

# Global Executive Insights – Mining Global Overview and Mapping

## Project Manager

Patricia Boeg-Jensen, Business Sweden

## Partners

Swedish Mining Innovation

## Project duration

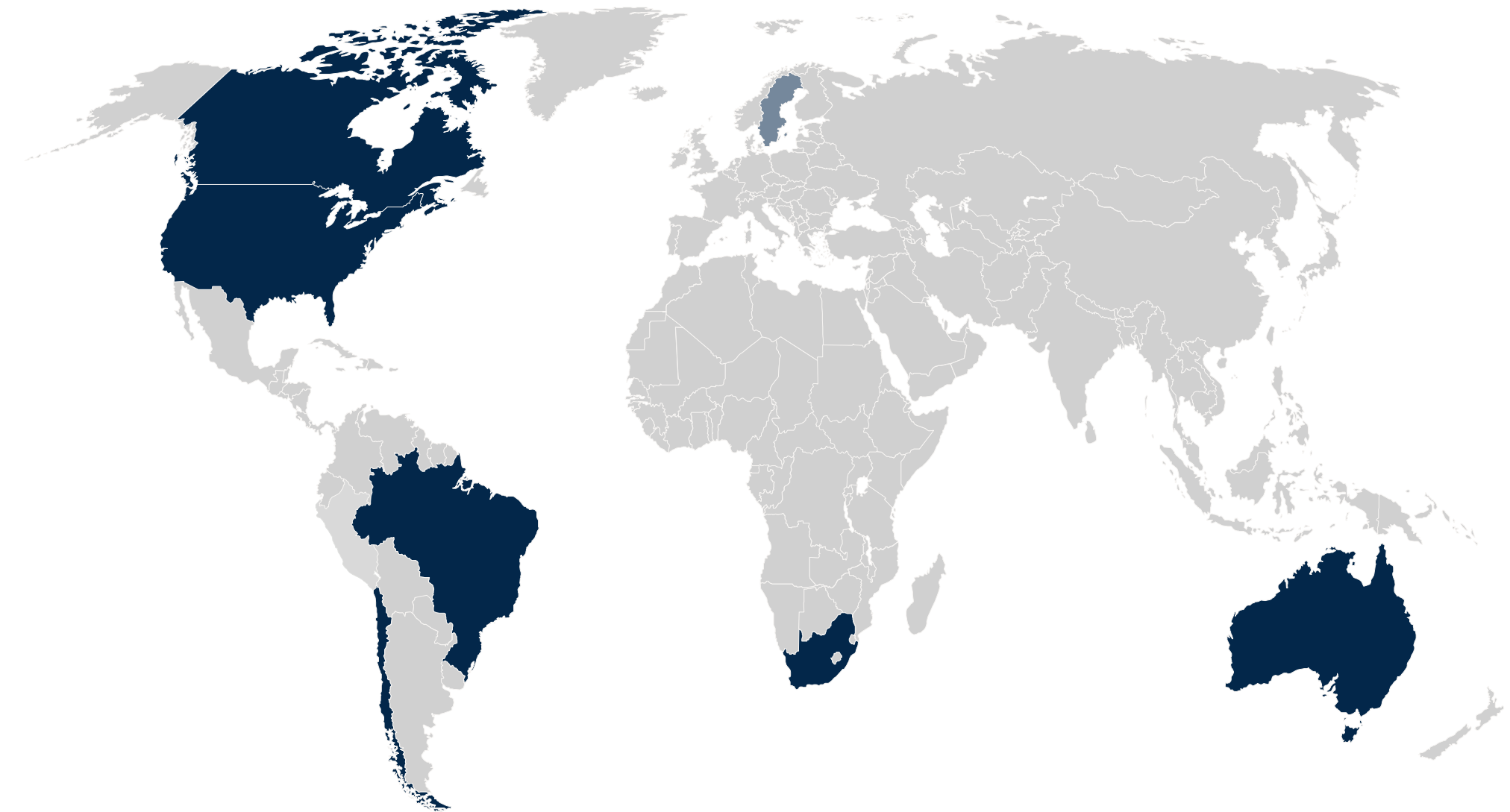
November 2023 – March 2024



# The goal is to provide a global mining industry overview to support in prioritizing future internationalization efforts

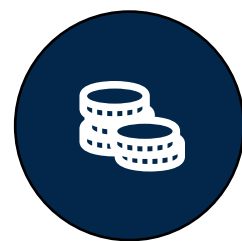
## JOINT STUDY BY SWEDISH MINING INNOVATION & BUSINESS SWEDEN

- The aim is to outline trends, challenges, key implications and opportunities for Sweden and Swedish companies as well as provide input for Team Sweden to support in prioritizing future mining internationalization efforts
- The report includes:
  - Global mining industry overview
  - Mapping of key trends and innovation landscape for key markets

