



LOCALIZED COMPOSITE REINFORCEMENT OF METAL PARTS

PROJECT ACHIEVMENTS

- Automotive metal parts reinforced with patches Composite
- Filing a patent: Priority filing n°FR22 06525 of 29/06/2022 on the assembly of a metal part and a material part composite
- Simulation models for assemblies that take interface behavior into account

TONIC PROJECT | 2019 - 2022

The objective of this project is to develop one or more competitive industrial processes for the manufacture of metal parts with localized composite reinforcements for automotive applications.



3 YEARS



1 650K€



INDUSTRIAL APPLICATIONS

The gains expected by the automotive industry are:

- A strategy for localized reinforcement of metal automotive parts.
- A technical and economic evaluation of the solutions envisaged within the chosen technical perimeters.
- An evaluation of the mechanical performance obtained, by physical tests, but also by numerical simulation.
- An evaluation of tools for optimizing the shape, location and orientation of composite reinforcements