



PROJECT

ROTATE

A more sustainable and committed mining model

ROTATE's objective is to achieve a near zero emissions and pollution obtention of raw materials, providing new tools for the mining industry in its journey to a more environmentally, socially and economically sustainable mineral extraction



This project has received funding from the European Union's Horizon 2021 Research And Innovation programme under Grant Agreement N° 101058651

21

PARTNERS

9

COUNTRIES

€15 M

TOTAL BUDGET

48

MONTHS



IN ONE CLICK

Coordinator	Programme	Period
Asociación Nacional de Empresarios Fabricantes de Aridos (ANEFA)	Horizon Europe	2022-2026
Sector Mining and mineral processing	Web	

01
Challenge

ROTATE's ambition is to tap the full potential of minerals extraction and processing in a sustainable and ecological way, developing the needed technologies and tools for achieving zero emissions and pollution for essential and critical raw materials obtention and ensuring a circular approach by implementing mechanisms for waste valorisation. ROTATE project also aims at providing a wholistic solution to the challenge, answering to a complex societal challenge by expecting to achieve the Social Licence to Operate in all the Mining and Quarrying sites of the project.

02
Solution

ROTATE'S solution is providing new tools for the mining industry in its journey to a more environmentally, socially and economically sustainable mineral extraction. The solutions proposed in the project will allow to improve the cut-off grade while reducing the environmental footprint of the whole process and at the same time addressing the complex societal challenge of achieving social acceptance and citizen engagement.

03
Impacts

Overcome the reluctance of social agents to the exploitation of Critical Raw Materials (CRM) deposits thanks to the environmental impact reduction and the integration of social perspectives. This will boost the access of EU to strategic CRM enabling the development of the Renewables, e-mobility and Defence & Space sectors. In addition, ROTATE expects to increase the social acceptance and citizen awareness on the importance of CRM for our daily lives.