

# Project Financed from the NRDIFund

Call: "Funding to Micro and Small Enterprises for Innovation Activities"

Enterprise: IncQuery Labs Research and Development Ltd.

Project code: 2018-1.1.1-MKI-2018-00225

Project title: Development of InstaCoverage, the unit testing tool

Amount of awarded fund: 29 993 704 HUF

Total eligible project costs: 50 842 104 HUF

Start of the project: 1<sup>st</sup> December 2018

End of the project: 30<sup>th</sup> November 2020

InstaCoverage is a fast unit testing tool for the LabVIEW programming language. InstaCoverage is radically faster than other available tools. Unit testing is a widely used (often mandatory) quality-assurance technique in the development of safety-critical software applications. Beside traditional safety-critical industries such as automotive and avionics, the further expansion of such systems requires (for example, via continuously emerging cyber-critical/Internet of Things systems) well-founded software development. The LabVIEW programming language is the official software platform of National Instruments, an international big-player providing test automation and measurement hardware/software solutions with several 10 000 customers (and much more potential single users of InstaCoverage).

Thanks to its distinguishing features InstaCoverage aims to become a de facto standard on this market. The main novelty of InstaCoverage is that it measures test coverage, a common requirement of safety-critical standards, in a time-efficient manner. The ability of InstaCoverage to reduce the execution time of unit tests by up to 100 times compared to other state-of-the-art tools boils down to saving 10 000s of dollars in terms of development costs (e.g., through software developer salaries or faster time-to-market).

The aim of this project is to add new innovative features to InstaCoverage that (i) improve usability and (ii) enable stronger quality-assurance. The outcome of the project is a new generation of InstaCoverage, called Advanced InstaCoverage, a software product developed entirely in Hungary, which is powerful enough to assume an established position among international competitors. Advanced InstaCoverage will be developed in three sequential steps, where each step results in a new stand-alone and marketable product. The development tasks in this project include substantial technical innovation, which also adds to the know-how and IP of IncQuery Labs, a high-tech software company based in Budapest. In addition to its commercial potential, Advanced InstaCoverage is also very well applicable (combined with hardware and software products of National Instruments) for teaching purposes.



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coverage

