Fostering DIHs for Embedding Interoperability in Cyber-Physical Systems of European SMEs

Open Call 2 Announcement

Grant Agreement:
872548

Call for Proposals: Digital Innovation Hubs (DIHs) focused on enhancing capabilities of all European Start-ups, SMEs and Mid-Caps to launch innovative products or services with advanced digital technologies in the field of Cyber-Physical and Embedded Systems (CPES)

Started in January 2020, the initiative for Fostering DIHs for Embedding Interoperability in Cyber-Physical Systems of European SMEs (DIH4CPS, www.dih4cps.eu) will help European enterprises overcome innovation hurdles and establish Europe as a world leading innovator of the Fourth Industrial Revolution. DIH4CPS will create an embracing, interdisciplinary network of DIHs and solution providers, focused on Cyber-Physical and Embedded Systems. The network already encompasses 25 DIHs, in addition to 11 initial and 12 additional Application Experiments, and is looking to expand further. With interweaving knowledge and technologies from a variety of domains, the network will connect regional clusters with the pan-European expert pool of DIHs.

The DIH4CPS approach includes another round of funding, Open Call 2, that will create an opportunity to absorb additional external DIHs into the active DIH4CPS network. This final Open Call is looking forward to adding 8 DIHs in the field of Cyber-Physical and Embedded Systems (CPES). By providing each DIH with an opportunity to offer their services and capabilities throughout the ecosystem and acquire more visibility, Open Call 2 will help further consolidate the DIH4CPS network.

A successful proposal should demonstrate convincingly that the respective DIH applicant has the potential to provide the network with new capacities. This might include technical or sectoral additions to the ecosystem as well as the ability to expand the DIH4CPS network into new geographies. New DIHs will reinforce and build on the work of the existing consortium as well as providing novel capacities and dissemination actions. Moreover, geographical regions which are currently under-represented in the consortium will be prioritized.

DIHs should provide proof of their capacity to enhance capabilities of all European Start-ups, SMEs and Mid-Caps to launch innovative products or services with advanced digital technologies in the field of Cyber-Physical and Embedded Systems (CPES). They should have technical capacities in one of the following technological topics (but not limited to):

1. **Digital twins**. This concept refers to a replica of physical assets, processes, devices or systems which allow real-time optimization. Examples of applications of this technology can be found within various sectors, such as healthcare or manufacturing.

2. **Augmented reality.** This topic refers to the technology behind the interactive experience of a real-world environment enhanced by computer-generated perceptual information. Common sectors for this technology include healthcare, entertainment, tourism and architecture.

3. **Artificial Intelligence**. Human decision-making and control over physical systems could, in various applications, be replaced with mechanisms related to artificial intelligence. Customized artificial intelligence developments are also used for Big Data Analytics. Algorithms based on artificial intelligence have a broad spectrum of applicability including proactive maintenance, logistics and agriculture.

4. **Dashboard controls.** Some industrial control systems and medical monitoring systems require surveillance and inputs from human operators. Providing the human operator with valid graphic information is key to the successful control over physical systems and processes.

Call details

Project Acronym: DIH4CPS

Project grant agreement number: 872548

Project full name: Fostering DIHs for Embedding Interoperability in Cyber-Physical Systems of European SMEs

Call Identifier: DIH4CPS OC2

Call title: Open Call for experiments aimed at fostering DIHs for Embedding Interoperability in Cyber-Physical Systems of European SMEs

Total funding: 160 000 EUR

Deadline: 13th of December 2021, at 17:00 Brussels local time

Expected duration of participation: 8 Months, with expected start January 28th, 2022

Maximum amount of financial support per proposal: 20 000 EUR

Language in which proposal should be submitted: English

Web link for further information: www.dih4cps/open-calls/

Email address for further information: calls@dih4cps.eu

Project Partners