



OVGU INKA Chair participates in EU Horizon 2020 project

“Tomographic 3D Ultrasound for Safer and more cost-effective Vascular Diagnostics and Treatment Planning” with partners from Austria, UK, and Germany

The endowed chair of intelligent catheters (INKA) at the OVGU has won a highly competitive EU HORIZON 2020 project under the leadership of PIURIMAGING GmbH from Austria.

INKA has been a key technology supplier for advanced image tracking concepts and has already worked with PIURIMAGING in the past on a separate government sponsored research project. The idea for a new concept development of cost-effective 3D Ultrasound was now selected by the EU after excellent reviews.

With that the partner consortium will receive an EU grant of €2 Million starting April 1 2017 for a duration of 24 month.

The INKA chair under the leadership of Prof. Michael Friebe will develop and test a proprietary new tracking technology concept. The development lead is with Dr. Johannes Krug, a post-doc of the chair.

The medical technology research campus STIMULATE and affiliated INKA in Magdeburg are leading research technology suppliers for image guided therapies in Germany.

Subcontractor	Short Name	Type	Country
Institute for Medical Systems (IMT), OVGU	OVGU	University	Germany

Institute for Medical Systems (IMT), Faculty of Electrical Engineering and Information Technologies, Otto von Guericke University Magdeburg. Engineering, natural sciences and medicine are the main fields of expertise of the OVGU Magdeburg. Medical engineering is one of the four research focuses of the university. The IMT research team has longstanding expertise in the fields of medical device tracking, signal processing, electronics development, and sensor design. Within their own technical labs, the IMT has access to a variety of devices which are required during the development and evaluations process such as clinical ultrasound (US), MRI

This proposal version was submitted by Frederik BENDER on 25/10/2016 00:00:54 Brussels Local Time. Issued by the Participant Portal Submission Service.

PIUR-ITUS ETIP001-01-2016

and X-ray devices, different commercial tracking systems, and rapid prototyping machines. Within the project OVGU will provide development support for the sensor technology and accuracy and performance testing of the system and components.

Professor Michael Friebe, Affiliated Professor and Business Angel has been involved in diagnostic imaging and image guided therapeutic products and services as well as other related Medical Technology ventures, as founder, innovator, CEO and investor. He currently holds the position of Professor for Image Guided Surgeries and Catheter Technologies at the Otto-von-Guericke-University in Magdeburg. Michael is a member of piur imaging GmbH Board of Advisors.

Justification for Selection:

- Large research institution with a strong technical and medical background
- Strong expertise in tracking technologies, image and signal processing, electronics and sensor design
- Access to facilities and equipment required for the development and evaluation of the sensor prototype.



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