

ReACTIVE Too

MSCA-RISE-2019 - Research and Innovation Staff Exchange
Reliable Electronics for Tomorrow's Active Systems

Aims of ReACTIVE Too Project

The overall aim of ReACTIVE Too is to bring together an international team of researchers to establish a research network, with a wide variety of skills in electronics interconnections, design of electronic based systems, smart textiles, energy harvesting, automotive active safety, IoT and Sensors, ambient assisted living technologies, AI and data mining, and reliability engineering to develop novel tools for agile design, testing, analysing and improving the reliability of new devices in various demanding applications and environments, such as in automotive user experience and safety applications and ambient assisted living. The innovative tools will help manufacturers identify and mitigate failure risks during the design stage; and consequently help to optimise reliability in all applications, moreover realise substantial design time efficiencies and cost savings.

The Project in a Nutshell

ReACTIVE Too is a research-focused project that brings together a unique team of academic and industrial members. This team will form a tight confederation to tackle challenging aspects of Reliability and future developments in electronic systems. European organisations from Finland, France, Poland and the UK are involved. Each partner country will supply both industrial and academic units. ReACTIVE will do research into design for reliability for electronics-based systems. This includes the introduction of an agile hardware development cycle with virtual techniques to uniquely address reliability and physical validation in Active safety systems. Exemplar systems from partner companies in Automotive and Healthcare will be used to validate the ideas. The proposed research will benefit from the project team's particular expertise in active safety systems (APTIV, LJMU, SUT), electronics interconnections and assembly (UoW, LJMU), flexible substrates (UBFC, TUT), energy harvesting technologies (UBFC, CTEC), sensors and sensing materials (SUT, UBFC, SCLL, APTIV), smart textiles (TUT, SAMK), and active assisted living technology (SAMK, UTC).

Project Partners Composition

ReACTIVE Too Consortium is composed of twelve Partner Organisations including 6 Universities: two from UK, two from Finland, one from France and one from Poland; and six Industrial Partners from UK, France, Poland, Finland and China.

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Project Duration:

1 February 2020 - 31 January 2024

Overall budget:

€ 791 200

EU contribution:

€ 777 400

Grant agreement ID:

871163

Project Consortium:

- ❖ University of Wolverhampton (UoW)
- ❖ Liverpool John Moores University (LJMU)
- ❖ Tampere University of Technology (TUT)
- ❖ Satakunta University of Applied Sciences (SAMK)
- ❖ Sensor City Liverpool Ltd (SCLL)
- ❖ University of Burgundy - Franche-Comté (UBFC)
- ❖ APTIV Services Poland SPOLKA AKCYJNA
- ❖ Silesian University of Technology (SUT)
- ❖ CEDRAT TECHNOLOGIES SA
- ❖ ANNEALSYS SAS
- ❖ Oy Jurva Network Ltd (JUNET)
- ❖ Jiangsu Happy Time Senior Service Co., Ltd (JHTSS)



EU CORDIS:

<https://cordis.europa.eu>

ReACTIVE Too EU CORDIS Link:

<https://cordis.europa.eu/project/id/871163>



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