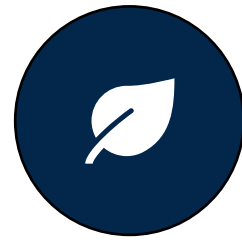


# The global mining sector's optimism is at an all time high, with growing recognition of its importance and societal impact

## KEY PROJECT FINDINGS



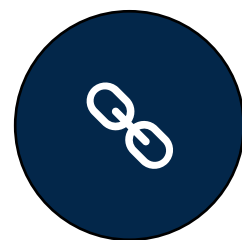
Global mining market shows no signs of decline, forecasted to reach \$US2775 billion in 2027, driven by vast long-term demand



Sustainability is top of mind amidst rising impacts of climate change and resource scarcity – mining companies are under pressure to mine quickly yet sustainably



All eyes – and investments – focused on critical minerals as the energy transition generates exponential demand for the minerals integral to key technologies

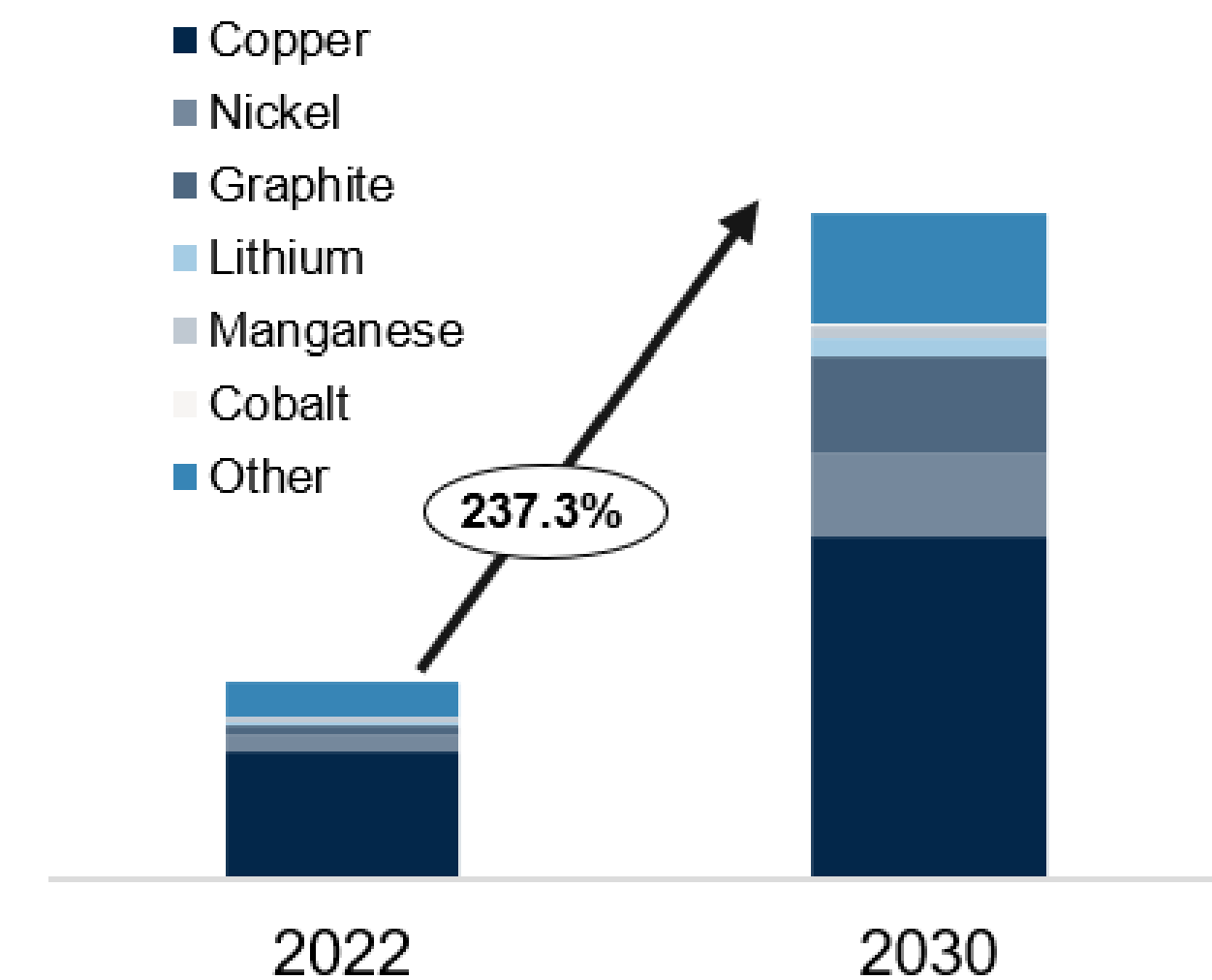


Recent supply chain challenges, geopolitical tensions and power rivalries have highlighted risks of the current distribution of global mineral production, leading to a rise in resource nationalism and friendshoring



