SemI40
Project ID: 692466
Funded under: H2020-EU.2.1.1.7. - ECSEL

Power Semiconductor and Electronics Manufacturing 4.0

From 2016-05-01 to 2019-04-30, ongoing project | SemI40 Website

Project details

| Total cost: | Topic(s): |
| EUR 61 986 675 | ECSEL-14-2015 - Smart production |
| EU contribution: | Call for proposal: |
| EUR 12 227 386,14 | H2020-ECSEL-2015-2-IA-two-stage See other projects for this call |
| Coordinated in: | Funding scheme: |
| Austria | ECSEL-IA - ECSEL Innovation Action |

Objective

Addressing European Policies for 2020 and beyond the “Power Semiconductor and Electronics Manufacturing 4.0” (SemI40) project responds to the urgent need of increasing the competitiveness of the Semiconductor manufacturing industry in Europe through establishing smart, sustainable, and integrated ECS manufacturing. SemI40 will further pave the way for serving highly innovative electronic markets with products powered by microelectronics “Made in Europe”.

Positioned as an Innovation Action it is the high ambition of SemI40 to implement technical solutions on TRL level 4-8 into the pilot lines of the industry partners. Challenging use cases will be implemented in real manufacturing environment considering also their technical, social and economic impact to the society, future working conditions and skills needed.

Applying “Industry 4.0”, “Big Data”, and “Industrial Internet” technologies in the electronics field requires holistic and complex actions.

The selected main objectives of SemI40 covered by the MASP2015 are: balancing system security and production flexibility, increase information transparency between fields and enterprise resource planning (ERP), manage critical knowledge for improved decision making and maintenance, improve fab digitalization and virtualization, and enable automation systems for agile distributed production.

SemI40’s value chain oriented consortium consists of 37 project partners from 5 European countries. SemI40 involves a vertical and horizontal supply chain and spans expertise and partners from raw material research, process and assembly innovation and pilot line, up to various application domains representing enhanced smart systems. Through advancing manufacturing of electronic components and systems, SemI40 contributes to safeguard more than 20,000 jobs of people directly employed in the participating facilities, and in total more than 300,000 jobs of people employed at all industry partners’ facilities worldwide.

Related information

Report Summaries
Periodic Reporting for period 1 - SemI40 (Power Semiconductor and Electronics Manufacturing 4.0)
Coordinator

INFINEON TECHNOLOGIES AUSTRIA AG
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9500 VILLACH
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EU contribution: EUR 1 204 537,50

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

Participants

KAI KOMPETENZZENTRUM AUTOMOBIL - UND INDUSTRIEELEKTRONIK GMBH
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KNOW-CENTER GMBH RESEARCH CENTER FOR DATA-DRIVEN BUSINESS & BIG DATA ANALYTIKS
INFFELDGASSE 13/6
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EU contribution: EUR 405 000

Activity type: Research Organisations
Contact the organisation

INFINEON TECHNOLOGIES IT-SERVICES GMBH
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EU contribution: EUR 261 105

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AT & S AUSTRIA TECHNOLOGIE & SYSTEMTECHNIK AKTIENGESELLSCHAFT
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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EU contribution: EUR 1,738,467

INSTITUT FÜR AUTOMATION UND KOMMUNIKATION E.V. MAGDEBURG
WERNER HEISENBERG STRASSE 1
39106 MAGDEBURG
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**Activity type:** Research Organisations

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EU contribution: EUR 157,218

SEMIKRON ELEKTRONIK GMBH & CO. KG
SIGMUNDSTRASSE 200
90431 NURNBERG
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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EU contribution: EUR 739,200

TECHNISCHE UNIVERSITAET DRESDEN
HELMHOLTZSTRASSE 10
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**Activity type:** Higher or Secondary Education Establishments

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EU contribution: EUR 382,501

ROBERT BOSCH GMBH
Robert-Bosch Platz 1
70839 GERLINGEN-SCHILLERHOEHE
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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EU contribution: EUR 450,399.19
SYSTEMA SYSTEMENTWICKLUNG DIPL. INF. MANFRED AUSTEN GMBH
MANFRED VON ARDENNE RING 6
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EU contribution: EUR 231 250
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
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PLASMETREX GMBH
Schwarzschildstrasse 3
12489 BERLIN
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EU contribution: EUR 55 000
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
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ZNT ZENTREN FUR NEUE TECHNOLOGIEN GMBH
LENA-CHRIST-STRASSE 2
82031 GRUNWALD
Germany
EU contribution: EUR 131 582,50
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

FABMATICS GMBH
ZUR STEINHOEHE 1
01109 DRESDEN
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EU contribution: EUR 275 000
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
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ROTH & RAU - ORTNER GMBH Participation ended
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01099 DRESDEN
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EU contribution: EUR 0
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METRALABS GMBH NEUE TECHNOLOGIEN UND SYSTEME
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HOCHSCHULE MITTWEIDA (FH)
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EU contribution: EUR 108 014

Activity type: Higher or Secondary Education Establishments
Contact the organisation

ELMOS Semiconductor AG
Heinrich-Hertz-Str 1
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EU contribution: EUR 464 948,44

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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UNIVERSITA DEGLI STUDI DI PAVIA
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EU contribution: EUR 150 000

Activity type: Higher or Secondary Education Establishments
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L.P.E. SPA
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EU contribution: EUR 155 468,75

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RUE GASTON IMBERT PROLONGEE
13790 ROUSSET
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EU contribution: EUR 480 727,50
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CRITICAL MANUFACTURING SA
RUA ENG FREDERICO ULRICH 2650
4470-605 MOREIRA DA MAIA PORTO
Portugal
EU contribution: EUR 74 375
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ATEP - AMKOR TECHNOLOGY PORTUGAL SA
AVENIDA 1 DE MAIO 801
4485 629 MINDELO VILA DO CONDE
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EU contribution: EUR 83 437,50
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INSTITUTO DE TELECOMUNICACOES
CAMPUS UNIVERSITARIO DE SANTIAGO UNIVERSIDADE DE AVEIRO
3810 193 GLORIA E VERA CRUZ
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EU contribution: EUR 119 750
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**Activity type:** Research Organisations
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See on map

**Activity type:** Higher or Secondary Education Establishments
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Activity type: Research Organisations

Contact the organisation

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

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