

Geopolitical shocks and inflation: Critical raw materials

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Green and digital technologies rely on many **critical raw materials**



Source: IEA (2022).



Mounting geopolitical tensions raise concerns about the security of supply of critical raw materials



Source: S&P, Voeten (2013) and authors' calculations. Based on mine location. Bloc West consists of countries that are more closely aligned with western economies, based on votes at the UN General Assembly, 2014-21. Location of some reserves is undefined in the dataset.

Export restrictions on critical raw materials have increased substantially



Source: Global Trade Alert (as of 24 June 2024), UN Comtrade, US draft list of critical supply chains and authors' calculations. US Executive Order 14017 of 14 February 2021, with products defined on the basis of 8 or 10-digit HS codes and assigned to the critical minerals and materials for energy and ICT sectors.

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Geopolitical tensions may **lead to further export restriction**



Source: Global Trade Alert (as of 24 June 2024), UN Comtrade, US draft list of critical supply chains and authors' calculations. US Executive Order 14017 of 14 February 2021, with products defined on the basis of 8 or 10-digit HS codes and assigned to the critical minerals and materials for energy and ICT sectors.

Note: Critical products are a broader category than critical raw materials

What is certain

Export restrictions can be introduced quickly Developing a new mine takes more than a decade

What are the known unknows

How will **geopolitical tensions** affect the supply of critical raw materials?

Will the **speed of green transition**, and hence the **demand for critical** raw materials, change?

How fast can **innovation** find ways of substituting away from some critical raw materials?

What it implies for inflation

Trade in critical raw materials as a source of inflationary shocks

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