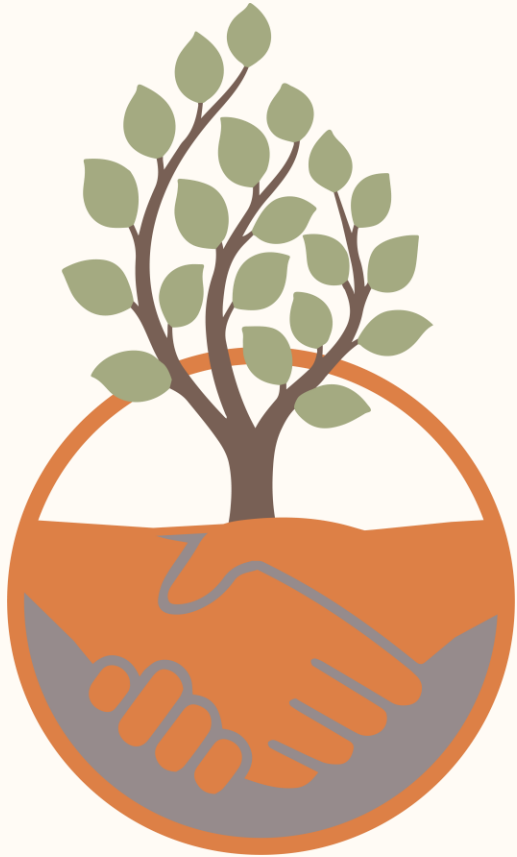


CIRAN



Balancing Mining and Environmental Protection in the EU

Vitor Correia, Eberhard Falck



Outline



THE CHALLENGE: BALANCING
MINING AND ENVIRONMENT

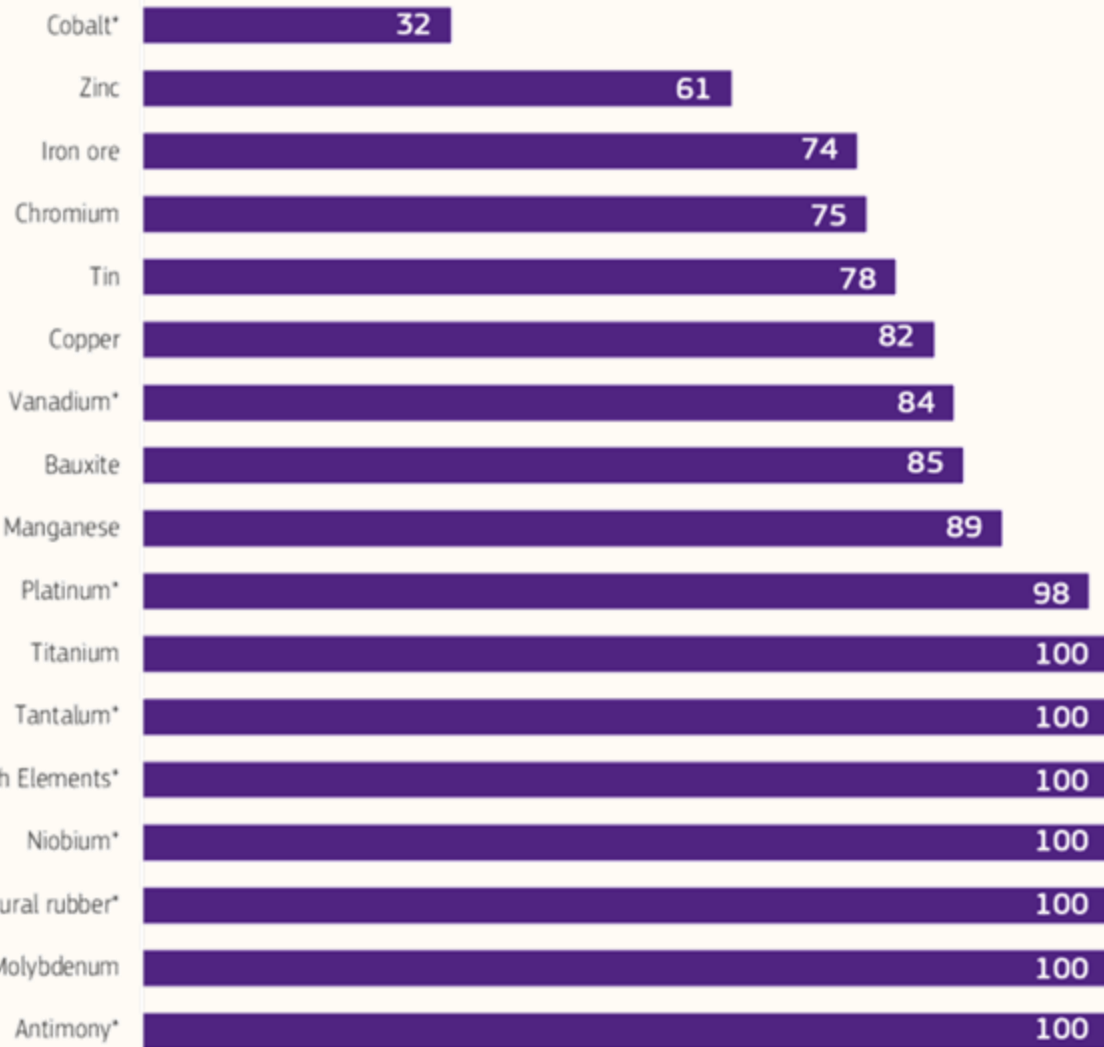


