



BAUWIRTSCHAFT, ROHSTOFFVERBRAUCH UND KREISLAUFWIRTSCHAFT

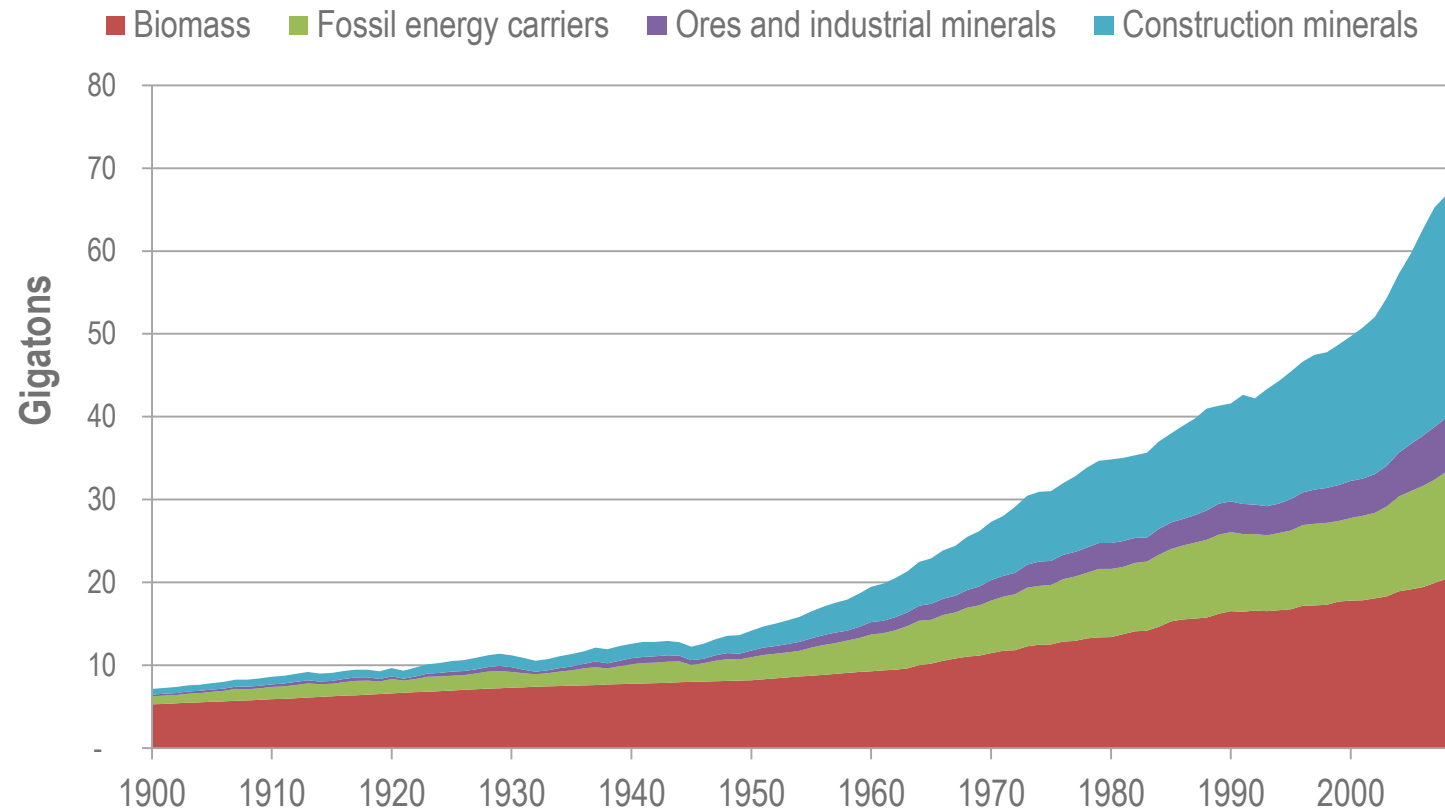
Peter Börkey
OECD Environment Directorate

Globale Stadtgespräche, OECD Berlin Centre, 12 Mai 2022



Starkes Wachstum der globalen Rohstoffgewinnung

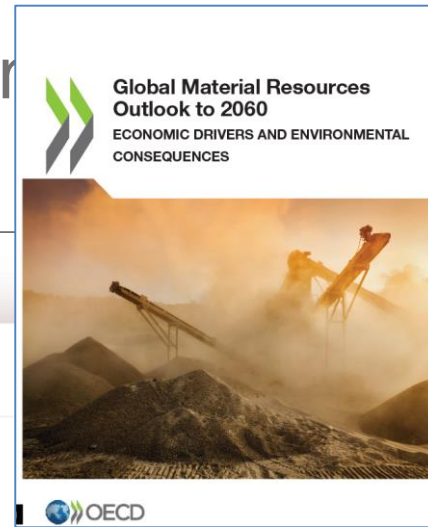
Global material extraction 1900-2009



Source: Krausmann et al. (2009).



