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, closed project | SemI40 Website

Project details

| Total cost: | Topic(s): |
| EUR 61 919 643,75 | ECSEL-14-2015 - Smart production |

| EU contribution: | Call for proposal: |
| EUR 12 227 386,14 | H2020-ECSEL-2015-2-IA-two-stage |

| 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
SIEMENSTRASSE 2
9500 VILLACH
Austria

See on map

Activity type: Other
Contact the organisation

Participants

KAI KOMPETENZZENTRUM AUTOMOBIL - UND INDUSTRIELELEKTRONIK GMBH
EUROPASTRASSE 8
9524 VILLACH ST MAGDALEN
Austria

See on map

Activity type: Other
Contact the organisation

KNOW-CENTER GMBH RESEARCH CENTER FOR DATA-DRIVEN BUSINESS & BIG DATA ANALYTICS
INFFELDGASSE 13/6
8010 GRAZ
Austria

See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

INFINEON TECHNOLOGIES IT-SERVICES GMBH
LAKESIDE 5
9020 KLAGENFURT
Austria

See on map

Activity type: Other
Contact the organisation

AT & S AUSTRIA TECHNOLOGIE & SYSTEMTECHNIK AKTIENGESELLSCHAFT
FABRIKSGASSE 13
8700 LEOBEN
Austria

See on map

Activity type: Other
Contact the organisation
Fraunhofer Austria Research GmbH
Theresianumgasse 27
A-1040 Vienna
Austria
EU contribution: EUR 222 635

Activity type: Higher or Secondary Education Establishments
Contact the organisation

TECHNISCHE UNIVERSITAET WIEN
KARLSPLATZ 13
1040 WIEN
Austria
EU contribution: EUR 365 712

Activity type: Higher or Secondary Education Establishments
Contact the organisation

PLANSEE SE
Metallwerk Planseestrasse 71
6600 REUTTE
Austria
EU contribution: EUR 185 915,63

Activity type: Other
Contact the organisation

AVL LIST GMBH
HANS-LIST-PLATZ 1
8020 GRAZ
Austria
EU contribution: EUR 283 862,06

Activity type: Other
Contact the organisation

UNIVERSITAET KLAGENFURT
UNIVERSITAETSSTRASSE 65-67
9020 KLAGENFURT
Austria
EU contribution: EUR 201 172,50

Activity type: Higher or Secondary Education Establishments
Contact the organisation
Kompetenzzentrum - Das Virtuelle Fahrzeug, Forschungsgesellschaft mbH
Inffeldgasse 21 A
8010 Graz
Austria
See on map

**Activity type:** Higher or Secondary Education Establishments
Contact the organisation

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH
GIEFINGGASSE 4
1210 WIEN
Austria
See on map

**Activity type:** Higher or Secondary Education Establishments
Contact the organisation

FACHHOCHSCHULE BURGENLAND GMBH
CAMPUS 1
7000 EISENSTADT
Austria
See on map

**Activity type:** Higher or Secondary Education Establishments
Contact the organisation

MATERIALS CENTER LEOBEN FORSCHUNG GMBH
ROSEGGERSTRASSE 12
8700 LEOBEN
Austria
See on map

**Activity type:** Higher or Secondary Education Establishments
Contact the organisation

INFINEON TECHNOLOGIES DRESDEN GMBH & CO KG
KÖNIGSBRUCKER STRASSE 180
01099 DRESDEN
Germany
See on map

**Activity type:** Other
Contact the organisation
AMY CAMPEON 1-15
85579 NEUBIBERG
Germany
See on map

**Activity type:** Other

Contact the organisation

INSTITUT FUER AUTOMATION UND KOMMUNIKATION E.V. MAGDEBURG
WERNER HEISENBERG STRASSE 1
39106 MAGDEBURG
Germany
See on map

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

Contact the organisation

SEMIKRON ELEKTRONIK GMBH & CO. KG
SIGMUNDSTRASSE 200
90431 NURNBERG
Germany
See on map

