



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

European Infrastructure Powering the Internet of Things

EnABLES provides fully funded access to key European research infrastructures (RIs) in powering the Internet of Things (IoT).

EnABLES Provides

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

Goals / 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

Impact

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 & systems.

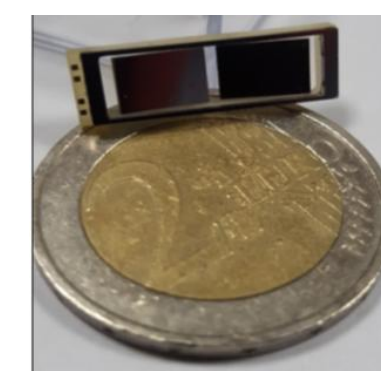
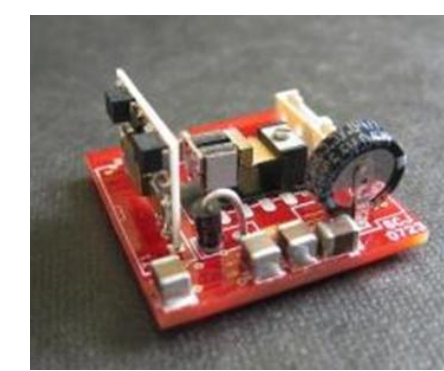
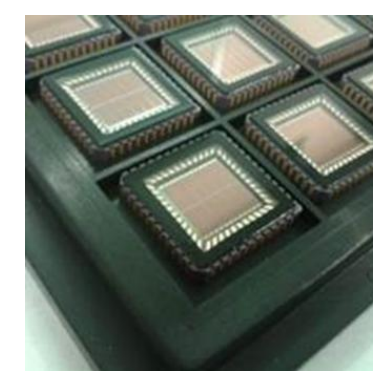
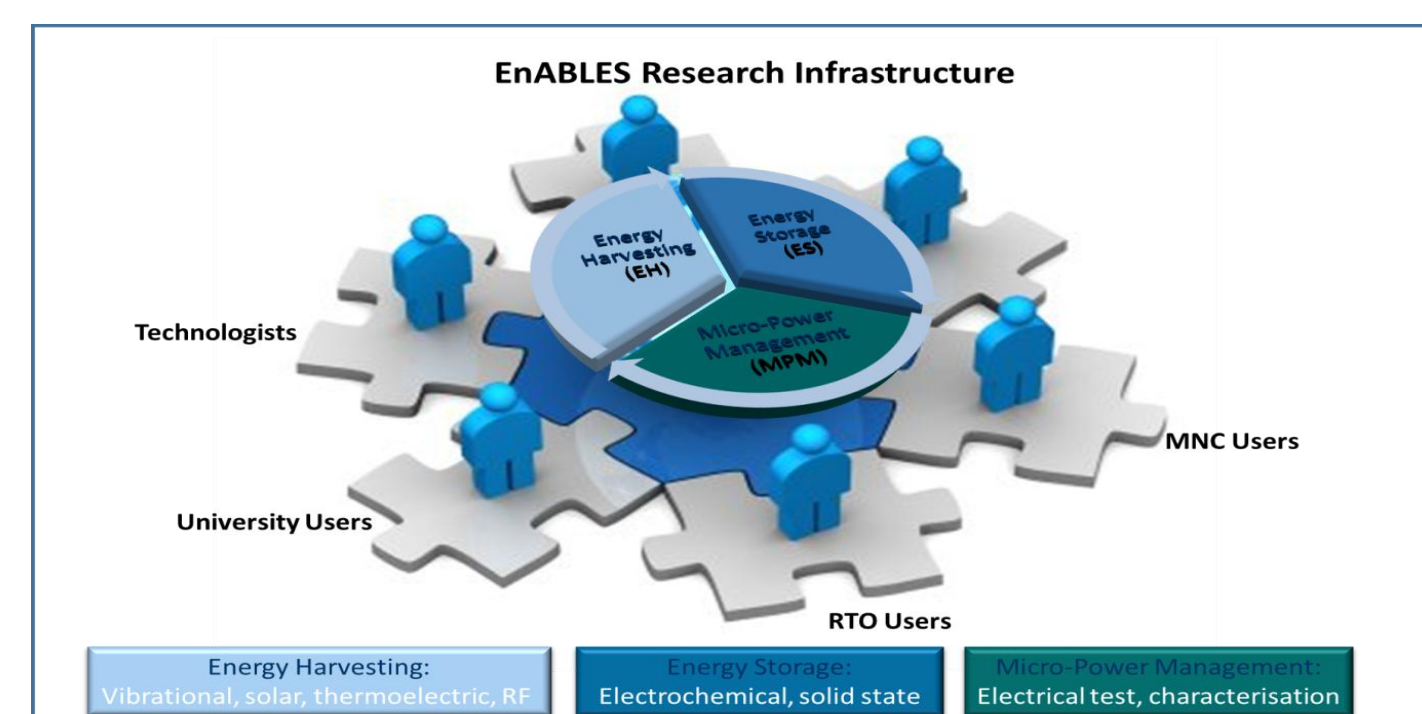
Transnational Access Process (July 2018)

