

# Balancing Mining and Environmental Protection in the EU

Vitor Correia, Eberhard Falck

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International Raw Materials Observatory



# Outline

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THE CHALLENGE: BALANCING  
MINING AND ENVIRONMENT



OVERCOMING HURDLES TO  
RESPONSIBLE DOMESTIC MINING

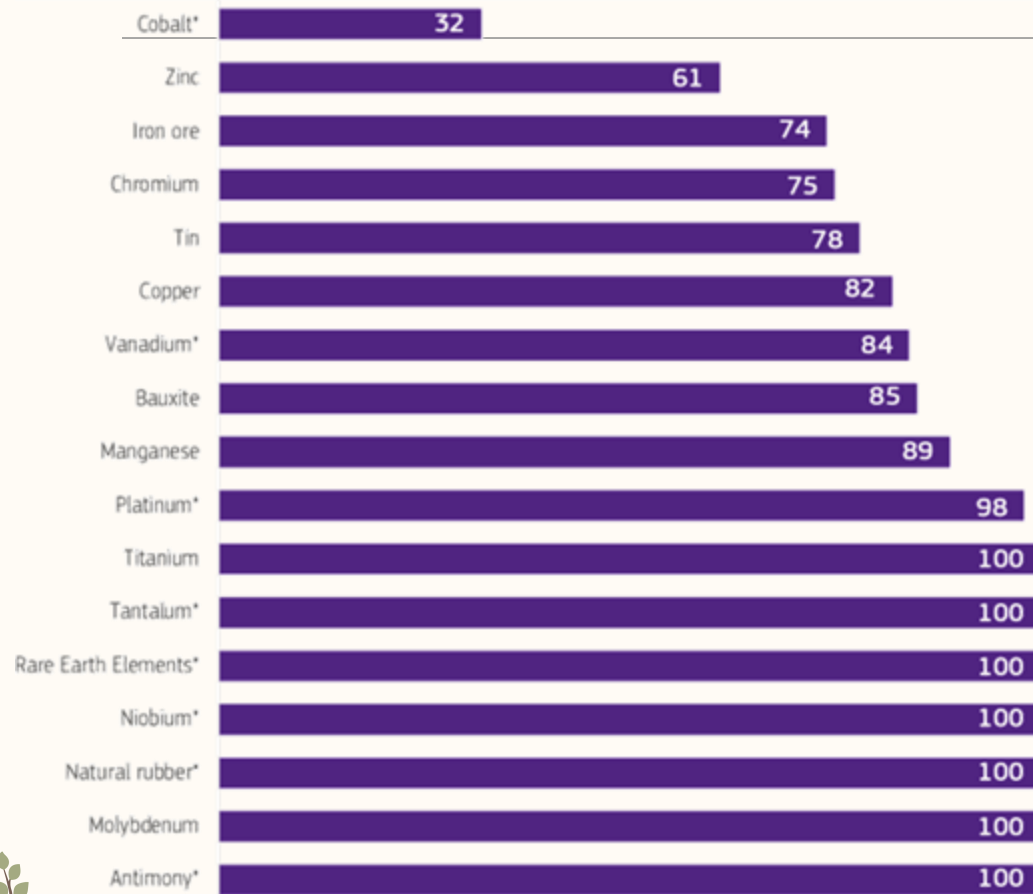


A PATH TOWARDS SUSTAINABLE  
COEXISTENCE



# Background

## EU Raw materials dependency



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

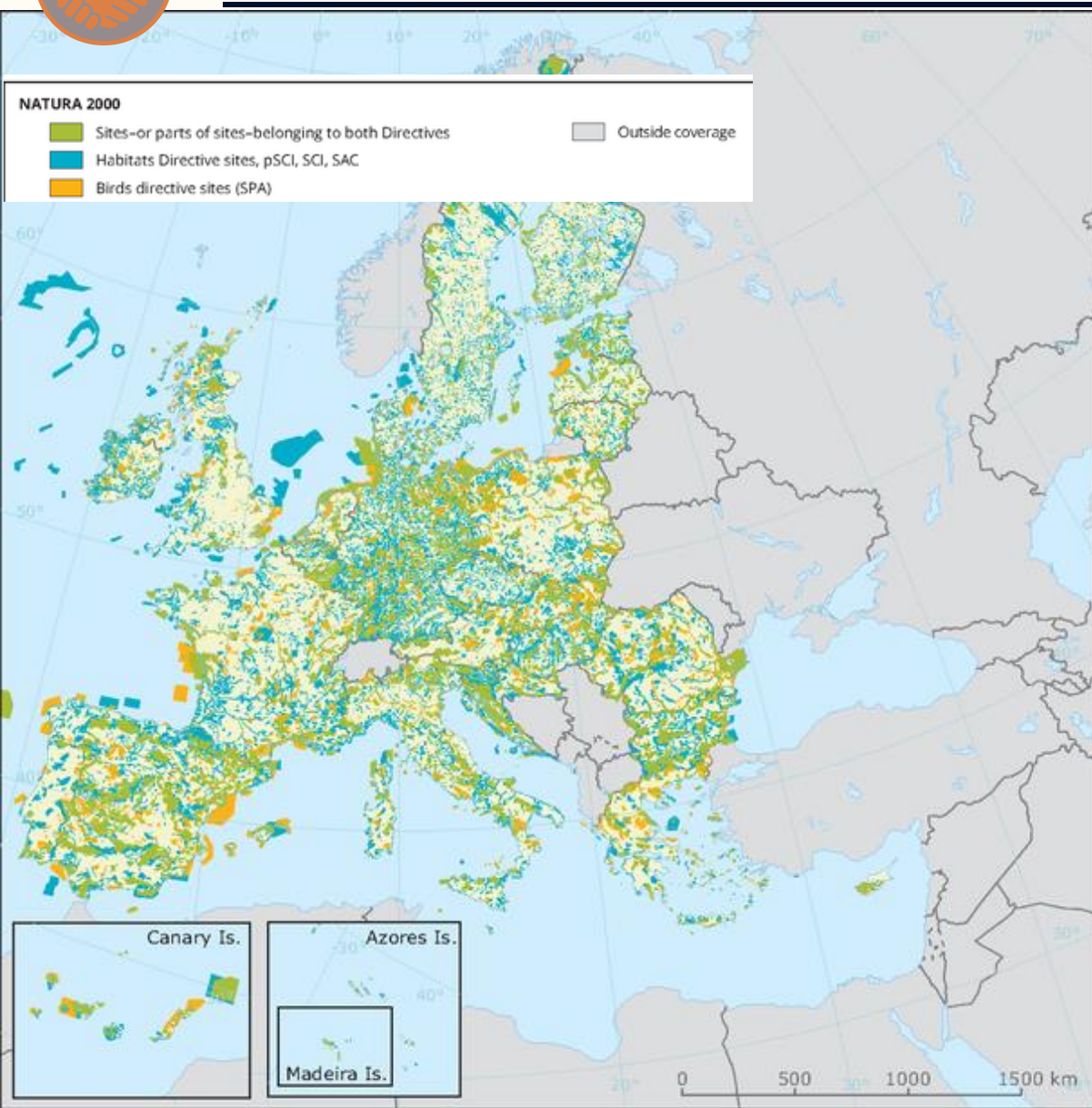
## Policy framework



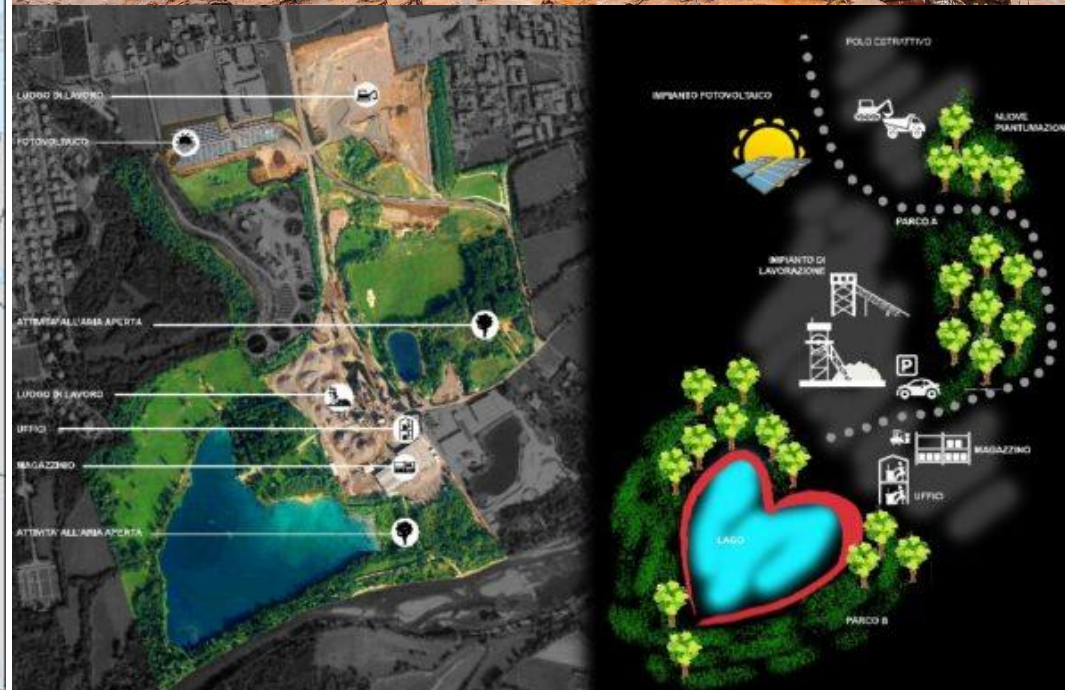




