SmartAnythingEverywhere

Horizon 2020 Programme

FED4SAE

Accelerating European CPS Solutions to Market

Federated CPS Digital Innovation Hubs for the Smart Anything Everywhere Initiative

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Third open call for Application Experiments – Up to €58K funding, technical and business coaching available to support European companies to develop smart applications.

Through the Smart Anything Everywhere initiative, the European Commission is helping digitize European industry. FED4SAE is part of this strategy, targeting a large network of 'small' companies (startups, small/medium enterprises and midcaps), including both technology specialists and low-tech companies.

We are looking for companies that want to:

- Develop novel and innovative smart solutions to take a leading position in their target markets.
- Use the most advanced technologies and industrialized solutions to link the physical world with the virtual world in combining hardware and software expertise.
- Gain premium access to resources, competencies and reduce development time.
- Enter into a unique European ecosystem gathering leading industrial companies, world-class research organizations, innovation accelerators and private investors.

To do this, FED4SAE offers companies:

- Product support via industrial platforms - existing products provided by market leaders (AVL, Intel, ST and Thales) - in the domain of cyber-physical and embedded systems that can bring the innovation to a state of maturity.
- Technical expertise via advanced platforms by RTOs (BME, CSEM, Digital Catapult, Fraunhofer IISB, fortiss, KTH, Unican) - either innovative technical solutions or testbeds - which will add value to the product.
- Innovation management - focusing on business - to help your innovation get to the market via the FED4SAE and the Smart Anything Everywhere ecosystem.
- Up to €58,000 in funding - representing 70% of the declared budget in your proposal.

FED4SAE welcomes proposals addressing one of our focus areas (described below) or any other smart application domain (mobility, city, health & well-being, industry, agriculture, food, etc.). They shall be pan-European, allowing awarded companies to collaborate cross-border with the providers of our industrial and advanced platforms. FED4SAE is already supporting 16 projects with SMEs coming from all over Europe and is looking forward to granting 15 additional experiments.

If you have a promising idea for an innovative solution, we will help you get it to market **– do not miss this opportunity and apply to our open call to develop your innovative solution**! Register in our portal and contact one of our networking partners now who will be pleased to help you in submitting your proposal and finding the right industrial platforms, advanced technologies or testbeds that best suit your needs!

Important guidance on our process, rules and the offered technologies and platforms can be found on our website www.fed4sae.eu and in our Guide for Applicants.

Call deadline: March 5th 2019, 5pm (Brussels Time)
Call acceptance: April 25th 2019
Call identifier: FED4SAE03 call
Proposal language: English
Web page (full call text/proposal guidelines/standard agreement): www.fed4sae.eu
For further information please contact: info@fed4sae.eu

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Through our open calls, FED4SAE provides a unique marketplace organized as a one-stop-shop with access to leading edge industrial platforms along with access to several advanced technologies and testbeds as well as support through expertise, know-how, coaching, design support and tech transfer from our partners.

FED4SAE welcomes proposals addressing any smart application domain (mobility, city, health & well-being, industry, agriculture, food, etc.) involving both advanced and industrial platforms. Additionally, in the 3rd open call FED4SAE is introducing **three dedicated focus areas** to encourage the development of CPS and embedded systems solution in fields presenting growth opportunities in Europe and to support highly innovative experimentation:

- *Artificial Intelligence and Software-Oriented projects*
- *Smart Cities and Smart Infrastructure projects*
- *Smart Sensor projects*

In order to cover the envisaged range of topics in the supported Application Experiments, an accompanying indicative percentage of selected experiments per focus area is given below. The FED4SAE consortium keeps the right to modify the final distribution, so that priority will be given to the best proposals in the areas of CPS and embedded systems in the targeted focus areas and domains.

FED4SAE offers several different leading edge industrial platforms:

- *TIME4SYS* from Thales
- *Integrated and Open Development Platform* from AVL
- *WeSu platform* and *ODE-STM32 Nucleo Expansion Boards* from STMicroelectronics Italy
- *Neural Compute Stick* from Intel – Computer Vision at the edge.
- *Compute Card from Intel* – a credit card sized computer.
- *STM32F platform* from STMicroelectronics France

Application Experiments can run from 9 to **12 months**, but in any case have to be completed by 31.08.2020. The expected outcome of our Application Experiments is a demonstrator prototype with high technology readiness level (TRL). The prototype may also be used as a first generation product.

Interested European startups, SMEs and mid-Caps are encouraged to review details of our platforms, technologies and testbeds on www.FED4SAE.eu and contact our project members to find out more:

- CEA Leti (France)
- Intel Research and Development Ireland (Ireland)
- STMicroelectronics SRL (Italy)
- STMicroelectronics Grenoble (France)
- Thales SA (France)
- AVL List GmbH (Austria)
- Digital Catapult (UK)
- Fraunhofer-Gesellschaft (Germany)
- fortiss (Germany)
- CSEM (Switzerland)
- KTH Royal Institute of Technology (Sweden)
- Budapest University of Technology and Economics (BME) (Hungary)
- University of Cantabria (UNICAN) (Spain)
- Blumorpho SAS (France)

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Focus Area:	Artificial Intelligence and Software-Oriented projects
Indicative percentage of selected Experiments:	40 – 50 %

FED4SAE's Artificial Intelligence and Software oriented projects are can rely on the industrial platforms

- *Integrated and Open Development Platform* (IODP) by AVL
- *TIME4SYS* by Thales

in conjunction with extensive coaching for these platforms.

Alternatively, they can use any of our industrial platforms (including TIME4SYS and IODP) in combination with the advanced technologies

- *Neural Network Dependability Kit* or *Eclipse 4Diac* by fortiss
- *AIDE* by KTH

Focus Area:	Smart Cities and Smart Infrastructure projects
Indicative percentage of selected Experiments:	30 – 40 %

FED4SAE's Smart Cities and Infrastructure projects are relying on a combination of one of our industrial platforms with the testbeds

- *Low Power Wide Area Network based CPS solutions Testbed* (*Lorawan LPWAN*) by DigiCat
- *CPS Massive urban infrastructure in technology and service assessment testbed* (*Smart City*) by Unican
- *Research Concept Vehicle* - An Open Platform for Sustainable Transportation R&D (RCV) by KTH
- *Smart Home, Health and Transportation* Testbed (PTL) by CEA

Focus Area:	Smart Sensor projects
Indicative percentage of selected Experiments:	20 – 30 %

FED4SAE's Smart Sensor projects are relying on a combination of one of our industrial platforms with the advanced technologies or testbeds

- *Gas Sensor Testbed*, *Corrosive Gases Testbed*, *Energy Electronics Testbed*, *π-Fab infrastructure* from Fraunhofer IISB
- *Reliability Testbed* by BME
- *Sensinact Middleware*, *Sigma Fusion* or *LINC* Middleware by CEA.
- *Localization Solver, Vision in a Package, WiseNET, WiseDEP and WiseMAC, Advanced nanotechnology for chemical sensing, Advanced manufacturing/ packaging* by CSEM

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