



Metals and transition

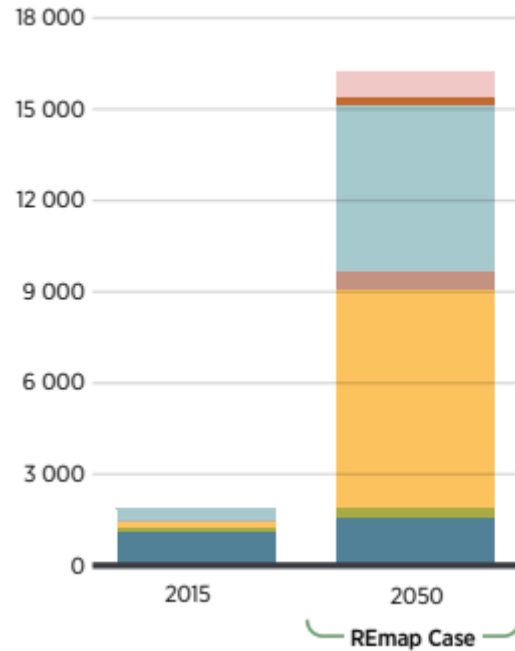
12/10/20 - Webinar FRDO

Olivier Beys – BBL



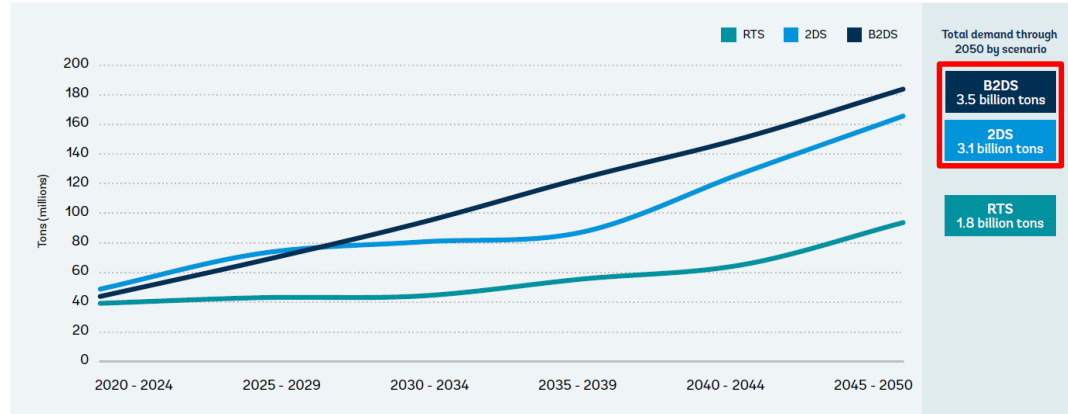
Growing demand (1)

Renewables installed power capacity (GW)



Growing demand (2)

Figure ES.1 Projected Annual Average Demand of Minerals up to 2050 Under the IEA Energy Technology Perspective Scenarios

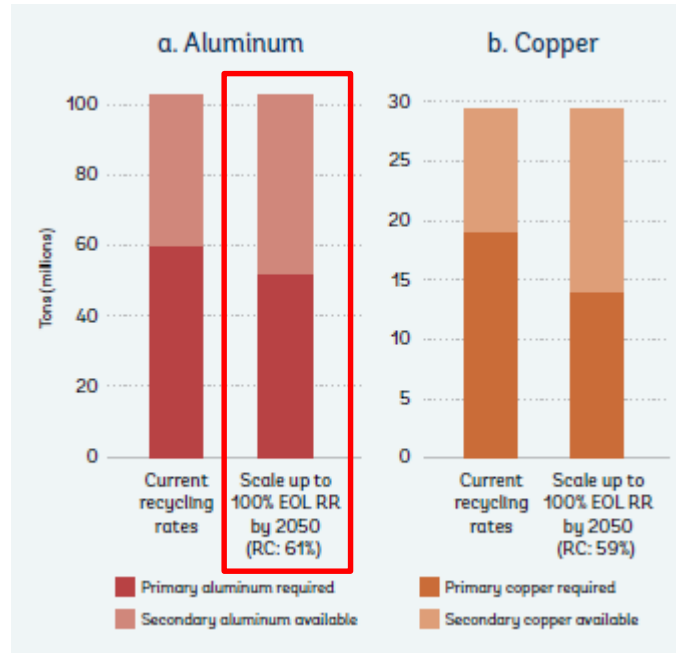


Minerals for Climate Action:
The Mineral Intensity of the
Clean Energy Transition

