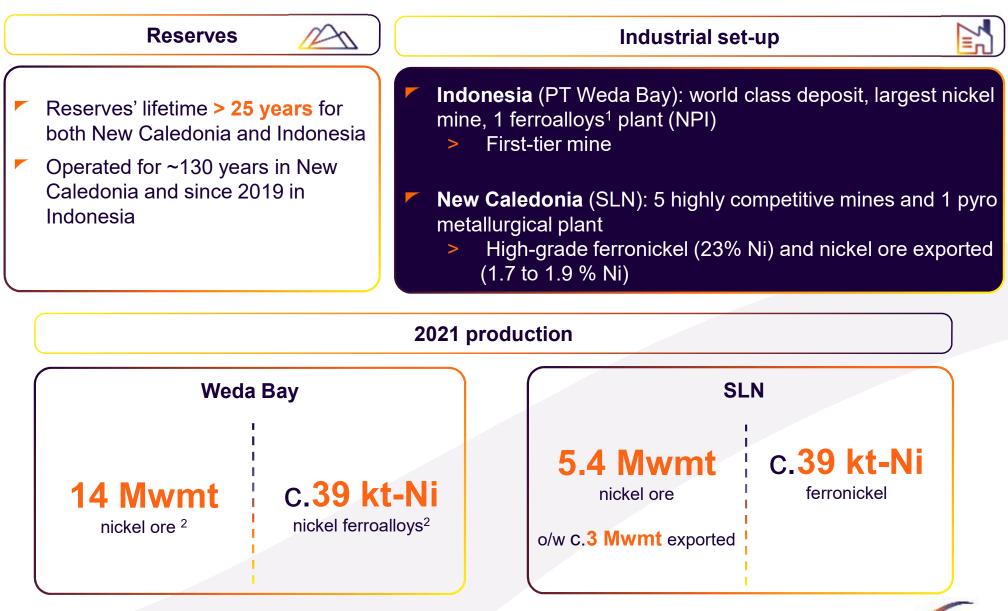






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Nickel BU key features (1/2)



¹ Eramet holds a 43% stake in Strand Minerals Pte. Ltd, (the holding company which owns 90% of PT Weda Bay Nickel), in partnership with Tsingshan, the leading global producer of stainless steel ² On a 100% production basis



Nickel BU key features (2/2)



