



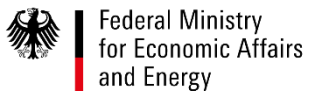
Innovative Lösungen für Produktivität und Sicherheit im peruanischen Bergbau | 5. Deutsch-Peruanisches Rohstoffforum |
20. & 21.10.2020 | Online

Überblick zur aktuellen Lage an den globalen Rohstoffmärkten

The current situation on the global raw materials markets – an overview

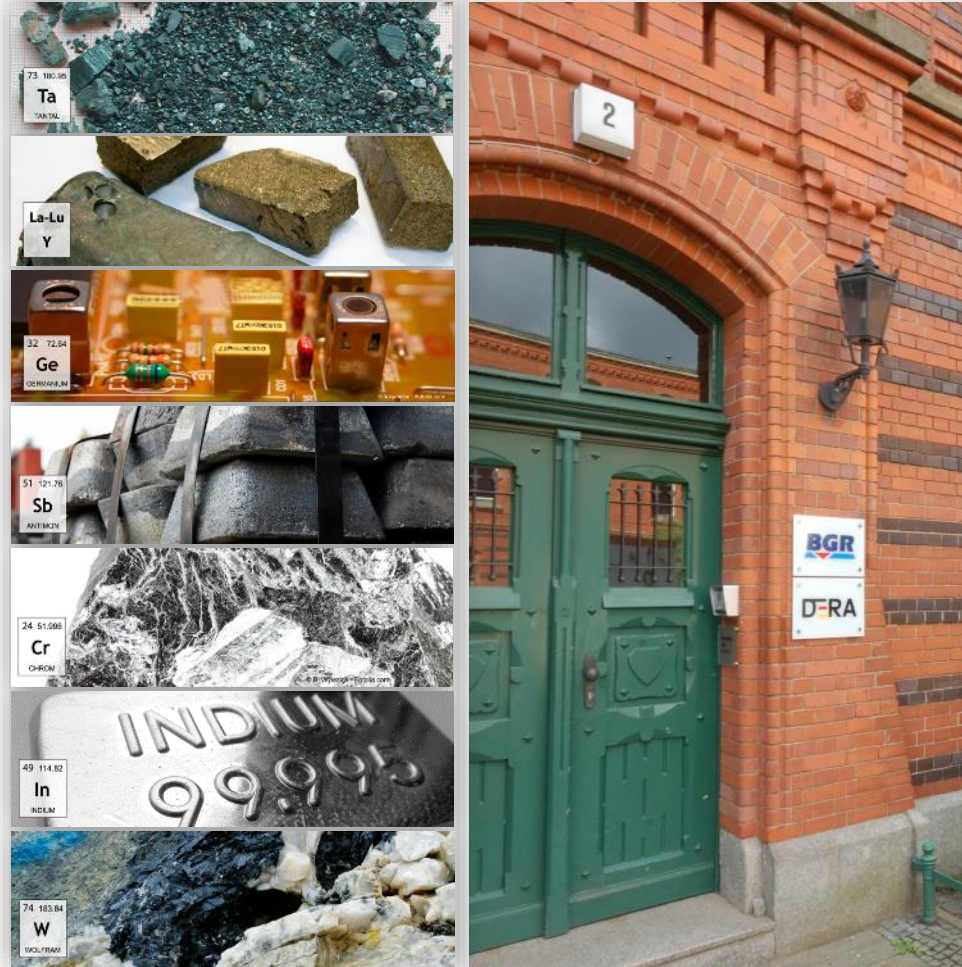
Dr. Sven-Uwe Schulz

German Mineral Resources Agency (DERA) at the
Federal Institute for Geosciences and Natural Resources (BGR)



The Federal Institute for Geosciences and Natural Resources is the central geoscientific authority providing advice to the German Federal Government in all geo-relevant questions. It is subordinate to the Federal Ministry for Economic Affairs and Energy (BMWi).

German Mineral Resources Agency (DERA)



- national information and consultancy platform for mineral raw materials
- part of German Geological Survey, Federal Institute for Geosciences and Natural Resources, BGR
- Mission:
contribute to a secure, affordable and sustainable mineral raw material supply for German industry via:
 - Market Analyses
 - Raw Materials Monitoring
 - Evaluation of Mineral Resources

Germany`s raw material supply relies on three pillars

- Germany meets its demands for building materials and various minerals from **domestic sources**.
- The last German metal ore mine was shut down in 1992.
- Since then, all of Germany`s need for metals has had to be met either by **importing** metals or by **recovering** them from scrap.