CLIMATE-SMART MINING FACILITY

Kirsten Hund, Daniele La Porta, Thao P. Fabregas, Tim Laing, John Drexhage

Recycling: important but insufficient



Focus on societal needs

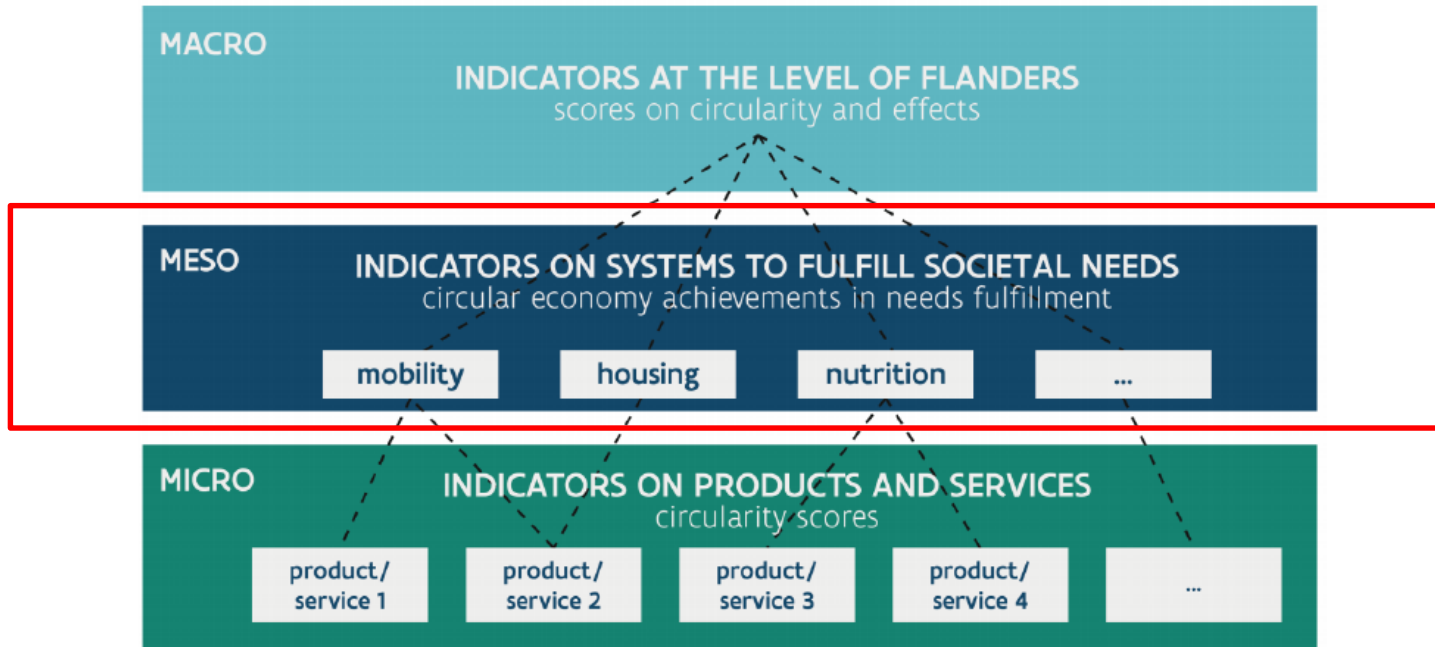
