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Canada's Minerals and Metals Sector

Natural Resources Canada
November 2018

Outline

- I. Overview of Canada's mining sector
- II. Canada and European Union Trade
- III. Potential supply

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I. Overview of Canada's mining sector

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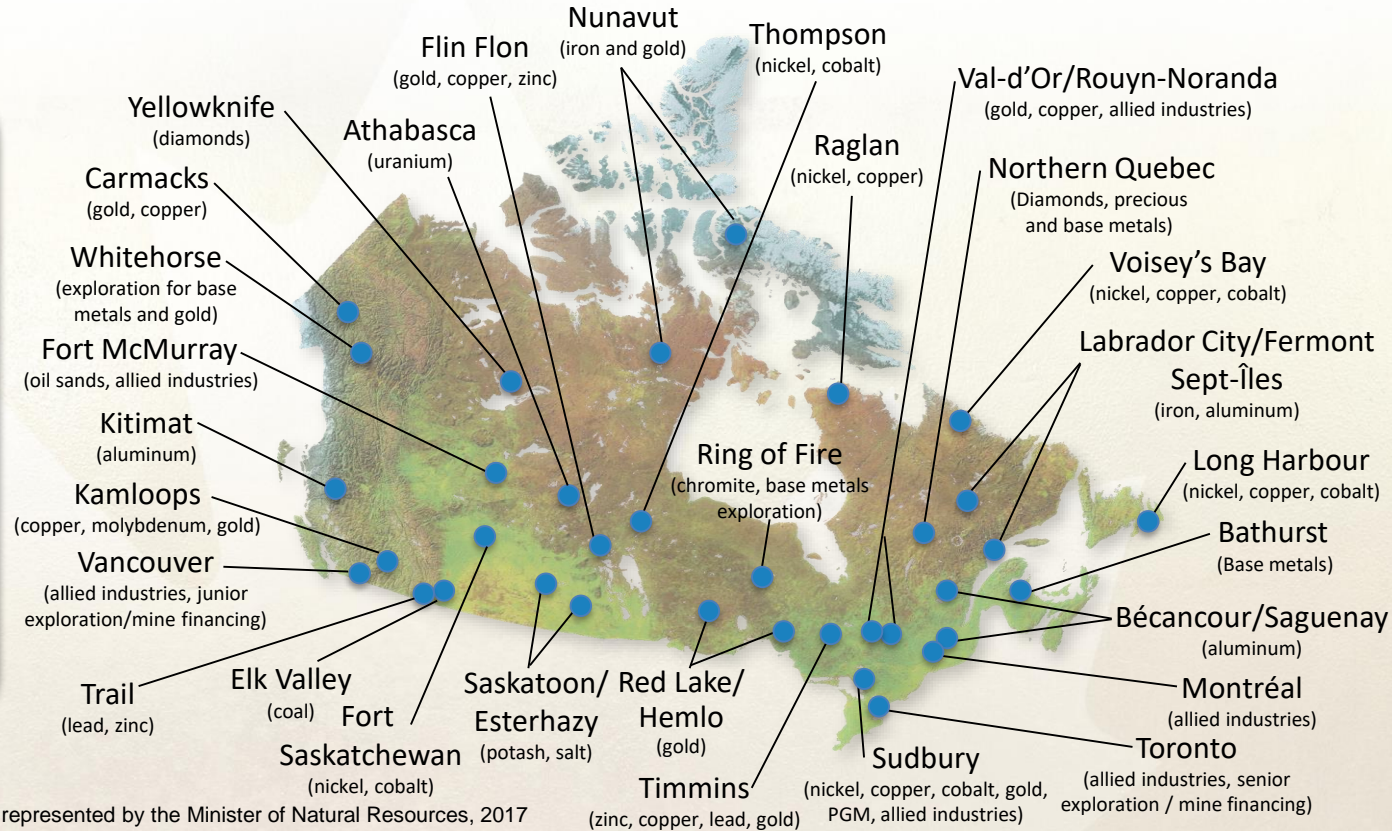
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Mining is present throughout Canada...

