

## PRESS RELEASE

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### **Spin-off from Fraunhofer IIS/EAS offers software for the development of ultra-modern electronics**

**COSEDA Technologies GmbH in Dresden began its business activities in July 2015. The team consisting of former employees of the Fraunhofer research institute IIS/EAS now offers software that companies around the world can use to develop particularly complex electronic products more reliably, more quickly and more cost-effectively. The company can rely on the know-how accumulated during more than 15 years of cooperation by Fraunhofer IIS/EAS with the semiconductor industry.**

Every second microchip manufactured in Europe comes from Dresden, Germany. This made it only logical for Karsten Einwich, one of the two managing directors of COSEDA Technologies, to choose that city as the location for the newly founded company. "Here in the largest microelectronics location on the continent, we have our Fraunhofer roots and find an outstanding network of start-ups and research institutions," explains the engineer. "The market for design software may be dominated around the world by just a few large companies, but we have the ability to react much more flexibly to special wishes and requirements of our customers, especially those in Europe." This is an important niche, particularly for products with the highest quality requirements, as are found for example in vehicles or telecommunications. In order to offer its design software to companies in the United States and Asia as well, COSEDA Technologies is currently building up a network of local sales partners.

In contrast to standard offerings on the world market, the new company's technological platform features an especially broad scope of functionality for systems consisting of analog and digital components, hardware and software. This expertise was acquired by Karsten Einwich and his team at Fraunhofer IIS/EAS through many years of collaboration with leading semiconductor manufacturers. During this time, the development of integrated circuits without the use of design tools has become

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inconceivable. Current manufacturing technologies present particularly large challenges that must be overcome in order to achieve a reliable chip design. As one of the largest European research institutions in the area of design automation, Fraunhofer IIS/EAS has therefore developed software for various tasks in this area.

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One of these software tools is the development platform COSIDE®, which is now the starting point for the business of the Fraunhofer spin-off COSEDA Technologies. This platform contains various modeling and simulation technologies based on an industry standard and resulting from cooperation with the European microelectronics industry. COSEDA Technologies is now the first provider in the world to sell commercial software based on this standard that companies can use for new system concepts as well as innovative, high-performance and yet inexpensive products. Karsten Einwich is convinced that the company's approach will be successful. "Our founding team consists initially of a few highly specialized experts. In addition, we still have Fraunhofer backing us up, and we will be able to work very closely with our former employer in the future," explains the managing director. "This way we can ensure that customers requiring more extensive support and services are able to receive these through Fraunhofer IIS/EAS. We will also pass the direct feedback of our customers on to the institute so that future research can be closely tied to the needs of the industry." The spinning off of COSEDA Technologies GmbH is being supported within the program "Fraunhofer supports start-ups" as well as by the German Federal Ministry for Economic Affairs and Energy within the framework of the EXIST research transfer. This is cofinanced with funds from the European Social Fund.

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**The EAS Division of Fraunhofer IIS**

The Fraunhofer Institute for Integrated Circuits IIS is one of Germany's most important research facilities for the development of microelectronic systems. The scientists in the Design Automation Division EAS in Dresden develop methods and tools to reliably design increasingly complex electronic and mechatronic systems. This optimizes and accelerates implementation of product requirements in circuitry, devices or complex sensor systems. The division also focuses on innovative in-house developments. One essential task that applies to all activities is to close the gap between new manufacturing technologies and the system design. The results of the work can be found e.g. in communication, automotive and automation technology.