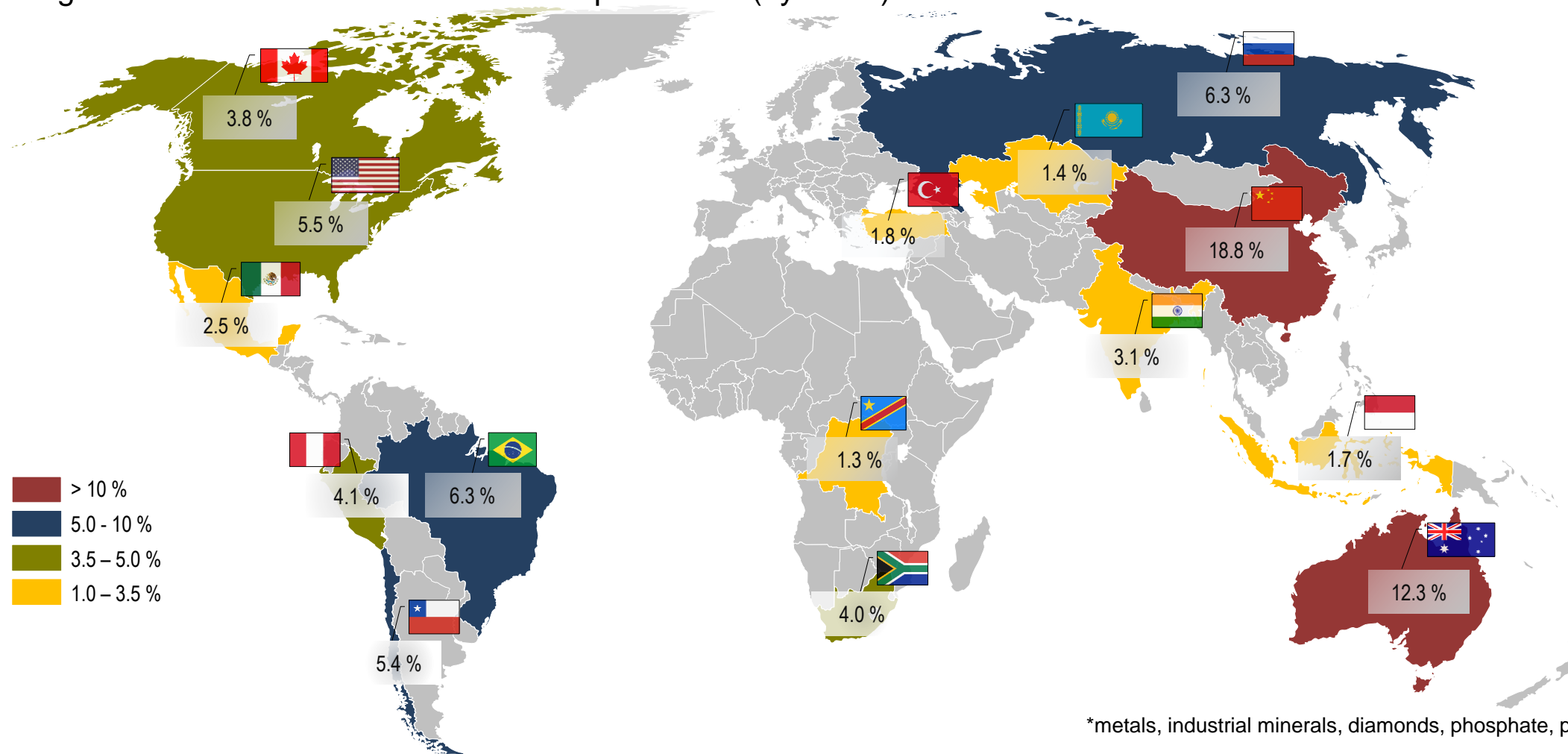
A responsible policy on raw materials to boost the **competitiveness** of German industry.

The Federal Government and the private sector agree that companies are themselves responsible for ensuring that they have the resources they need.

The German Government has been contributing to this effort by adopting a **Raw Materials Strategy**, under which it has taken a large number of supportive **measures**.

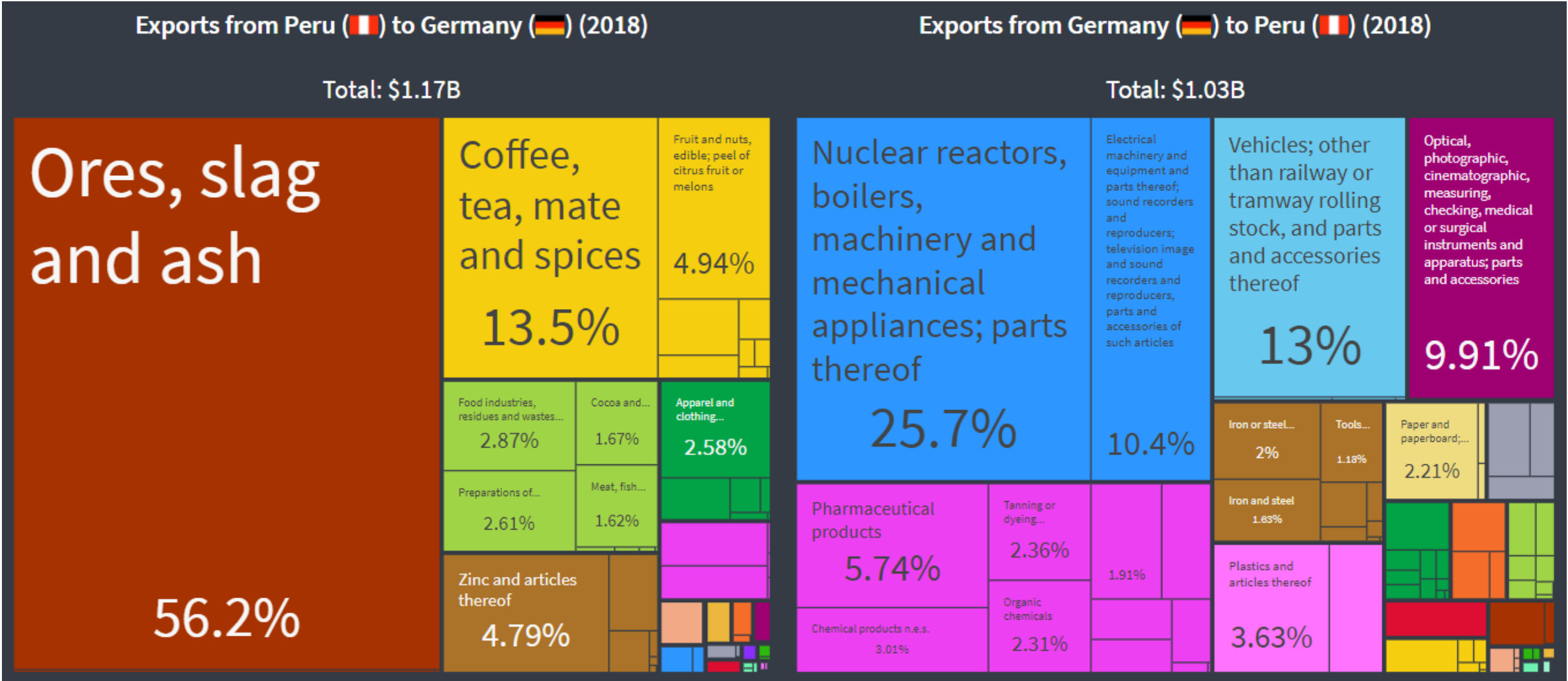
Global mine production (2016)

