



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731453."

VESSEDIA H2020 PROJECT:

Coordinator:

Technikon Forschungs- und Planungsgesellschaft mbH

coordination@vessedia.eu

General Project Information

- Project reference: **731453**
- Project start: **1st January 2017**
- Duration: **3 years**
- Total costs/EC contribution: **EUR 4.192.058,75**
- **10 partners** from **7** different **European countries**
- Mission: VESSEDIA proposes to enhance and scale up modern software analysis tools to enable using them on a wider range of applications than embedded safety-critical applications
- Website: www.vessedia.eu

Project Goal

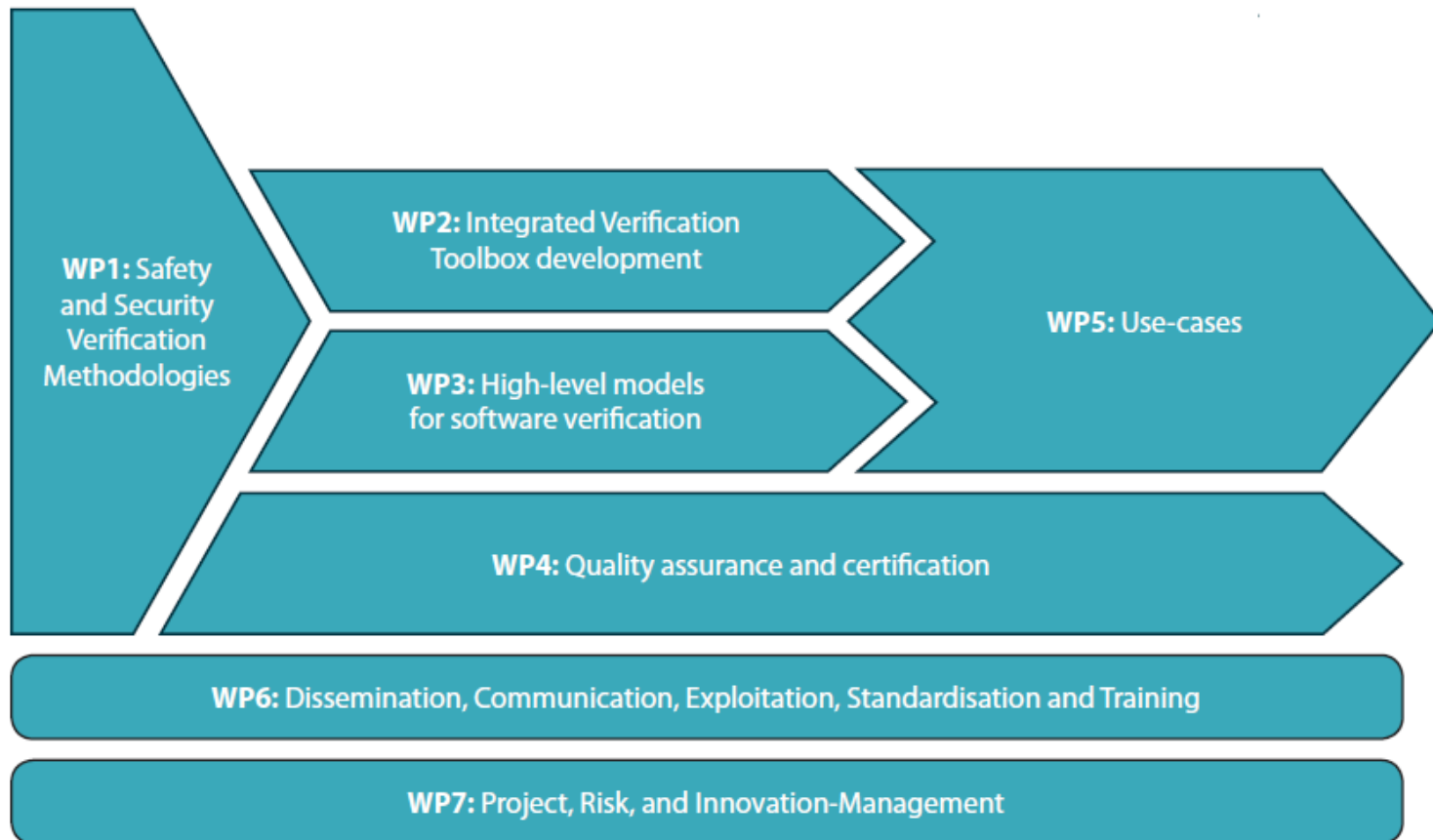
- Making **formal methods** more accessible for **application domains**
- Improve **security and reliability** of connected embedded software applications
- In order to attain a solution to these challenges the following objectives were set:
 - ◆ Drastically improving **security verification tools**
 - ◆ **Quantification** of the verification process
 - ◆ Building **collaborative** and **smart** user interfaces
 - ◆ Extending Formal Methods to **non-highly-critical domains**
 - ◆ Management of **verification data**
 - ◆ **High-level models** for verification
 - ◆ **Building strong links** with existing certification practices
 - ◆ ISO standardisation

The VESSEDIA Consortium

- 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. This makes it suitable to achieve the project's objectives. These 10 VESSEDIA partners are spread over 7 European countries and comprise basic research and service design with applied research and end-user oriented service.



WP Interaction



Impact

- The expected impacts of VESSEDIA are
 - ◆ a **drastic shift of perspective** related to the trustworthiness in current ICT security sensitive software protection for connected systems
 - ◆ mathematically-based software analysis procedures capable of **ensuring maximal security and safety** (by means of formal methods implemented by sound analyzers), coupled with **dynamic analysis tools** in order to mitigate their mutual limitations
 - ◆ **quantifiable measurements of the progress of the analyses of security properties of the code under analysis**
 - ◆ **bridging the gap between high level security requirements and models** of the entire system **and the source code-level verification activities** performed on each component

Contacts

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VESSEDIA Grant Agreement No. 731453

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