

**Introduction to RIMMEL project**  
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Scientific and technological targets of the RIMMEL project will be presented, with emphasis on the innovative strategy combining additive manufacturing fabrication and multi-functional coatings deposition. Focus will be on the multi-dimensional aspects of this strategy, oriented to optimize, from the macro-scale down to micro-nano scale, both surface finishing and layer(s) thickness of the final product, without detrimental of the tribo-mechanical performances.