

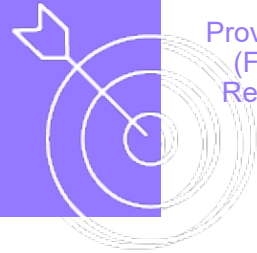
SiCRET

Silicon Carbide (MOSFET) Reliability Evaluation for Transport



Objectives :

- Assessment of SiC technology for High Reliability demanding Applications
- Reliability analysis adapted to application use profiles
- Guidelines proposal to introduce and qualify SiC MOSFET technology in severe Mission Profiles



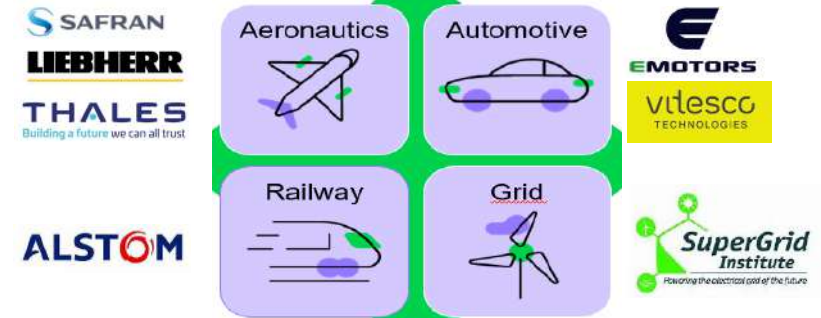
≈ 5 Million €
Provided by the ANR
(French National Research Agency)



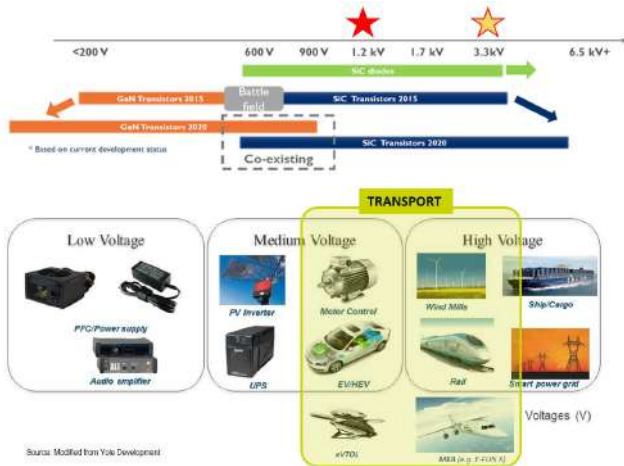
36 Months



19



Context



- Future electrification technologies require drastic improvements of power electronics. SiC MOSFET are **key enablers**.
- Reliability/lifetime are mandatory for SiC adoption
- Convergence of applications/high reliability requirements
- Strong investment of industry is necessary to adapt qualification approach and design rules