# Regulatory Constraints



Brumadinho tailings dam collapse, 2019. Source: CNN Brasil



Nuova Demi  
ITALY

**UEPG  
SUSTAINABLE  
DEVELOPMENT  
AWARDS 2020**

Biodiversity in  
a sand and  
gravel  
extraction area



# Fragmented Policies

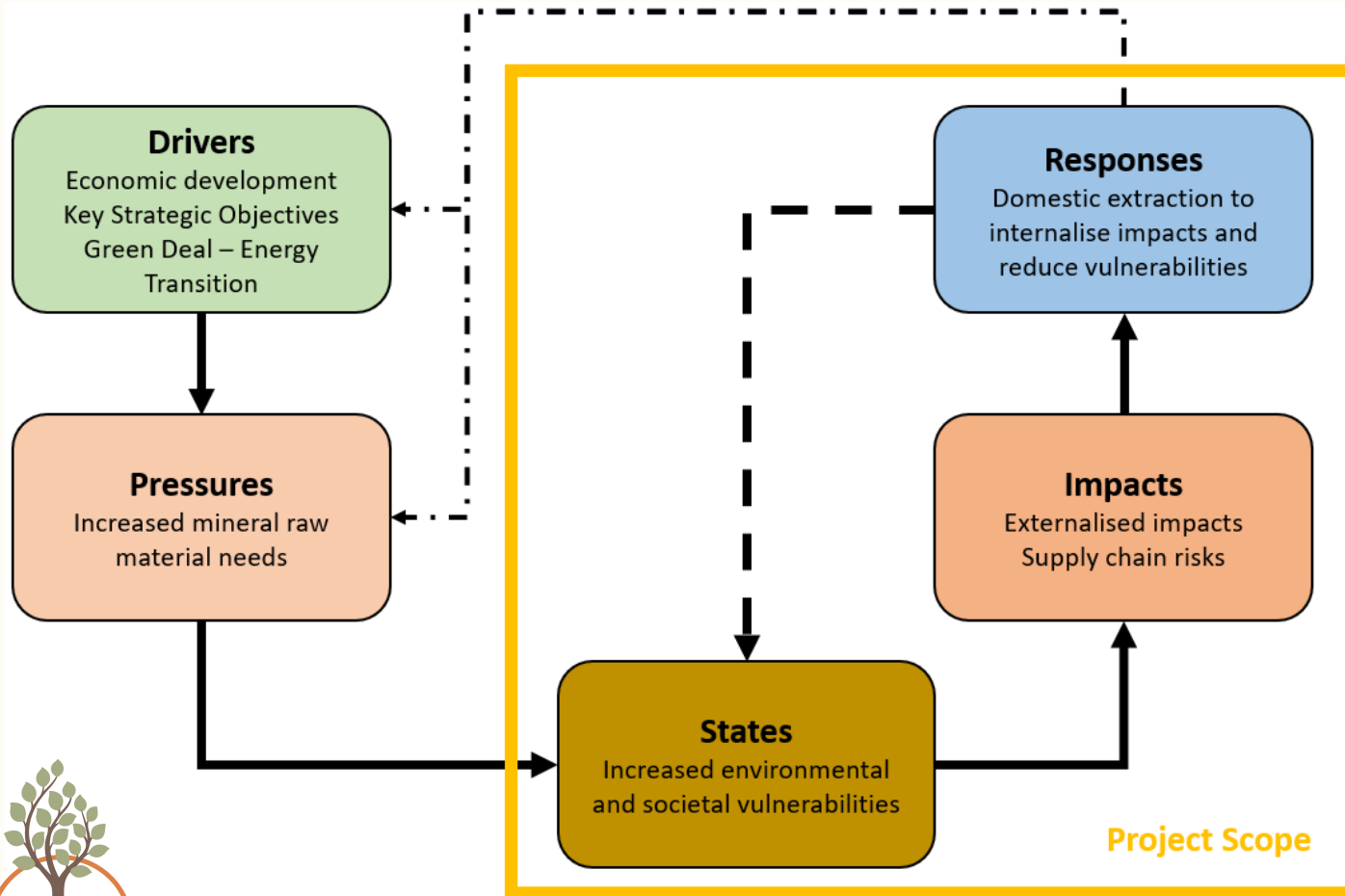
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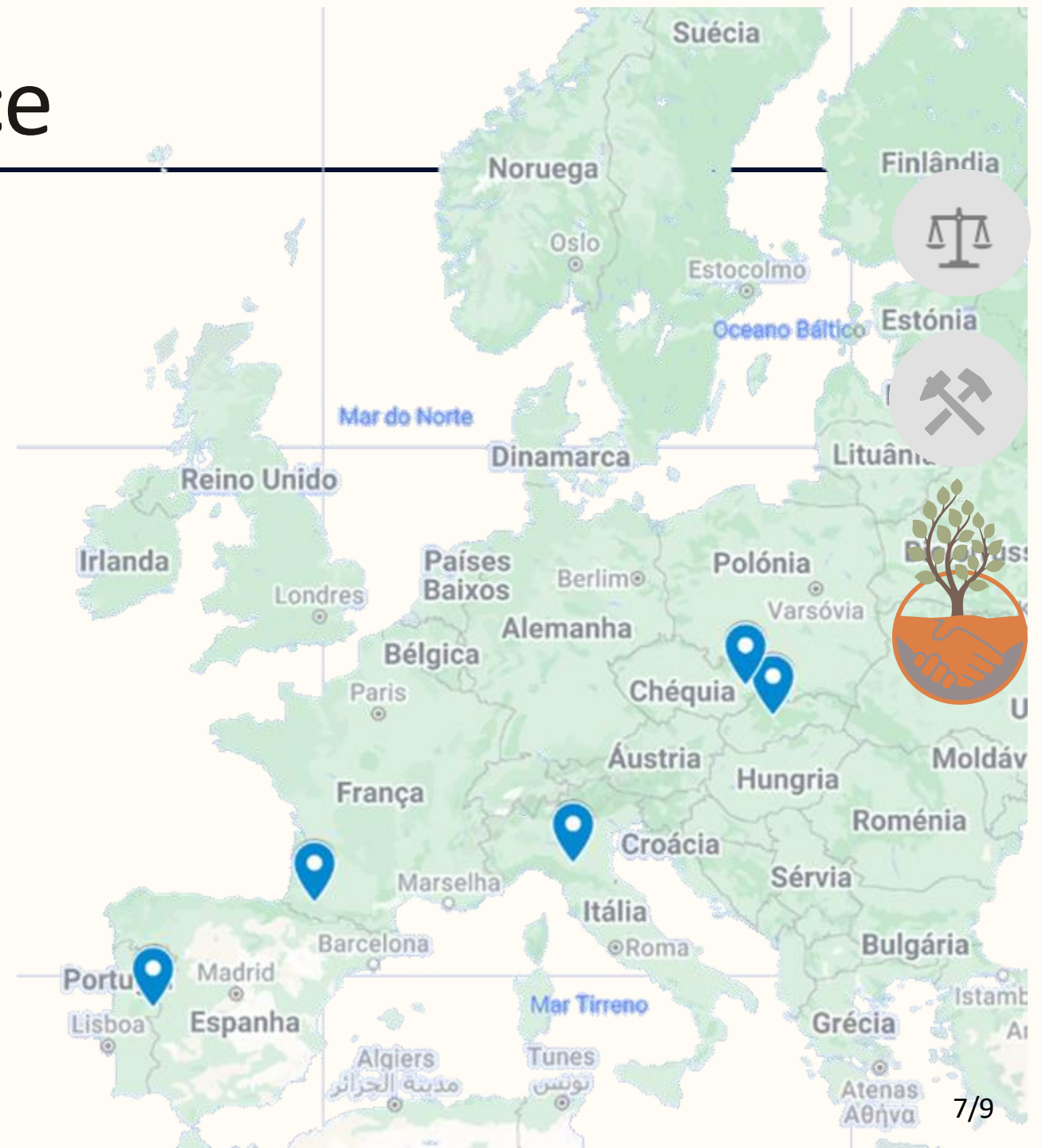