OVERCOMING HURDLES TO
RESPONSIBLE DOMESTIC MINING



A PATH TOWARDS SUSTAINABLE
COEXISTENCE

Background



Source: JRC (2018): EU Raw materials scoreboard.



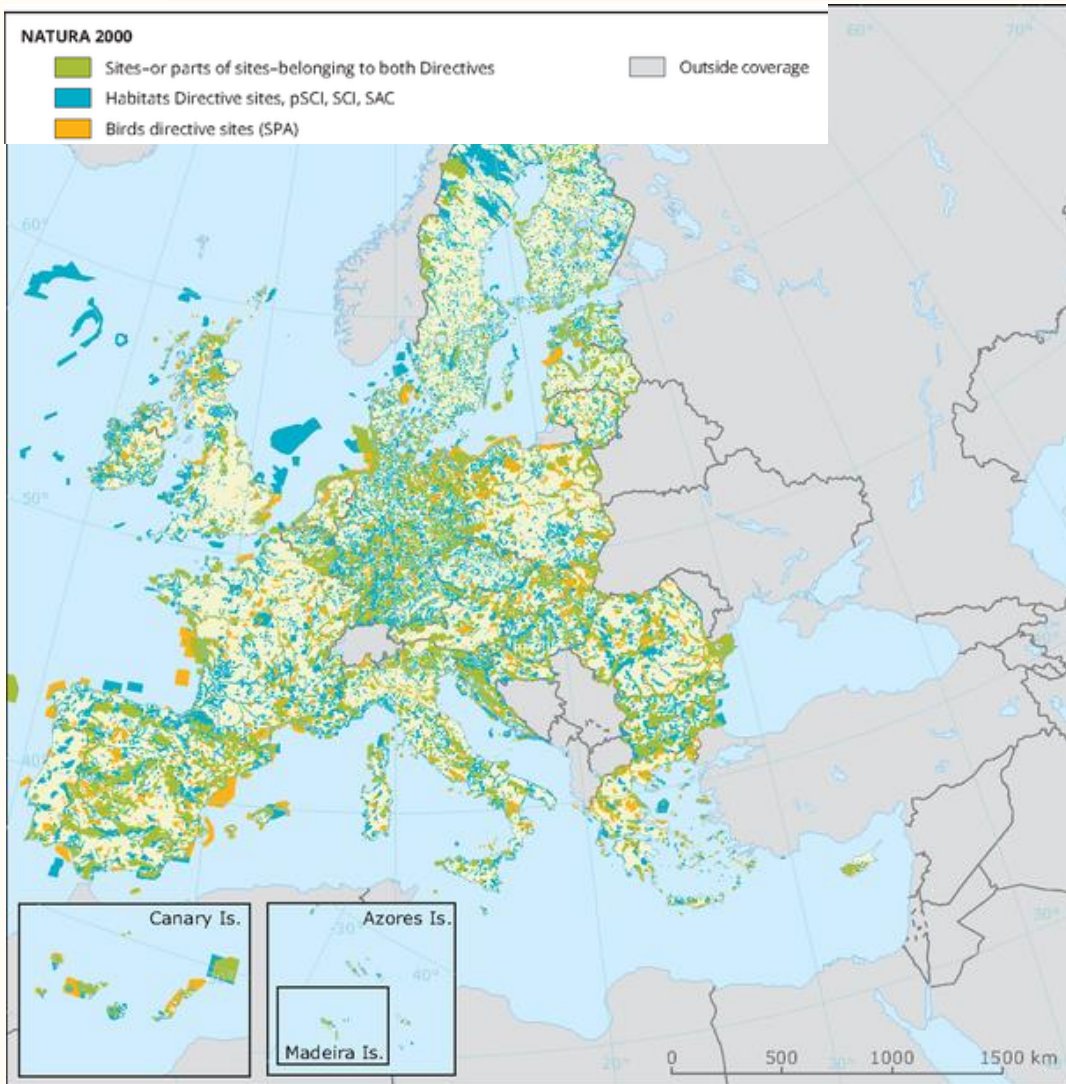
(2019): EC LAUNCHES DE EUROPEAN GREEN DEAL



