

FLAMINGO

Fabrication of Lightweight Aluminium Metal matrix composites and validation In Green vehicles

Deliverable D 4.1
Report on topology optimization methodology

Lead Beneficiary

ÖGI

Delivery Date

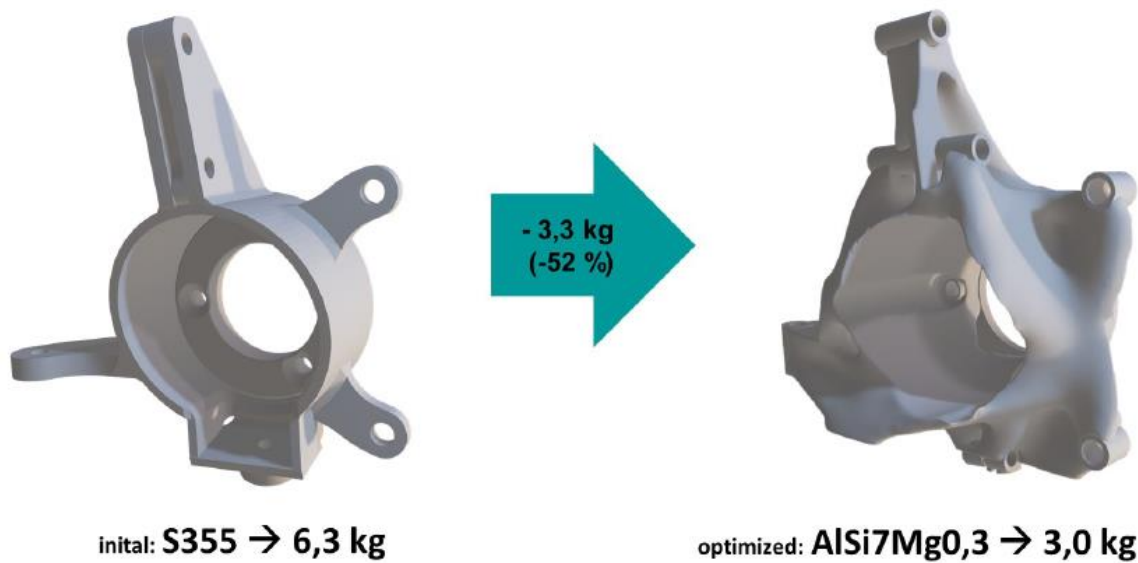
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Publishable Executive Summary

Composite materials will be increasingly used in battery electric vehicles (BEV) to make them lighter. The aims are to produce reinforced metal-matrix castings or extrusion parts (Al-MMC) with improved properties in terms of weight, strength and/or stiffness, compared to the existing steel used in the electric vehicle. Further energy, emissions and costs will be saved.



Here you can see the interaction steps of the optimization to the casting of the component. We received the source of the 3D-design of the steering knuckle from Alke.