- Sign up to join our exciting network at <http://www.enables-project.eu/>
- Make an enquiry and describe your area of interest
- Submit an application form for fast and easy access
- Selection Panel will assess application
- Access world leading infrastructure at the partner sites
- Share your results with the wider IOT community

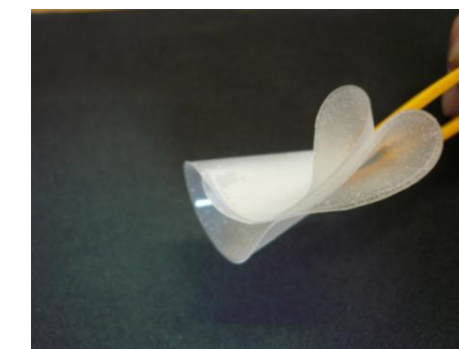
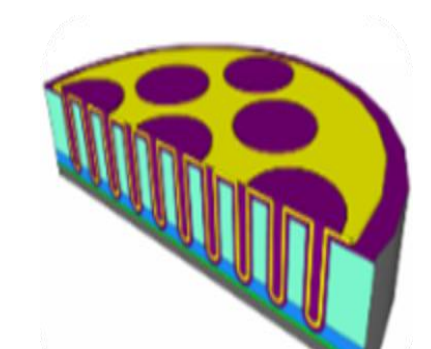


Partners across Europe –

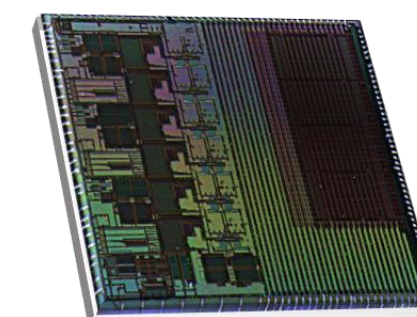
- Tyndall National Institute (IRL) – Project coordinator
- CEA-Leti (F)
- CEA-Liten (F)
- Fraunhofer – Institute for Integrated Circuits (D)
- Fraunhofer – Institute for Microelectronic Circuits and Systems (D)
- imec Nederland (NL)
- Karlsruher Institut für Technologie (D)
- Politecnico di Torino (I)
- Università di Bologna (I)
- Università degli Studi di Perugia (I)
- University of Southampton (UK)



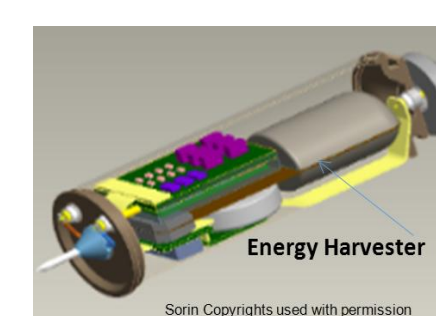
Energy Harvesting



Energy Storage



Micro-Power Management



System Integration



Project leader: Michael Hayes
Company: Tyndall National Institute
Email: michael.hayes@tyndall.ie
Tel.: +353 21 2346328



<http://www.enables-project.eu/>

<http://ec.europa.eu/>

