

# TRANSPORT

R&D ecosystem for the implementation of additive manufacturing and 3D printing in the transport industry

## PROJECT LEADER

**CIMNE<sup>R</sup>**

**LLAVOR 3D**  
Comunitat RIS3CAT

## OBJECTIVE

The project aims to obtain new components and parts for transport structures, especially in the railway sector, with the use of AM/3DP technologies.

## EXPECTED RESULTS

- Design strategies for lighter aluminium and polymer materials for railway structures
- Numerical model for the simulation and validation of AM/3DP lattice structures
- Reduction of weight and cost of the final products produced by AM/3DP

## PARTNERS

**LEiTET**  
managing technologies

**ELIX POLYMERS**

**ATOTECH**

**ALSTOM**

**hp**

**CIM UPC**  
UNIVERSITAT POLITÈCNICA  
DE CATALUNYA

**IQS**  
PERSONA CIÈNCIA EMPRESA  
UNIVERSITAT RAMON LLULL

**TECALUM®**  
Industrial



Budget: 2.709.094,85€

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**ACCIÓ**

**Generalitat de Catalunya**



**Unió Europea**  
Fons europeu  
de desenvolupament regional

LLAVOR 3D està cofinançat pel Fons Europeus de Desenvolupament Regional de la Unió Europea en el marc del Programa Operatiu FEDER de Catalunya 2014-2020 amb un ajut de 3.8M€.