TO SUPPORT THE TRANSFORMATION OF EXISTING SME’S, TIER 1 & TIER 2'S INTO VOLUME AUTOMOTIVE COMPOSITE MATERIAL SUPPLIERS (VACMT)

INTRODUCTION
The project VACMT is responding to the ongoing mega trends in society that effect the manufacturing ecosystem. The trends specifically include reduction of CO2 emissions, reduction of waste, good job creations i.e healthy, high skill jobs etc.

The project focus is concerned with light sustainable materials that can enable the transformation of automotive transportation from internal combustion engine to electrically powered vehicles.

The proposed solution is to utilise polymer composite materials which can be used to reduce weight, increase functionality and design space. These future components need to be manufactured in a local, automated high-volume environment. However, the composite material solution also needs to be compatible with surrounding metallic components / interfaces in a synergistic multi-material design.

PHASE ONE
- Virtual case studies
- Background technology review
- Understanding the challenges
- Aligning with supply chain needs

WORK COMPLETED
- Contacted over 75 companies
- Meeting with over 20 companies to discuss industrial focus
- Develop a technology map of the relevant technology
- Initiated five industrially based case studies to evaluate the potential and viability of the various technologies
- Analysis of possible circular economy based business models for tier-2 companies

FUTURE WORK
Phase two
- Further development of the case studies
- Practical demonstration and feasibility
- Development of the ecosystem
- Works across more European Companies

Phase three
- Delivers model ready to industry
- Supports industry adoption

“The initiative has been of interest to industry and if you would like to be involved or have more questions please contact us” /Erik Marklund
Senior Scientist at RISE. Contact me here

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