Mining countries with shares > 1% of world production (by value)*



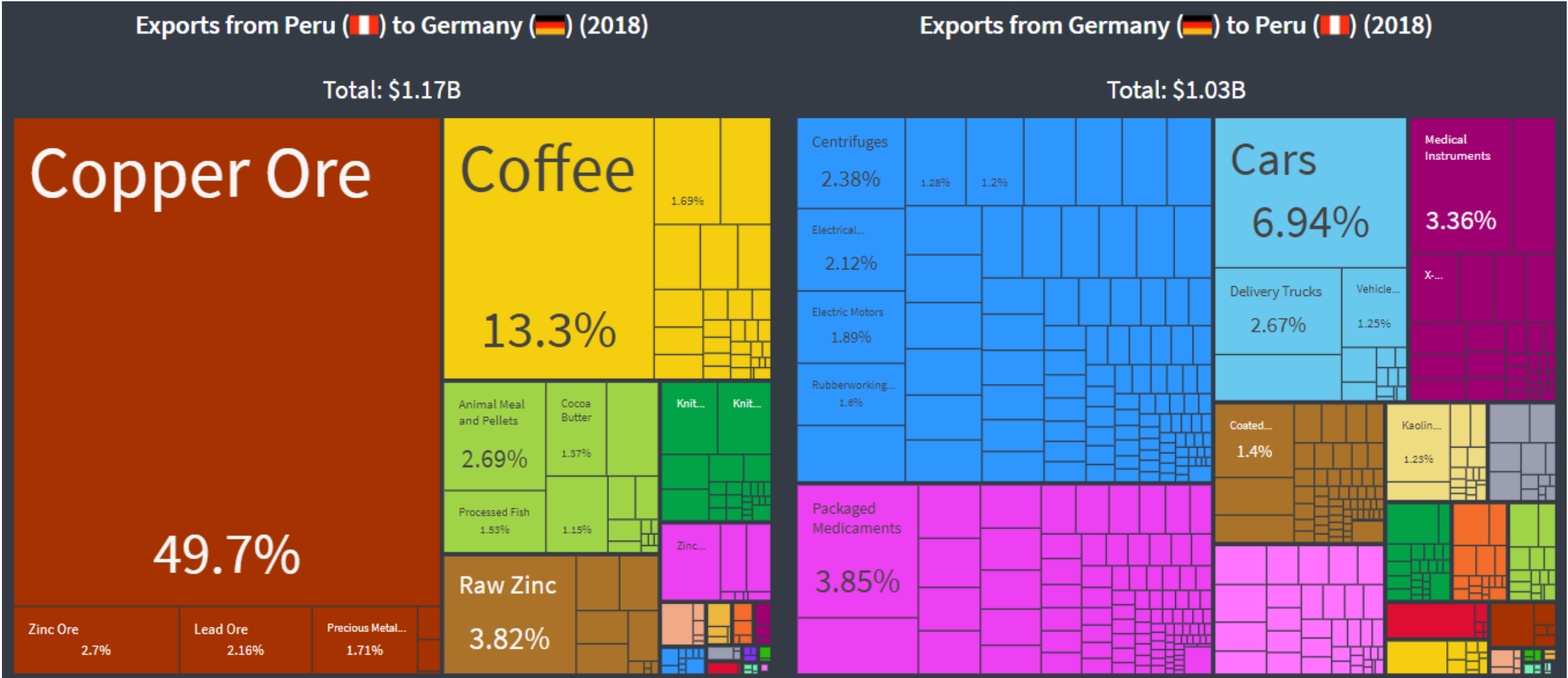
→ 15 countries representing 78 % of world mine production (total value 2016: ca. 595 bn US\$)

Bilateral trade between Peru and Germany (2018)



