WAYTOGO FAST

Project ID: 662175
Gefördert unter: H2020-EU.2.1.1.7. - ECSEL

Which Architecture Yields Two Other Generations Of Fully depleted Advanced Substrate and Technologies

Von 2015-05-01 bis 2017-12-31, Abgeschlossenes Projekt

Ziel

The proposed pilot line project WAYTOGO FAST objective is to leverage Europe leadership in Fully Depleted Silicon on Insulator technology (FDSOI) so as to compete in leading edge technology at node 14nm and beyond preparing as well the following node transistor architecture. Europe is at the root of this breakthrough technology in More Moore law. The project aims at establishing a distributed pilot line between 2 companies:
- Soitec for the fabrication of advanced engineered substrates (UTBB: Ultra Thin Body and BOX (buried oxide)) without and with strained silicon top film.
- STMicroelectronics for the development and industrialization of state of the art FDSOI technology platform at 14nm and beyond with an industry competitive Power-Performance-Area-Cost (PPAC) trade-off.
A strong added value network is created across this project to enhance a competitive European value chain on a European breakthrough and prepare next big wave of electronic devices. The consortium gathers a large group of partners: academics/institutes, equipment and substrate providers, semiconductor companies, a foundry, EDA providers, IP providers, fabless design houses, and a system manufacturer. E&M will contribute to the objective of installing a pilot line capable of manufacturing both advanced SOI substrates and FDSOI CMOS integrated circuits at 14nm and beyond. Design houses and electronics system manufacturer will provide demonstrator and enabling IP, to spread the FDSOI technology and establish it as a standard in term of leading edge energy efficient CMOS technology for a wide range of applications battery operated (consumer, healthcare, Internet of things) or not. Close collaboration between the design activities and the technology definition will tailor the PPAC trade-off of the next generation of technology to the applications needs.

Verwandte Informationen

Berichtzusammenfassungen

Periodic Reporting for period 1 - WAYTOGO FAST (Which Architecture Yields Two Other Generations Of Fully depleted Advanced Substrate and Technologies)
**Koordinator**

STMICROELECTRONICS CROLLES 2 SAS  
RUE JEAN MONNET 850  
38920 CROLLES  
France  
**EU-Beitrag:** EUR 1 650 839,95

**Activity type:** Other  
Contact the organisation

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**Teilnehmer**

STMICROELECTRONICS GRENOBLE 2 SAS  
RUE JULES HOROWITZ 12  
38000 GRENOBLE  
France  
**EU-Beitrag:** EUR 0

**Activity type:** Other  
Contact the organisation

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STMICROELECTRONICS SA  
BOULEVARD ROMAIN ROLLAND 29  
92120 MONTROUGE  
France  
**EU-Beitrag:** EUR 708 501,81

**Activity type:** Other  
Contact the organisation

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COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES  
RUE LEBLANC 25  
75015 PARIS 15  
France  
**EU-Beitrag:** EUR 13 831 513,75

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

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SOITEC SA  
CHEMIN DES FRANQUES - PARC TECHNOLOGIQUE DES FONTAINES  
38190 BERNIN  
France  
**EU-Beitrag:** EUR 3 777 540,65

**Activity type:** Other  
Contact the organisation
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS
RUE MICHEL ANGE 3
75794 PARIS
France
See on map

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

SILTRONIC AG
HANNS SEIDEL PLATZ 4
81737 MUNCHEN
Germany
See on map

**Activity type:** Other
Contact the organisation

GLOBALFOUNDRIES Dresden Module One LLC & Co. KG
Wilschdorfer Landstrasse 101
01109 Dresden
Germany
See on map

**Activity type:** Other
Contact the organisation

DAINIPPON SCREEN DEUTSCHLAND GMBH
MUNDELHEIMER WEG 39
40472 DUSSELDORF
Germany
See on map

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

LAM RESEARCH AG
SEZ-STRASSE 1
9500 VILLACH
Austria
See on map

**Activity type:** Other
Contact the organisation
 FEI ELECTRON OPTICS BV
ACHTSEWEG NOORD GEBOUW AAE 5
5651 GG EINDHOVEN
Netherlands

