

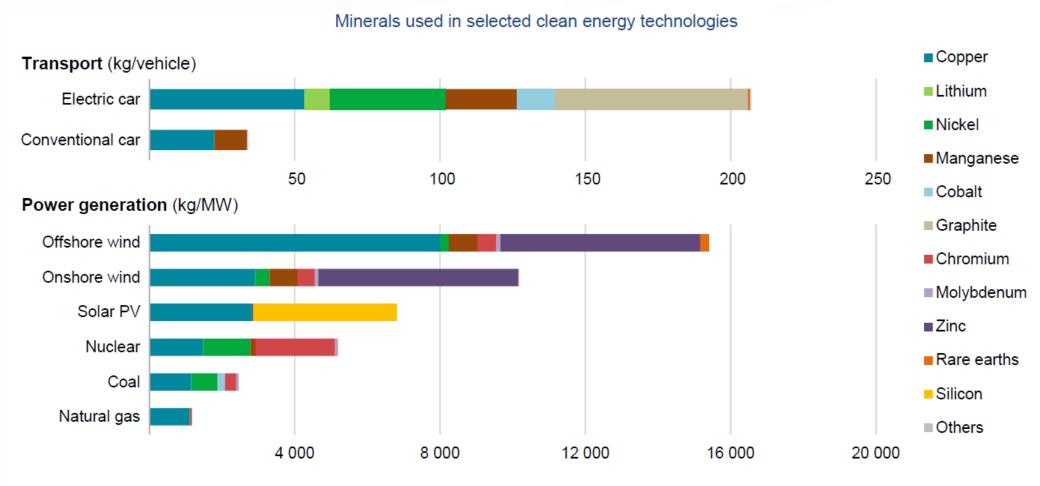
Are we doing enough?

Nicole Roocke

25 November 2022



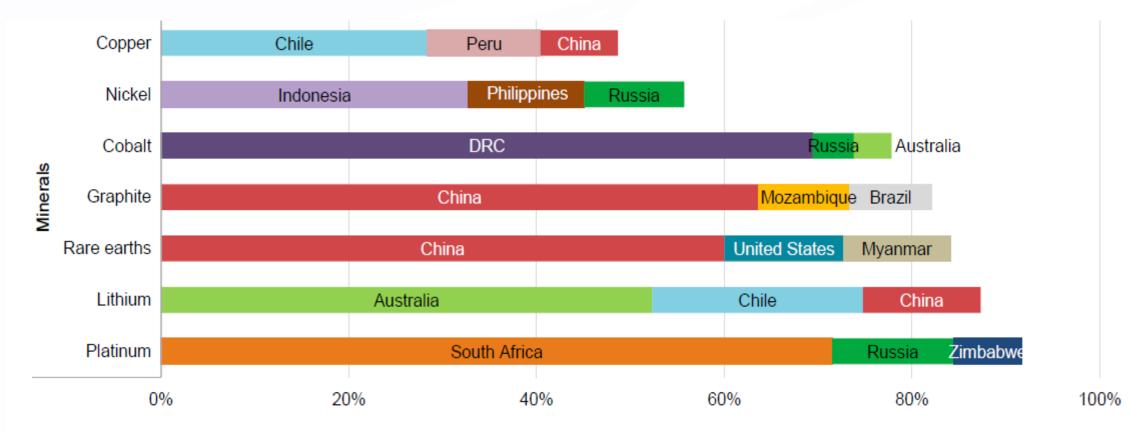
Future Demand



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Notes: kg = kilogramme; MW = megawatt. Steel and aluminium not included. See Chapter 1 and Annex for details on the assumptions and methodologies.