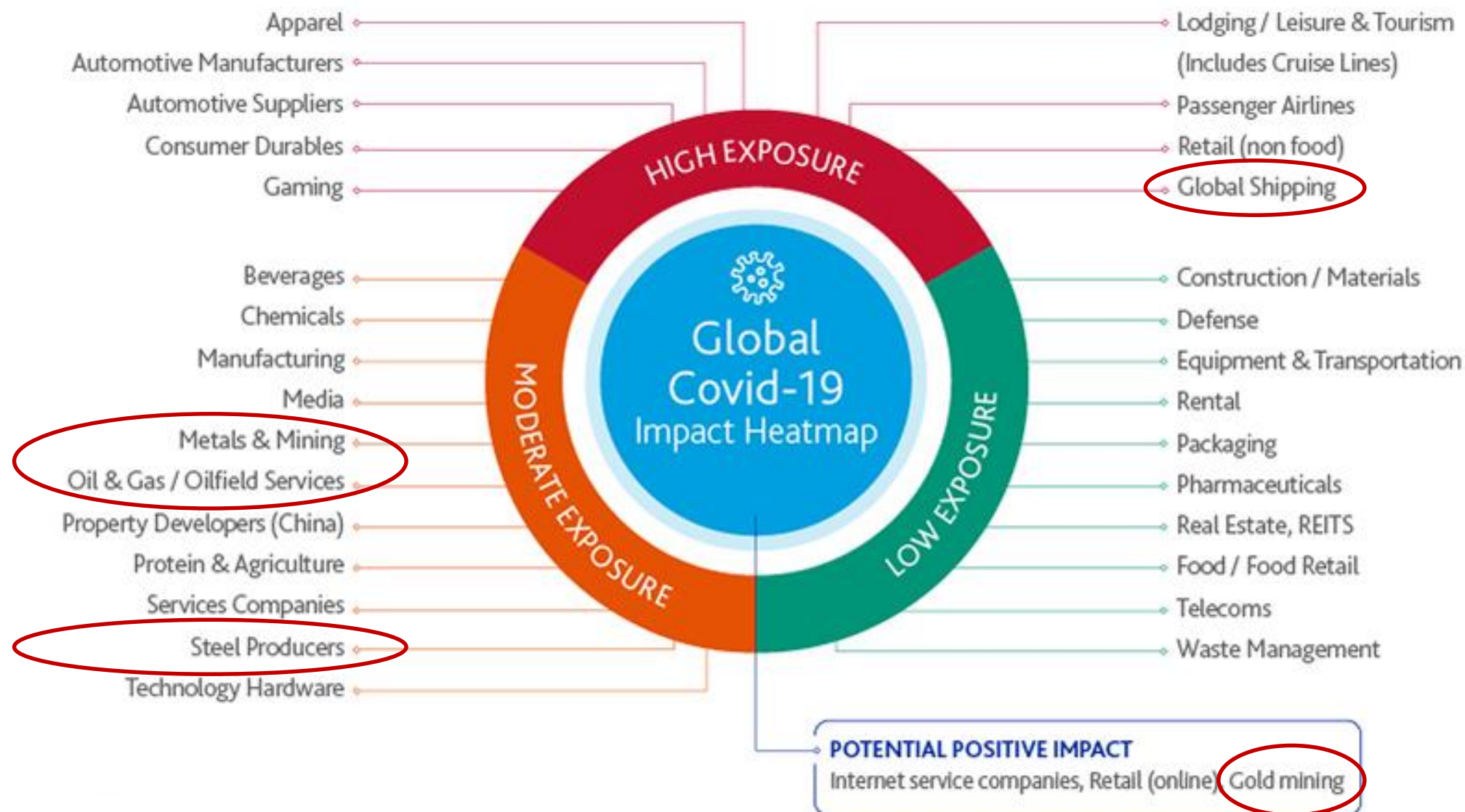
source: <https://oec.world/en/profile/bilateral-country/per/partner/deu> (Oct 2020)

Bilateral trade between Peru and Germany (2018)

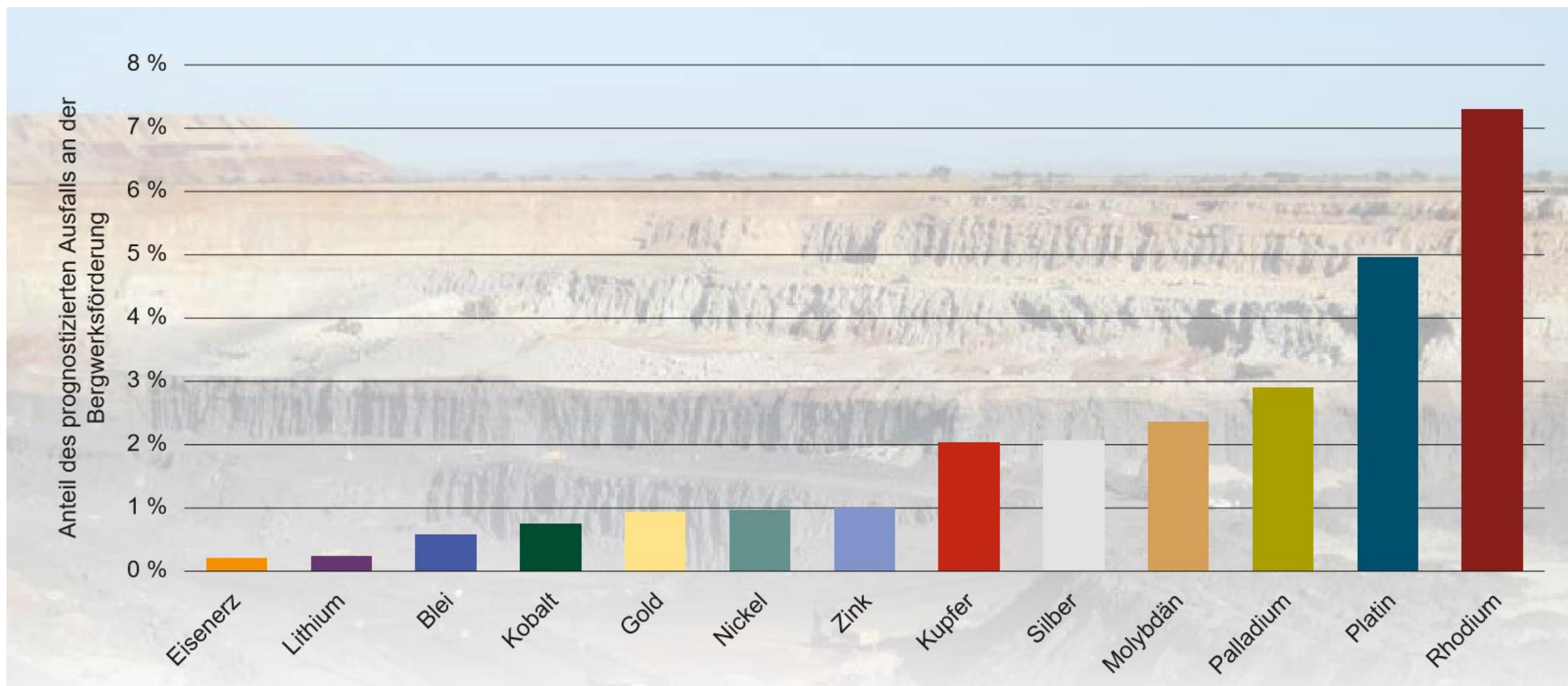


source: <https://oec.world/en/profile/bilateral-country/per/partner/deu> (Oct 2020)

