



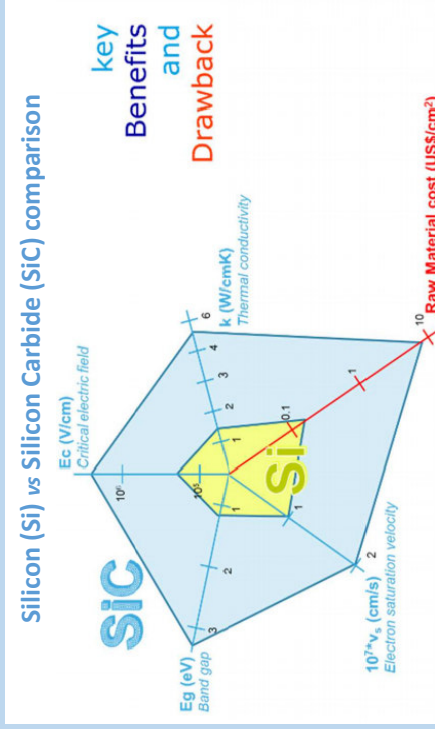
Project Title: first and euRoPEAn siC eigTh Inches pilot line "REACTION"

Main Goal: REACTION will push through the first worldwide 200mm Silicon Carbide (SiC) Pilot Line Facility for Power technology addressing mass-market applications like smart energy, smart mobility and industrial. The Project strength is the complete Pilot Line value chain implementation generated by integrating and optimizing partnerships in the fields of SiC equipment developers, SiC process technologists, RTOs and end users. This will lead to the improvement in productivity, competitiveness and affordability of the next generation of SiC devices and system solutions starting from 6"(inches) substrates and moving forward to 8" substrates.

WW SiC facilities are today still far from 8" implementation



This project has received funding from the European Union's Horizon 2020 research and innovation programme (via ECSEL) under Grant Agreement ID 783158.



Project Work Plan



PROJECT PARTNERS

- 1 STMICROELECTRONICS SRL (IT)
- 2 CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LA NANOELETRONICA (IT)
- 3 L.P.E. SPA (IT)
- 4 UNIVERSITA DEGLI STUDI DI PALERMO (IT)
- 5 CONSIGLIO NAZIONALE DELLE RICERCHE (IT)
- 6 Evatec AG (CH)
- 7 HQ-Dielectrics GmbH (DE)
- 8 JSR MICRO NV Belgium (BE)
- 9 MIITTUNIVERSITETET Sweden (SE)
- 10 Elforest AB Sweden (SE)
- 11 EV GROUP E. THALLNER GMBH (AT)
- 12 UNIVERSITATEA POLITEHNICA DIN BUCURESTI (RO)
- 13 NANO DESIGN SRO (SK)
- 14 SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE (SK)
- 15 LAM RESEARCH SAS (FR)
- 16 Italeaf UK limited (UK)
- 17 centrotherm international AG (DE)
- 18 INSTYTUT TECHNOLOGII ELEKTRONOWEJ (PL)
- 19 DISCO HI-TEC EUROPE GMBH (DE)
- 20 II-VI DEUTSCHLAND GMBH (DE)
- 21 FOR OPTIMAL RENEWABLE ENERGY SYSTEMS SL (ES)
- 22 UNIVERSIDAD DE ZARAGOZA (ES)
- 23 APPLIED MATERIALS ISRAEL LTD (IL)
- 24 DACPOL SP. Z O.O. (PL)
- 25 IKERLAN SCL (ES)
- 26 APPLIED MATERIALS IRELAND LIMITED (IE)
- 27 Applied Materials GmbH (DE)

Programme: H2020-EU.2.1.1.7 ECSEL

Call: H2020-ECSEL-2017-1-IA-two-stage (H2020-ECSEL-2017-1-IA-two-stage)

Type of action: ECSEL-IA (ECSEL Innovation Action)

Topic: ECSEL-2017-1

Proposal number: 783158-2 Grant agreement ID: 783158

Start date: 1 November 2018 End date: 30 April 2022

Project Budget: € 49.767.672,50 Budget Unical: 325.000

EU Contribution: € 10 401 952,25

Unical Contact Person: Prof. Felice Crupi (DIMES) felice.crupi@unical.it

UNICAL takes part in the project through the Consorzio Nazionale Interuniversitario per la Nanoelettronica «IU.NET», of which are members 12 Italian universities carrying out first class research in Electronics.