

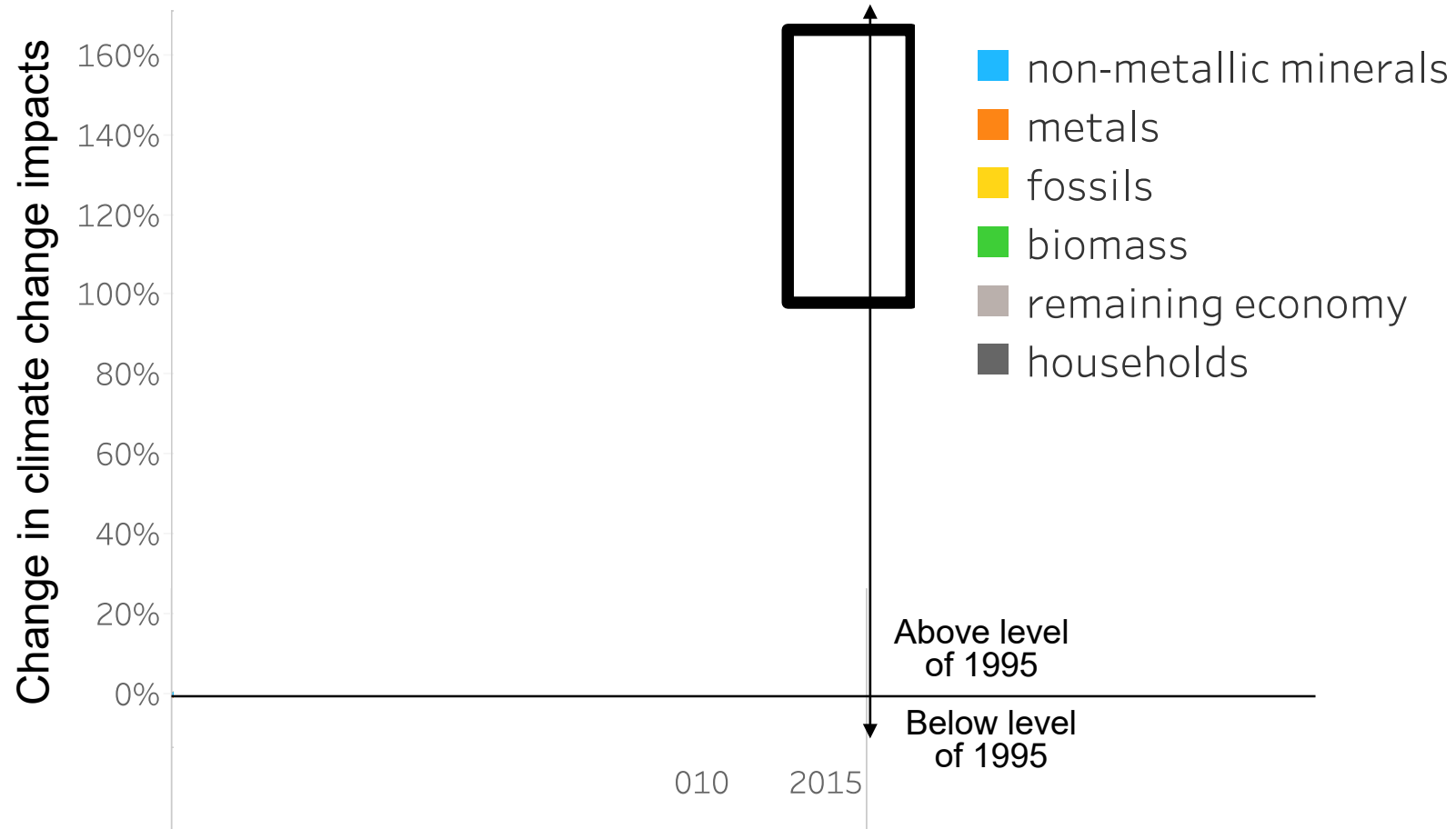


# Responsible Mining

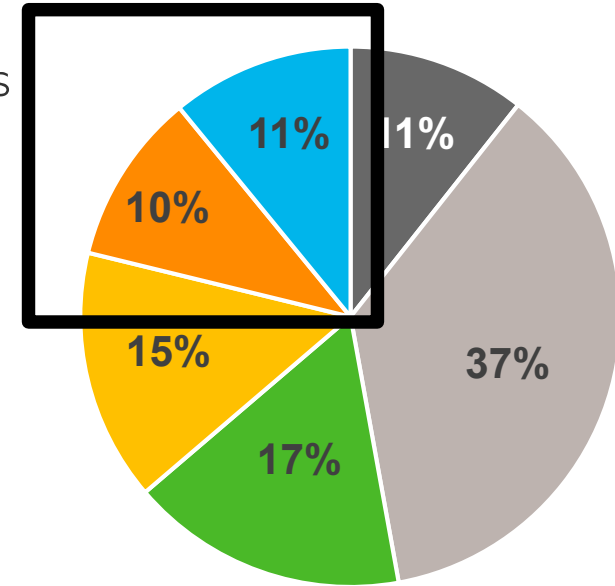
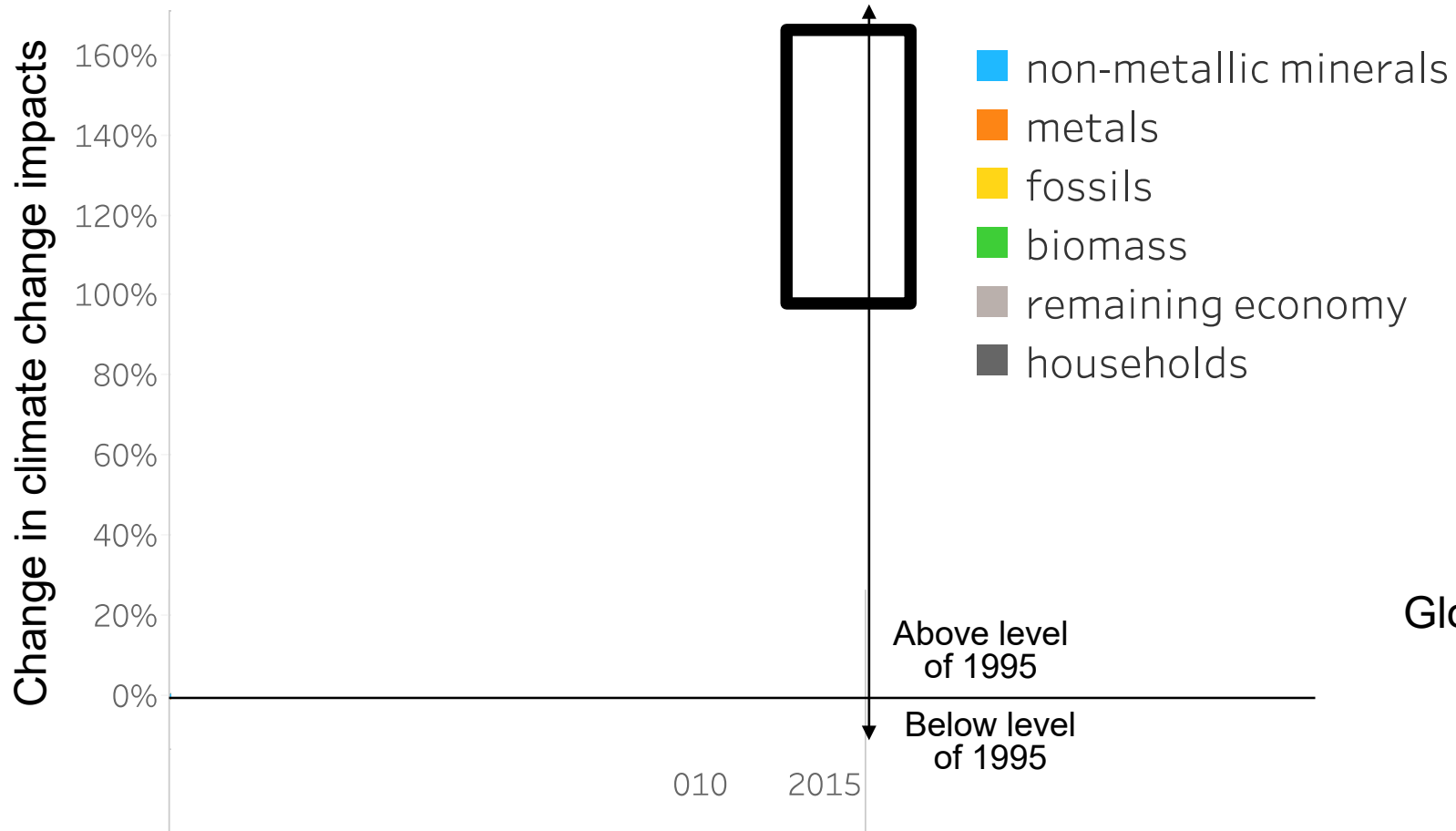
Corporate Responsibility of Swiss Commodity Traders in the Minerals Sector

