

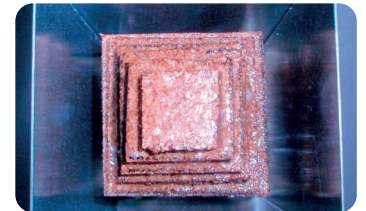


- ▶ Lower environmental impact
- ▶ Reduced material cost
- ▶ Materials from renewable resources
- ▶ Potential use of local resources
- ▶ Valorisation of waste and side streams
- ▶ Use of recycled materials
- ▶ Contribution to circular economy
- ▶ Similar mechanical performances
- ▶ High value-added real natural aesthetic

INNOVATIONS BY CTAG



New formulations of biobased composites suitable for injection moulding.



New aesthetics based on natural resources



MATERIALS INNOVATION

- ▶ 17 patents & 2 pending
- ▶ 20 collaborative projects
 - ▶ 10 EU projects
H2020, 7FP, Interreg SUDOE & POCTEP
 - ▶ 10 as coordinators
- ▶ 30 customer R&I projects
- ▶ International Collaborations:
 - ▶ 9 automotive OEMs
 - ▶ 18 TIER1
 - ▶ EU excellence research institutes
 - ▶ SMEs with intensive research capacities
- ▶ Synergy with in-house technological capacities
 - ▶ CAE design: structural linear/non-linear analysis, topology optimization
 - ▶ Virtual simulation: crashworthiness, fluid determination, kinematics, process simulation
 - ▶ Physical validation: climatic, vibro-acoustics, fatigue, materials, engine, electronics and ergonomics
- ▶ Deep knowledge of the analysis and application of automotive regulations and standards as well as of the development of new testing strategies for new materials



LATEST PROJECTS



New biocomposites from renewable resources with improved thermal and fire resistance for manufacturing a truck interior part with high quality surface finishing
FP7-SME-2013 | www.naturtruck.eu



Virtual platform to promote the use of eco-friendly materials in the automotive sector based on renewable resources
INTERREG IVA POCTEP | www.greenmotionproject.com



New biocomposites based on thicket and other forest wastes used as plastic reinforcements for automotive components
Regional



Research in new biomass-based composites from renewable resources with improved properties for vehicle parts moulding
7FP-NMP-2009 | www.ecoplastproject.com



Development of new biodegradable materials from Euro-region natural resources for their application in the car making industry
INTERREG IIIA