Over 60 minerals and metals produced at 200 mines, 7,000 quarries, and many processing operations

The industry supports allied industries, from machinery and equipment suppliers, to legal and financial professionals and downstream manufacturers.

Economic benefits are felt in rural and northern regions and large, urban centres.



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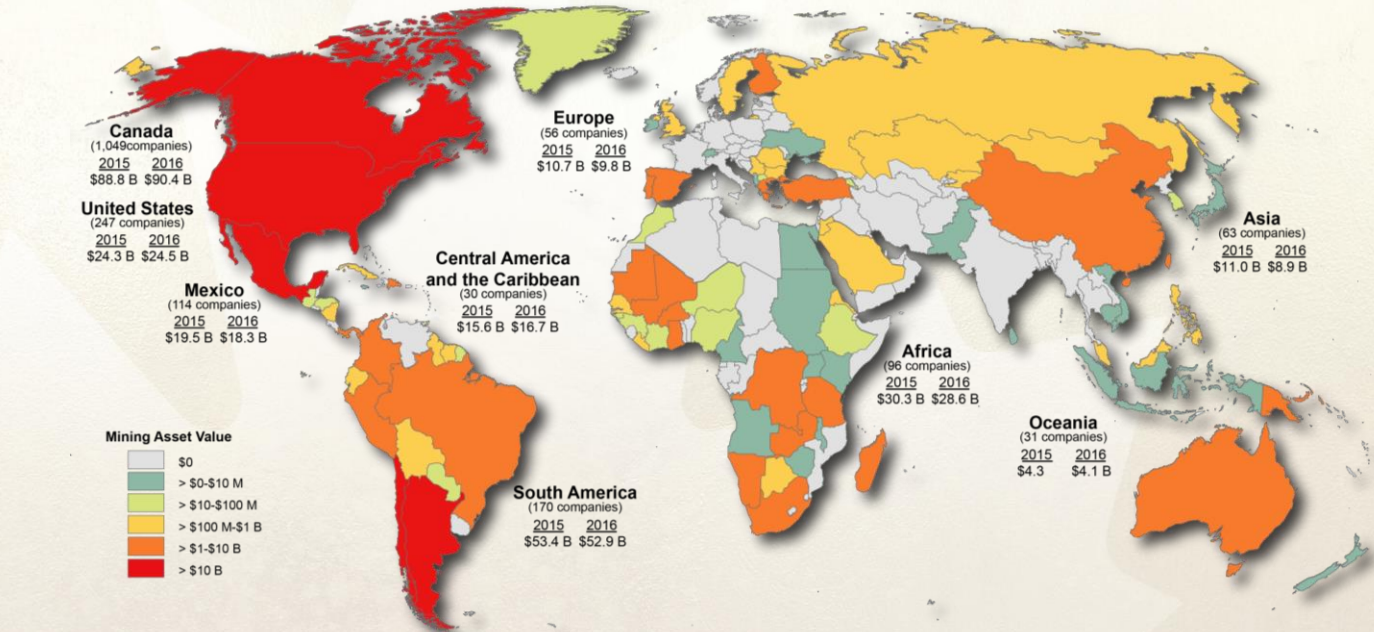
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...and Canadian companies are active around the world

Canadian mining and exploration companies are present in over 100 countries, with mining assets worth \$169 billion (2016).



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Sources : Natural Resources Canada.



