

R&D PROJECT



SOCIOS



UNIVERSIDAD
DE GRANADA

Business Area

Infraestructuras
COMSA, S.A.

DURACIÓN

2025- 2028

Total Budget:
438.139,50 €

COMSA Budget : 239.340€

Keywords

Elastomeric ballast, railway, sustainability

CONTACT

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Project Title

Research and development of coatings for ballast made of limestone and dolomitic nature and recycled ballast

Acronym

REBALAST

Project Content

This project proposes a revolutionary solution for the railway industry, capable of improving the durability and sustainability of railway tracks through the development of a new type of ballast. This innovative material consists of conventional ballast aggregates coated with an advanced binder and elastomeric material.

General Objectives

To achieve the defined goals, the project has been structured into the following Work packages:

WP1: Design and development of sustainable elastomeric ballast

WP2: Manufacturing and characterization

WP3: Design of a test method to evaluate the effect of REBALAST on the durability of the ballast layer

WP4: Development of laboratory tests to measure REBALAST's vibration damping capacity and mechanical behavior

WP5: Design of the production process and study in a real track section

WP6: Sustainability analysis of the designed solution

WP7: Coordination and dissemination of results

Results and Conclusions

Project in progress

