



WHY CEBRA : Platinum Group Metals (“PGM”) are classified as Critical Raw Materials by the EU and optimizing recovery from PGM secondary recycling streams is a key CEBRA objective to reduce EU’s dependence on external supply chains.

WHAT IS CEBRA : CEBRA is an EIT RawMaterials Upscaling project titled “*Integrated Circular Economy Business model for decoupling Europe from PGM supply*”, involving a consortium of five leading European partners in the PGM value chain.

The project started in January 2020 and will be developed over a 3-year time frame with a total budget of 2M€. Following systematic research and innovation activities at lab scale, recycling PGM technologies will be brought to TRL7 and validated at system prototype demonstration level in operational environment level by experienced industrial partners.

CEBRA INNOVATION

The original idea for CEBRA was initiated through the PROMETHEUS H2020 project aimed at developing a disruptive innovation, enabling the first ever substitution by copper of up to 60% PGM used in Automotive Catalytic Converters. PGM criticality is the subject of further research through the PLATIRUS H2020 project aimed at reducing EU dependence on PGM by upscaling a novel cost- and energy-efficient, miniaturized PGM recovery and raw material production process. In CEBRA, two innovative technologies currently at TRL 5 will be upscaled to TRL 7 with the intended delivery of a circular economy model based on a disruptive value chain for PGM.

CEBRA IMPACT

1.- Securing raw materials supply :

The CEBRA business model will improve collection and recycling rates while lowering the quantity of PGM used per ACC, thereby positively impacting available EU PGM supply.

2.- Designing materials solutions :

The CEBRA technology will design a new material solution specifically decreasing the PGM quantity via partial substitution by copper.

3.- Closing materials loops :

The CEBRA business model will help in raising consumer awareness and implementing a decentralized metal circular value chain, thereby better closing material loops.