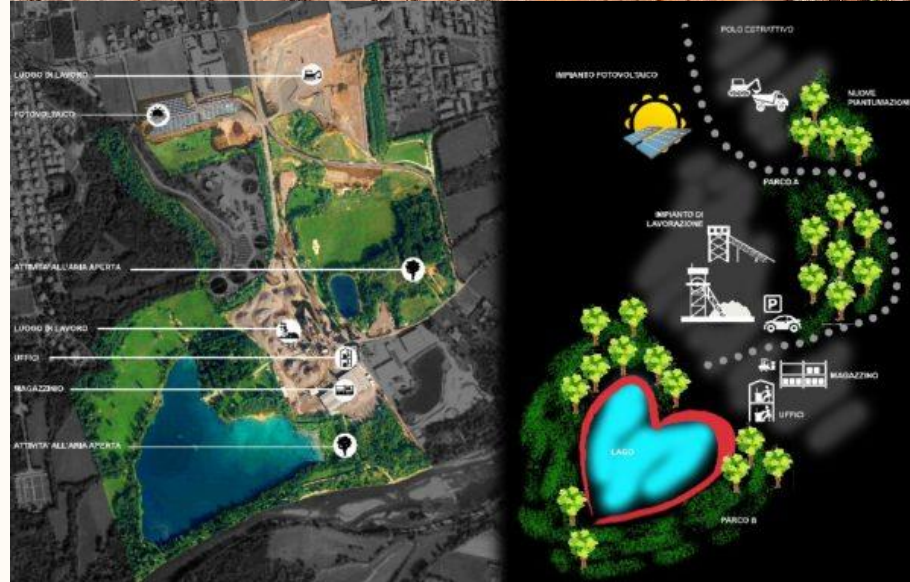
(2022) COP15: NATIONS ADOPT FOUR GOALS, 23 TARGETS FOR 2030 IN LANDMARK UN BIODIVERSITY AGREEMENT



