

EARTO INNOVATION AWARDS 2021

attributed to

CEA-SOITEC – Smart Cut™

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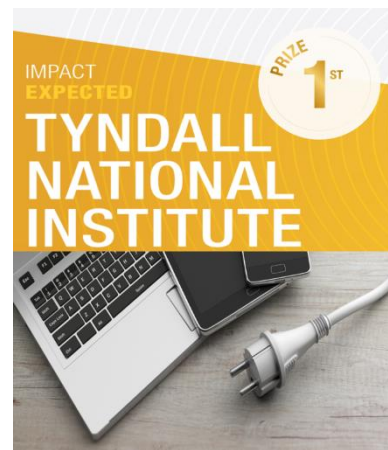
Tyndall National Institute – MagIC

Brussels, 27 October 2021

The EARTO Innovation Awards 2021 were given today to EARTO members **CEA** and **Tyndall National Institute** during a ceremony held digitally. CEA received the award in the Impact Delivered category for the development of **a patented Smart Cut™ process of substrate fabrication** in collaboration with SOITEC, which results in a transfer of a thin active layer of silicon from one substrate to another, which can be used in all electronic devices. Tyndall National Institute received the award in the Impact Expected category for the development of **the MagIC platform**, which delivers thin-film micro-magnetics components that can enable dramatic reductions in electronic system energy use.



CEA-SOITEC – Smart Cut™



Tyndall National Institute – MagIC



Flying-phones in your smart hands



Currently smartphones **100%** use **of Smart** **new** **Cut™** substrates.



More than 1,250 active patents cover Smart Cut™ process today.



SOITEC created **more than 300 new direct jobs over the past 5 years.**



20 billion RF integrated circuits based on RF-SOI substrates are now available on the market.

European Technology will be MagIC



MagIC can reduce the inductor component height **by 5 to 10 times.**



MagIC will enable up to 10 times reduction in the magnetic component costs.









MagIC delivers up to 50% in system-level energy savings.



MagIC has received **more than €10M in research, license and productisation fees.**

Created in 2009, the EARTO Innovation Awards highlight the various areas of RTOs' activities and illustrate RTOs' concrete contributions to innovation with high societal impact through the two categories: "Impact Delivered" and "Impact Expected". The Awards' independent jury chose the best innovations of the year. Our Jury Members this year were:

					
Peter Dröll Director, DG Research & Innovation, European Commission	Simon Edmonds Deputy Executive Chair & Chief Business Officer, Innovate UK	Christian Ehler Member of the European Parliament	Jana Kolar Executive Director, CERIC-ERIC & Chair, ESFRI	Juan Antonio Tébar Director, CDTI	Frank Treppe Executive Director (acting), Fraunhofer Institute for Molecular Biology and Applied Ecology (Fraunhofer IME)

On the same day, EARTO has published the 2021 edition of its **Innovation Awards brochure**, a collection of thirty-eight innovations featuring EARTO members, which gives a flavour of the wide range of RTOs' work. Such innovations demonstrate RTOs' capacity to support Europe's innovation performance and their focus on solving today's challenges and delivering impact. The brochure includes articles on all RTOs that took part in this year's competition, as well as articles on RTOs International Network (RIN), with a special focus on the 6 finalists which are, in addition to the two above-mentioned winners:



IMPACT DELIVERED – 2ND PRIZE

TECNALIA – FESIA, a flexible, modular, configurable and lightweight technology to power new therapeutic and neuroprosthetic devices for people affected by neurological conditions.



IMPACT DELIVERED – 3RD PRIZE

FEDIT – AITIIP Technology Centre – BARBARA, a project that develops biopolymers with advanced functionalities for building and automotive parts, through 3D printing technology.



IMPACT EXPECTED – 2ND PRIZE

VTT – Infinna™, a ground-breaking technology which turns textile waste into completely new, premium-quality textile fibres with unique characteristics, through responsible chemistry.



IMPACT EXPECTED – 3RD PRIZE

CSEM – denovoCast, the first automated skin graft production platform, allowing to produce large area of personalised skin grafts in a fully automated and safe manner.

Full EARTO Innovation Awards 2021 brochure available [here](#).

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EARTO Innovation Awards are given since 2009 to illustrate RTOs key contribution to innovation. Two categories have been created: Impact Delivered and Impact Expected. The Impact Delivered Award is given to an innovation already in the market and which has proven its impact on Europe's economy and/or society, while the Impact Expected category rewards an innovation which is not yet on the market but has great potential.

RTOs - Research and Technology Organisations: From the lab to your everyday life. RTOs innovate to improve your health and well-being, your safety and security, your mobility and connectivity. RTOs' technologies cover all scientific fields. Their work ranges from basic research to new products and services development. RTOs are non-profit organisations with public missions to support society. To do so, they closely cooperate with industries, large and small, as well as a wide array of public actors.

EARTO - European Association of Research and Technology Organisations: Founded in 1999, EARTO promotes RTOs and represents their interests in Europe. The EARTO network counts over 350 RTOs in more than 20 countries. EARTO members represent 150,000 highly-skilled researchers and engineers managing a wide range of technology infrastructures.

The CEA – Alternative Energies and Atomic Energy Commission – is a partially state-funded French RTO and a prominent player in the ERA. The CEA is active in four main areas: low-carbon energies, defence & security, information technologies and health technologies. The CEA maintains a cross-disciplinary culture of engineers and researchers, building on the synergies between fundamental and technological research.

Tyndall National Institute is a leading European research centre in integrated ICT (Information and Communications Technology) materials, devices, circuits and systems. Specialising in both electronics and photonics, Tyndall works with industry and academia to transform research excellence into high impact products in Communications, Energy, Health & Well-being, Advanced Manufacturing, Precision Agriculture and the Environment.