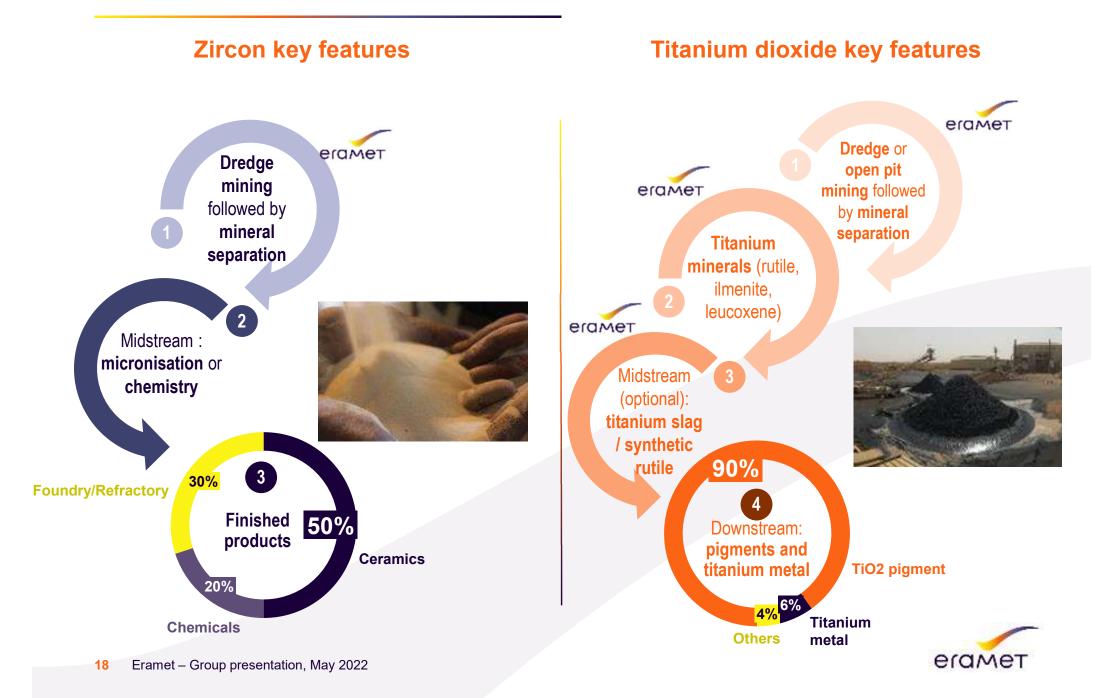






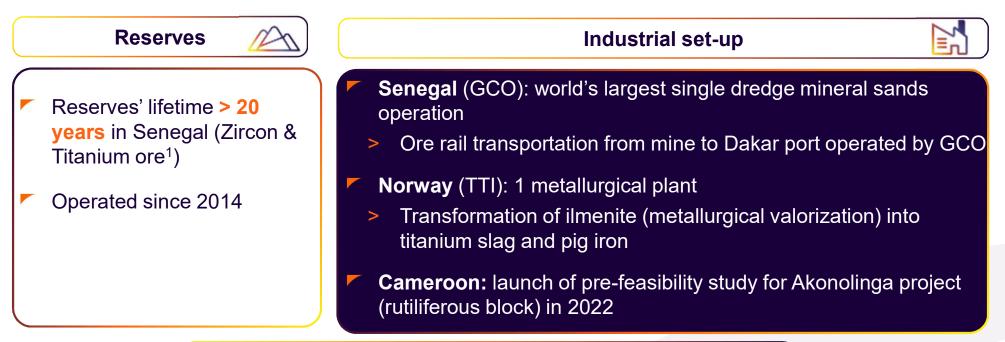
Mineral Sands main growth drivers: ceramics and pigments market







Mineral Sands BU key features (1/2)



2021 production		
HMC ²	Zircon	TiO ₂ Slag
804 Kt	64 Kt	209 Kt

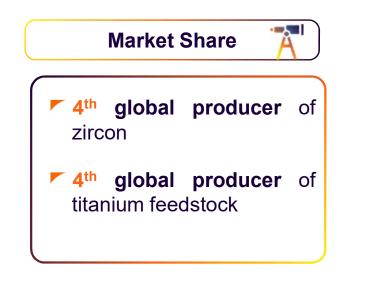


¹ Rutile, ilmenite, leucoxene

² Heavy Minerals Concentrate (HM sands content)



Mineral Sands BU key features (2/2)