**Introduction Talk by Livia Cabernard**

# Global carbon footprint of minerals has more than doubled over the past two decades

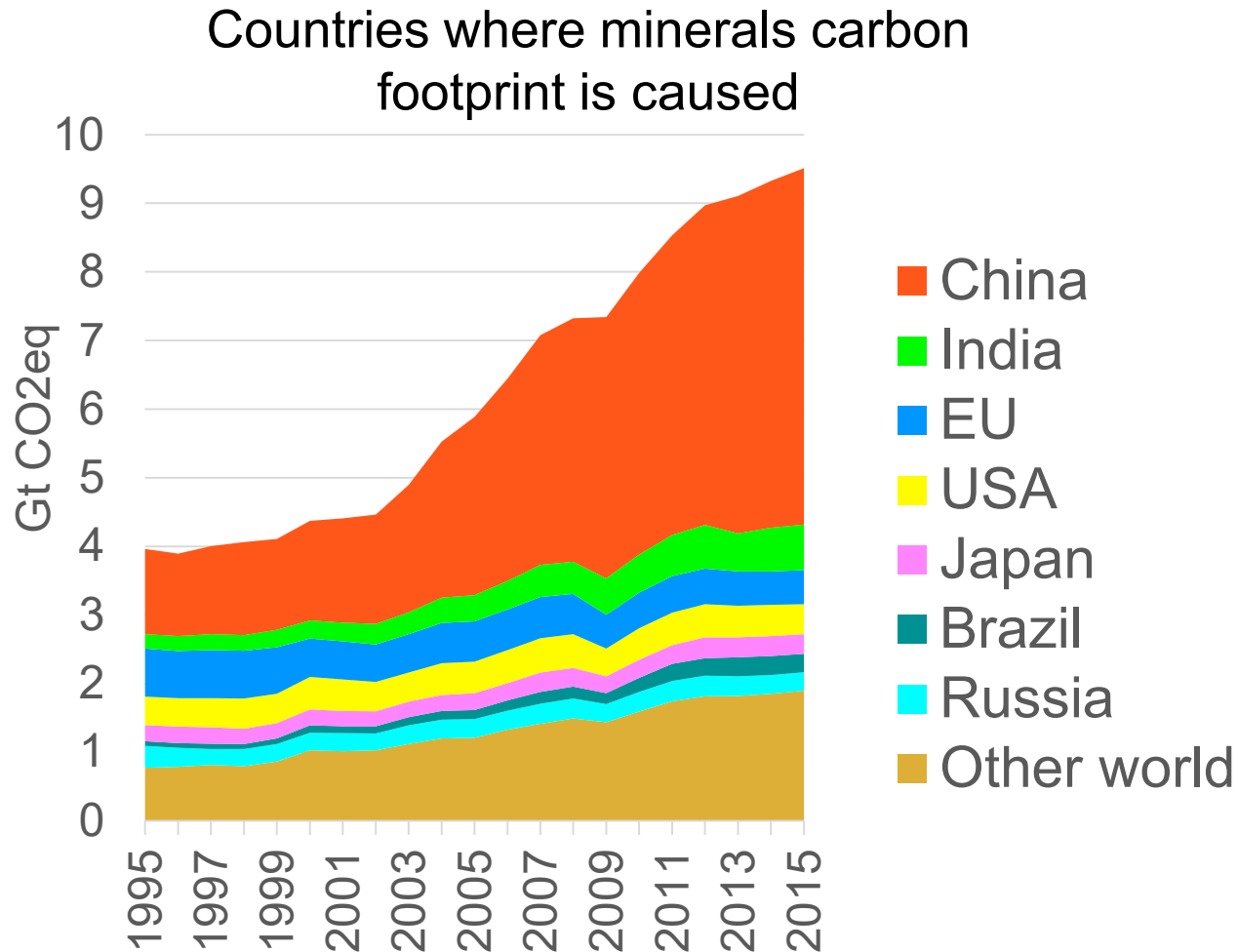


# Minerals contribute to 20% of global climate change impacts in 2015



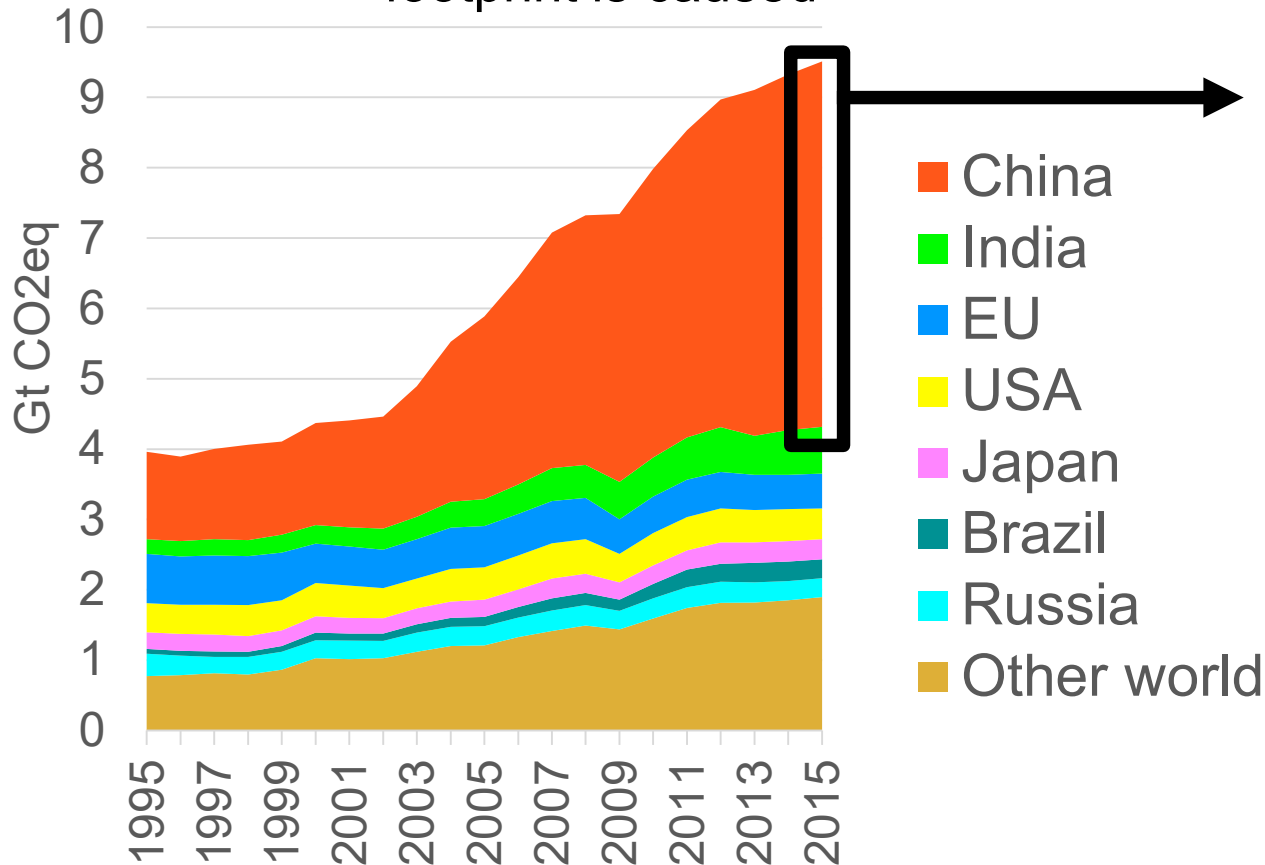
