Safer Autonomous Systems

European Training Network for Safer Autonomous Systems

The main objective of the **Safer Autonomous Systems (SAS) project** is to identify ways that we can establish people's trust in autonomous systems by making these systems demonstrably safer.
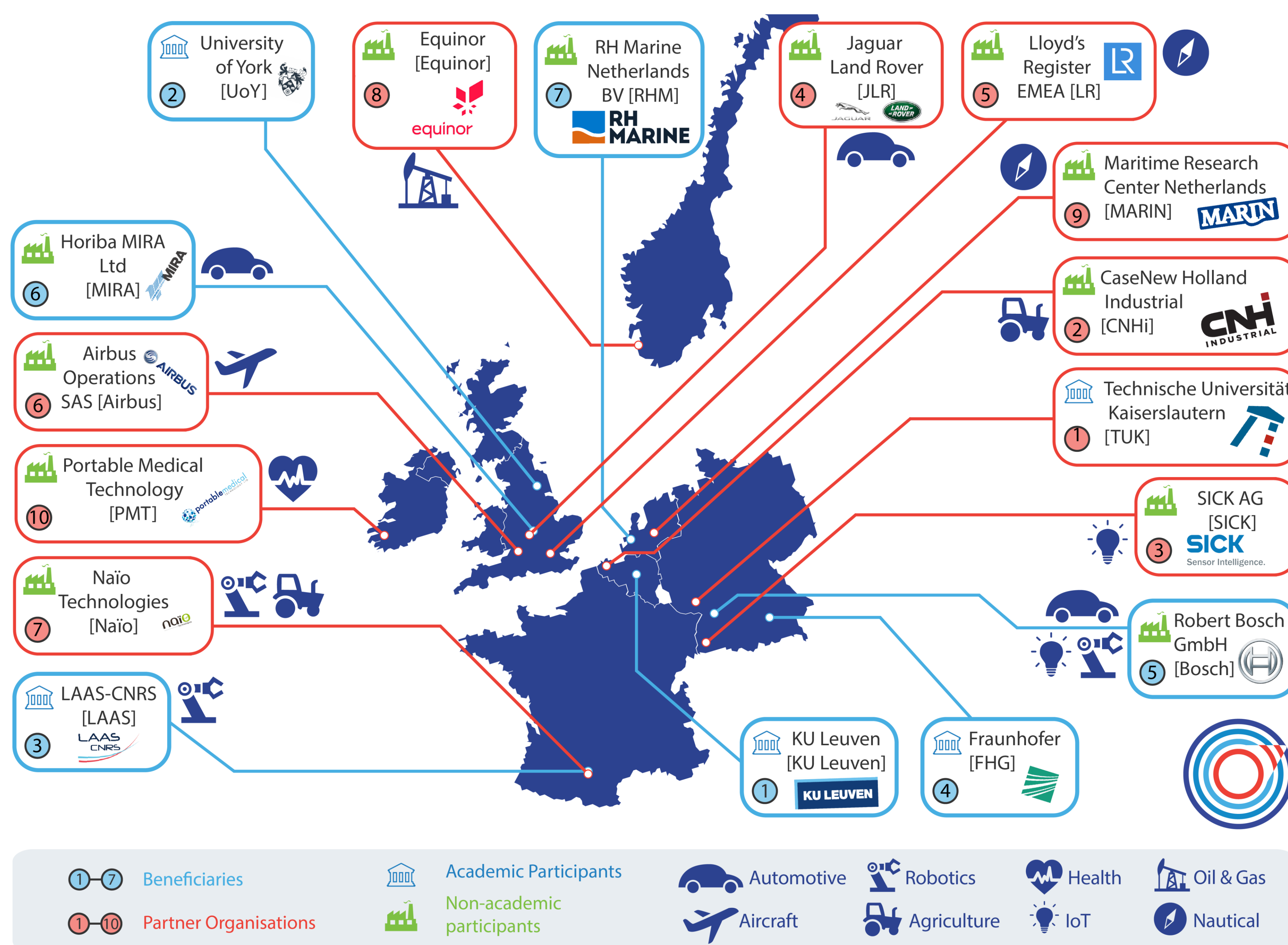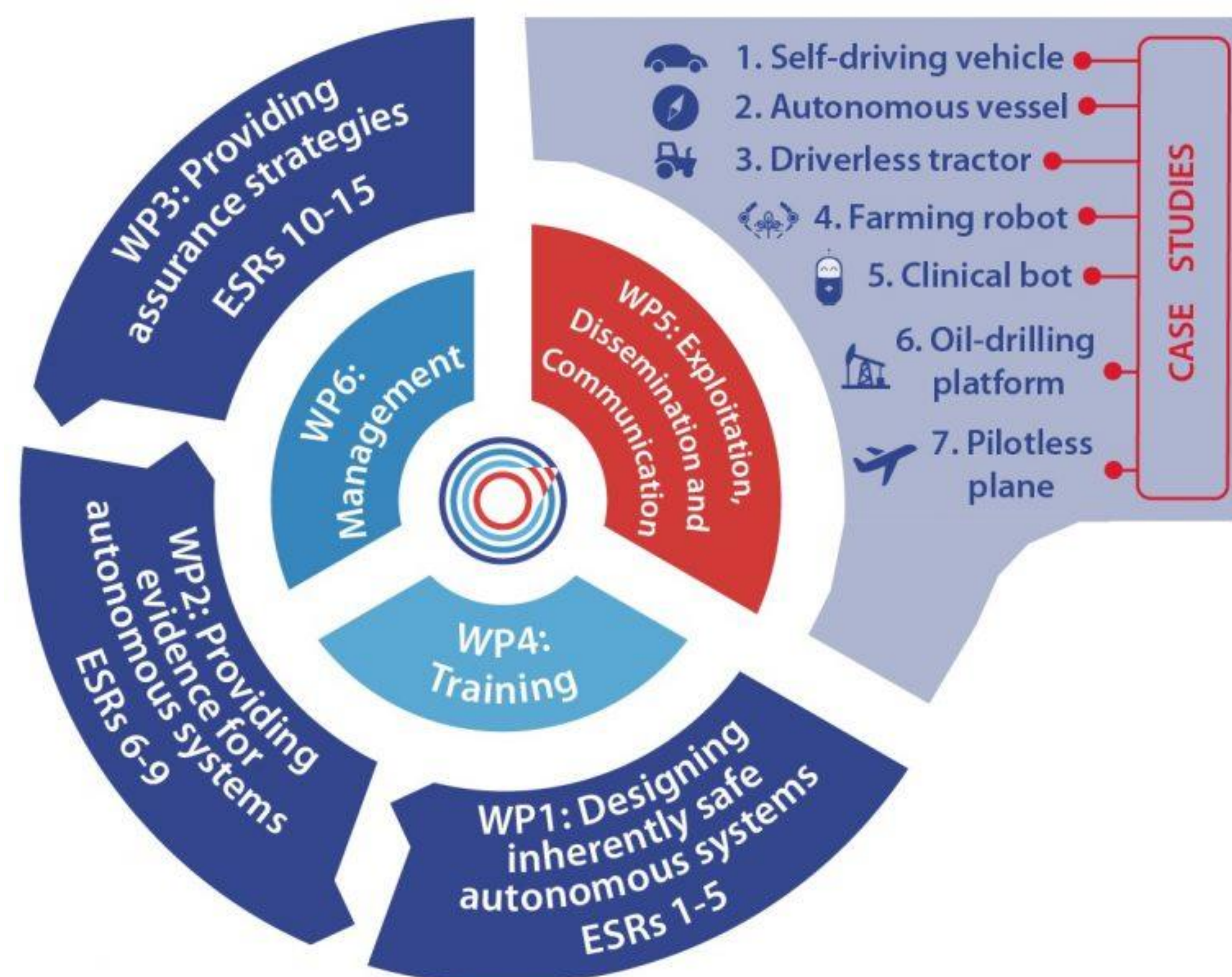
The destination that all autonomous systems need to be made safe enough is clear. The route towards that, however, is a difficult one. The **SAS ETN Project** is designed to get us to our destination, safely.