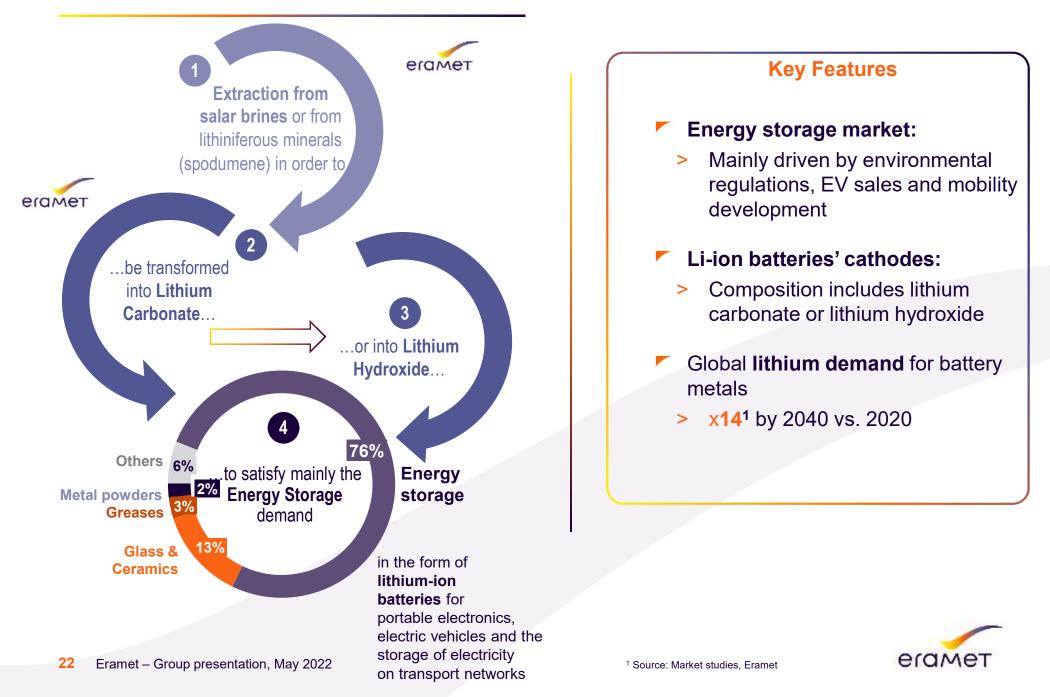


Develop metals for energy transition



Lithium main growth drivers: energy storage, including Li-on EV battery







Lithium BU (in development) key features (1/2)





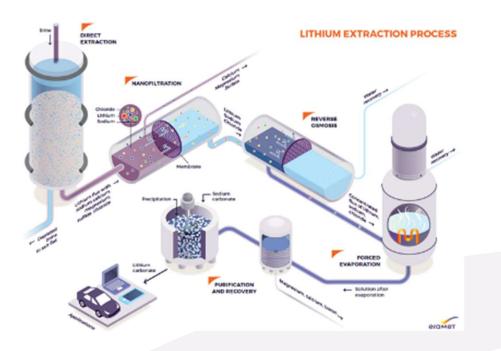
Lithium BU (in development) key features (2/2)

Direct Lithium Extraction (DLE) process

- Use of an active solid to extract and concentrate the lithium: competitive process developed by Eramet
- ~90% lithium recovery yield
 - > much higher than traditional evaporation process

1 week lead time

- > vs. 18 months on evaporation process
- Optimized management of the deposit's hydric balance
- A **pilot plant** is in operation on site since Dec. 2019 and has demonstrated, in real conditions, the performance of Eramet's process







Battery-grade Ni/Co project co-developed with BASF in Indonesia: study phase to be completed in 2022



- Production of nickel-cobalt for the manufacturing for Li-ion batteries
- Partnership with BASF since 2020:
 - Evaluation of hydro-metallurgical plant development, incl. a high-pressure acid leaching ("HPAL") unit
 - > Ore from Weda Bay deposit
- Highest CSR standards:
 - Implementation of the most stringent local regulations as well as Eramet's environmental & social standards and policies
 - > No deep-sea tailings disposal







Entering pre-industrialization studies for the battery recycling project



Major progress in the Li-ion battery recycling project

- An innovative closed-loop process fully piloted in 2020-2021 within Eramet Research & Innovation Center
- Developing our partnership with SUEZ to produce "black mass" (a metal concentrate of nickel, cobalt, manganese, lithium and graphite) from end-of-life lithium-ion battery recycling
 - > 2022-2024: initiating the pre-industrial phase, based on maturity achieved over several years of R&D
 - > 2024: estimated target date for the start of blackmass production in France

Start of industrialization studies for blackmass and other scrap refining in France

- > **Stand-alone 100% Eramet** for battery grade metals production from blackmass
- > 2022-2024: construction and operation of a pre-industrial demo-plant at Eramet Research & Innovation center in Trappes
- > 2025-2026: estimated target date for start of refining operation in France

STRATEGIC METAL RECYCLING: a virtuous circular economy approach, key for European sovereignty and responsible supply



R&D Innovation





Eramet Ideas^{*}: a European center of excellence in mining, extractive metallurgy and circular economy

Open innovation approach

- Leadership / partnership in European projects
- Innovation Council of worldwide academic experts
- Open innovation challenge

High-level R&D infrastructure in Trappes, near Paris

- 60+ years of experience
- Lab & Pilot facilities in geometallurgy, hydrometallurgy
 & pyrometallurgy
- High performance observation tools

Strategic projects

- Lithium Battery Recycling: development of an innovative process for recycling lithium-ion batteries used in electric vehicles
- Ni-Co: production of nickel and cobalt sulfate for the Lithium battery market
- FerroAlloys: invent the technology leading to zero carbon dioxide emission.