Global climate change impacts in 2015

# This increase is driven by China's production

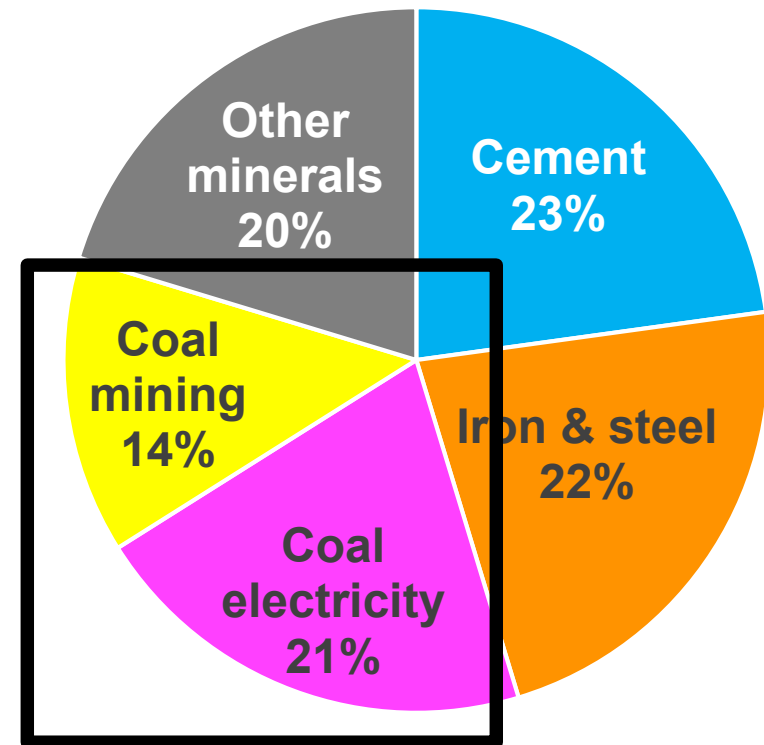


# China's production is very dirty: A lot of coal is used to produce minerals

Countries where minerals carbon footprint is caused