ETN SAS consists of 15 early-stage researchers (ESR) who are doing research based on 3 Scientific/Technical **Work Packages**:

WP1: **SAS designs inherently safe autonomous systems** in such a way that they remain acceptably safe under all conditions, even in the case of component failures.

WP2: **SAS provides evidence for autonomous systems** to guarantee the rigor of virtual model-based testing of autonomous systems and to optimize its overall coverage.

WP3: **SAS provides assurance strategies** that allow us to have trust in autonomous systems, which are very likely to be learning and evolving .

WP3: Providing assurance strategies ESRs 10-15
WP6: Management
WP5: Exploitation, Dissemination and Communication
WP2: Providing evidence for autonomous systems ESRs 6-9
WP4: Training
WP1: Designing inherently safe autonomous systems ESRs 1-5

CASE STUDIES
1. Self-driving vehicle
2. Autonomous vessel
3. Driverless tractor
4. Farming robot
5. Clinical bot
6. Oil-drilling platform
7. Pilotless plane

University of York [UoY] (2)
Equinor [Equinor] (8)
RH Marine Netherlands BV [RHM] (7)
Jaguar Land Rover [JLR] (4)
Lloyd's Register EMEA [LR] (5)
Maritime Research Center Netherlands [MARIN] (9)
Horiba MIRA Ltd [MIRA] (6)
CaseNew Holland Industrial [CNHi] (2)
Airbus Operations SAS [Airbus] (6)
Technische Universität Kaiserslautern [TUK] (1)
Portable Medical Technology [PMT] (10)
SICK AG [SICK] (3)
Naïo Technologies [Naïo] (7)
Robert Bosch GmbH [Bosch] (5)
LAAS-CNRS [LAAS] (3)
KU Leuven [KU Leuven] (1)
Fraunhofer [FHG] (4)

(1)—(7) Beneficiaries
(1)—(10) Partner Organisations
Academic Participants
Non-academic participants
Automotive
Aircraft
Robotics
Agriculture
Health
IoT
Oil & Gas
Nautical

SAS Consortium

7 Beneficiaries: 3 high-technology companies, 2 non-university research institutes, and 2 universities.

10 Partner Organisations: 9 companies and 1 university.

This gives SAS some of the best and most relevant of European Industry and the key academic players, guaranteeing not only an exciting interdiscplinary, intersectoral research-and-training programme, but also a head-start for bringing about trust in autonomous systems.

The infographic highlights the EU-wide character of the SAS Project.

Consortium Members

KU LEUVEN · Fraunhofer IKS · RH MARINE · MIRA · CNH INDUSTRIAL · JAGUAR · LAND ROVER · AIRBUS · equinor · portablemedical

LAAS CNRS · University of York · BOSCH Invented for life · TECHNISCHE UNIVERSITÄT KAISERSLAUTERN · SICK Sensor Intelligence · Lloyd's Register · naïo Technologies · MARIN

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