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There is currently no "universal" tool that allows monitoring and predicting the health of composite material structures. This strategic project therefore first targets to develop new sensor technologies with unprecedented characteristics that can support the realization of such a universal tool. This tool essentially required for industrial structures which, by construction, accumulate a large number of singularities and present much more variability than coupons produced under laboratory conditions. This research project therefore not only targets research on coupon level but also on industrial component level. Furthermore, the consortium will consider all stages of the life cycle of a composite material product, from material fabrication to operation of the structure.

