

Executive Summary Deliverable 4.1

Full-scale prototypes of the 3 use-case components

The implementation of the findings from this research project regarding the additive manufacturing of dissimilar materials in test hardware has so far shown good progress and results. The manufacturing methods defined in advance were largely implemented without modification. In isolated cases, adjustments to the planned solution were necessary. Limitations in manufacturing capacity have led to some delays in the timely delivery of prototypes. At the same time, lessons learned from the initial manufacturing steps have already been incorporated into the subsequent manufacturing process.

The manufacturing challenges mentioned result in a delayed completion of the prototype in Use Case 1. Use Cases 2 and 3 are able to deliver the prototypes on time so that they can be subjected to a subsequent test campaign. Use Case 3 has a unique feature in that it tests a total of 4 test specimen across 2 test campaigns. Since the first test campaign had already been completed at the time this report was prepared, the results of optimizations made to the test specimen design have already been incorporated into this report.