

EuroCPS helps over 30 SMEs build new cyber physical products for the IoT market

Fourteen EuroCPS members from nine countries assembled networks for one-stop-shop services which facilitated product development and created jobs for European companies

GRENOBLE, France – July 4, 2018 – EuroCPS has supported over 30 European companies to create innovative cyber-physical products for emerging Internet of Things (IoT) markets, while increasing their turnover and growing their teams. Coordinated by CEA Leti and funded by the European Commission, this three-year, €9.2 million project helped innovators (at small/medium enterprises, or SMEs, and large companies) overcome the barriers they face when entering new markets.

“European companies wishing to enter IoT markets often lack knowledge about the value chain and the skills to master the entire design process from ideas to products,” explains EuroCPS Coordinator Isabelle Dor (CEA Leti). “In response, EuroCPS set up a one-stop shop, providing an easy way to access technical expertise, business coaching and advanced cyber-physical platforms. To help lessen the risks involved launching a new product, EuroCPS also provided seed funding of up to €150,000 per SME.”

By facilitating access to the latest technologies, along with the combined expertise of a cluster of research technology organizations and universities, EuroCPS has allowed companies to speed up product development and accelerate market entry, creating jobs and driving new business along the way.

The project linked the software, system and nanoelectronic industries along the full cyber-physical system (CPS) value chain to demonstrate a new cooperation model. This was demonstrated by 34 novel industrial experiments funded through three open calls to develop innovative CPS products.

Among the success stories benefiting from this ecosystem of smart technologies are the following:



CARDIO from Spark Works, which combines edge analytics and a wearable device for patient-centered healthcare. Based on Intel platforms, **CARDIO** provides on-the-spot, reliable and accurate heart monitoring. Spark Works expects to increase its staff to 40 people and its turnover to €2.5 M with the wearable ECG system, developed in the framework of EuroCPS.



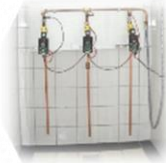
CNODE from EncoreLab, which uses IoT technology to make farming more sustainable with fewer pesticides. Based on the STM32 platform from STMicroelectronics, the sensing node should allow pesticide use to be reduced by up to 35% while using up to 50% less water. Substantial growth in terms of staff and turnover is expected in the coming years.



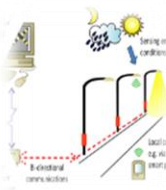
SelfCommNet from WP2P, providing smart phone functionality in harsh environments, aimed at the walkie-talkie market. Sales are expected to double in 2018 from 1.7M SEK in 2017.



IMICRASAR from Hipperos: a high-performance, multicore mixed-criticality platform for aerospace, robotics and autonomous systems. Based on the Thales Freescale PowerPC multicore board, this results were incorporated into Hipperos' technology offerings, with use cases including image processing, navigation, collision avoidance and medical devices. IMICRASAR resulted in a 30% increase in staff for the company and a two-digit growth in turnover for the period 2016-2017



SmartFlush from Van Mierlo, a smart, low-cost electronics system based on an Intel platform which optimizes pipe flushing in shower facilities, reducing the risk of Legionella infections. Commercial product launch is expected in 2018.



SmartSSL from Hungaro Lux Light: smart street lighting which increases safety while reducing energy use. Using Intel technology, it provides innovative features such as informing operators when lighting elements should be replaced and reducing the electric current in cooler weather conditions, when LEDs are more efficient. PearlLight luminaires are expected to go into production before the end of the year.



SolarSensNet from Alitec: combining Alitec's patented solar-irradiation sensors with metering points, the Solar SensNet system, which is based on an Infineon platform, teaches heating systems to respond to changing weather conditions. Sales are expected to exceed €1M by 2020.

More details on technical competences, platforms and design centers are available on the project website: www.eurocps.org

About EuroCPS

Launched in 2015 and coordinated by CEA-Leti, EuroCPS brings together 14 partners from nine countries who established a network of design centers to help companies develop innovative products for emerging Internet of Things (IoT) markets. EuroCPS members are major European system suppliers, world-class research centers and technology providers, all rooted in the top European regional ecosystems. The full list is as follows:

- CEA-Leti & List (France)
- STMicroelectronics Grenoble 2 SAS (France)
- Thales SA (France)
- AVL LIST GmbH (Austria)
- Infineon Technologies Austria AG (Austria)
- Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung E.V. (Germany)
- The Digital Catapult (UK)
- Alma Mater Studiorum – University of Bologna (Italy)
- Lulea Tekniska Universitet (Sweden)
- Budapesti Muszaki es Gazdasagtudományi Egyetem (Hungary)
- Intel Shannon Limited (Ireland)
- Vereniging High Tech NL (The Netherlands)
- Finpower GmbH (Germany)
- STMicroelectronics SRL (Italy)

EuroCPS is part of the Smart-Anything-Everywhere Initiative under the Horizon 2020 Leadership in Enabling Industrial Technologies program, which aims to generate new and breakthrough technologies, boost competitiveness, create jobs and support growth by offering a Europe-wide network of design centers. Four innovation actions combined efforts under the €25M funding budget to support around 100 industrial experiments, involving more than 200 SMEs and midcaps in the field of cyber-physical systems (CPS), Internet of Things (IoT) and smart systems integration (SSI).

About CEA-Leti (France)

By creating innovation and transferring it to industry, Leti is the bridge between basic research and production of micro- and nanotechnologies that improve the lives of people around the world. Backed by its portfolio of 2,200 patents, Leti partners with large industrials, SMEs and startups to tailor advanced solutions that strengthen their competitive positions. It has launched more than 50 startups. Its 8,000m² of new-generation cleanroom space feature 200mm and 300mm wafer processing of micro and nano solutions for applications ranging from space to smart devices. Leti's staff of more than 1,700 includes 200 assignees from partner companies. Leti is based in Grenoble, France, and has offices in Silicon Valley, Calif., and Tokyo. Follow us on www.leti.fr and [@CEA_Leti](https://twitter.com/CEA_Leti).

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