Regulatory Constraints



Brumadinho tailings dam collapse, 2019. Source: CNN Brazil



Nuova Demi
ITALY

**UEPG
SUSTAINABLE
DEVELOPMENT
AWARDS 2020**
Biodiversity in
a sand and
gravel
extraction area



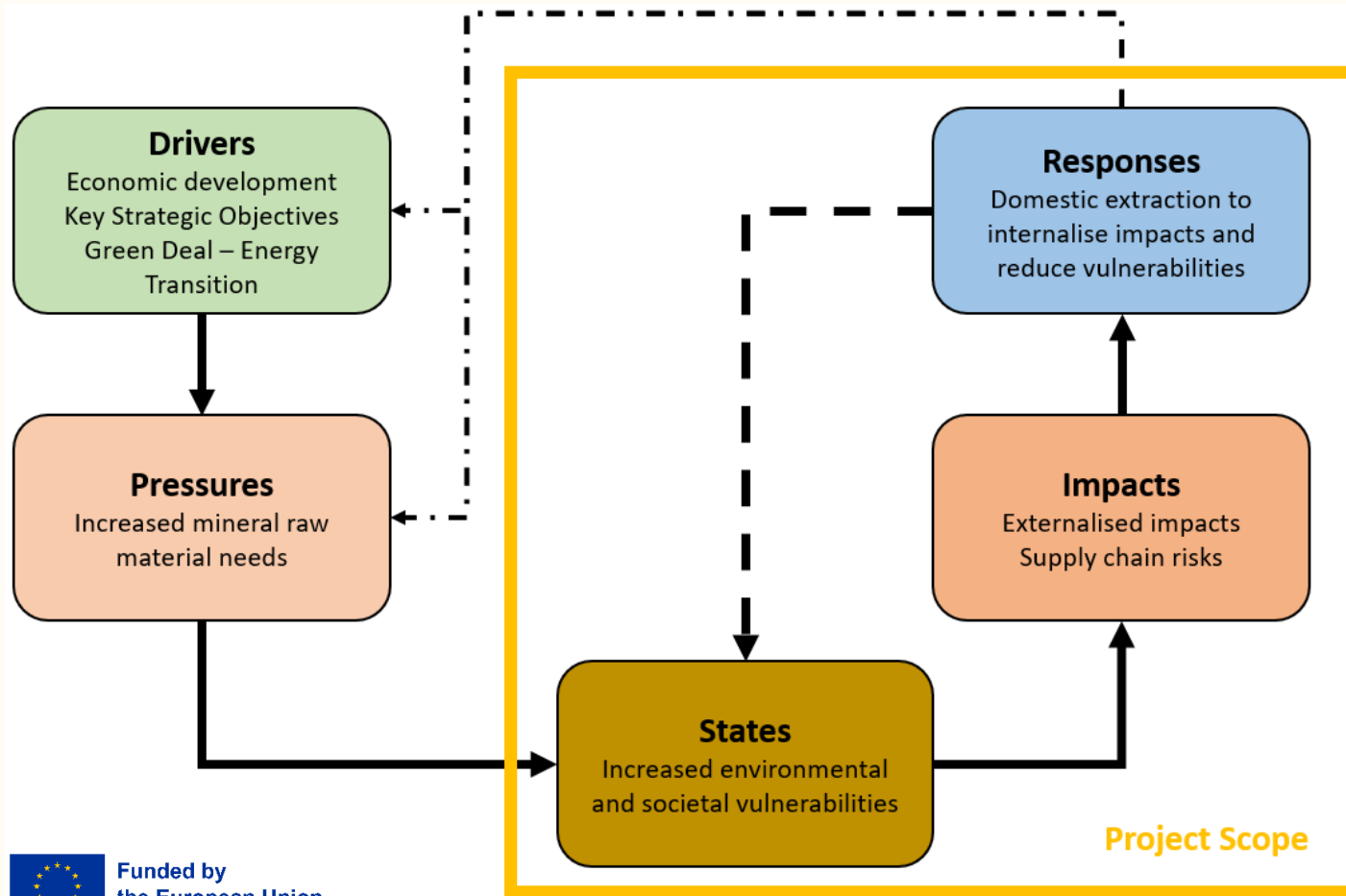
Fragmented Policies