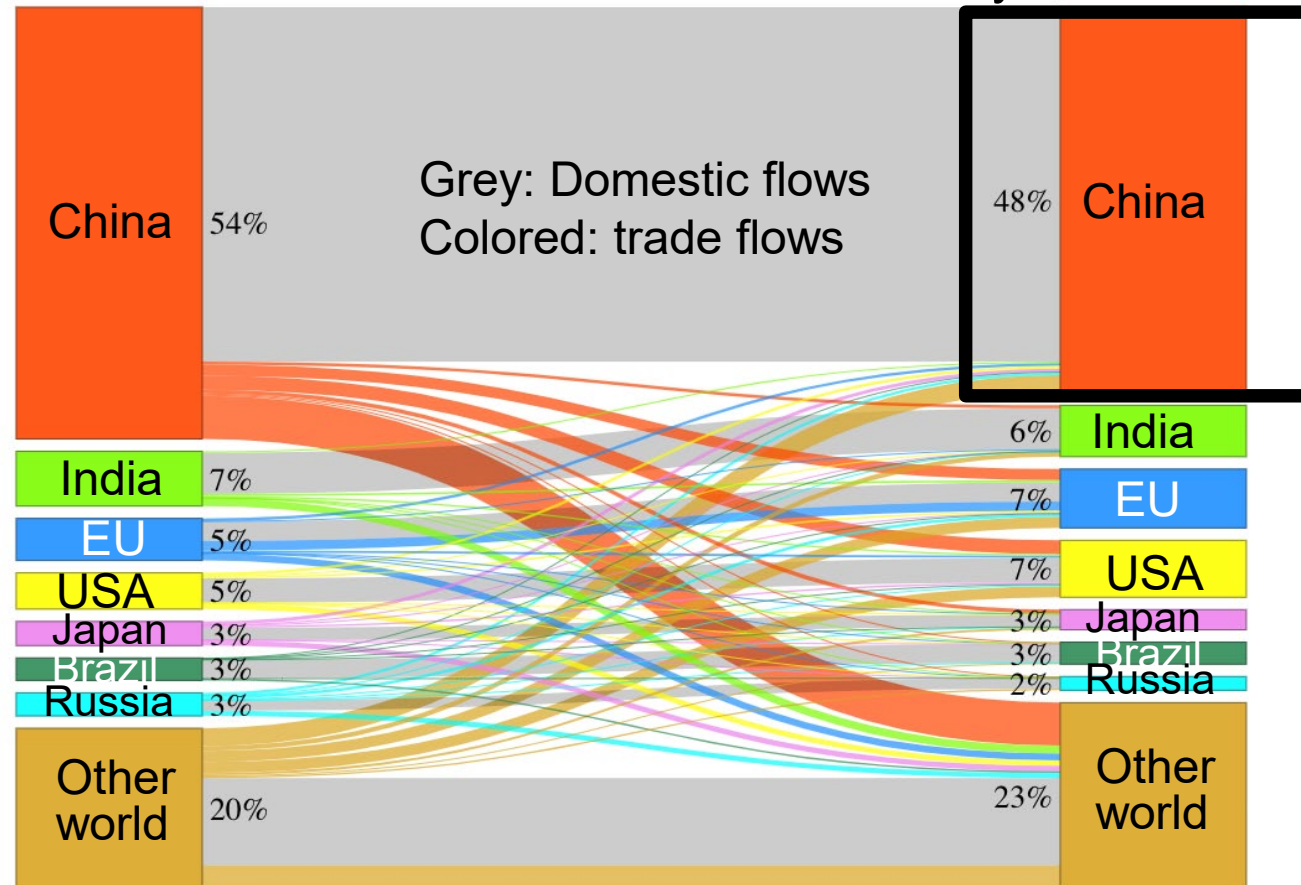
Sectors in China where greenhouse gases are released in 2015 to produce minerals



# Most minerals are also used in China

Where is the minerals carbon footprint caused?

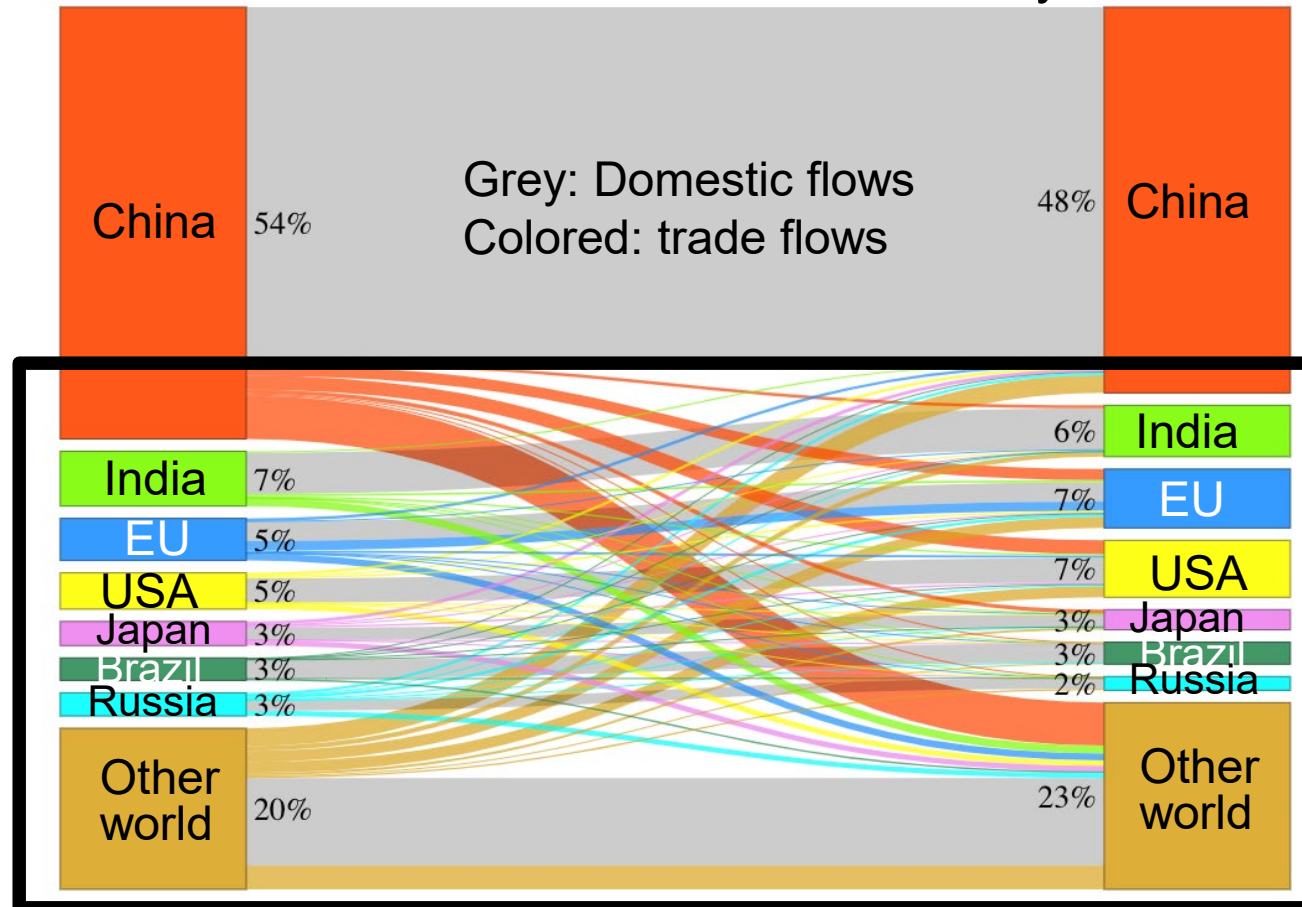
Where are minerals finally consumed?