**EU Beitrag:** EUR 259
898,60

**Activity type:** Other
Contact the organisation

UNIVERSITE CATHOLIQUE DE LOUVAIN
PLACE DE L UNIVERSITE 1
1348 LOUVAIN LA NEUVE
Belgium

**EU Beitrag:** EUR 84
906,25

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

HSEB DRESDEN GMBH
MANFRED VON ARDENNE RING 4
01099 DRESDEN
Germany

**EU Beitrag:** EUR 145
131,21

**Activity type:** Other
Contact the organisation

BRUKER AXS GMBH
OSTLICHE RHEINBRUCKENSTRASSE 49
76187 KARLSRUHE
Germany

**EU Beitrag:** EUR 694
160,32

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

PICOSUN OY
TIETOTIE 3
02150 ESPOO
Finland

**EU Beitrag:** EUR 72
970,62

**Activity type:** Other
Contact the organisation
SOCIONEXT EUROPE GMBH
PITTERSTRASSE 47
63225 LANGEN
Germany
See on map

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

Contact the organisation

PRODRIVE TECHNOLOGIES BV
SCIENCE PARK EINDHOVEN 5501
5692 EM SON
Netherlands
See on map

**Activity type:** Other

Contact the organisation

APPLIED MATERIALS FRANCE
864 CHEMIN DES FONTAINES
38190 BERNIN
France
See on map

**Activity type:** Other

Contact the organisation

EV GROUP E. THALLNER GMBH
DI ERICH THALLNER STRASSE 1
4782 ST FLORIAN AM INN
Austria
See on map

**Activity type:** Other

Contact the organisation

NOVA MEASURING INSTRUMENTS LTD
WEIZMANN SCIENCE PARK BUILDING 22
76100 REHOVOT
Israel
See on map

**Activity type:** Other

Contact the organisation
LORENZSTRASSE 10
70435 STUTTGART
Germany
See on map

**Activity type:** Other
Contact the organisation

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FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
HANSASTRASSE 27C
80686 MUNCHEN
Germany
See on map

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

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SONY DEUTSCHLAND GMBH
KEMPERPLATZ 1
10785 BERLIN
Germany
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

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INSTITUT POLYTECHNIQUE DE GRENOBLE
AVENUE FELIX VIALLET 46
38031 GRENOBLE CEDEX 1
France
See on map

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

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UNIVERSIDAD DE GRANADA
CUESTA DEL HOSPICIO SN
18071 GRANADA
Spain
See on map

**Activity type:** Higher or Secondary Education Establishments
Contact the organisation
MUNEDA GMBH
INSELKAMMERSTRASSE 5
82008 UNTERHACHING
Germany
See on map

**Activity type:** Other
Contact the organisation

EU-Beitrag: 
or

HQ-Dielectric GmbH
Dornstädter Weg 9/1
89160 Dornstadt
Germany
See on map

**Activity type:** Other
Contact the organisation

Gold Standard Simulations Ltd
Mitchell Street 90 Gordon Chambers
G1 3NQ Glasgow
United Kingdom
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

GLOBAL TCAD SOLUTIONS GMBH
BOSENDORFERSTRASSE 1/12
1010 WIEN
Austria
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

LAM RESEARCH SAS
31 CHEMIN DU VIEUX CHENE
38240 MEYLAN
France
See on map

**Activity type:** Other
Contact the organisation

EU-Beitrag: EUR 98
628,20

EU-Beitrag: EUR 113
442,42

EU-Beitrag: EUR 98
820,15

EU-Beitrag: EUR 99
009,95

EU-Beitrag: EUR 37
816,80

EU-Beitrag: EUR 98
820,15

EU-Beitrag: EUR 99
009,95

EU-Beitrag: EUR 37
816,80
EU Beitrag: EUR 0

PIONEER CRAWLEY BUSINESS QUARTER FLEMING WAY
RH10 9QL CRAWLEY
United Kingdom
See on map

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

ISD LYSEIS OLOKRIROMENON SYSTIMATONANONYMOS ETAIREIA
KIFISSIAS AVENUE 32 KTIPIO B ATRINA CENTER
15125 MAROUSSI
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Activity type: Other
Contact the organisation

SYNOPSYS (NORTHERN EUROPE) LIMITED
BROOK DRIVE 100 GREEN PARK
RG2 6UJ READING BERKSHIRE
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Activity type: Other
Contact the organisation

Zuletzt geändert am 2017-08-23
Abgerufen am 2019-07-05

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