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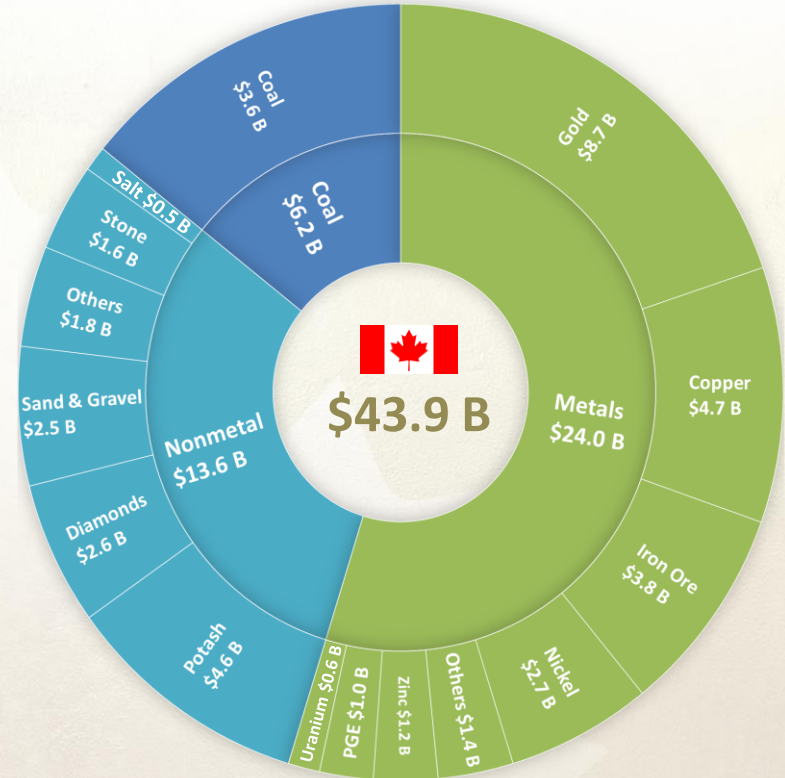
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Mineral production in Canada is well-diversified...

Mineral production in 2017

Commodity	Canadian global mine production ranking	Share of global production
Potash	1st	29%
Uranium	2nd	23%
Niobium	3rd	9%
Gemstones	3rd	18%
Nickel	3rd	10%
Platinum group metals	3rd	8%
Aluminum*	3rd	5%
Indium	3th	10%
Cobalt	4rd	4%
Diamonds	5th	10%
Titanium	5th	8%
Gold	5th	6%



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Sources : Natural Resources Canada, United States Geological Survey.



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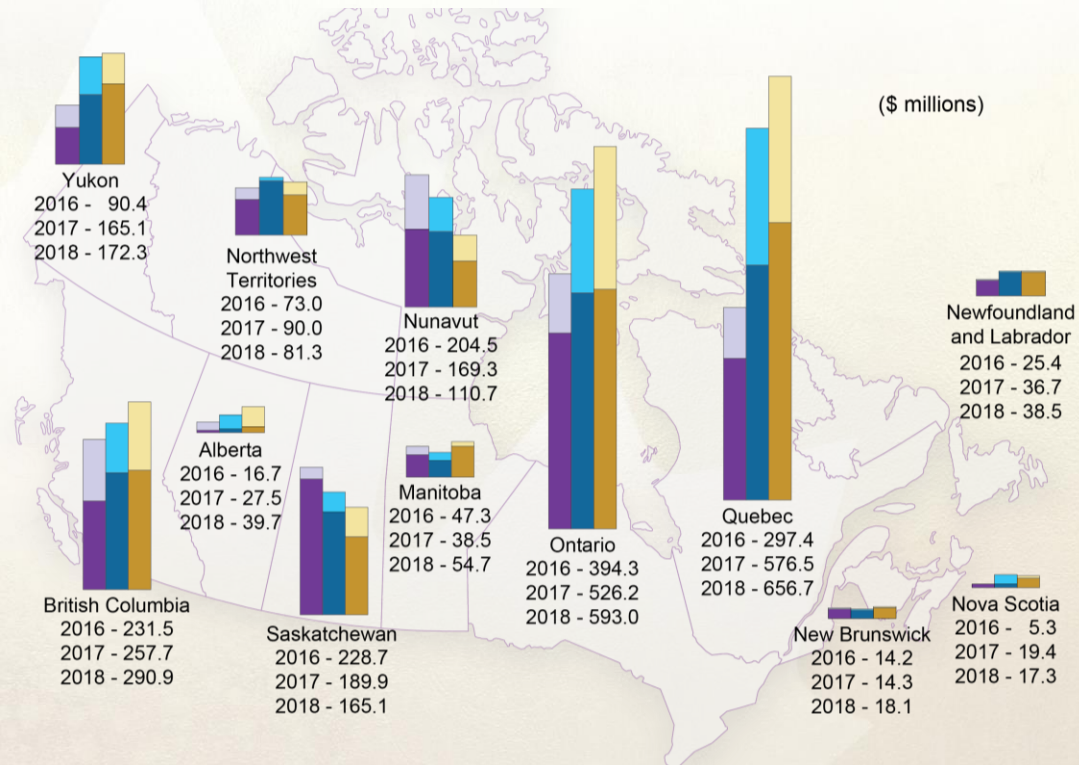
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...with exploration activity in every jurisdiction