# Excluding China's domestic consumption: 50% of global minerals carbon footprint due to international trade

Where is the minerals carbon footprint caused?

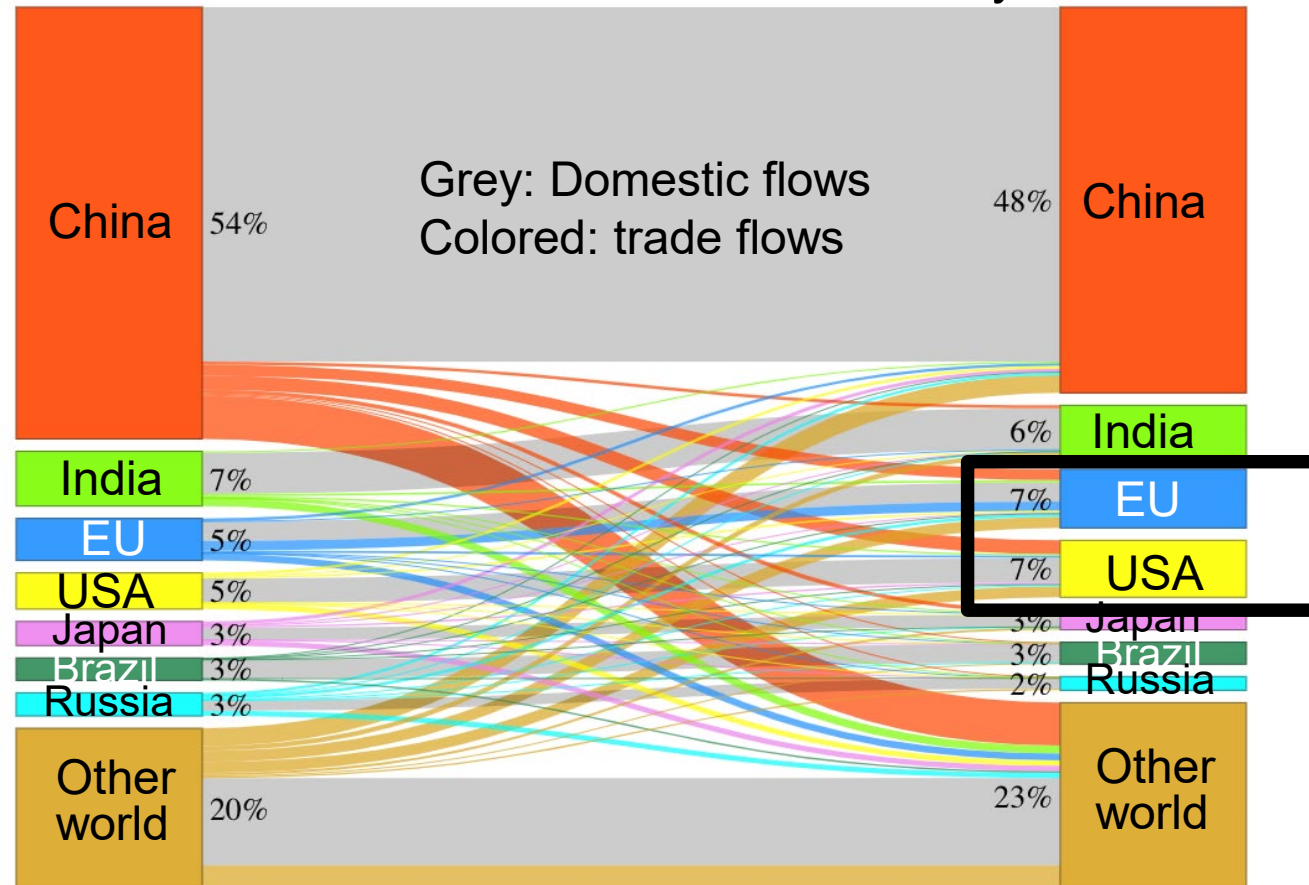
Where are minerals finally consumed?



# Rich countries like the EU and USA are importer of minerals

Where is the minerals carbon footprint caused?

Where are minerals finally consumed?