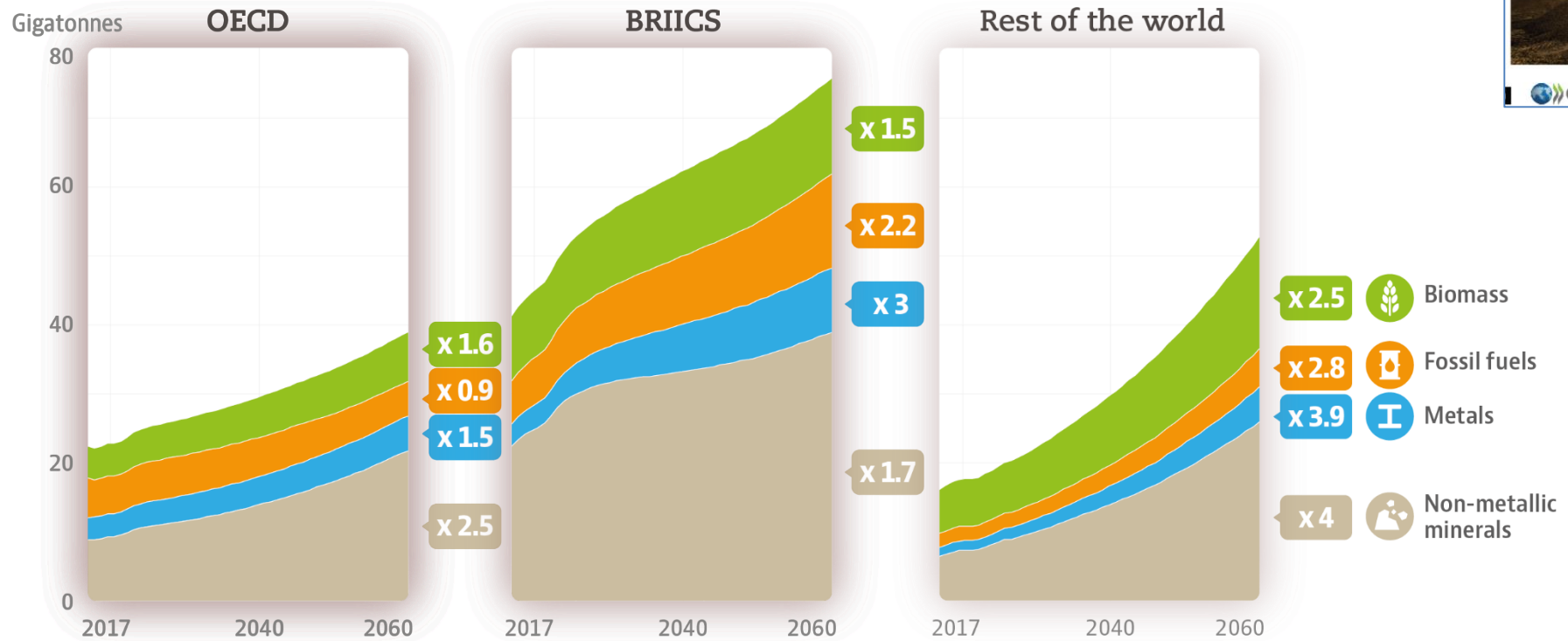
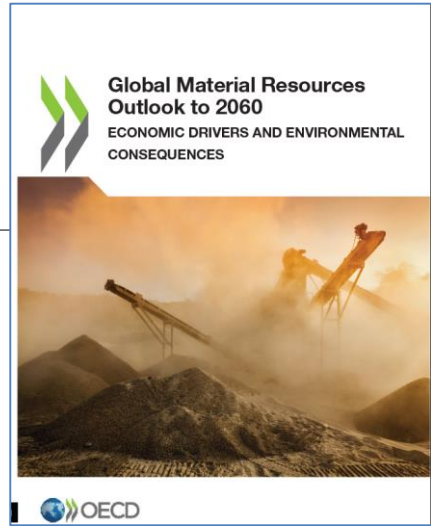
Materials use are projected to double to 2060 in the absence of new policies



Source: Global Material Resources Outlook to 2060 (OECD, 2019)



Rohstoffverbrauch verdoppelt sich bis 2060...