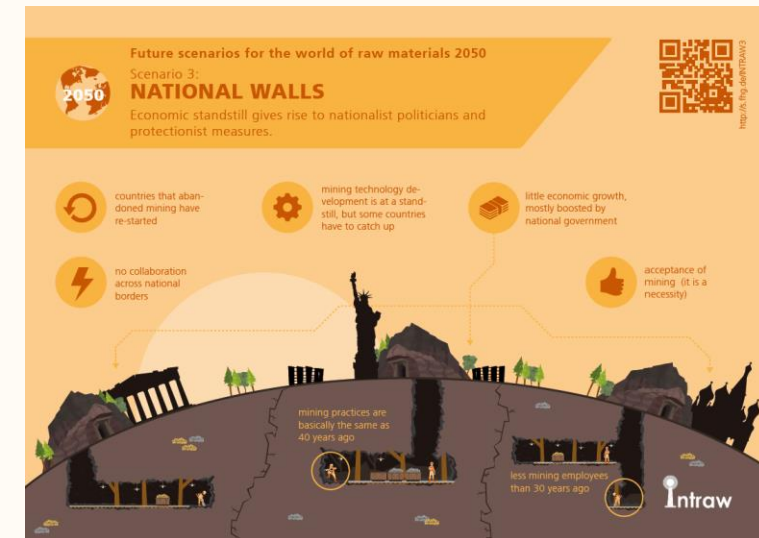
CIRAN Critical RAW materials extraction in environmentally protected areas



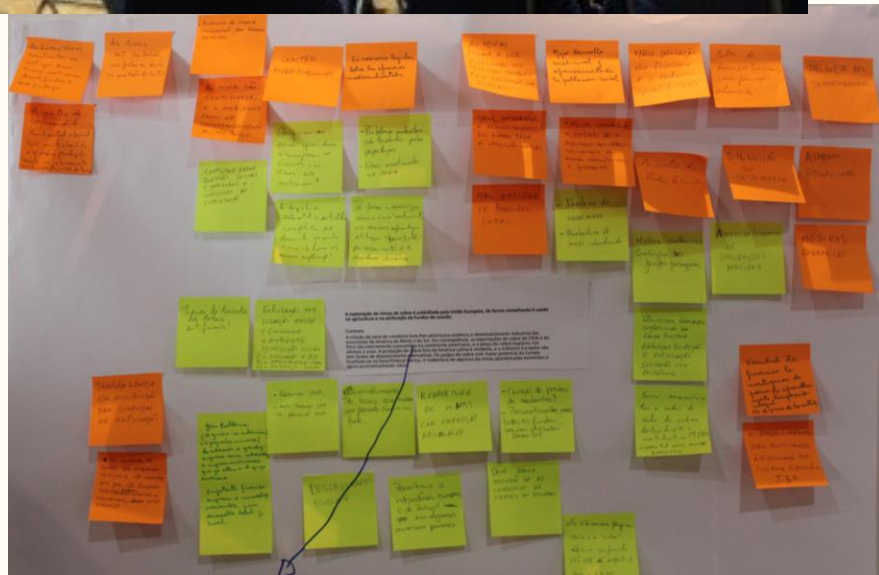
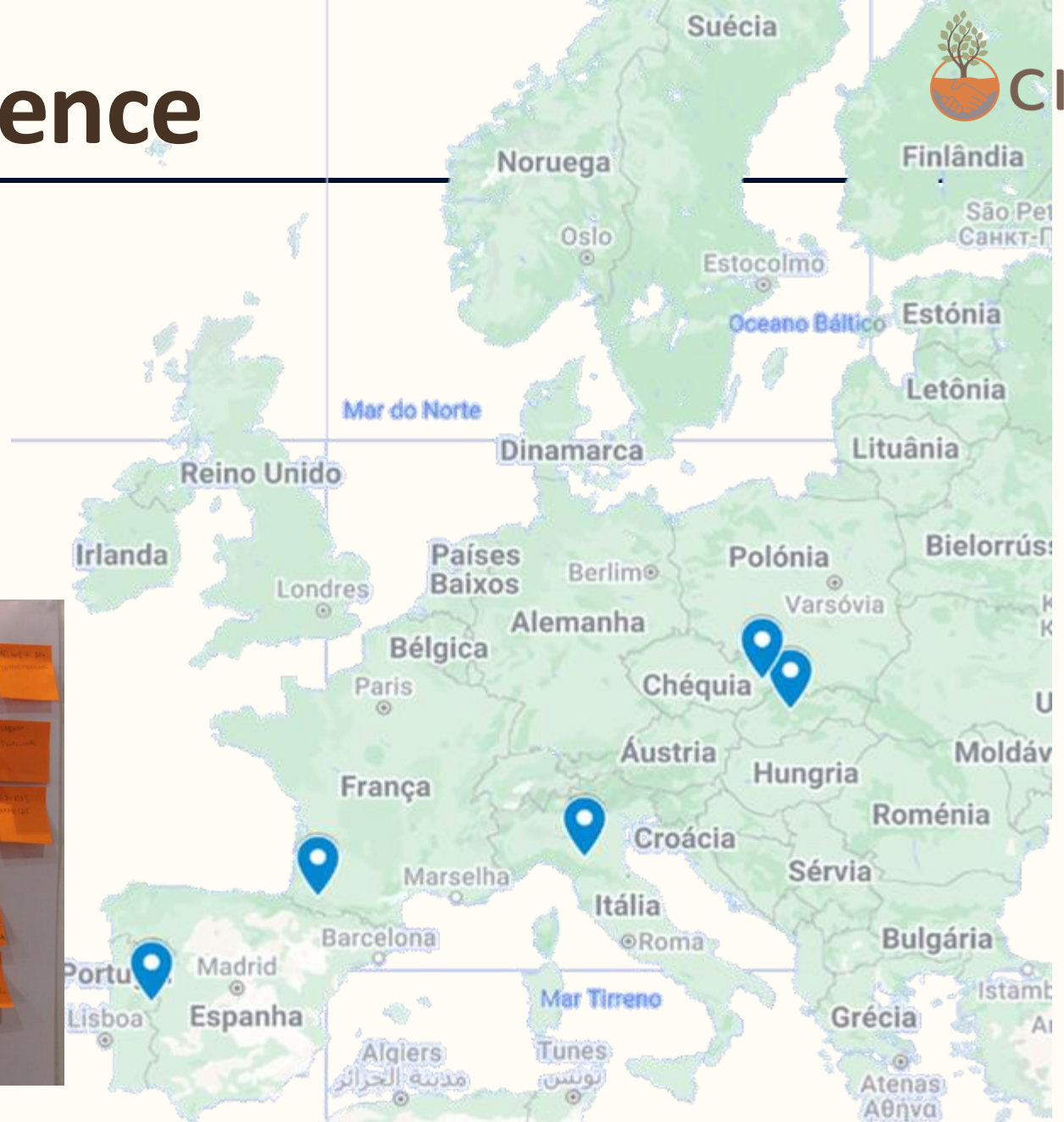
Driver-Pressure-State-Impact-Response framework (EEA, 1999)