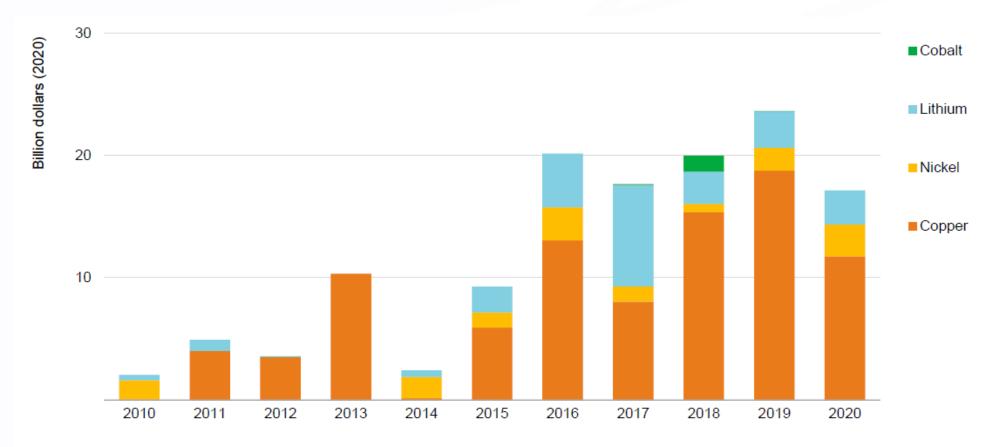
Current production



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Sources: IEA (2020b); USGS (2021).

