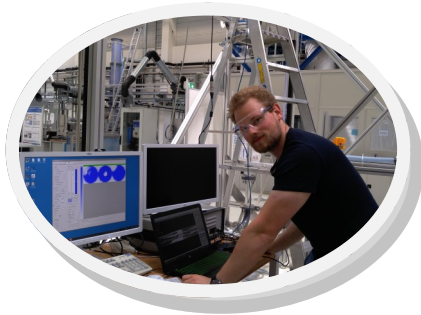## A Marie Skłodowska-Curie

European Training Network

Our **15 doctoral researchers** are being trained in the fields of process tomography hardware, software and algorithms, control systems theory and design, industrial process design, multi-physics modelling and simulation, human-computer interaction, and massive parallel data processing.

For more information,

visit the TOMOCON website:

www.tomocon.eu

Proof-of-principle demonstrations of tomography-based process control are being foreseen for important industrial processes, such as **inline fluid separation, microwave drying of porous materials, continuous steel casting and ultrasound-controlled crystallization.**

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TOMOCON
Smart Tomographic Sensors for Advanced Industrial Process Control

Smart Tomographic Sensors for

Advanced Industrial Process

Control

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Smart Tomographic Sensors for

Advanced Industrial Process Control

With the most **recent progress in fast data processing** on smart scalable parallel hardware architectures imaging techniques have reached the capability of being employed as **sensors in advanced real-time control systems**. Process tomography techniques are of particular value as they can give insights into opaque process components and materials.
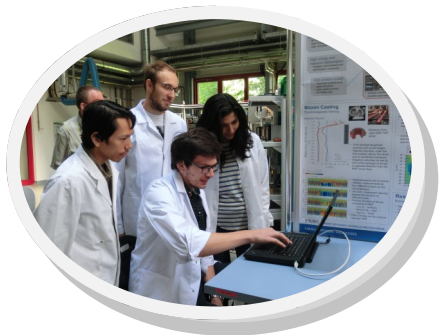
The European Training Network **"Smart tomographic sensors for advanced industrial process control (TOMOCON)"** joins **12 international academic institutions** and **15 industry partners**, who work together in the emerging field of **industrial process control using smart tomographic sensors.** The network shall lay the scientific and technological fundamentals of integrating imaging sensors into industrial processes and will demonstrate its functional feasibility on **lab and pilot-scale applications.**

Academic Partners

Helmholtz-Zentrum Dresden-Rossendorf (Germany, Coordinator)

Chalmers University of Technology (Sweden)

Delft University of Technology
(The Netherlands)

Institut National Polytechnique de Toulouse (France)

Karlsruhe Institute of Technology (Germany)

Lappeenranta University of Technology (Finland)

Technical University of Liberec
(Czech Republic)

Lodz University of Technology (Poland)

University of Bath (UK)

University of Eastern Finland (Finland)

Technische Universität Dresden (Germany)

Universidade Tecnológica Federal do Paraná (Brazil)

International Advisors

Prof. Dr. Muthanna H. Al-Dahhan, Missouri University of Science and Technology (USA)

Prof. Masa Takei, Chiba University (Japan)

Prof. Brian Hoyle, University of Leeds (UK)

Prof. Chao Tan, Tianjin University (China)

Industry Partners

Netrix S.A. (Poland)

Teletronic Rossendorf GmbH (Germany)

Rocsole Ltd. (Finland)

CERG Fluides S.A.S. (France)

Frames Group B.V. (The Netherlands)

Vötsch Industrietechnik GmbH (Germany)

Pinta Elements GmbH (Germany)

Primetals Technologies Austria GmbH (Austria)

Siemens AG (Germany)

Linde AG (Germany)

Total S.A. (France)

Tata Steel Nederland Technology B.V. (The Netherlands)

Shell Global Solutions International B.V. (The Netherlands)

DuPont Ltd. (Finland)

Sulzer Chemtech AG (Switzerland)