Funded by the European Union



Enabling Coexistence



The Path Forward

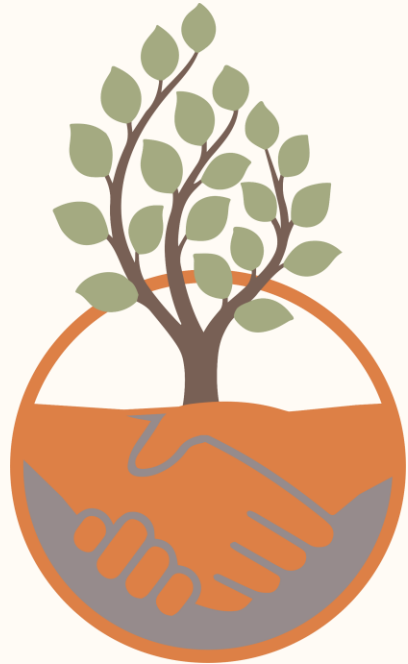


Rolls-Royce aims to manage supply risk through increased efficiency and material stewardship — such as retaining the materials in closed-loop supply chains using a variety of options for material flow management, chiefly the Revert programme. In this programme, wastes are returned to the alloy supplier for reprocessing in aerospace-grade material. In return, Rolls-Royce receives clean alloys at a discounted rate. The discount is greater than the scrap value of the waste on the open market. This is economically beneficial for both parties.

Re price: \$1,611.90 per kg



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