

The WInSiC4AP European project and its outcomes for efficient and cost-effective applications in automotive, avionics, railway and defence

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The Distretto Tecnologico Sicilia Micro e Nano Sistemi (DTSMNS) is the subject responsible for the coordination of the project WInSiC4AP (Wide band gap Innovative SiC for Advanced Power) that aims to design and to prototype on SiC based highly integrated power converters, working on group of demonstrators for automotive, railways and avionics.

WInSiC4AP involves 20 European partners (large and medium enterprises, RTO and Universities) coming from 4 different Countries, and is supported with synergy between ECSEL JU (European Agency for “Electronic Components and Systems for European Leadership”), and ESI funding by MIUR, enabling complementary activities with relevant economic and social impact envisage in a less developed Regions of Union. Societal and Economic impact is relevant as few percent of efficiency improvements in power conversion can lead to impressive energy saving effects. Reliability, efficiency improvements, cost and size reductions, designed-and-manufactured-in-EU are the most relevant challenges addressed in the WInSiC4AP project.