EnABLES

ENABLES PARTNERS

Access Centres

- Tyndall National Institute, Ireland
- Commisariat a L'energie Atomique et aux Energies Alternatives (CEA-Leti, CEA-Liten), France
- Fraunhofer IIS, Fraunhofer IMS, Germany
- Stichting IMEC Nederland, Netherlands

Knowledge Hubs

- Karlsruher Institute of Technology, Germany
- Politecnico Di Torino, Italy
- Alma Mater Studiorum – Universita di Bologna, Italy
- Universita degli Studi di Perugia, Italy
- University of Southampton, UK

HOW DO I APPLY FOR ACCESS?

A very simple on-line service for applying for Transnational Access (TA) is available through the EnABLES website. Libraries of parts based on metrology and/or simulation files will also be available.

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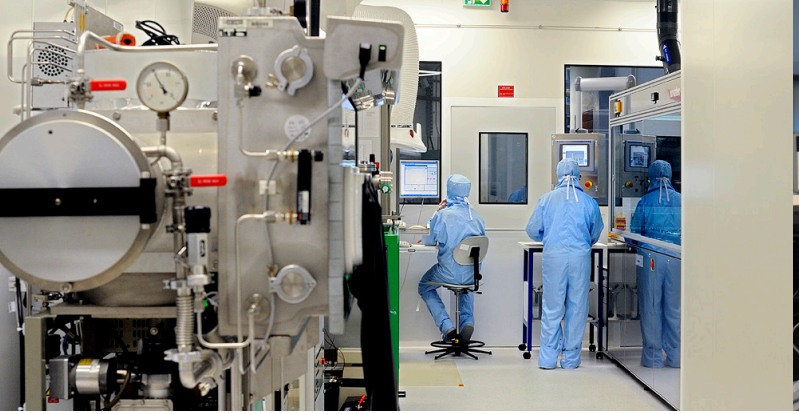
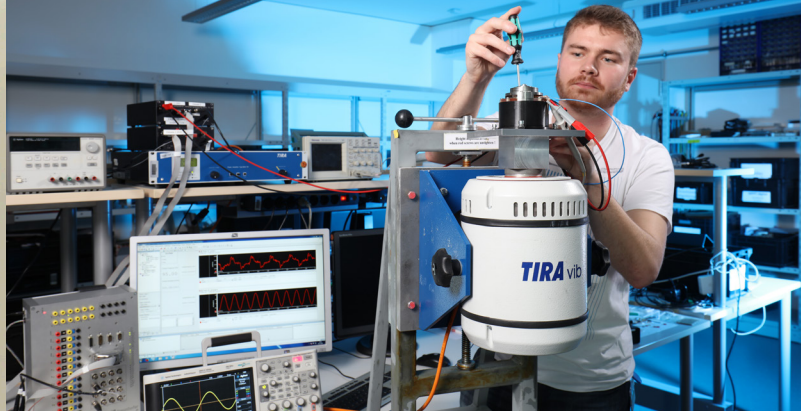
EUROPEAN INFRASTRUCTURE POWERING THE IOT





EnABLES provides fully funded access to key European research infrastructures (RIs) in powering the Internet of Things (IoT). Industrial and academic researchers & integrators can now address the key challenges required to enable truly 'invisible', unobtrusive and self-powered (autonomous) wireless devices by having access to state-of-the art facilities and expertise at the EnABLES partner sites. This collaborative approach will help bridge the gap between capturing 'ambient' energy supply from energy harvesting sources (EH), integrating new devices for energy storage (ES) and developing micro-power management (MPM) solutions for miniaturised system operation.

Challenge & Opportunity

By the year 2025, there will be one trillion IoT devices worldwide that need power. The challenge is to eliminate (or significantly reduce) the need for battery replacement by developing energy harvesting and energy storage solutions whilst also reducing the IoT device energy consumption. Through providing easy access to key infrastructure and expertise EnABLES will bring researchers and industry users together to develop application-oriented solutions for IoT devices and systems.

Objectives

- Create a "powering the IoT" community with a mind-set change in how parts and systems are developed based on rapid access to advanced research infrastructure
- Enable development of wireless IoT devices and miniaturized, autonomous sensors
- Develop and integrate energy harvesting and energy storage solutions
- Develop energy management solutions within self-powered smart sensor systems

Benefits for Participants or Members

- Free of charge rapid access to undertake feasibility studies at EnABLES partner sites
- Access to standardised and inter-operable libraries
- Be part of a strong network to form collaborations
- Avail of expert technical advice and support (lab, equipment, tools and libraries)
- Opportunity to use state-of-the-art tools to optimize system level performance