Expected influence of COVID-19 to the economic sectors (März 2020)

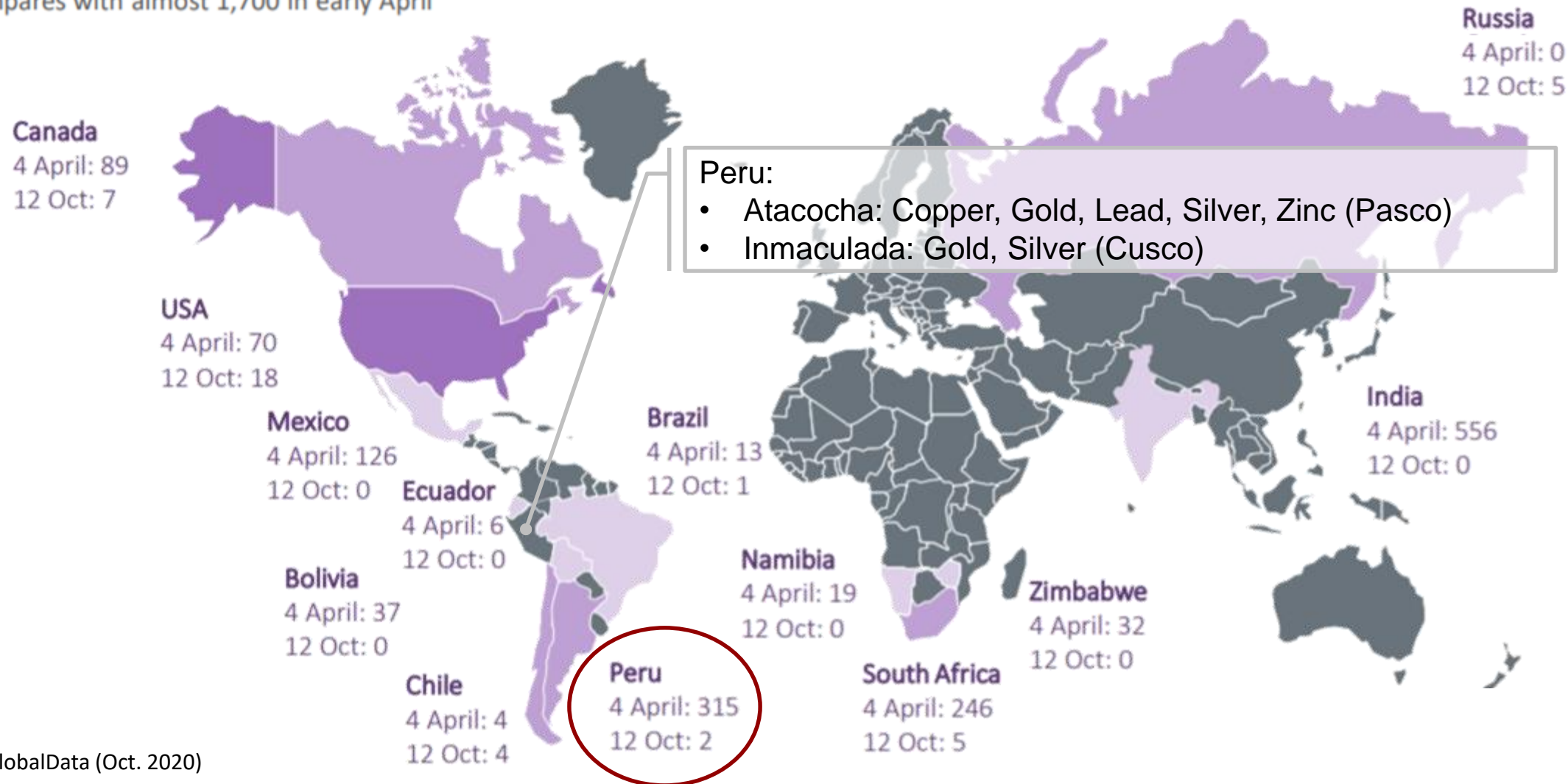


Impacts of COVID-19 to the global mining industry by April 2020



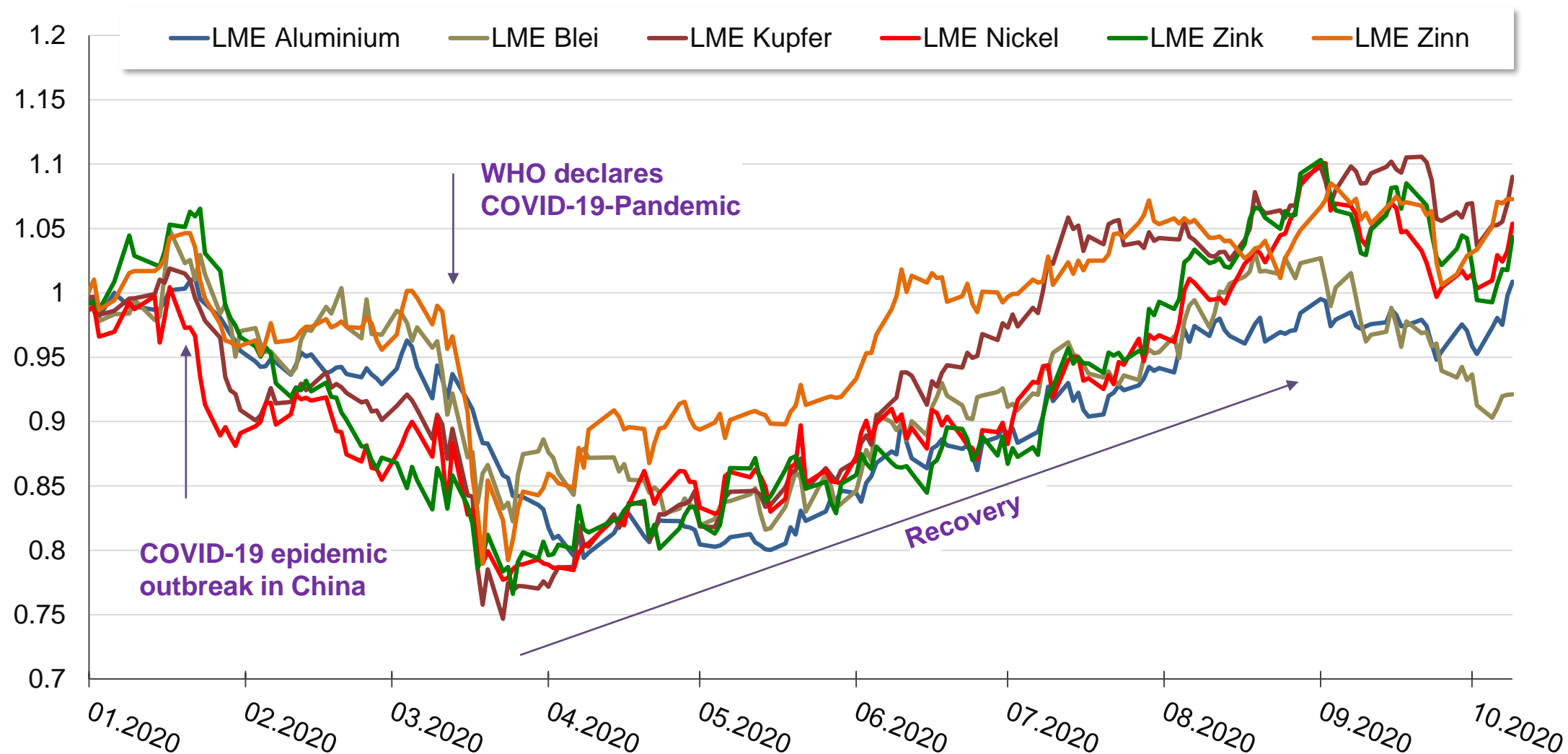
Lockdown: Mine closures or production decreases caused by COVID-19

Suspensions of mining have now been ended, with 77 mines on-hold due to COVID-19 on 12 October according to GlobalData's Mines & Projects Database. This compares with almost 1,700 in early April