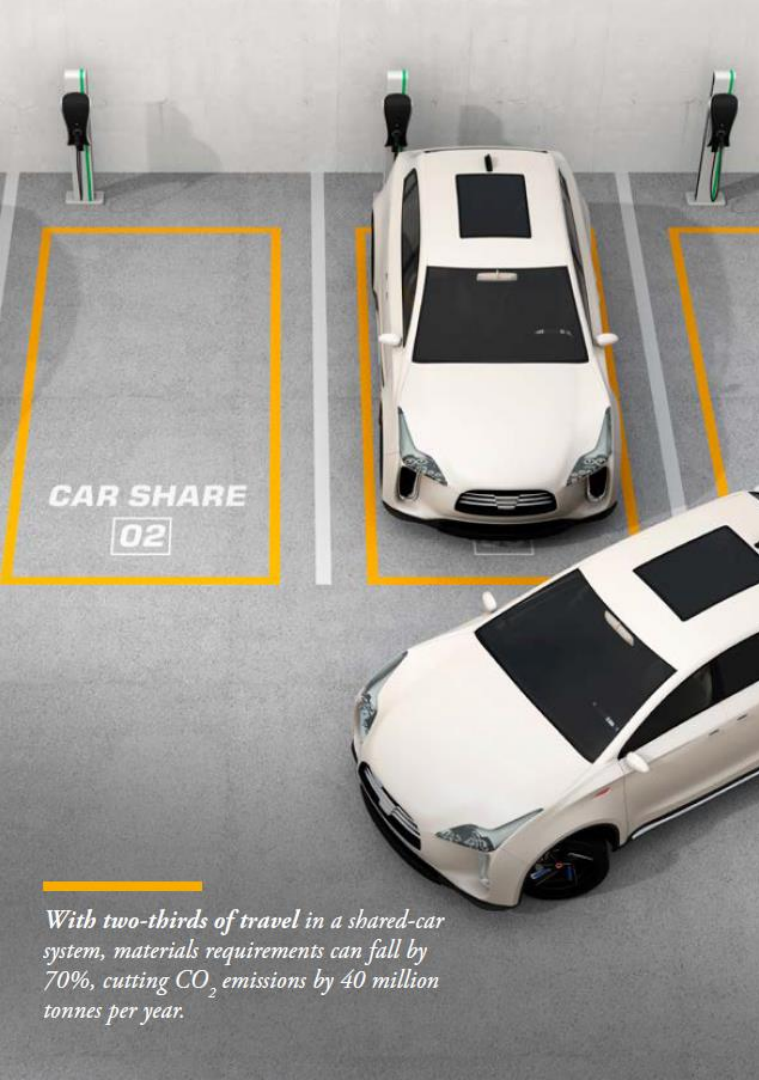
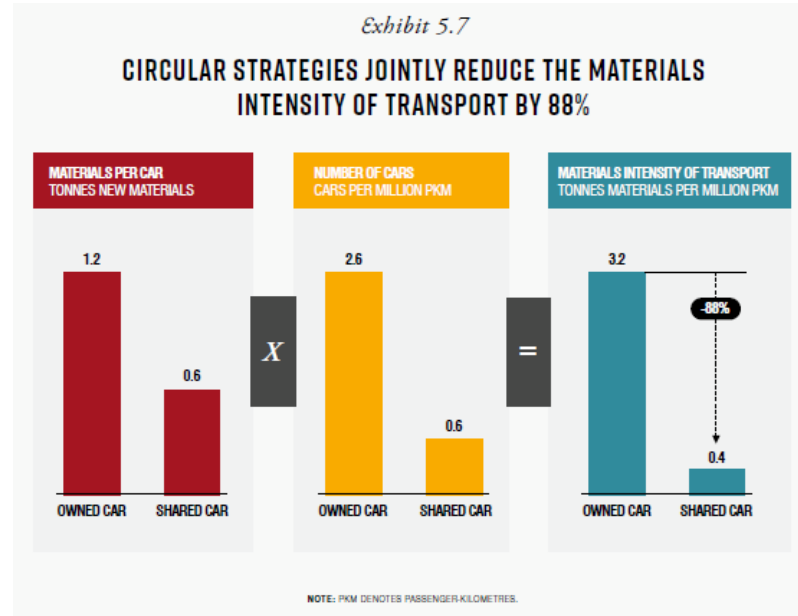


Figure 1. Overview of the circular economy monitor, to be supplied with indicators and data. Source: OVAM after the example of Alaerts *et al.* (2019a & 2019b).