Source: OECD *Global Materials Resources Outlook to 2060* (2019)



...mit erheblichen Konsequenzen für die Umwelt

Plastic waste projection

353 Mt/a Current production
(2019)

x3 to 2060 projected
increase of plastic waste

x2 to 2060 plastic
leakage polluting oceans

Greenhouse gas projection

12% of total ghg emissions
associated with 7 key metals

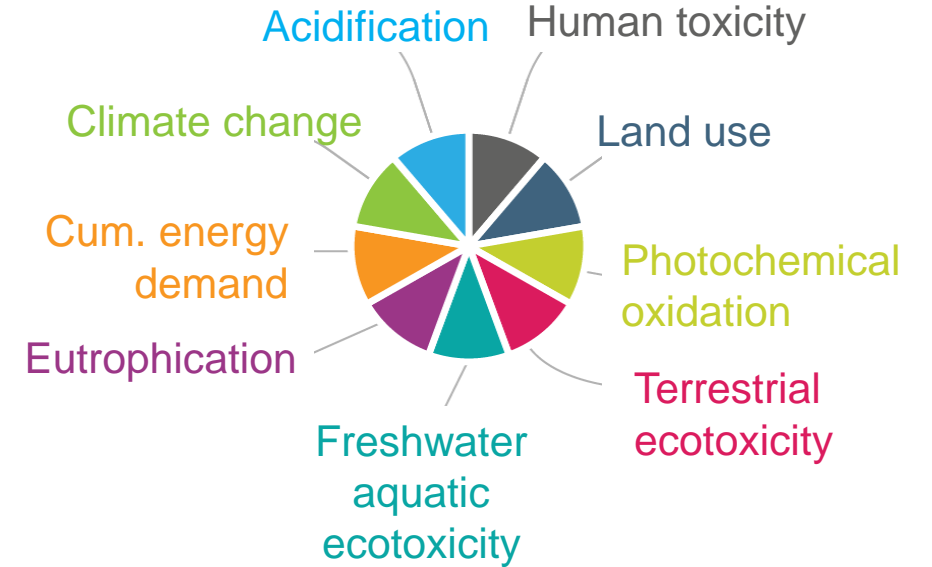
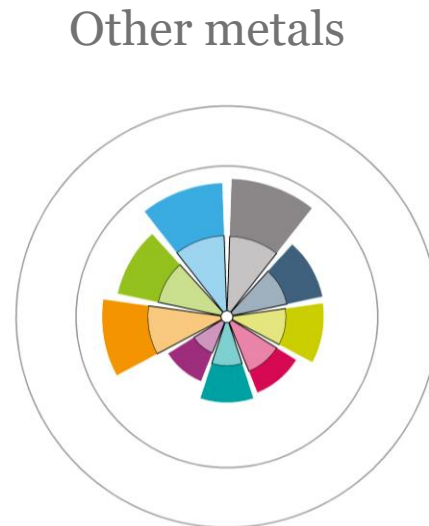
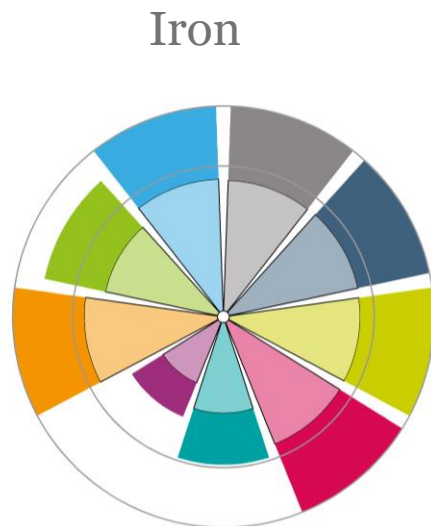
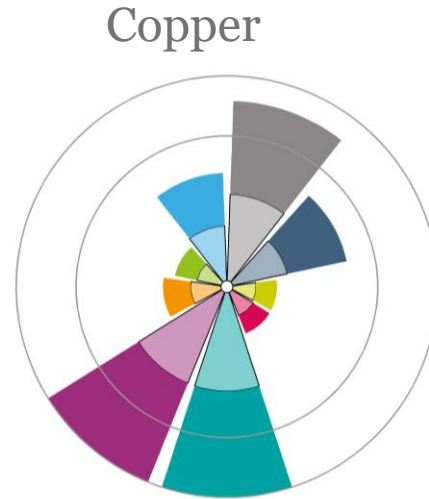
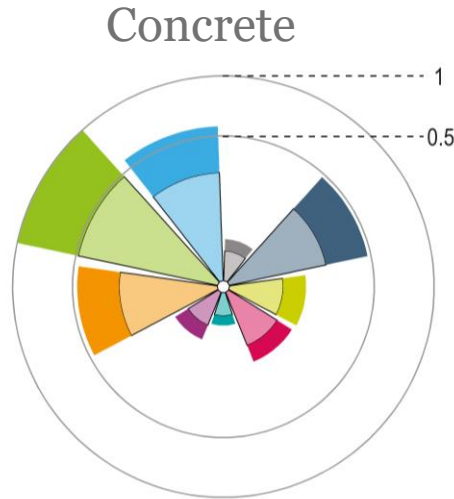
12% of total ghg emissions
associated with concrete