# Switzerland outsources 99% of its metals carbon footprint



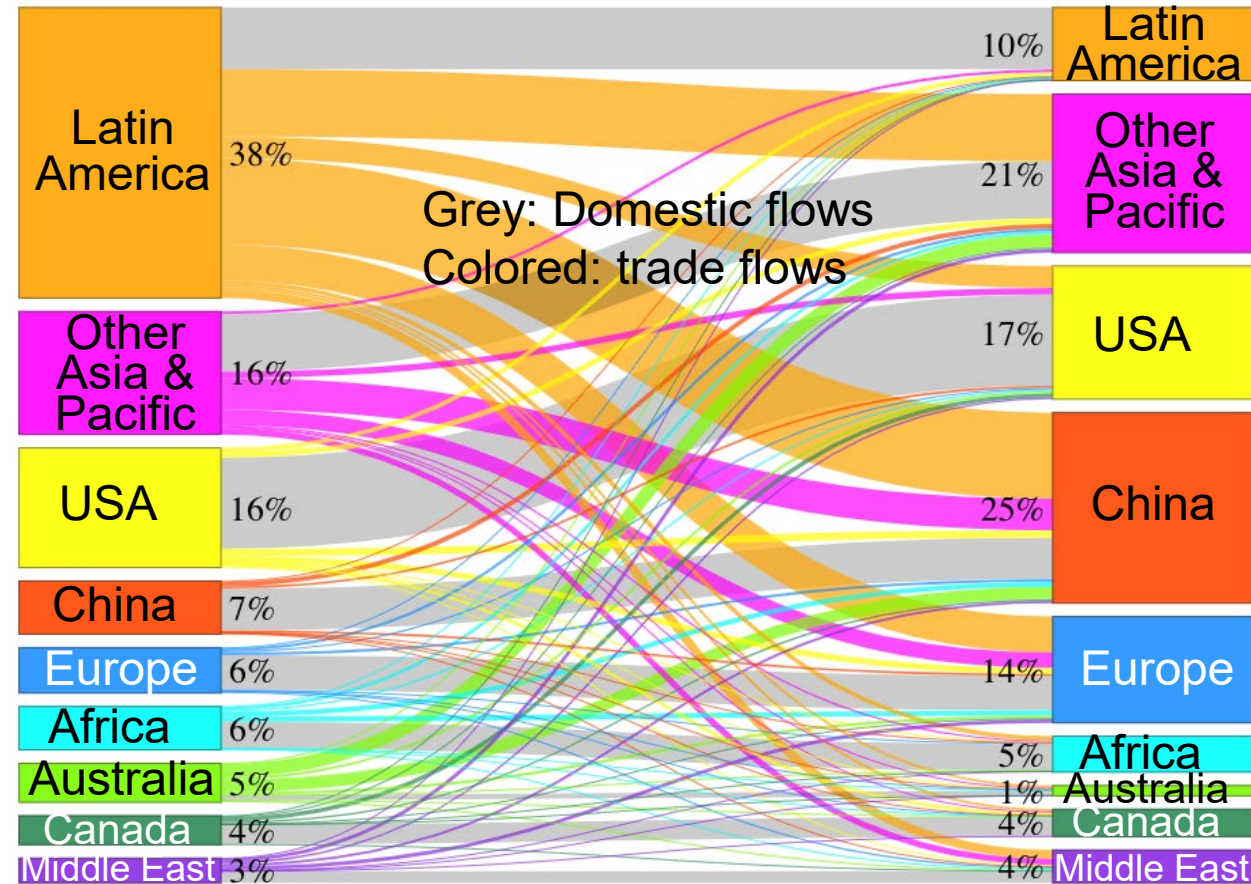
# Switzerland outsources its entire metals biodiversity loss footprint



