

Turku University of Applied Sciences

# **Vessedia - Verification Engineering of Safety and Security Critical Industrial Applications**

## **Project duration**

1.1.2017 - 31.12.2019

## **Operating sphere**

International

## **Partners**

TECHNIKON FORSCHUNGS- UND PLANUNGSGESELLSCHAFT MBH (TEC), Austria

COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES(CEA), France

DASSAULT AVIATION (DA), France

SEARCH-LAB BIZTONSAGI ERTEKELO ELEMZO ES KUTATO

LABORATORIUM KORLATOLT FELELOSSEGU TARSASAG (SLAB), Hungary

FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.(FOKUS), Germany

INSTITUT NATIONAL DE RECHERCHE ENINFORMATIQUE ET AUTOMATIQUE (INRIA), France

TURUN AMMATTIKORKEAKOULU OY (TUAS), Finland

KATHOLIEKE UNIVERSITEIT LEUVEN (KU Leuven), Belgium

FUNDACION DEUSTO (FD), Spain

AMOSSYS SAS (AMO), France

## **Source of funding**

Horizon2020

## **Total funding**

4,2 Me €

## **TUAS budget**

293 468 €

## **Project website**

<https://vessedia.eu/>

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# Vessedia - Verification Engineering of Safety and Security Critical Industrial Applications

VESSEDIA (Verification Engineering of Safety and Security Critical Industrial Applications) aims at enhancing safety and security of information and communication technology (ICT) and especially the Internet of Things (IoT). More precisely the aim of this project consists in making formal methods more accessible for application domains that want to improve the security and reliability of their software applications by means of Formal Methods.

VESSEDIA consortium will tackle this challenge for example by:

- developing a methodology that allows one to adopt and use source code analysis tools efficiently
- providing an enhanced toolbox (Frama-C) to enable easy and efficient use by developers
- demonstrating the new toolbox capabilities on typical IoT applications including an IoT Operating System (Contiki)
- developing a standardisation plan for generalising the use of the toolbox to a wider set of applications
- contributing to the Common Criteria certification process
- defining a label “Verified in Europe” for validating software products with European technologies

The VESSEDIA consortium brings together a team of recognized partners in the fields of industry and research in combination with innovation-oriented SMEs and a certification expert.

TUAS has a leading role in developing standardisation plan that is globally applicable. Part of the standardisation is also training and dissemination. TUAS is also analysing the economic rationale of the Vessedia outcomes.

[Vessedia Newsletter Feb2018](#)

[Vessedia standardisation in Turku in November 2017](#)