50Gt CO₂ eq emissions
associated with materials cycle



Die Auswirkungen auf die Umwelt sind bedeutsam ...und könnten sich bis 2060 verdoppeln

Total environmental impacts
(highest impact in 2060 normalised to 1)

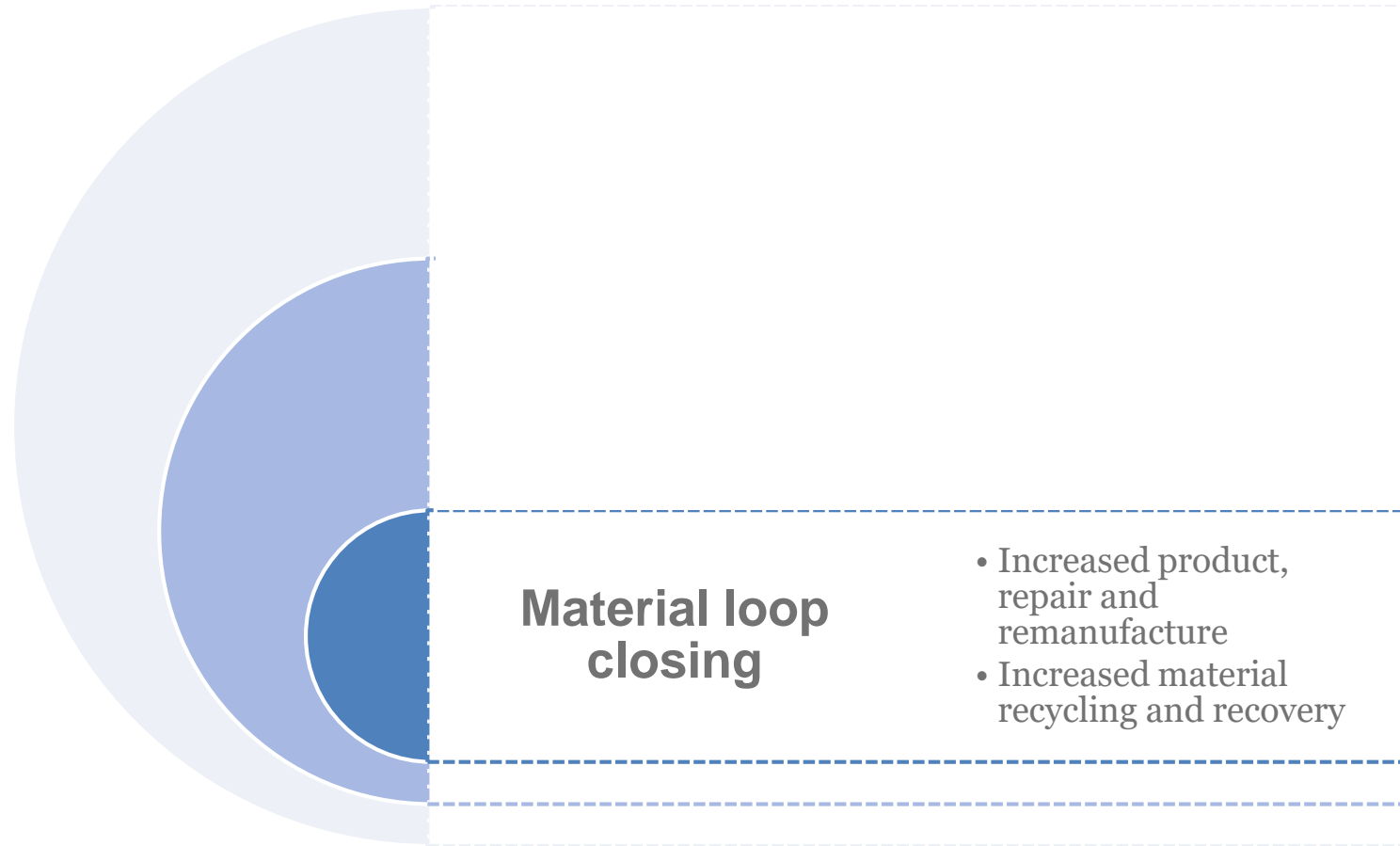


Source: Global Material Resources Outlook to 2060 (OECD, 2019)



Der Übergang zur Kreislaufwirtschaft kann dazu beitragen den Rohstoffverbrauch zu senken ...