2017 marked a turning point for activity in most jurisdictions

Critical metals group (cobalt, lithium) experienced the largest increase



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Sources : Natural Resources Canada



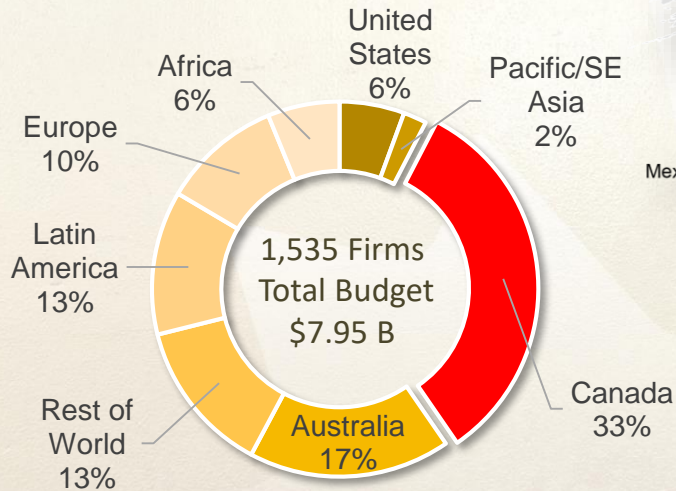
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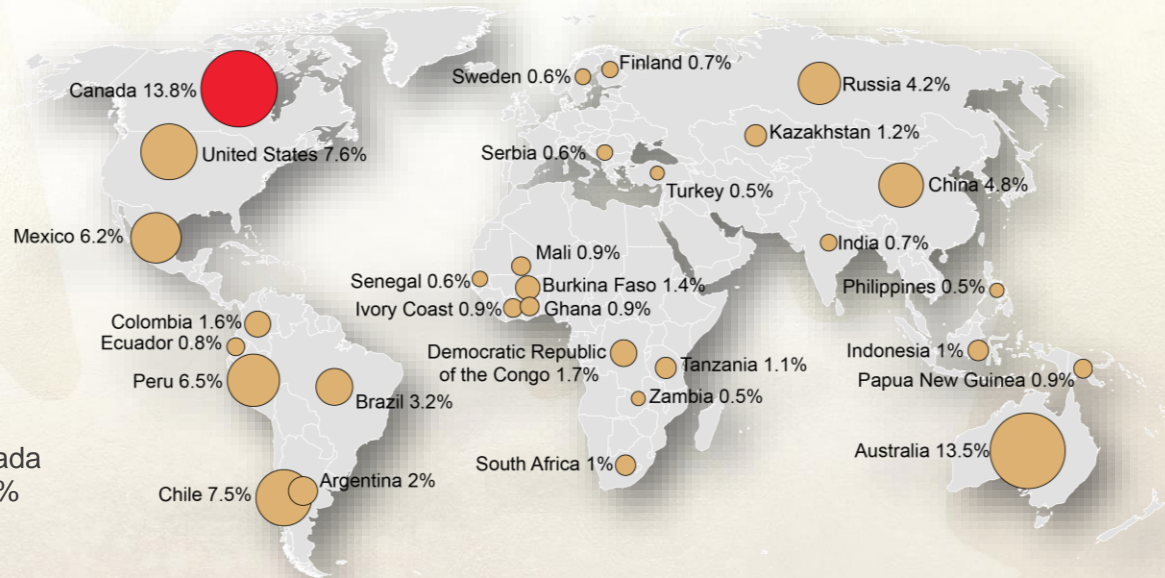
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Canada is at the centre of non-ferrous exploration activity

Exploration Budgets by headquarters location, (2017)



Exploration budgets by destination country (2017)



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Source: S&P Global Market Intelligence, Corporate Exploration Strategies 2017.