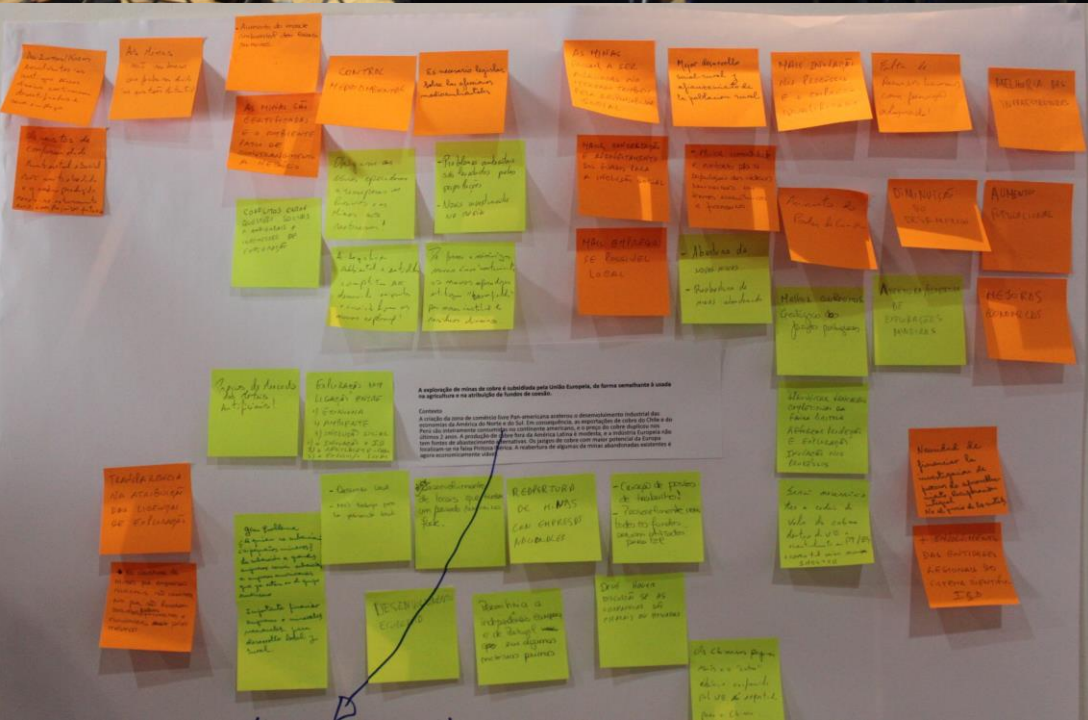
# CIRAN Critical RAw materials extraction in enviroNmentally protected areas

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





# Enabling Coexistence





# The Path Forward

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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.





# Consortium

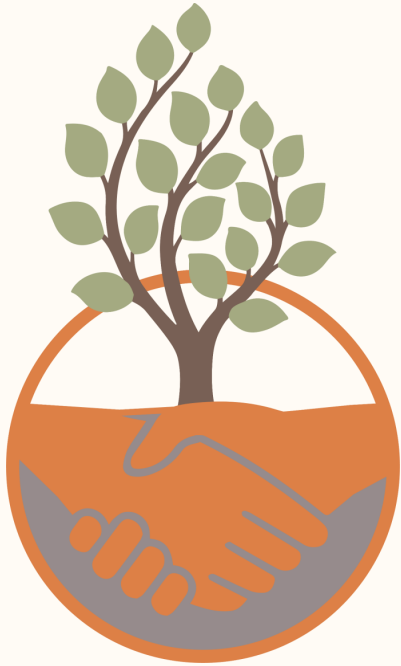
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# For more insights follow [ciranproject.eu](https://ciranproject.eu)

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Thank you for your attention

@vitor\_eurgeol