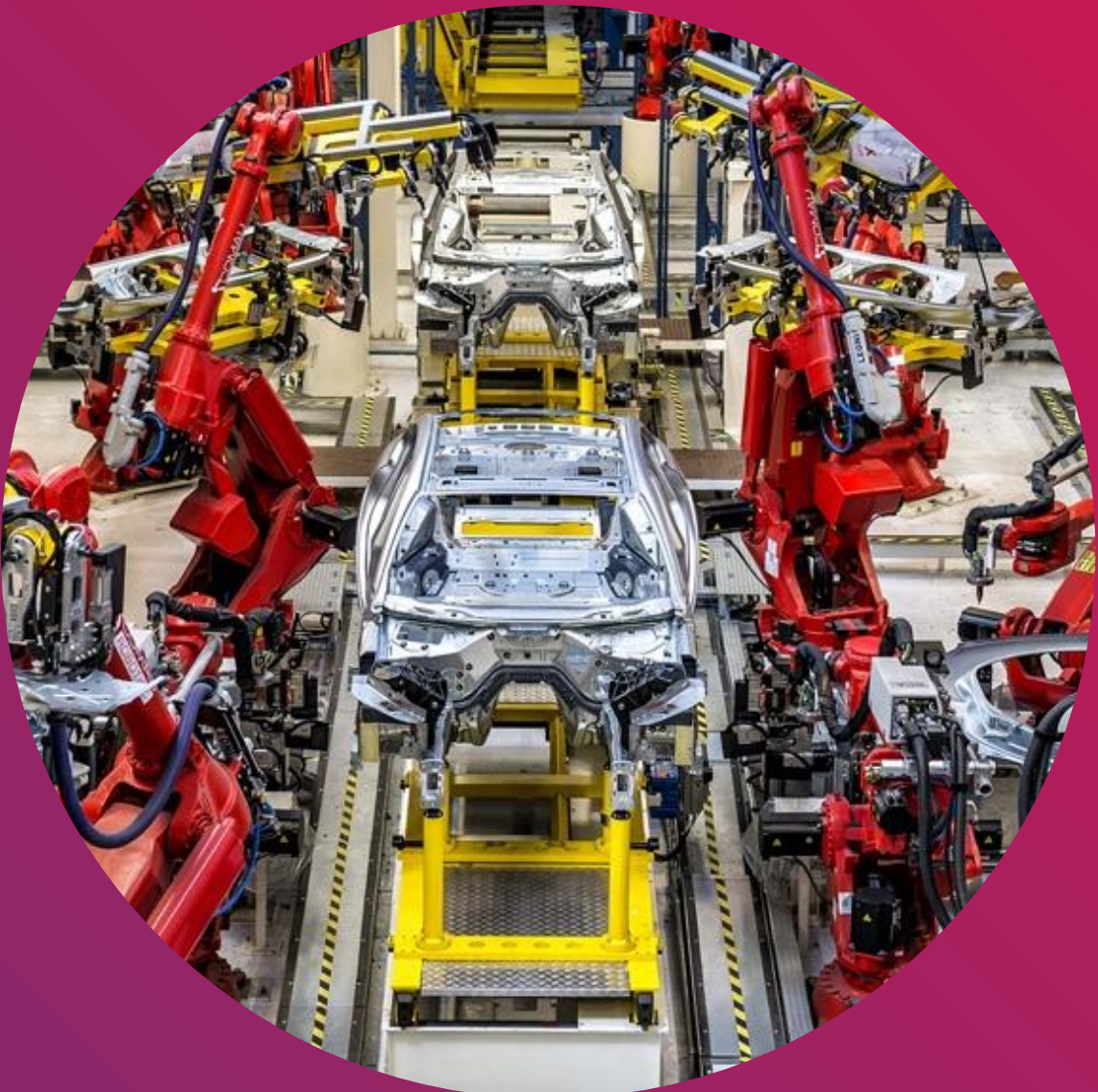


### INTRODUCTION

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 (2020)**
  - VIRTUAL CASE STUDIES
  - BACKGROUND TECHNOLOGY REVIEW
  - UNDERSTANDING THE CHALLENGES
  - ALIGNING WITH SUPPLY CHAIN NEEDS
  
- **PHASE TWO (2021)**
  - FURTHER DEVELOPMENT OF THE CASE STUDIES
  - PRACTICAL DEMONSTRATION AND FEASIBILITY
  - DEVELOPMENT OF THE ECOSYSTEM
  - WORKS ACROSS MORE EUROPEAN COMPANIES

- **WORK COMPLETED**
  - Contacted over 100 companies
  - Meeting with over 30 companies to discuss industrial focus
  - Develop a technology map of the relevant technology
  - Working with six 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
  - Supported 13 European companies

