

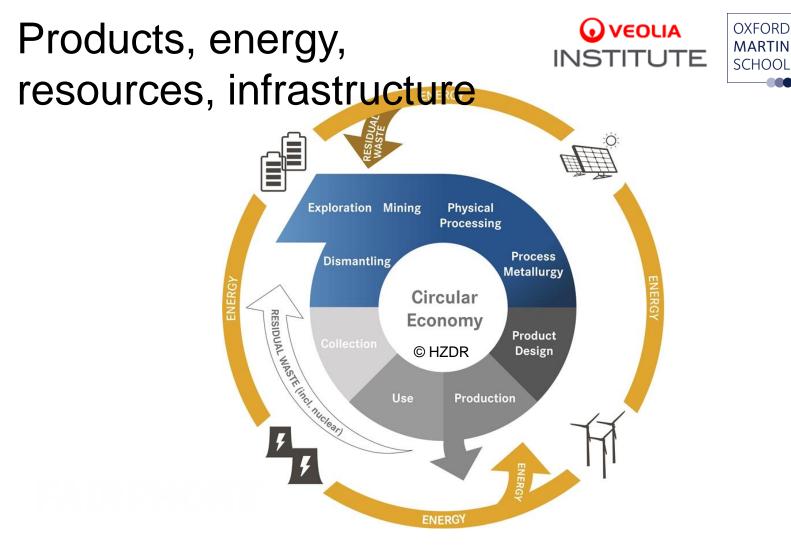
#### STRATEGIC MATERIALS FOR A LOW-CARBON FUTURE: FROM SCARCITY TO AVAILABILITY 2-3 November 2017 Oxford, UK

## Opportunities & limits of the circular economy

Simulation based calculation of the recycling index of complex products

Markus A. Reuter

Strategic Materials for a Low-carbon Future: From Scarcity to Availability



UNIVERSITY OF



FAIRPHONE

# Complex modular "mineral"

#wearefairphone





Fairphone Blogs

Blog 1: 27th Feb

Blog 2: 8th Aug

## Various recycling routes





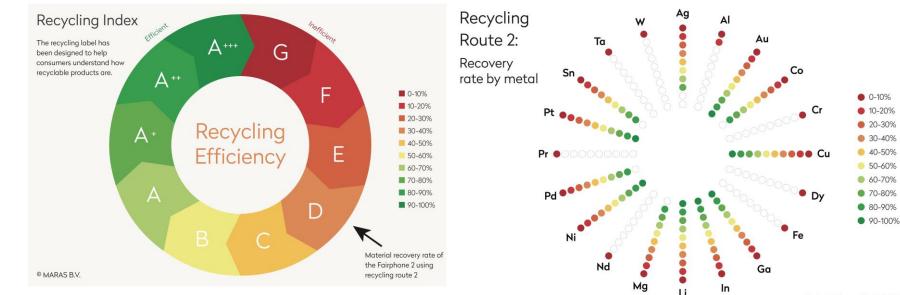
## Recycling Route 2 – Dismantling TSL furnace Light metal remelt/refine Electric furnace 000 FAIRPHONE Plastic extruder Separating Fairphone 2 modules and putting them through the most suitable recovery processes for metals and plastics. #wearefairphone

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## Highly non-linear interactions







Material Flower © MARAS B.V.

Ballester, Van Schaik, Reuter (2017) Fairphone recyclability report (see blogs)

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