# Copper is one of the top traded commodities worldwide

Copper extraction

Copper consumption



# ~60% of all metals are traded by Swiss companies

Switzerland, the global commodity trading hub

Share of global trade handled by Swiss-based commodity trading companies



Fig. 3.1 Share of Swiss trading companies in total world trade <sup>16</sup>

*Jungbluth et al. 2018*

# Gold is the only metal that is refined in Switzerland

Switzerland, the global commodity trading hub

Share of global trade handled by Swiss-based commodity trading companies

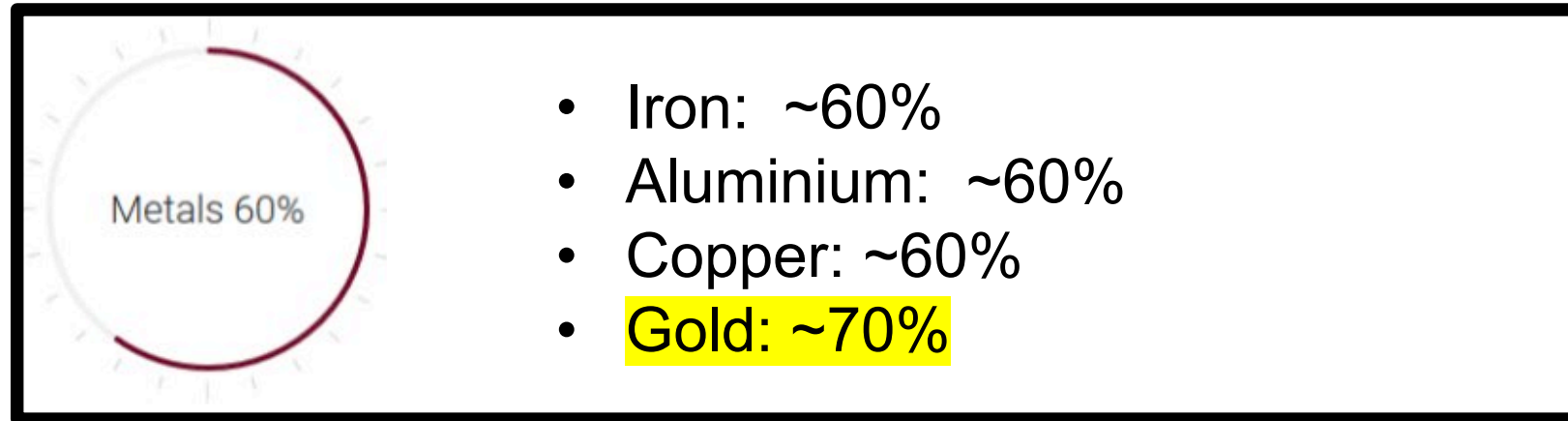
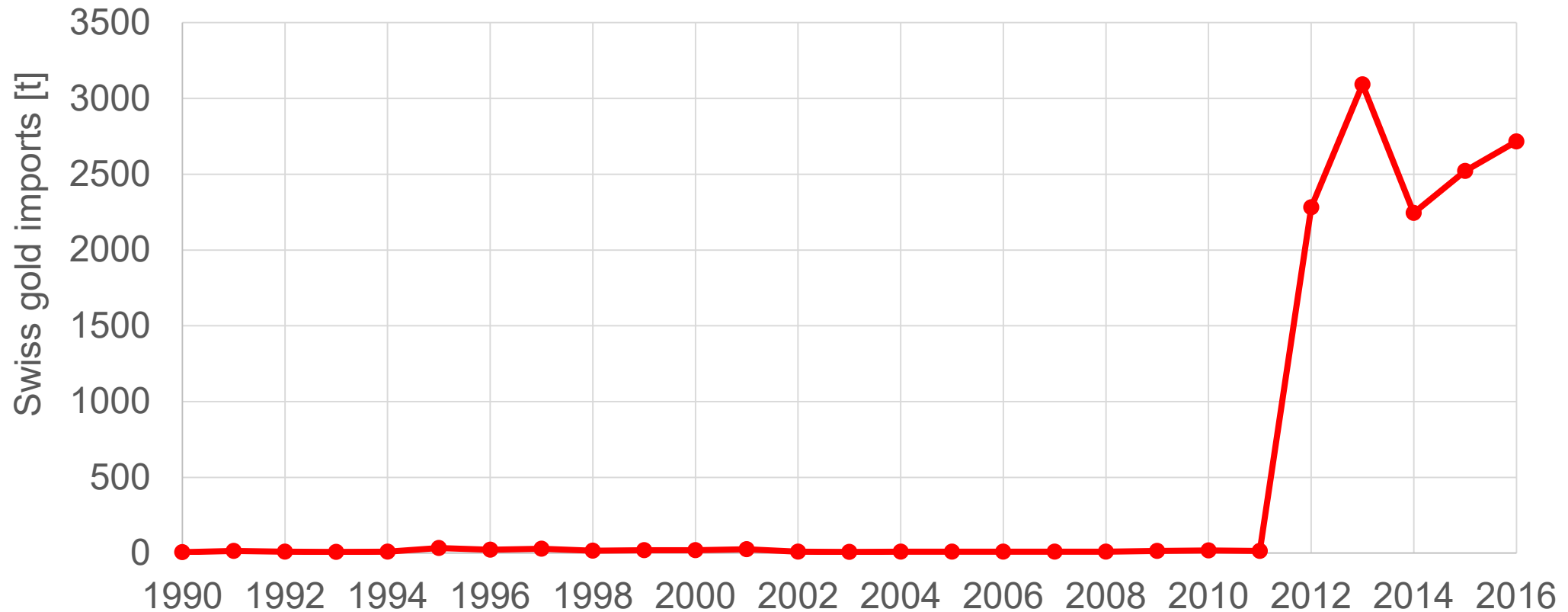