150 experts, engineers and technicians

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microscope in Europe equipped with QEMSCAN mineralogy software

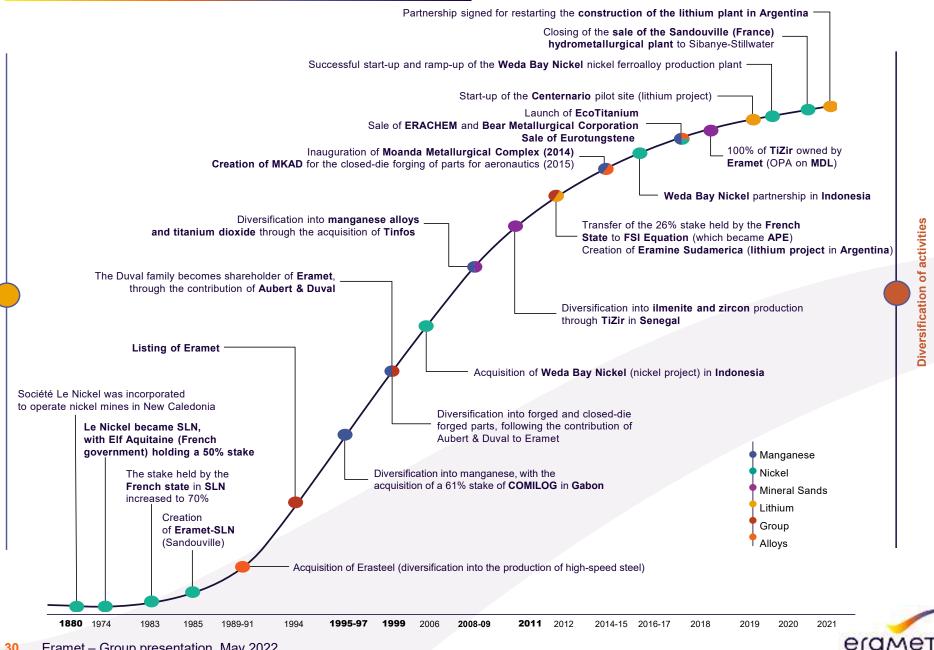




Appendices



A longtime player



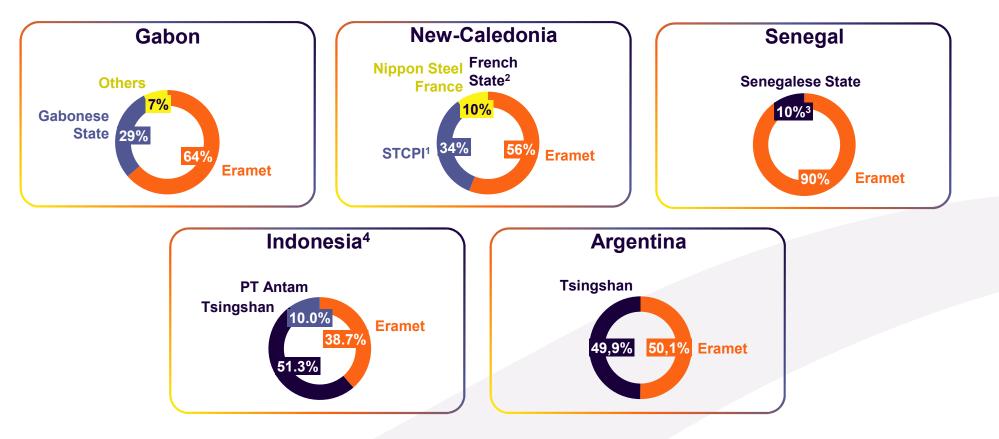
A global geographic footprint





Key partnerships with host countries and territories

Eramet associates the main countries and territories where it operates

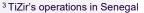


Significant contribution to the local economies

#2 private employer in Gabon and main private employer in New Caledonia

¹ STCPI (Société Territoriale Calédonienne de Participation Industrielle): entity owned by the New Caledonian provinces, holds around 4% of Eramet's share capital