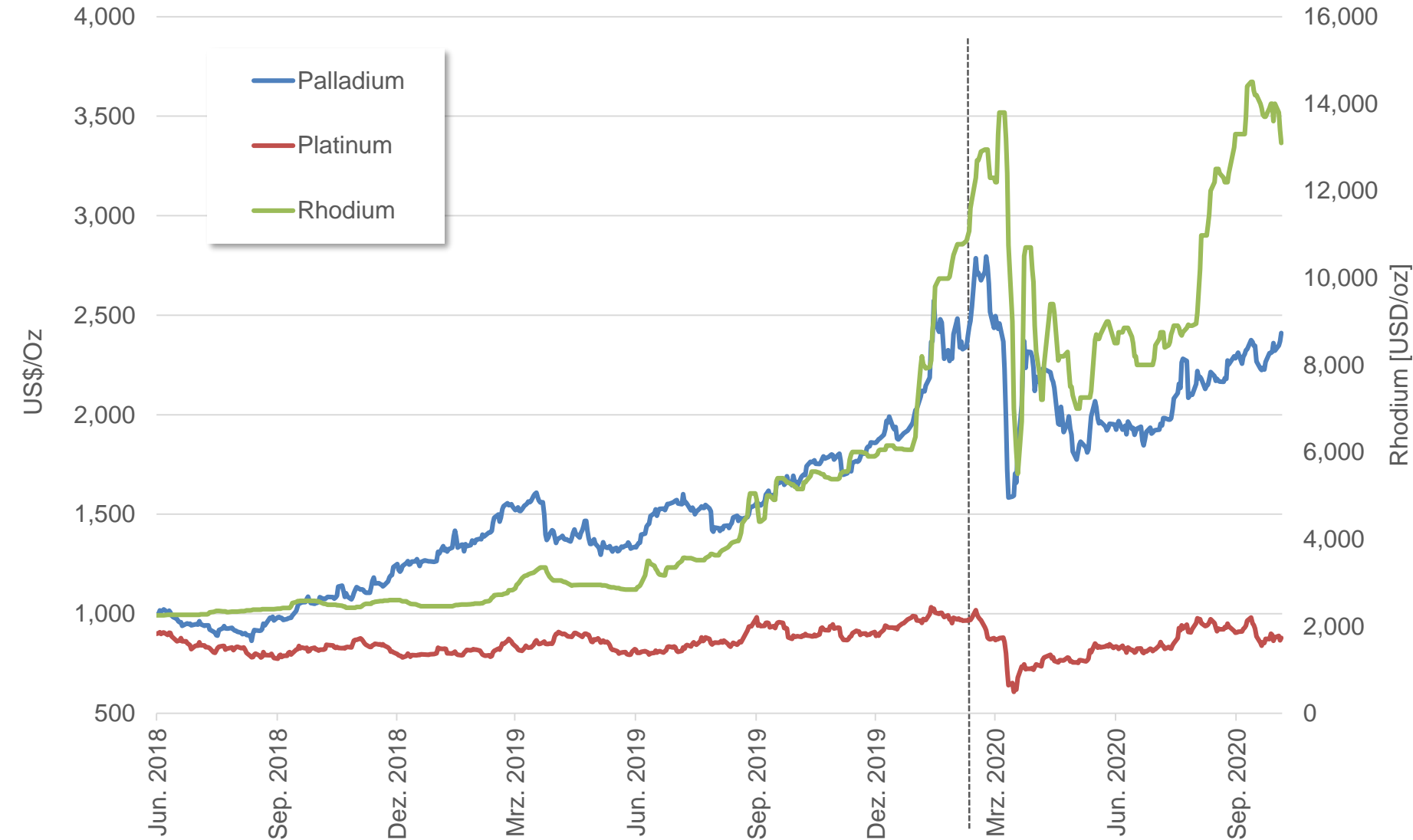


Quelle: GlobalData (Oct. 2020)

Development of prices (relative) for LME metals and iron ore since January 2020



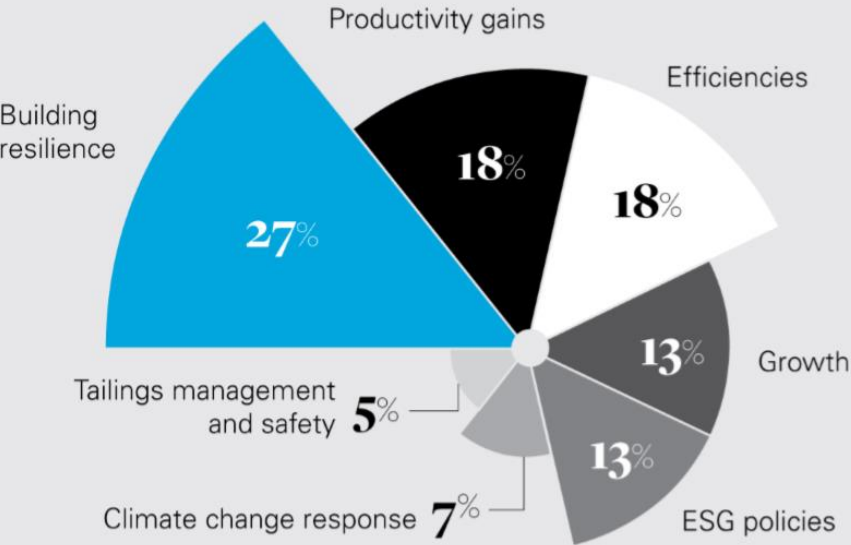
Platinum Group Elements – New Hit: Rhodium



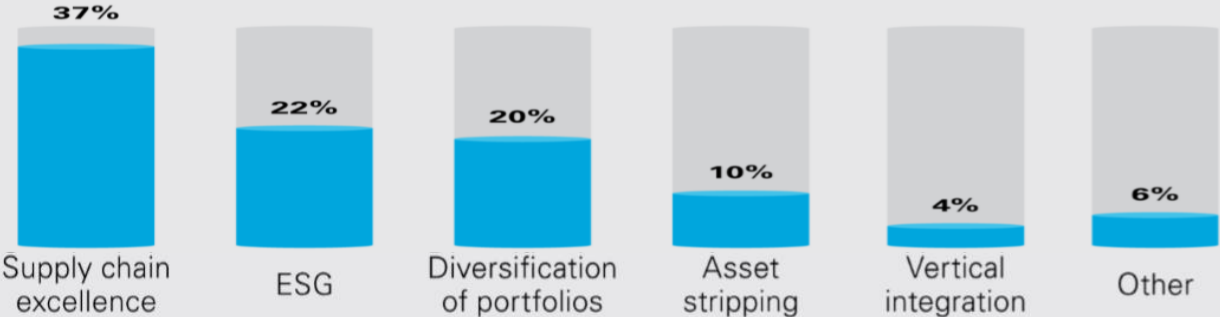
- Price explosion at Palladium and Rhodium
- Increased demand driven by Nachfrageanstieg emission standard Euro-Norm 6d-Temp since Sept. 2019
- Limited market, decreasing stocks
- Price collapse by COVID-19 → demand collapse
- Lockdown in South Africa brought prices back → Worries on supply
- Platinum: diesel catalyst
- Palladium and Rhodium: gasoline engines
- Rhodium: byproduct Pt(/Pd), annual production: 25 t