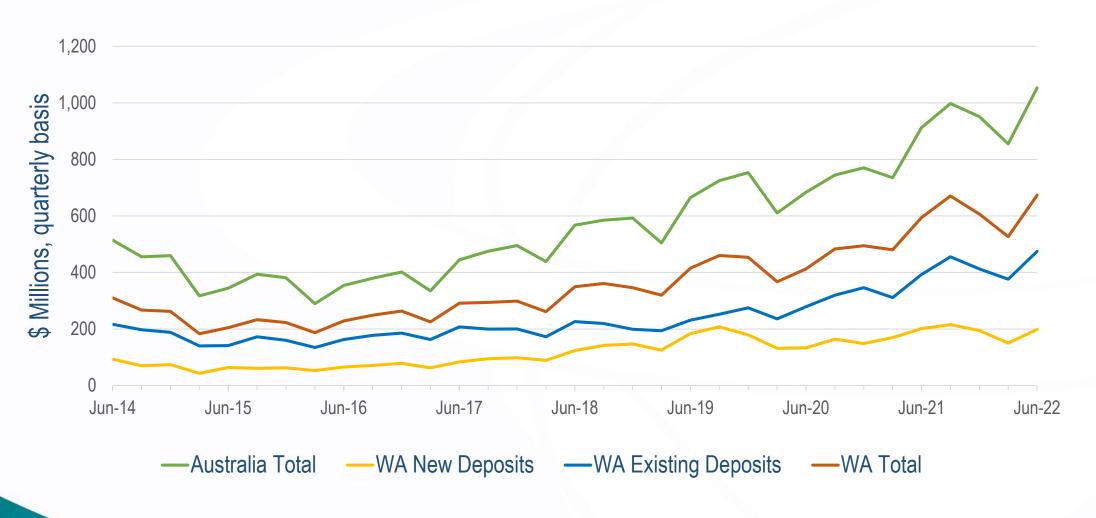
Investment in new mineral supply



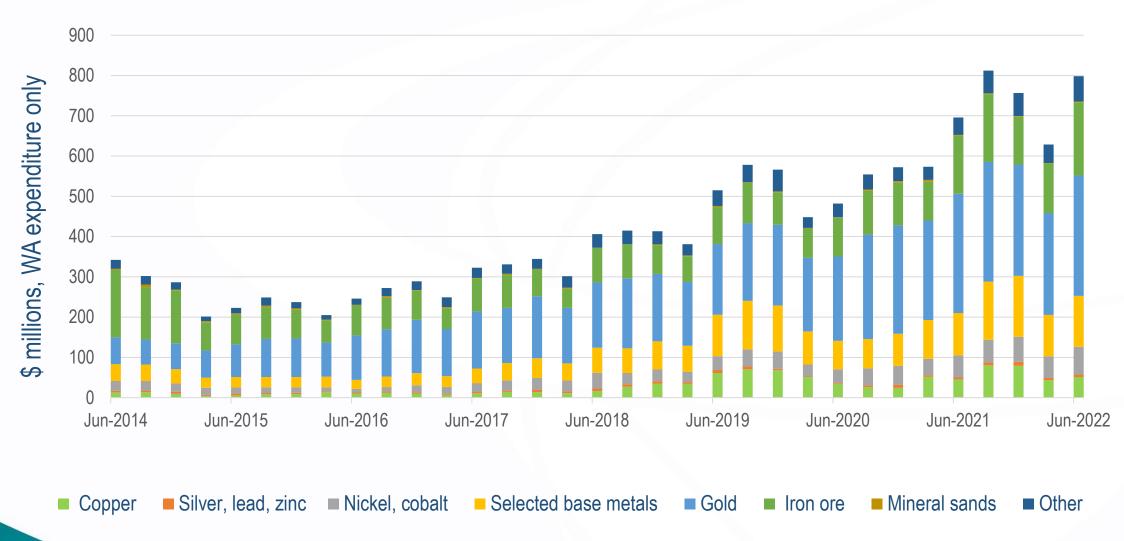
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Notes: Capital cost for cobalt includes only those projects whose primary commodity is cobalt. The figures do not include sustaining capital expenditure. Source: S&P Global (2021).

