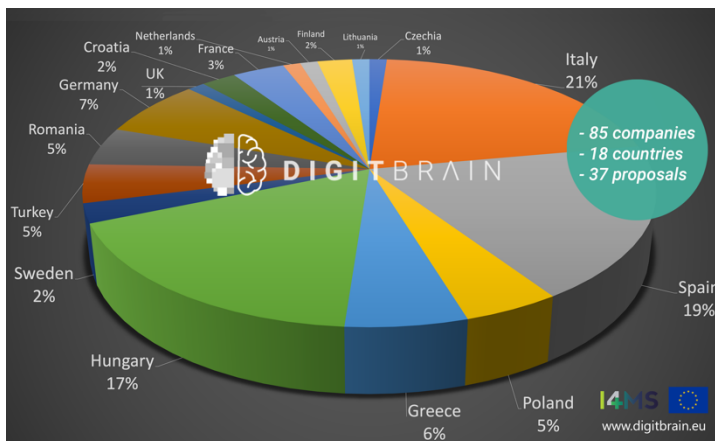




The results of the 2nd Open Call are in: DIGITbrain Project selected 7 new experiments to implement a digital twin

With 37 proposals received, DIGITbrain Project's second Open Call for application experiments turned out to be an even bigger success than the first one in 2021. More than 80 organisations from 18 countries applied until closing date on 31st May 2022. Another seven experiments have now been selected to receive about 98K Euros on average for the implementation of a digital twin for manufacturing.



In its final period, DIGITbrain project will welcome another seven experiments that will be receiving funding for the implementation of a use case related digital twin. 85 organisations from 18 countries, of which seven have been led by women, teamed up in 37 proposals that were submitted in the second open call by DIGITbrain. In detail, 74 SMEs, eight mid-caps and three external DIHs have been involved in

the consortia applying for participation in the project.

The seven teams that will now take up work on their experiment for the upcoming twelve months, unite 12 SMEs and three mid-caps from Hungary, Turkey, Germany, Finland, Italy, Spain, and Croatia. The winning proposals that had been selected out of 35 proposals that were considered eligible by the evaluators, cover a wide range of the manufacturing sector. The Experiments will develop a digital twin for the following areas:

- 1. Fine-tuning of the beer mashing production process:** The Experiment aims to a predictive tool for breweries to optimize the beer mashing process. The "BeerPredictor", will support setting and defining the correct mashing parameters, allowing small independent brewers to meet the specified carbohydrate composition of a particular beer style without intensive and costly manual tests.
- 2. Anomaly Detection, Modeling and Adaptive Control of Textile Dyeing Temperature Control Phases:** The Project aims to optimise the temperature control of textile dyeing





- machines with a digital twin based approach. Temperature is crucial for quality of desired color and decreasing color repairs which results in savings in steam, energy, water, chemical and dye usage.
3. **AI Controlled Parquet Quality control:** The experiment uses machine learning with Edge computing and NIR cameras to eliminate quality issues on an automated parquet wood flooring production line in real-time.
 4. **Digital twin simulation of the shoe insole manufacturing process:** The experiment will create a digital twin of the process of thermo-moulding within the manufacturing of shoe insoles.
 5. **Digital Twin and Predictive Quality Solution for Insulated Glass Machine:** The project aims to create a Predictive Quality tool with Digital Twin functions for Insulated Glass Machines.
 6. **Digital Twin for cold metal sheet transformation process:** The experiment seeks to develop an experimental Data Driven Digital Twin to "a priori" find improved Printing parameters and feed forward control strategies.
 7. **Digital Twin For Continuous Fiber Additive Manufacturing:** A digital twin for the AFP process will be developed by advancing offline programming software. The solution will capture, and process data to identify defects in real-time alerting the operator to take the corrective action.

A total of 652.655 Euros funding is available for the experiments of the 3rd wave, which makes 98K Euros on average for each of them. The exact funding amount depends of course on the respective funding needs. Thus, the entire budget of 3,6 Mio Euros, allocated for the applicants was requested. As a final result of the DIGITbrain Project the experiments will be integrated into a Digital Marketplace (Digital Agora), which is currently being developed.

The evaluation period had taken place from mid-June to mid-July. To cope with the high number of applications, a call for independent experts was launched in April 2022. In the course of promoting equal opportunities being a strategic goal of the European Commission, Innovation Actions are compelled to take measures to promote equal opportunities between men and women. Thus, the Call for independent experts took into account various selection criteria, with gender balance being one of them. This eventually resulted in 55% of independent experts being women (55%). Also, 18 women are participating in the execution teams of the third waves experiments.

Find more information online: www.DIGITbrain.eu/experiments

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952071