



## NEWS RELEASE

### **Essensium NV and IMEC's division INTEC\_design at the University of Ghent collaborate on ranging enabled transceivers.**

**Leuven, Belgium, 15th March 2007** – *Essensium N.V., a fabless provider of SoC ASICs (system-on-chip application-specific integrated circuits), today announced that it has established a joint research program with IMEC's INTEC\_design research team at the University of Ghent.*

The purpose of the joint research program is to develop a working prototype of a ranging transceiver operating in the ISM bands using a new concept for which Essensium has a patent pending.

Most ISM-band ranging transceivers, available on the market today for use in real time local positioning systems (RTLS), claim 3m accuracy. However, real life applications indicate that 3m is often only attainable in open field, while in obstructed environments the accuracy easily deteriorates to 6-to-10 m.

Johan Danneels, CEO of Essensium, said: "With our patent pending technology we want to establish an ISM-band ranging transceiver with 1m accuracy in obstructed environments. To help us solving the design challenges facing this target, we set up this collaboration project with INTEC\_design that is renowned for its extensive experience with complex and innovative high speed circuit design".

Prof. Dr. Ir. Jan Vandeweye, head of INTEC\_design, stated: "We have a long tradition in advanced and innovative high speed hardware design, and we look forward to work together with Essensium's team on this challenging new project".

This research project is funded by the Flemish Institute for the Promotion of Innovation through Science and Technology (IWT) under contract 60393.



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## **About Essensium NV**

Essensium is a fabless semiconductor company based in Leuven, Belgium, that provides system-on-chip products and design services to original equipment manufacturers, design houses, and ASSP suppliers. Essensium was created as a spin-off of the nanotechnology research center IMEC in Leuven. Essensium's skills and technology focus on custom silicon for portable, wireless, and low power applications. In addition, Essensium is also working towards the development of standard products for wireless sensor networks and active RFID applications. For more information on Essensium, please visit <http://www.essensium.com>.

## **About INTEC\_design**

The INTEC Design Laboratory, associated with IMEC, is a research group within the Department of Information Technology (INTEC) of the University of Ghent. INTEC\_design offers graduate engineers a Ph.D. level training in advanced electronics design, including the specification, design and testing of new electronic hardware, firmware and embedded software. Most of its designs are highly innovative, and rely on extensive study and interactive teamwork. The main applications concern RF and broadband communications including fibre optics. INTEC\_design maintains an international reputation by committing to real life design tasks, starting with study and system concept, all the way to the finishing of industrially acceptable prototypes or demonstrators. For more information on INTEC\_design, please visit <http://www.intec.ugent.be/design/>.

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