PRESS RELEASE

EnABLES, a new European effort enabling sustainable energy solutions for IoT applications

Nürnberg, Germany: The European Union H2020 "EnABLES" research infrastructure project has just launched its Transnational Access program, which offers free-of-charge access to equipment, tools and expertise related to 'powering the internet of things (IoT)'. The vision of EnABLES is to develop Energy Harvesting solutions and finding ways to reduce the power consumption of devices to eliminate the need for battery replacement.

The EnABLES project, which combines Transnational Access (TAs), Joint Research Activities (JRAs) and Networking Activities on the field of energy harvesting, storage, micro-power management and system integration started at the beginning of 2018. The partners will create self-sustaining energy solutions to power the internet of things. Free-of-charge access to simulations, data libraries, equipment and expertise access along with feasibility studies will all be provided in a fast-track manner via the Transnational Access program.

Launch of Transnational Access Program for new Innovations

The TA program gives unprecedented access to developers from academia and industry and integrators of IoT devices to advanced research infrastructure based on the technology pillars of Energy Harvesting, energy storage, micro-power management and system integration. The TA providers are Tyndall National Institute (co-ordinator, Ireland), CEA Leti & Liten (France), Fraunhofer IIS and Fraunhofer IMS (Germany), imec (Netherlands). In addition, virtual access to databases of vibrational energy sources from real life applications is being offered by the Universities of Southampton and Perugia. EnABLES also funds JRAs between the mentioned partners along with the Karlsruhe Institute of Technology, the Politecnico di Torino and the University of Bologna. It is envisaged that the JRAs will lead to future TA offerings.

The access activities can be undertaken in many ways ranging from characterizing materials or devices, to physical or simulated feasibility studies to see if battery life in IoT devices can be prolonged. The potential impact of EnABLES is enormous – the significantly rising number of IoT devices will require an embedded self-contained power source. The access process is very simple, examples can be found on the EnABLES website. An online enquiry form is available at www.enables-project.eu. All outputs from

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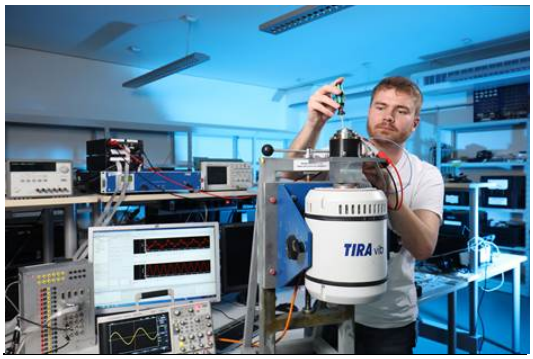
the project activities will be made available as part of the EnABLES objective to build a collaborative ecosystem that creates miniaturized and autonomous sensors.



Develop new products with Energy Harvesting technology from Fraunhofer IIS. © Fraunhofer IIS/Kurt Fuchs | Picture in print quality: www.iis.fraunhofer.de/en/pr

Facts of the EnABLES activities at a glance:

- Building an ecosystem for collaboration initially creating EnABLES as a 'starting community'
- Providing external fast track access to expertise and laboratories (TA) – over 130 researchers and infrastructure worth of 2 billion euro
- Fostering internal collaboration between partners (JRAs) guided by needs and opportunities
- Creation of standardized and inter-operable libraries of parts & simulation tools in order to optimize the system level performance

This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No 730957.

Learn more about the EnABLES project www.iis.fraunhofer.de/enables or www.enables-project.eu

The Fraunhofer-Gesellschaft is the leading organization for applied research in Europe. Its research activities are conducted by 72 institutes and research units at locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of 25,000, who work with an annual research budget totaling more than 2.3 billion euros.

The **Fraunhofer Institute for Integrated Circuits IIS** is one of the world's leading application-oriented research institutions for microelectronic and IT system solutions and services. It is the largest of all Fraunhofer Institutes. Research at Fraunhofer IIS revolves around two guiding topics:

In the area of **"Audio and Media Technologies"**, the institute has been shaping the digitalization of media for more than 30 years now. Fraunhofer IIS was instrumental in the development of mp3 and AAC and played a significant role in the digitalization of the cinema. Current developments are opening up whole new sound worlds and are being used in virtual reality, automotive sound systems, mobile telephony, streaming and broadcasting.

In the context of **"cognitive sensor technologies"**, the institute researches technologies for sensor technology, data transmission technology, data analysis methods and the exploitation of data as part of data-driven services and their accompanying business models. This adds a cognitive component to the function of the conventional "smart" sensor.

970 employees conduct contract research for industry, the service sector and public authorities. Founded in 1985 in Erlangen, Fraunhofer IIS has now 14 locations in 11 cities: Erlangen (headquarters), Nuremberg, Fürth, Dresden, further in Bamberg, Waischenfeld, Coburg, Würzburg, Ilmenau, Deggendorf and Passau. The budget of 184 million euros is mainly financed by projects. 22 percent of the budget is subsidized by federal and state funds.

Detailed information on: www.iis.fraunhofer.de/en