**Activity type:** Other

Contact the organisation

TECHNISCHE UNIVERSITAET DRESDEN
HELMHOLTZSTRASSE 10
01069 DRESDEN
Germany
See on map

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

Contact the organisation

ROBERT BOSCH GMBH
ROBERT-BOSCH-PLATZ 1
70839 GERLINGEN-SCHILLERHOEHE
Germany
See on map

**Activity type:** Other

Contact the organisation
SYSTEMA SYSTENWIVLUNG DIPL INF MANFRED AUSTEN GMBH  
MANFRED VON ARDENNE RING 6  
01099 DRESDEN  
Germany  
**EU contribution:** EUR 231 250

Activity type: Other  
Contact the organisation

PLASMETREX GMBH  
Schwarzchildstrasse 3  
12489 BERLIN  
Germany  
**EU contribution:** EUR 55 000

Activity type: Other  
Contact the organisation

ZNT ZENTREN FUR NEUE TECHNOLOGIEN GMBH  
LENA-CHRIST-STRASSE 2  
82031 GRUNWALD  
Germany  
**EU contribution:** EUR 131 582,50

Activity type: Other  
Contact the organisation

FABMATICS GMBH  
ZUR STEINHOEHE 1  
01109 DRESDEN  
Germany  
**EU contribution:** EUR 275 000

Activity type: Other  
Contact the organisation

ROTH & RAU - ORTNER GMBH  
MANFRED VON ARDENNE RING 7  
01099 DRESDEN  
Germany  
**EU contribution:** EUR 0

Activity type: Other  
Contact the organisation
METRALABS GMBH NEUE TECHNOLOGIEN UND SYSTEME
AM VOGELHERD 22
98693 ILMENAU
Germany
See on map

Activity type: Other
Contact the organisation

EU contribution: EUR 118,612,50

HOCHELEG UMIT WEIDA (FH)
TECHNIKUMPLATZ 17
09648 MITTWEIDA
Germany
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

ELMOS Semiconductor AG
Heinrich-Hertz-Str 1
44227 Dortmund
Germany
See on map

Activity type: Other
Contact the organisation

EU contribution: EUR 108,014

UNIVERSITA DEGLI STUDI DI PAVIA
STRADA NUOVA 65
27100 PAVIA
Italy
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

EU contribution: EUR 169,999,50

L.P.E. SPA
VIA DEI GIOVI 7
20021 BARANZATE MILANO
Italy
See on map

Activity type: Other
Contact the organisation

EU contribution: EUR 110,781,25
ION BEAM SERVICES
RUE GASTON IMBERT PROLONGEE
13790 ROUSSET
France
See on map
Activity type: Other
Contact the organisation

CRITICAL MANUFACTURING SA
RUA ENG FREDERICO ULRICH 2650
4470-605 MOREIRA DA MAIA PORTO
Portugal
See on map
Activity type: Other
Contact the organisation

ATEP - AMKOR TECHNOLOGY PORTUGAL SA
AVENIDA 1 DE MAIO 801
4485 629 MINDELO VILA DO CONDE
Portugal
See on map
Activity type: Other
Contact the organisation

INSTITUTO DE TELECOMUNICACOES
CAMPUS UNIVERSITARIO DE SANTIAGO UNIVERSIDADE DE AVEIRO
3810 193 GLORIA E VERA CRUZ
Portugal
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation

UNIVERSIDADE DE AVEIRO
CAMPUS UNIVERSITÁRIO DE SANTIAGO
3810-193 AVEIRO
Portugal
See on map
Activity type: Higher or Secondary Education Establishments
Contact the organisation
FRAUNHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
HANSASTRASSE 27C
80686 MUNCHEN
Germany
EU contribution: EUR 138 460

SCHILLER AUTOMATISIERUNGSTECHNIK GMBH
DONAU GEWERBEPARK 30
94486 OSTERHOFEN
Germany
EU contribution: EUR 205 314,69

POLITECNICO DI MILANO
PIAZZA LEONARDO DA VINCI 32
20133 MILANO
Italy
EU contribution: EUR 129 688

Activity type: Higher or Secondary Education Establishments
Activity type: Other
Activity type: Higher or Secondary Education Establishments

Last updated on 2017-08-04
Retrieved on 2019-06-12

© European Union, 2019