

## *PRESS RELEASE*

Economy / Technology / Research

### **Novel future technology in Silicon Saxony – Silicon Saxony relies on "Internet of matters".**

**The Saxon industry network for the high-tech industry has founded the new work group "Cyber-physical systems". By doing so, Silicon Saxony aims at providing a center of competence for this innovative technology in Saxony which will be a key future technology on the market. Therefore, experts from research and science will get together on a regular basis.**

**Dresden, 5 December 2012.** Intermedial communication – the "Internet of matters and services" means a vision for our everyday life to come. By means of an enormous number of sensors and chips, traffic flow is registered and optimized automatically, vital data gained by touch are transmitted to doctors via Smartphone, and information flow is channeled. Cyber-physical systems (CPS) represent a primary step on the path to a merging of digital and real worlds. Based on integrated circuits (IC) they mean a novel technology not merely able to gather information but also to efficiently automate industrial processes up to a self-regulating optimization.

Hardly any other region besides Silicon Saxony may provide the basics for such technology: High-quality microelectronics and software Members of the trade association for the Saxon high technology, Silicon Saxony e.V. have recently founded another work group in order to being able to make stronger joint use of this potential.

#### **Newly established work group is growing and awaiting members**

Saxon experts in the field of CPS met as early as spring 2012 for a first symposium. According to Uwe Gäbler from Infineon Technologies Dresden, who is going to head this work group together with Dr. Wolfgang Sinn from IMMS Ilmenau: "The official formation of this work group institutionalizes the activities already called into life and intensifies the members' cooperation. T-Systems Multimedia Solutions, the Technical University Dresden, the Institut für Mikroelektronik- und Mechatronik-Systeme (IMMS) GmbH, ZMDI, Fraunhofer IPMS and IVI as well as Infineon Technologies Dresden are among these. There will be regular meetings with regard to

core issues of our work. We would like to invite any Saxon experts in this field to participate."

**Saxony combines high-quality software and chips at just one site.**

As Sabine Schorlemer, Saxon State Minister of Science and Art states: "We are pleased about the engagement of Silicon Saxony. This new work group creates a platform which deals with this particular future topic in detail, which more closely connects the experts in Saxony as a business location and which offers a fundamental technological basis. There are only few industrial locations like Saxony having the required quality of chips and software at hand for these technologies. The topic of cyber-physical systems provides another option of advancing Saxony as an industrial site for microelectronics and IT on its way to a global player."

**Industry 4.0: CPS as a driving force for conventional industries**

The Federal Ministry of Education and Research called into life the "Future oriented project industry 4.0" "Cyber- physical systems" represent the technological basis for an industry 4.0 and are thus a chance for Germany. The Federal Republic has its strengths in the conventional industries as well as in the information and communication technology (ICT) CPS combine both these competences. Smart ICT inspires the processes in the conventional industries", Dr. Helmut Gassel, Saxon spokesman of the Federal Association for Information Technology, Telecommunications and New Media (BITKOM), is convinced of.

**Joint future research activities across sectors**

With regard to Prof. Uwe Aßmann, professor for software technology at the Technical University Dresden (TUD): "Not only do cyber-physical systems provide potential for Germany. They are a particularly outstanding option for the Free State of Saxony to enhance its position on the global high-technology market. Saxony offers a unique mixture: On the one hand, the Free State is a traditional business location with sound expert knowledge in the field of machine and plant engineering. On the other hand it is home of the most extensive European ICT cluster. Moreover, there is the University of Excellence TU Dresden. A close cooperation with medium-sized companies is especially aimed at – not only within microelectronics but with the Saxon based machine and plant engineering as well. This will make us succeed in forming the basis for the industry 4.0 – and to advancing Saxony to become a globally leading center of competence for CPS."



**Footage for download** (print version, ca. 1.6 MB):

[https://dl.dropbox.com/u/25555630/Arbeitskreis\\_CPS.zip](https://dl.dropbox.com/u/25555630/Arbeitskreis_CPS.zip) Foto: Silicon Saxony e.V.

**Material free of charge for media**

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**About SILICON SAXONY e. V.:**

Silicon Saxony e.V. is Europe's leading trade association for micro and nanoelectronics, photovoltaics, software, Smart Systems and applications. The association was founded in December 2000 as a network for the semiconductor, electronics and microsystems industries. It links Producers, suppliers, service providers, universities, research and public institutes at the business location Saxony. About 20,000 coworkers are employed at the 300 member companies, achieving an annual turnover of more than 4.5 billion Euros