



## Europe invests 50 million € in Secure and Safe Automated Systems

69 partners working together to develop future technologies focused on security, safety and privacy across multiple application domains

SECREDAS stands for "Product Security for Cross Domain Reliable Dependable Automated Systems. SECREDAS consortium - 69 partners from 16 European countries - has kicked-off the 50 MEuro ECSEL Joint Undertaking<sup>1</sup> research and innovation project, to build a reference architecture for Secure and Safe Automated systems compliant with the new GDPR Regulation. The focus will be on automotive, rail and personal healthcare, all of which demand high security and safety, covering technologies such as radar, lidar, Vehicle-to-Infrastructure and in-vehicle networks.

The project started on on May 1<sup>st</sup>, 2018 and the kick-off meeting took place on May 16-17 at NXP Semiconductors, coordinator of the project, and it will last for 3 years. First results are expected to be demonstrated at the ITS European Congress on June 3-6, 2019 in Helmond/Eindhoven, The Netherlands (see <https://2019.itsineurope.com/>).

Bert De Colvenaer, Executive Director of the ECSEL JU : "SECREDAS is one of the first ECSEL JU funded projects which looks at security, safety and privacy across multiple application domains. The new European GDPR-regulation provides the opportunity to develop future technologies able to answer to urgent safety, security and privacy concerns. The ECSEL JU programme demonstrates once again its flexibility to take up new challenges".

Patrick Pype, SECREDAS Project Leader : "We are proud to have gathered together the key European stakeholders with expertise in their respective application domains as well as in the security & privacy area. This will allow to make a giant leap forward in the trust of road users in autonomous transport modes and healthcare. The consortium expects that 25% of all new road vehicles will be fitted with SECREDAS technology by 2030, representing a value of 10B€".

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<sup>1</sup> ECSEL Joint Undertaking (JU) is a EU-driven, public-private partnership, funding innovation in electronic components and systems. ECSEL JU funds Research, Development and Innovation projects for world-class expertise in these key enabling technologies, essential for Europe's competitive leadership in the era of the digital economy. Through the ECSEL JU, the European industry, SMEs and Research and Technology Organisations are supported and co-financed by 30 ECSEL Participating States and the European Union. ECSEL JU launches annual Calls for Proposals for research, development and innovation projects. More information on : <https://www.ecsel.eu/>

The intertwining of safety, security & privacy of connected and automated systems is a concern in multiple application domains for many consumers in the European Union. As an example, one in four potential buyers/users in Europe of automated driving is reluctant to do so, mainly due to a lack of trust into its security. Hence industry and research communities need to work on an answer to ensure that these concerns are no longer roadblocks for further evolutions in the transport and personal healthcare sectors.

The high-level goal of SECREDAS is to develop and validate multi-domain architecting methodologies, reference architectures, components and suitable integration and verification approaches for automated systems, as well as taking into account and influencing standardization, certification and qualification in different domains, combining high security and privacy protection while preserving functional-safety and operational performance. With SECREDAS a first important step will be made into the direction of developing "trust"-building components and (sub)systems for, in particular, the European transportation and medical industry of tomorrow.

The vision of SECREDAS is to take an important step forward by providing the means to enhance this trustworthiness. This will assist in making connected and automated vehicles a market reality, to ensure that European OEMs remain competitive and that they remain world leaders, together with embedded system and semiconductor suppliers. In addition, SECREDAS addresses cross-domain cybersecurity, privacy and safety related technologies in the areas of automated systems in the personal healthcare & railway sectors, with strong support to cross-domain actions.



*Picture of the SECREDAS Kick-off Meeting at NXP Semiconductors, Munich, Germany*

**For more information, please contact :**

**CISC Semiconductor GmbH :**

Dr. Ralph Weissnegger, Project Manager R&D

[r.weissnegger@cisc.at](mailto:r.weissnegger@cisc.at)

**ECSEL JU :**

Alun Foster, Head of Plans and Dissemination of the ECSEL JU (Communication related queries)

[Alun.foster@ecsel.europa.eu](mailto:Alun.foster@ecsel.europa.eu)

Yves Gigase, Head of Programmes of the ECSEL JU (Technology related queries)

[Yves.gigase@ecsel.europa.eu](mailto:Yves.gigase@ecsel.europa.eu)

**Partners in the SECREDAS Consortium :**

**Project Leader :** NXP Semiconductors, NL

**Austria :**

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| Virtual Vehicle                           |
| AVL List Austria                          |
| CISC Semiconductor GmbH                   |
| AIT Austrian Institute of Technology GmbH |
| Thales Austria                            |
| SECINTO                                   |

**Belgium :**

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| Interuniversitair Micro-Electronica Centrum vzw |
| Transport & Mobility Leuven                     |

**Czech Republic :**

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| Vysoke uceni technicke v Brne                |
| Institut Mikroelektronických Aplikací s.r.o. |

**Finland :**

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| University Oulu                 |
| Nokia Solutions and Networks Oy |
| Solita                          |
| Haltian                         |

**France :**

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| Commissariat à l'Énergie Atomique et aux Energies Alternatives |
| Gemalto SA   |
| ISSM - INVIA Semiconductor Security Meyreuil                   |
| Oberthur Technologies - Morpho                                 |
| Internet of Trust  |
| Prove & Run  |
| YoGoKo   |
| iN2Car   |
| PSA ID   |
| IFSTTAR  |
| Canon Research Centre France                                   |

**Germany :**

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| NXP Semiconductors Germany GmbH        |
| AVL Software and Functions GmbH        |
| Roche PVT GmbH                         |
| senetics healthcare group              |
| CommSolid                              |
| Fraunhofer IESE                        |
| Giesecke+Devrient Mobile Security GmbH |
| ZF Friedrichshafen AG                  |
| Technische Universität Kaiserslautern  |
| Merantix                               |

**Hungary :**

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| Commsignia KFT                                 |
| Budapesti Muszaki es Gazdasagtudomanyi Egyetem |

**Italy :**

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| Ideas & Motion s.r.l.                            |
| Magneti Marelli S.p.A.                           |
| UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA |
| EVIDENCE s.r.l.                                  |

**Netherlands :**

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| NXP Semiconductors Netherlands BV                             |
| Fastree3D BV  |
| Gemeente Helmond  |
| Philips   |
| Ubiqu   |
| IMEC Holst  |
| Stichting Katholieke Universiteit                             |
| Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk |
| Technische Universiteit Eindhoven                             |

**Poland :**

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| Politechnika Gdańska |
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**Portugal :**

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| Instituto de Telecomunicações                             |
| PDM e FC - Projecto Desenvolvimento Manutencao Formacao e |
| BeyondVision  |
| IP  |
| IPTelecom   |

**Romania :**

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| Universitatea Politehnica din Bucuresti |
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**Spain :**

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| Agencia Estatal Consejo Superior de Investigaciones Científicas |
| FICOSA ADAS S.L.U.  |
| Advanced Automotive Antennas S.L.                               |
| Indra   |
| Tecnologías, Servicios Telemáticos y Sistemas, S.A.             |

**Sweden :**

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| RISE Research Institutes of Sweden             |
| RISE SICS AB                                   |
| China Euro Vehicle Technology AB               |
| Technology Nexus Secured Business Solutions AB |

**Tunis :**

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| ENIT/SYSCOM     |
| SUPCOM/InnovCom |

**UK :**

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| NXP Semiconductors |
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