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II. Canada and European Union Trade

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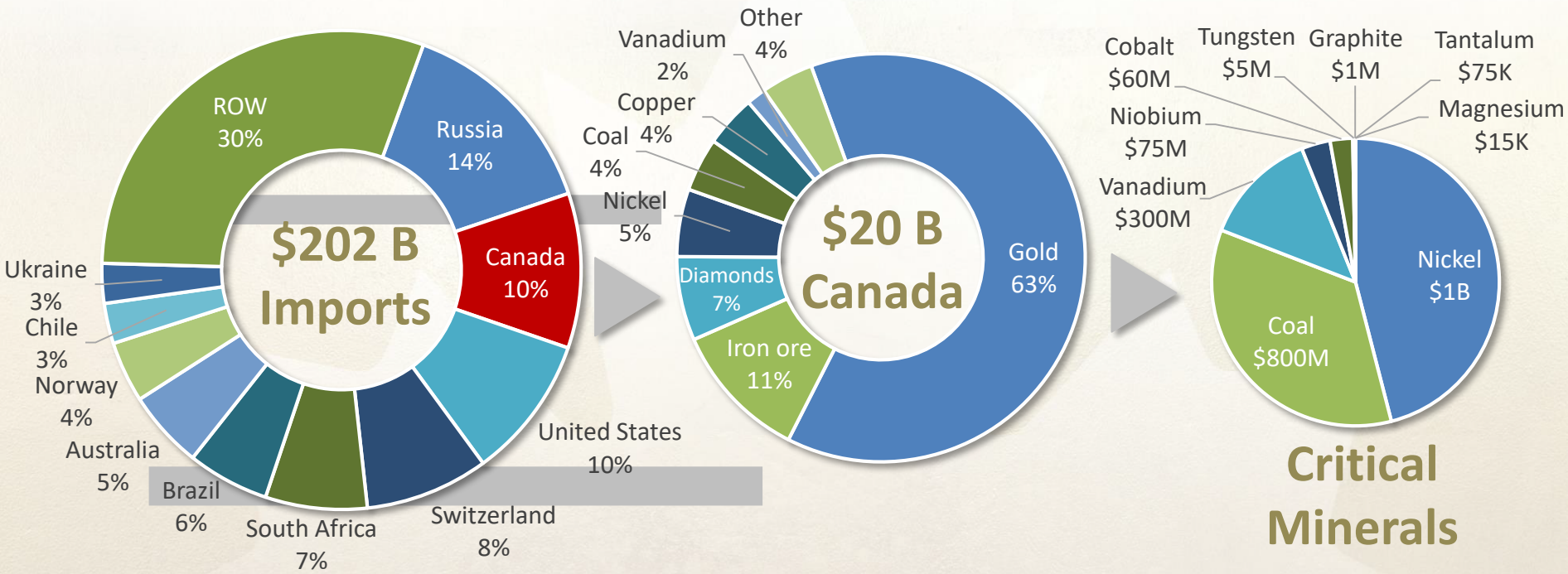


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Europe Union's Mineral Imports in 2017



Source: Natural Resources Canada, Global Trade Atlas.
Includes stage 1 (ores and concentrated) and stage 2 products (relatively pure metal or alloy from smelting an refining).

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Canada exports clean technology minerals



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Source: Natural Resources Canada, Statistics Canada. Includes ores, concentrates, and semi-fabricated mineral products



