



Towards performant development and production of high-quality composites components  
with ESI PAM-COMPOSITES solution

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### **Abstract**

This presentation highlights the 2022 key capabilities implemented in ESI PAM-COMPOSITES with the demonstration of the added-values on typical industrial cases.

A focus will be made on the improvement of the productivity through important enhancements on usability and accuracy that will be covered during that talk.

Sheet Molding Compound (SMC) materials, because of their cost advantage and because of mechanical properties that can be reached, represent very good candidates in lightweight engineering for industrial application. However, a major difficulty met for a wider deployment SMC is the capability to estimate in the early stage of a product development, the mechanical properties of a SMC part, knowing that these properties are mostly induced by the manufacturing. ESI innovative approach to quickly and easily predict local material properties induced by the SMC manufacturing process and its latest enhancements will be presented. Finally, highlights on ESI's vision for 2023 will be given.