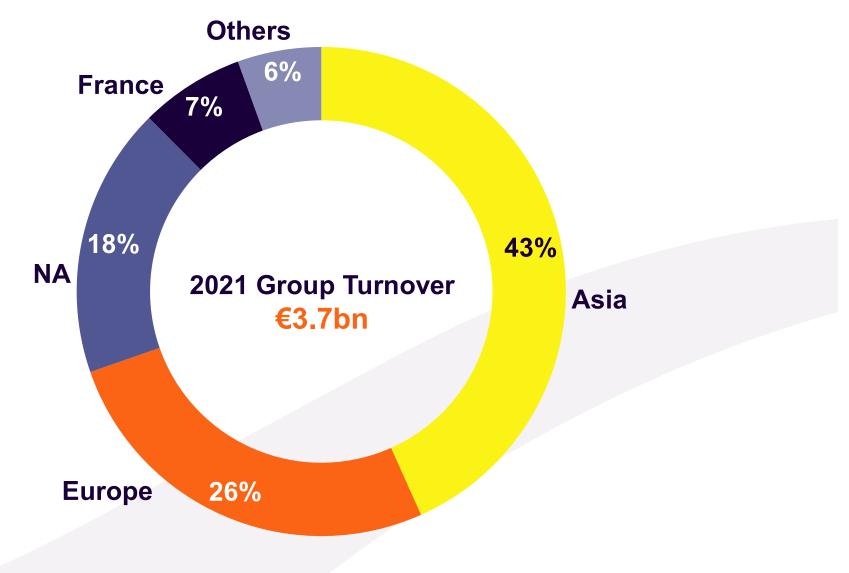
² 1 share



⁴ Eramet holds a 43% stake in in Strand Minerals Pte. Ltd, holding company which owns 90% of PT WB Nickel

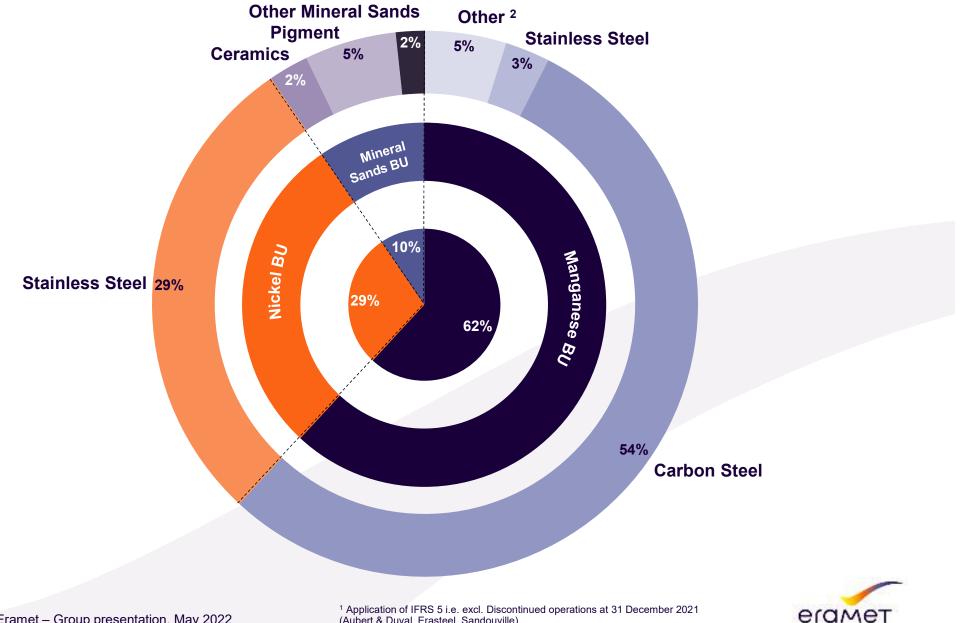


2021 Group turnover¹ by sales destination





2021 Group turnover¹ by end market



¹ Application of IFRS 5 i.e. excl. Discontinued operations at 31 December 2021 (Aubert & Duval, Erasteel, Sandouville) ² Chemicals, fourndry and third party transportation

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