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III. Potential Supply

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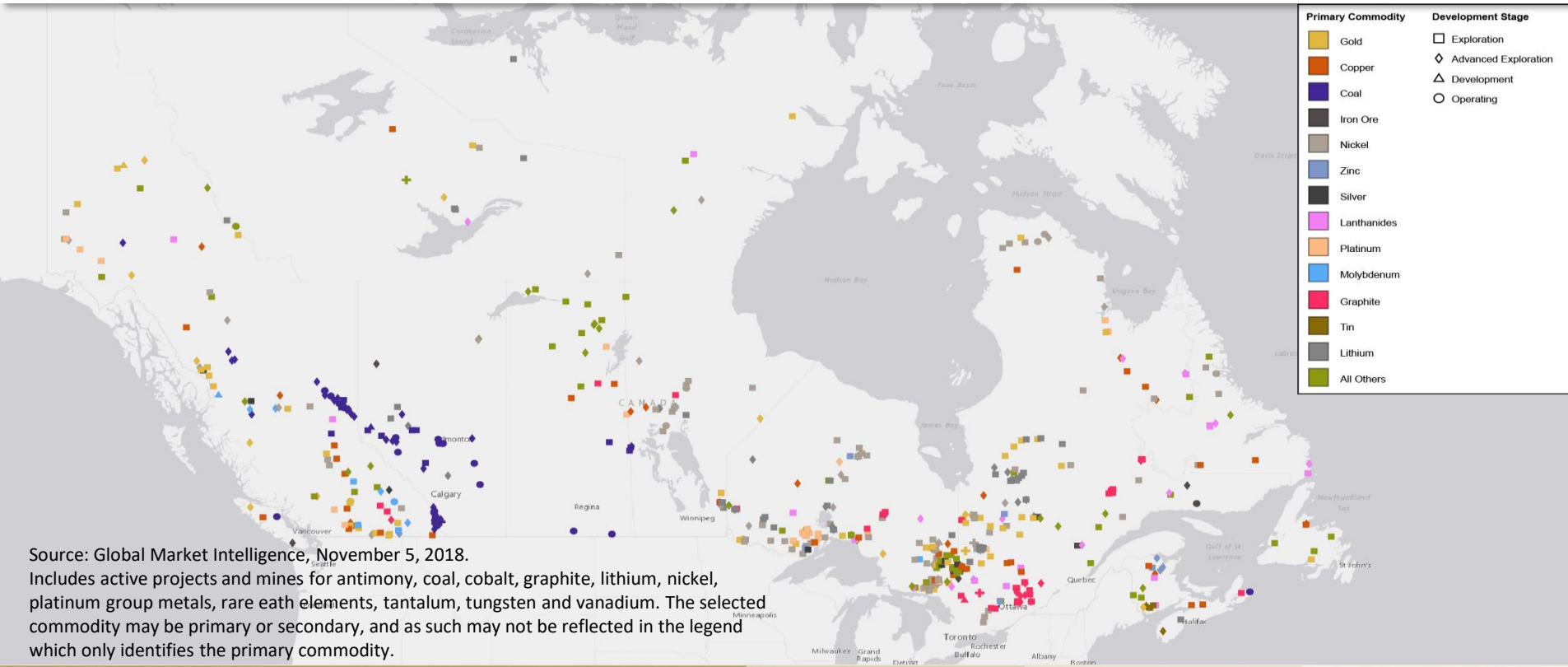


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Critical Mineral Projects in Canada



Source: Global Market Intelligence, November 5, 2018.
Includes active projects and mines for antimony, coal, cobalt, graphite, lithium, nickel, platinum group metals, rare earth elements, tantalum, tungsten and vanadium. The selected commodity may be primary or secondary, and as such may not be reflected in the legend which only identifies the primary commodity.



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Potential supply of clean technology metals

Cobalt

- Canada is the world's third largest producer
- Co-product from nickel mining and processing
- [Art.4.1(a) third intend]
- Potential for primary cobalt mines
- Ethical source

Copper

- Copper dominates in all renewables energy
- Canada has 11 million tonnes of copper reserves (roughly 1.4% of the world total)
- Canada maintains a vibrant copper recycling industry

Lithium

- Favorable geology
- [Art.4.1(a) third intend]
- Canada is well positioned to take advantage of future growth

Nickel

- Canada is a leading global nickel producer
- Large scale shovel-ready projects located in favorable jurisdictions
- Canada should benefit from the expected widespread shortage of nickel



Key Takeaways

- The EU is Canada's 2nd most important mineral export destination.
- Canada is already a supplier of critical raw materials to the EU.
- Canada has the potential to become an important source of responsible supply to meet Europe's critical mineral needs.