Global labour shortages and demand for increased mining productivity drive rising innovation and adoption of mine automation solutions

DEMAND FOR CRITICAL MINERALS  
2022 AND 2030  
By critical miners, million tonnes



Source: International Energy Agency

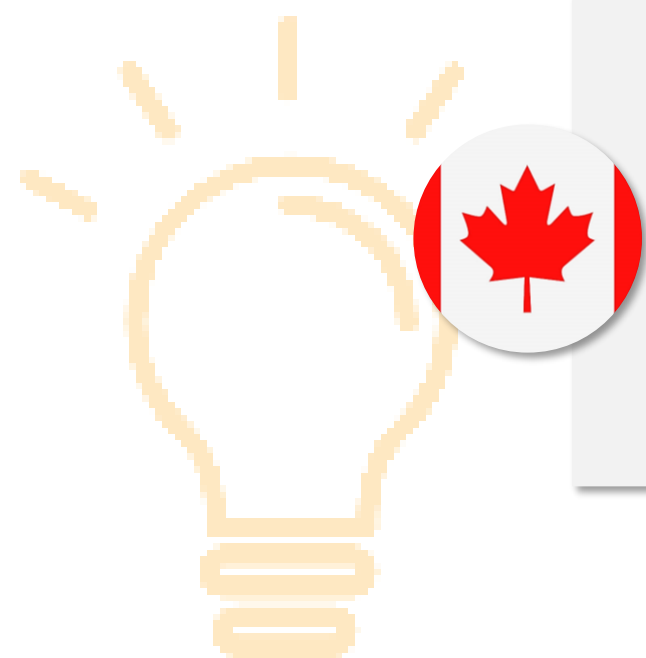
# Preliminary insights indicate that critical minerals will remain a priority with stronger emphasis on innovation and sustainability



- Leads in mining automation and innovation
- Poised to expand role in critical minerals production as the world's top lithium producer
- Offering opportunities for Swedish OEMs to contribute to evolving mining industry by adopting low emissions technology



- Emerging market for critical minerals
- Ranks third globally in rare-earth elements reserves and is a major iron ore producer
- The growth of underground mining in Brazil presents opportunities for Swedish mining suppliers



- Leads in global innovation and sustainability
- Producing 60+ minerals and metals with a focus on increasing critical mineral production
- Canada's reliance on outsourcing innovation creates opportunities for Swedish solutions specifically within critical mineral exploration and processing



- Top copper producer with largest lithium reserves globally
- Aiming to become a major critical minerals producer
- With sustainability goals set by the mining sector, Chile presents opportunities for Swedish companies as key partners in the pursuit of decarbonization



- Major gold and platinum group metals producer, faces challenges from aging mines and increased mining depths
- With a focus on ESG and sustainability, South Africa seeks collaboration with Sweden for innovative digital platforms



- Significant gold and copper producer, with plans for 40 critical minerals operations to secure the domestic critical minerals supply chain
- Due to the outsourcing of R&D, Swedish industry can leverage partnerships with US players for joint R&D efforts and demonstration projects

# High potential markets offer innovation, sustainability, political stability, and critical minerals focus



## INNOVATION TRAILBLAZERS

### AUSTRALIA & CANADA

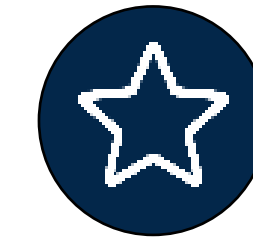
- At the forefront of mining innovation adoption
- Leaders in mine automation and electrification
- Attractive incentives supporting innovation



## CRITICAL MINERALS PRODUCTION POWERHOUSE

### AUSTRALIA & CHILE

- Top producers of various critical minerals
- Significant shares of critical minerals reserves



## CRITICAL MINERALS RISING STARS

### BRAZIL, THE US, SOUTH AFRICA

- Brazil holds reserves in nickel, REE, and graphite
- South Africa produces and holds large reserves of manganese
- The US produces copper and holds significant REE reserves



## SUSTAINABLE SUPERSTARS

### CANADA & AUSTRALIA

- Stringent environmental regulations
- Strong social and community focus
- Emphasis on responsible resource extraction



## PILLARS OF POLITICAL STABILITY

### AUSTRALIA & CANADA

- Stable political landscapes
- Long-term sustainable growth potential
- Reliable allies



# Next steps involve finalizing the project and presenting and publishing the project findings

## NEXT STEPS

- Deadline end of February
  - Global Executive Insight report (Published externally)
  - PPT deck
- Client presentations
- Potential to conduct a Phase 2



## PPT DECK AND WORD REPORT DRAFT - EXAMPLES



# Mining innovation for a sustainable future