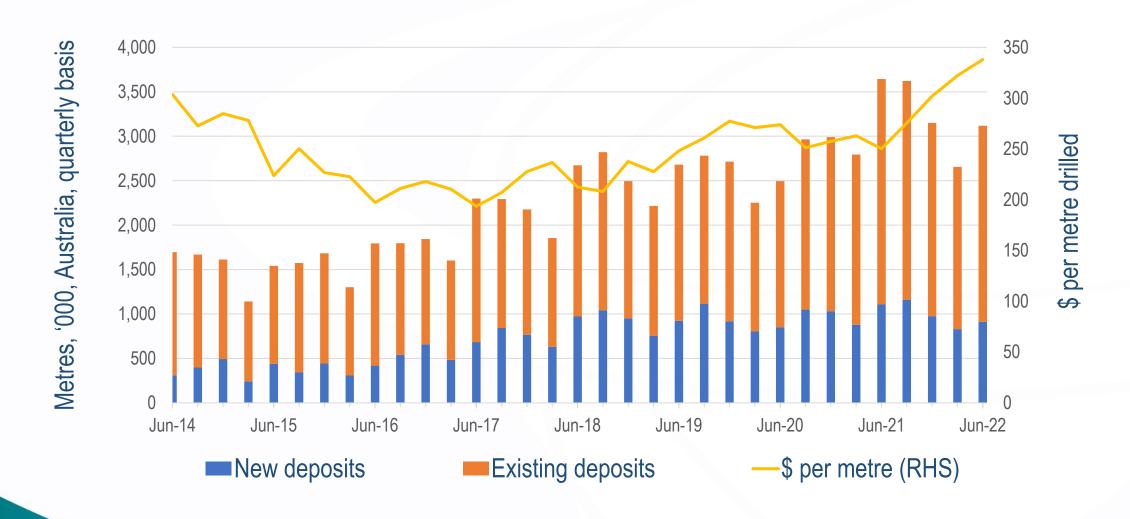
Trends in exploration – expenditure



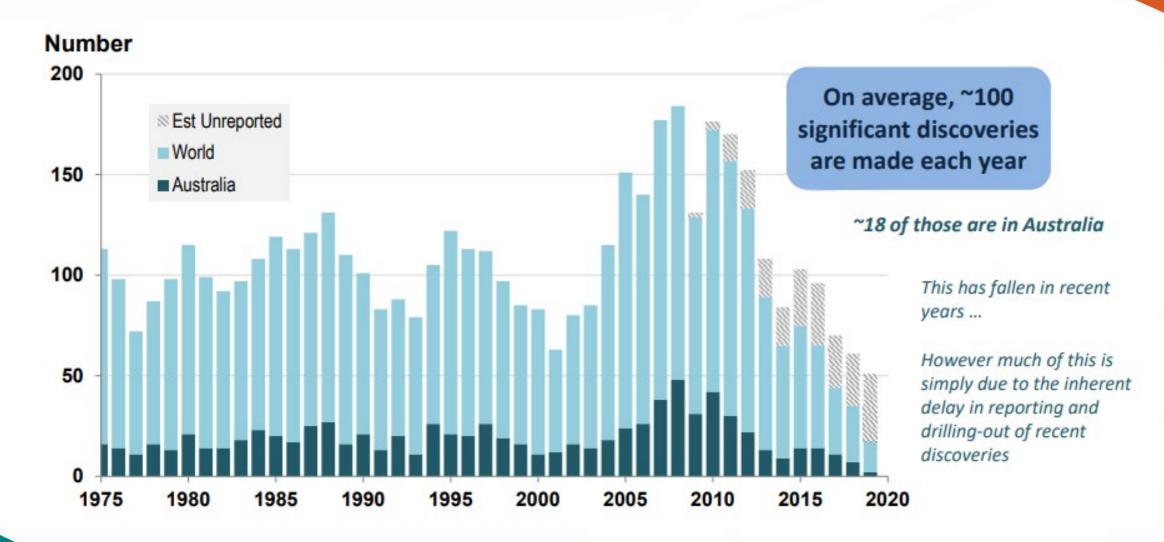
Trends in exploration – commodities



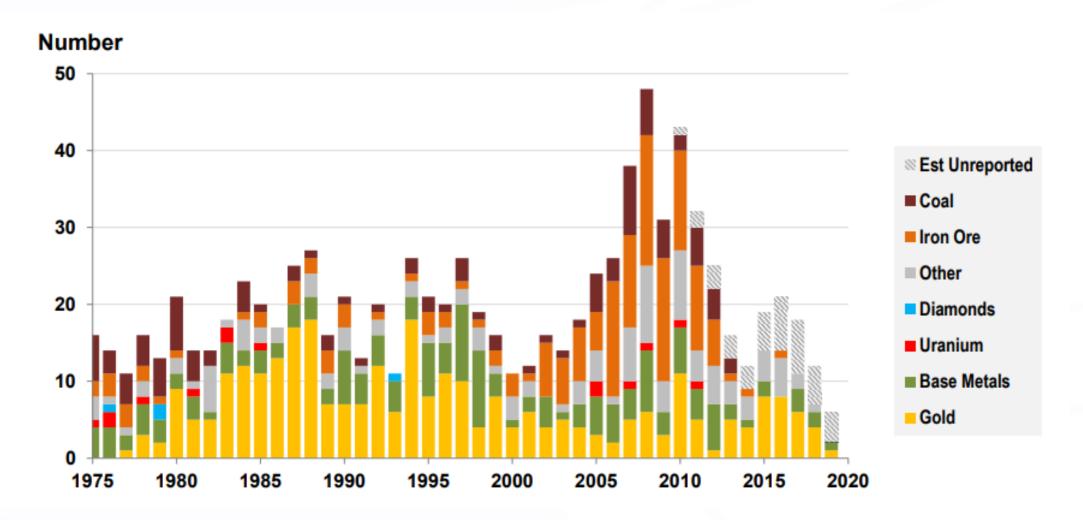
Trends in exploration – metres drilled



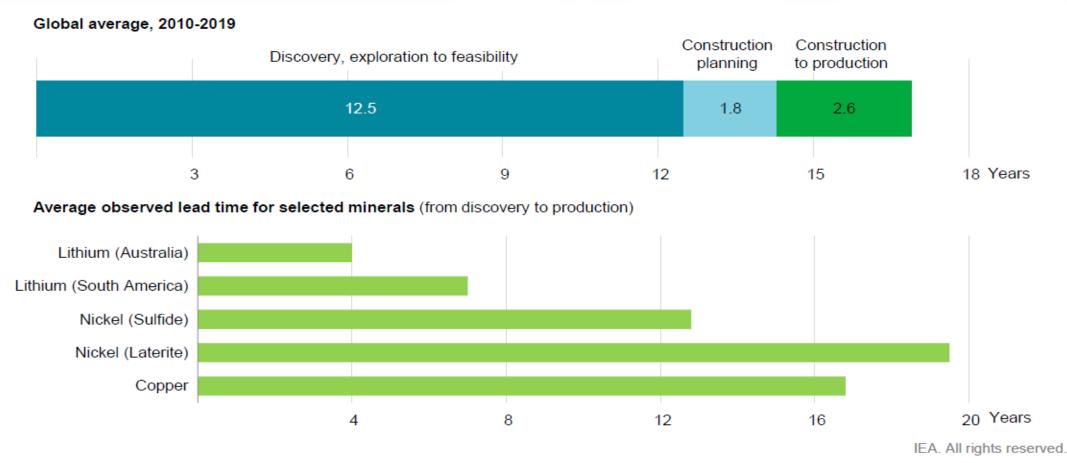
Discoveries



Discoveries

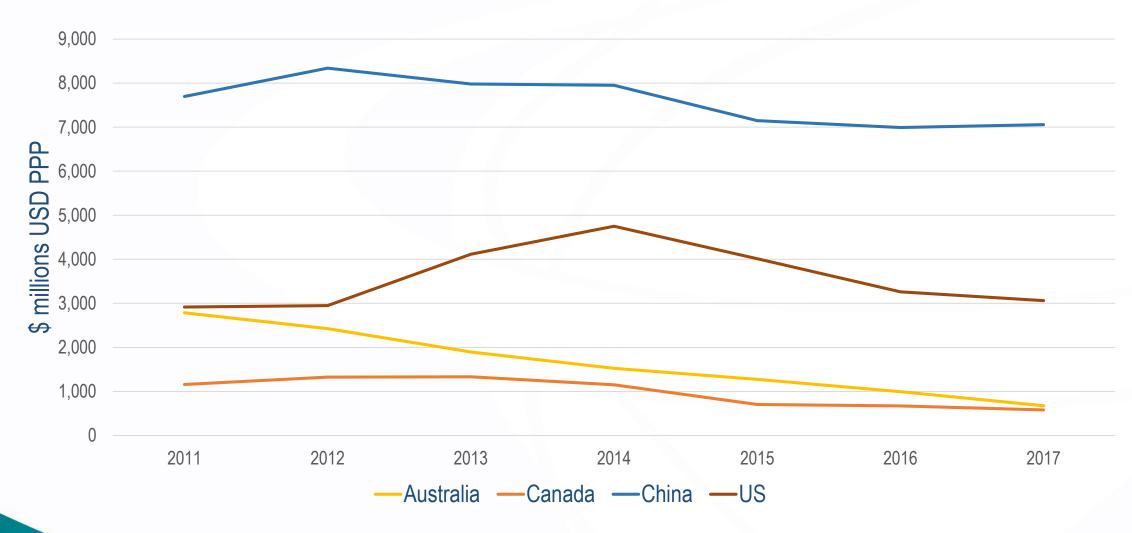


Project Lead Times



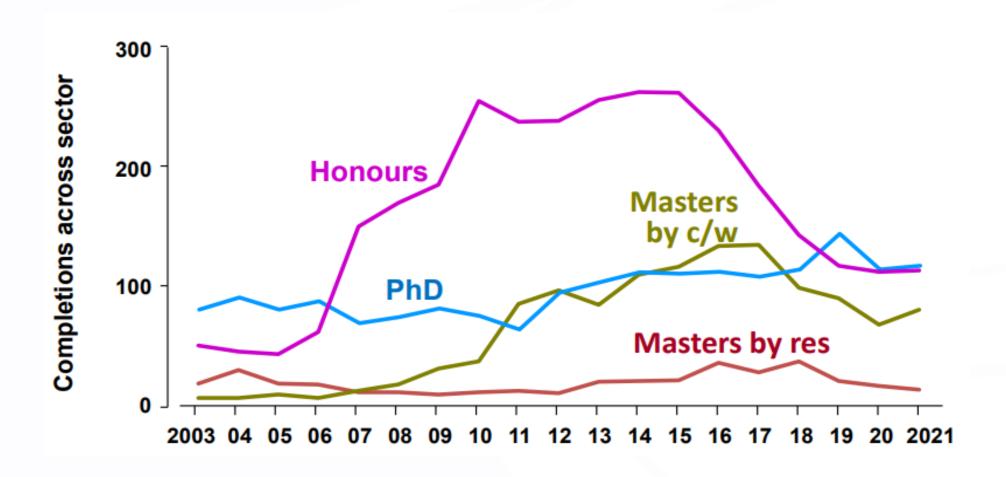