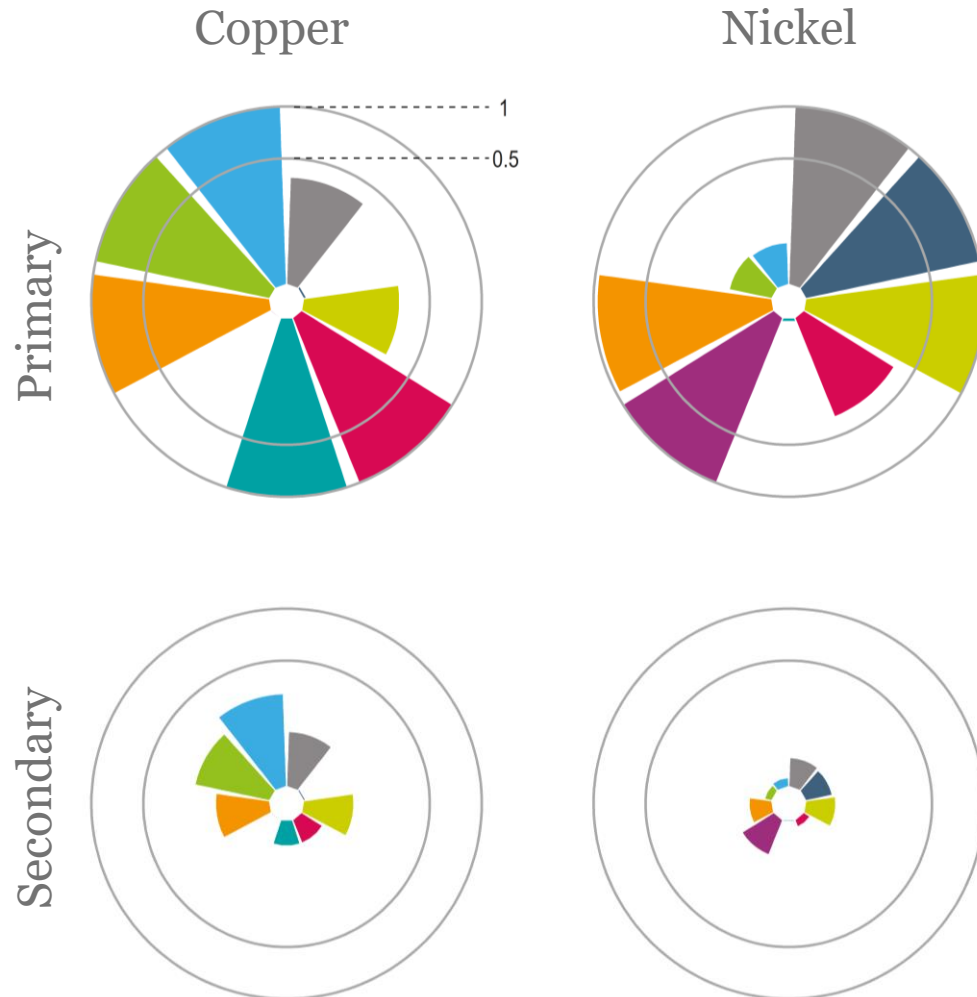
Defining a Circular Economy





Primärrohstoffe haben einen erheblich grösseren Umweltfussabdruck als recycelte

Per kg environmental impacts
highest impact normalised to 1) for 2015



Source: Global Material Resources Outlook to 2060 (OECD, 2019)



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Defining a Circular Economy

