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DIGITbrain's 2nd wave about to start: seven new experiments have been selected for funding

The first DIGITbrain Open Call, launched on last 31st March, was a resounding success counting a total of 27 proposals received by DIGITbrain's Digital Innovation Hubs (DIHs) until closing date on 30th June. After two busy months of evaluation 19 new partners have been selected to trigger 7 new experiments, each starting to implement their individual Digital Twin at the end of September.

62 different organizations covering 11 Countries from all over Europe and beyond seized the opportunity to apply for up to 100K€ funding for the implementation of their own Digital Twin in DIGITbrain's first Open Call. After two months of detailed evaluation of project outlines, which was led by CTA and involved 16 Independent evaluators, seven new experiments have been selected uniting 19 new partners from Italy, Spain, Hungary and Turkey. Those new partners include 14 SMEs, 1 mid-cup, three research organisations and another DIH external to the current network of DIGITbrain Consortium.

The amounts awarded to the individual experiments start from 94,3 K euros and go up to the full funding amount of 100 K euros. All in all, the selected proposals' total budget accounted for around 930 K Euros.

Technically, experiments will range from leveraging the benefits of Digital Twins for the optimization of design and manufacturing processes of industrial products or production lines over smart solutions for additive manufacturing to Digital Twin-based predictive maintenance of entire factory lines.

In detail, submitted proposals deal with:

1. **Experiment 1: Digital Twin solutions to allow for agile changes (DITAC)** of the design of tailor-made industrial automation solutions, particularly in case of after-sales changes.
2. **Experiment 2: The optimisation of the energy consumption in a coil coating line (COATWIN)** by digitally replicating the existing production process which will allow for exploring different use cases, based on the selection of different parameters.
3. **Experiment 3: Digital Twin to support the design, production and operation phases of rotary dryers (DT4Dryer)** which are used across many industries.
4. **Experiment 4: Production Optimization for Additive Manufacturing of Medical Devices (ProMED)** by using a digital twin of production pipeline that will allow for the quick simulation of a large number of fabrication processes. Leveraging the rich set of data produced by the simulations will facilitate decisions for real productions.
5. **Experiment 5: Digital Brain for Predictive Maintenance in the Automotive Sector (DRIVEN)** that aims to monitor, analyse, simulate and optimize the entire operation of product movements between the parts warehouse, the packaging process in an automotive component factory in real-time and by doing so reaching the exclusion of common machine efficiency losses.



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6. **Experiment 6: Smart Digital Twin-based 3D Printing Process Reliability Assurance Add-on enhanced with Cloud-based iterative learning (3D_BRAIN).** An experimental Data Driven Digital Twin will be developed in order to permit process control, process stabilization and post process quality assessment in combination with a continuous learning tool.
7. **Experiment 7: Digital Twin to optimize design of cars' braking system assembly line (DIGITBREAK).** By developing a Simulation-based Digital Twin of a pilot line assembling small calipers and pistons for automotive braking system to be integrated into DIGITbrain, the experiment will help producers of manufacturing assembly lines to master increasing challenges, such as to optimize design and engineering to meet evolving market needs, while ensuring efficiency and productivity challenges.

The contracting process with all 19 organisations will be completed at the end of September 2021. After that, selected beneficiaries will take up work on their experiments for the following 12 months, being able to count on DIHs' and Technical Core Partners' support with regard to technical and business aspects along experiment fully-fledged design, smooth implementation and exploitation.

But also the second Open Call is not that far away! DIGITbrain will indeed launch a second Open Call for experiments, again targeting manufacturing companies (end-users, bringing the industry specific problem), technology providers, research organisations and/or Digital Innovation Hubs who will be selected to work on the implementation of an individual use case-based Digital Twin in the manufacturing sector at large.

Interested?

Stay tuned to discover the outcomes of Wave2 experiments' kick-off and do not miss the upcoming initiatives that will guide you towards your experiment proposal under our second Open Call!

Find more information online: www.digitbrain.eu/open-calls

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