Note: Global average values are based on the top 35 mining projects that came online between 2010 and 2019. Source: IEA analysis based on S&P Global (2020), S&P Global (2019a) and Schodde (2017).

R & D – mining and quarrying

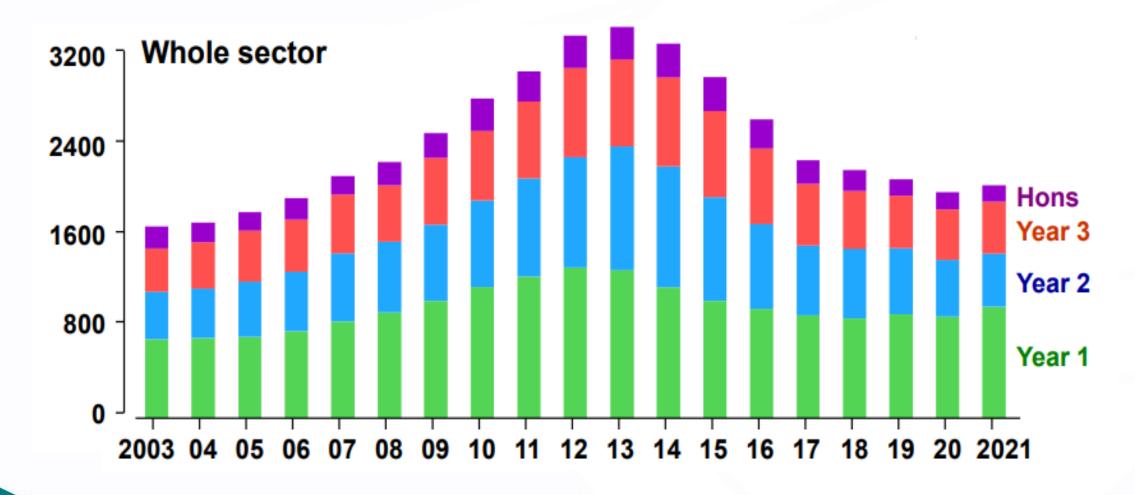


Source: OECD Research and Development Expenditure in Industry 2020

National completions in higher degrees



Student enrolments



Find More Viable Resources



- MinEx CRC
- UWA Centre for Exploration Targeting (CET)
- Curtin The Institute for Geoscience Research (TIGeR)
- CSIRO
- Murdoch University



- Accessing and promoting exploration research outcomes to increase their adoption and implementation
- 2. Supporting ongoing long-term foresight regarding future research and education needs around mineral exploration
- 3. Stimulating partnership opportunities in exploration research and education
- 4. Generating awareness of, and enthusiasm for, career pathways in exploration and geosciences.

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