Fig. 3.1 Share of Swiss trading companies in total world trade <sup>16</sup>

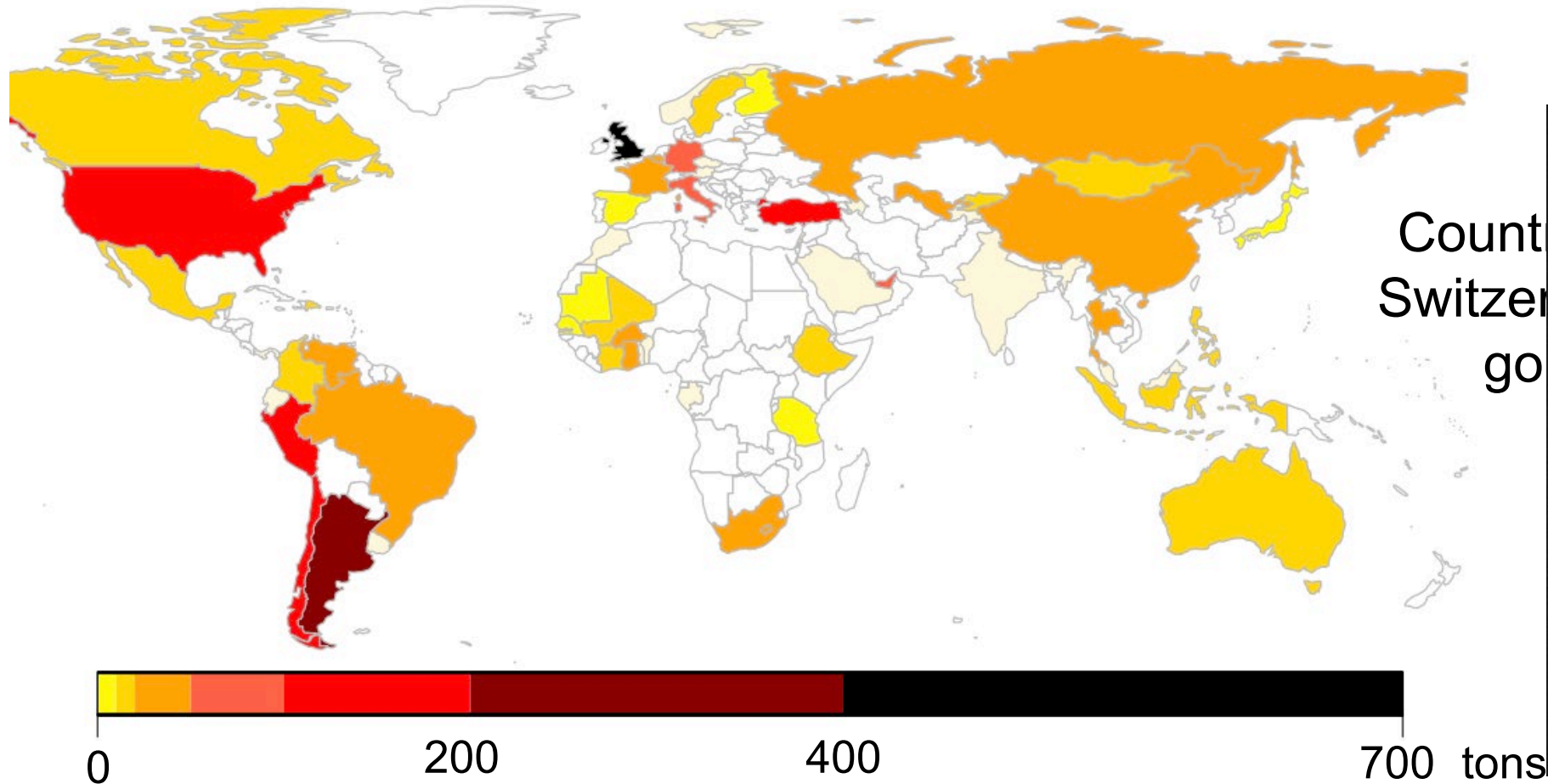
*Jungbluth et al. 2018*

# 70% of global gold is refined in Switzerland, but Swiss trade statistics register Swiss gold imports only since 2012

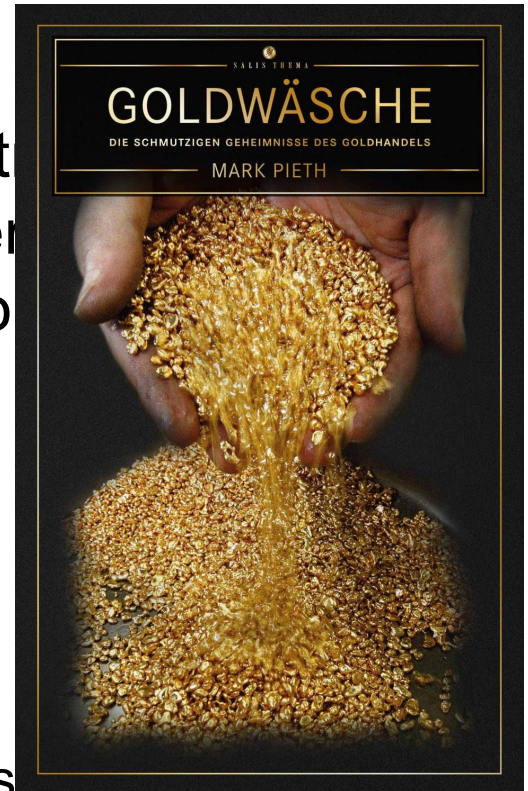
Swiss gold imports



# Swiss gold imports: Trade partner is often not the country where the gold was mined → no transparency on the origin of gold



Book from Mark Pieth  
about Swiss gold trade



## Conclusion

- 60% of metals (e.g. copper) are traded by Swiss companies
- 70% of global gold is refined in Switzerland
- Transparency is lacking and must be improved
- Many negative environmental & social impacts due to the minerals sectors
- Due to trade, impacts are caused at another country than where minerals are consumed
- Responsibility carried by producer, consumer and trader?

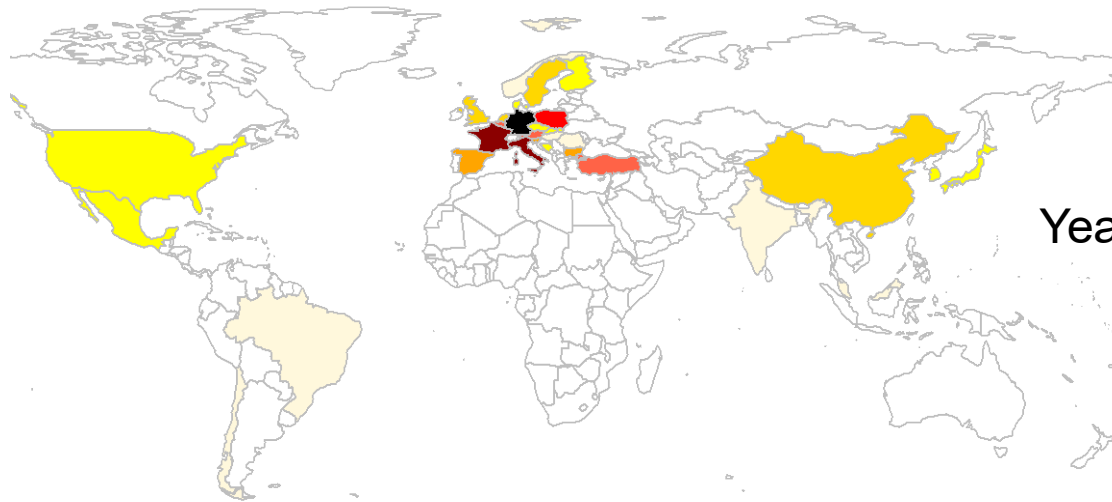
**Thank you for the attention!**



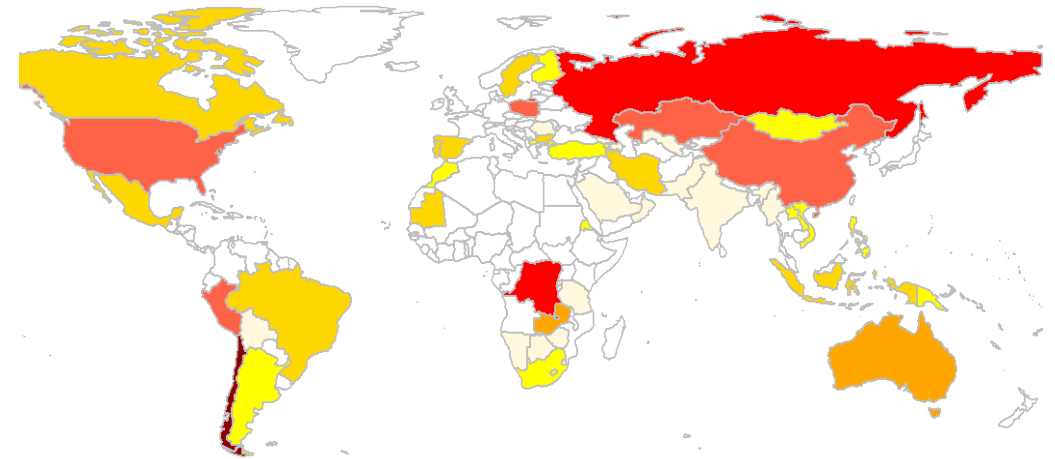
# The copper supply chain is very complex and involves many steps from extraction to consumption: Example of Swiss copper imports

Country from which Switzerland imported copper

Country where Swiss copper imports were originally mined



Year 2015



Public Eye: Swiss Companies with **commodity extracting** or trading activity  
 (Service providers and **gold refiners** are excluded)