Quo Vadis Mining Sector post COVID-19

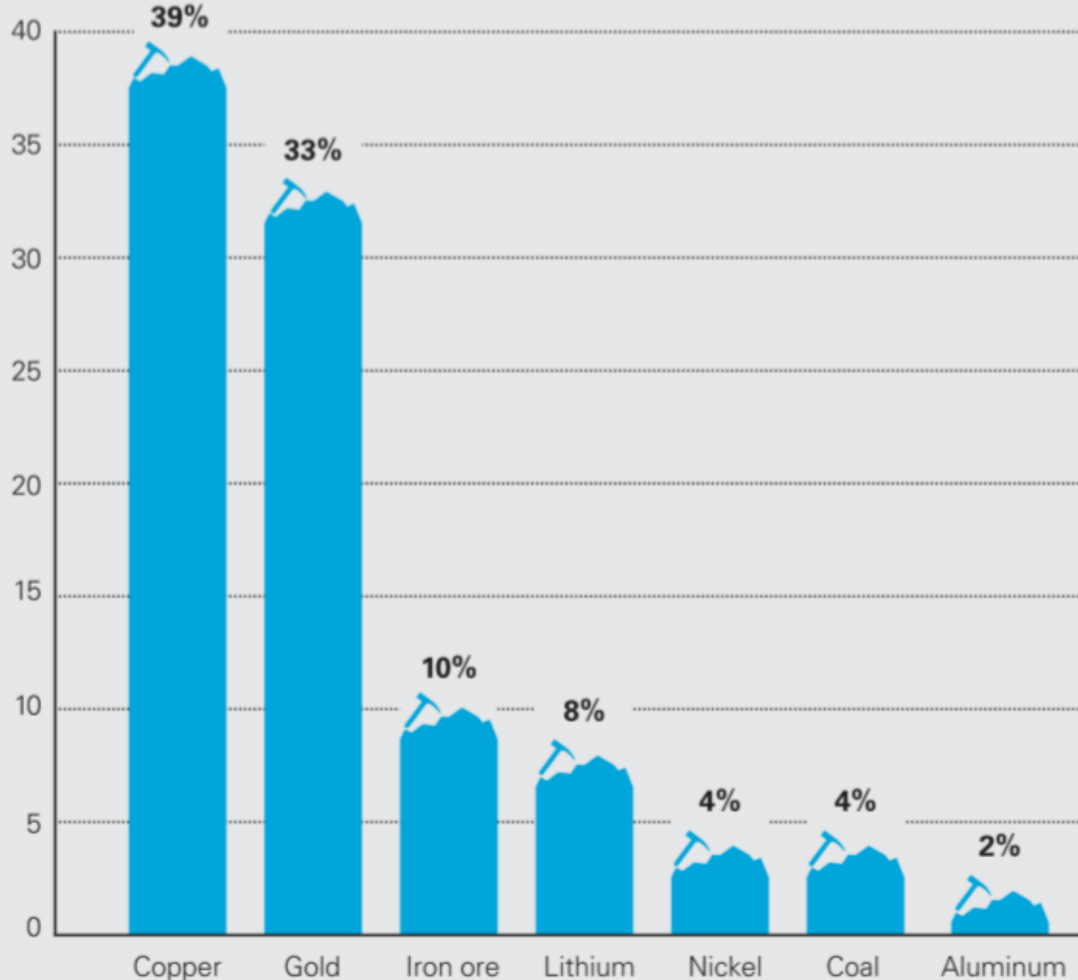
Post-COVID-19, what will be the main priority for the mining sector?



How do you expect the mining industry will build greater resilience for the future?

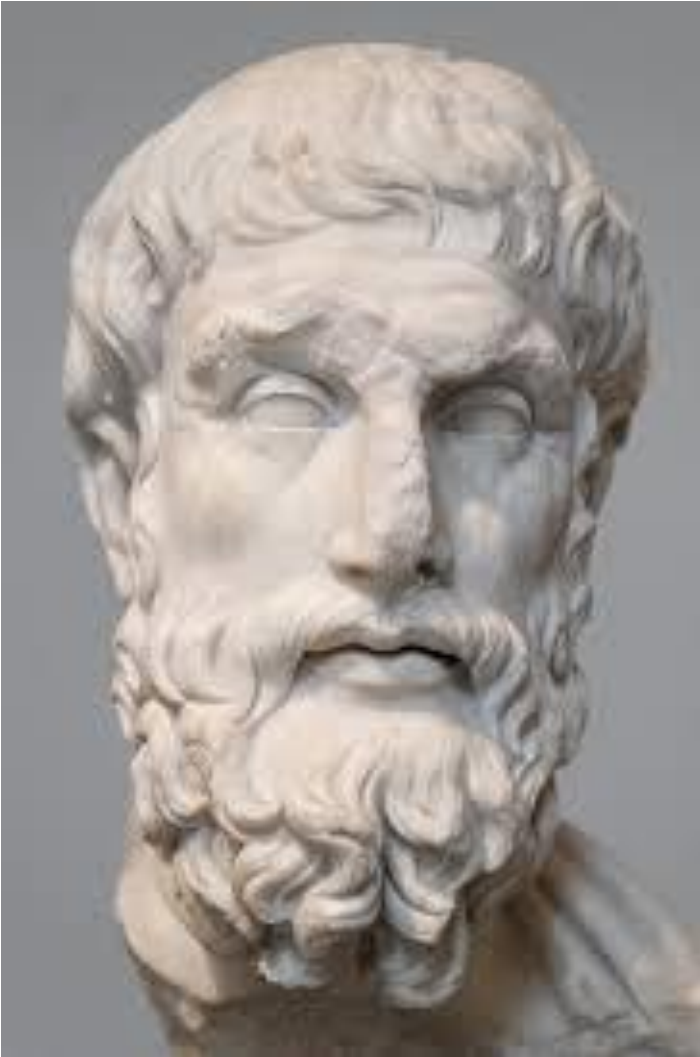


Which commodity is more likely to recover quickest post-COVID-19?



source: White & Case, <https://www.whitecase.com/publications/insight/mining-metals-covid-19-world-underlying-resilience-masks-esg-concerns> (Jul 2020)

¡Muchas Gracias!



Epicurus of Samos (341 – 270 b.C.)

Ein einziger Grundsatz wird dir Mut geben, nämlich der,
dass kein Übel ewig währt

One principle will give you courage,
and that is that no evil lasts forever