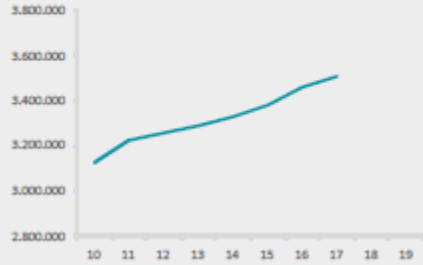


Example: mobility

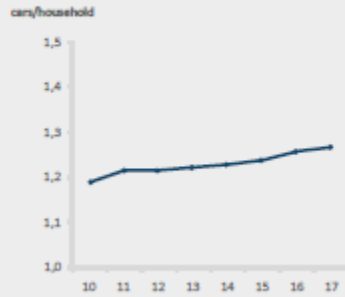


Example: mobility

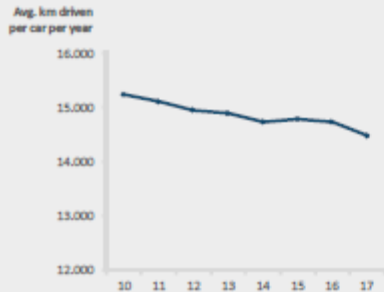
Total amount



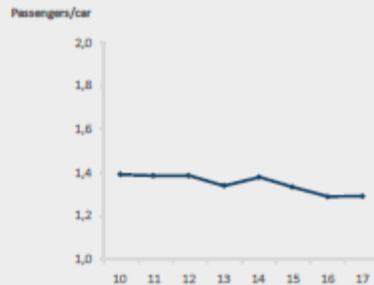
Cars per household



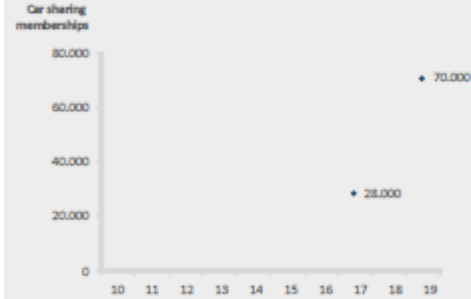
Use intensity



Use efficiency



Car sharing uptake



Time for action (1)

- **Speed up electrification and energy transition**

Faster deployment of 4,4 GW offshore, pro-active work on cross-border offshore grid and expanded capacity in the Northsea (NW-Europe).

- **Product norms for circularity and climate**

Work pro-actively on and support the EU Sustainable Products Initiative (Green Deal) in with systeem/ecodesign in mind. Focus on the entire life cycle and transparency in the value chain

- **Set resource reduction targets for Belgium and the regions**

Follow in the footsteps of the -30% materials footprint in the Flemish climate and energy plan 2030 (and the -50% in the Netherlands). Adopt and address these in the EU NECP.

Time for action (2)

- **Circular tax shift**

Set in motion a fiscal transition promoting a circular and climate neutral economy, a shift that boosts the economics of repair, reuse, shared use and product-services.

- **Circular strategies and plans (federal, regional, local, European)**

In areas as diverse as circular construction, shared electric transport and modal shift, higher value retention industries (repair, remanufacturing, refurbishing), sharing economy, ...

- **Pursue ambitious and robust procurement, trade, and financial policies**

Combine product norms, circular and green public procurement and trade instruments for mission driven transition, and divert investments accordingly.

Example: batteries

- **Reduced carbon footprint**

Over the whole product value chain and the full production cycle.

- **An ethical and responsible sourcing of raw materials.**

Due diligence requirements covering the entire supply chain

- **Circular design**

Incorporating recycled material and facilitating the reuse, repurposing, remanufacturing and ultimately recycling.

- **Transparent communication and tracking of performance**

Across criteria mentioned above and on material/chemical contents to end users and supply chain actors.

OPINIE

Op de drempel van een energierevolutie

Een energierevolutie zonder verliezers is mogelijk

OLIVIER BEYS • 23 JUNI 2020



<https://www.mo.be/opinie/een-energierevolutie-zonder-verliezers-mogelijk>

<https://www.bondbeterleefmilieu.be/artikel/mineralen-voor-de-energietransitie-naar-een-koolstofarme-samenleving-zonder-verliezers>