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KETGATE

3rd KETGATE Newsletter

CE1188 Central European SME Gateway to key-enabling technology
infrastructures - sparking a new transnational KET Innovation Ecosystem

PROJECT AIM

Enabling a Central Europe - wide access to highly competent KET
technology and infrastructure services for SMEs irrespective of their
location

PROJECT NEWS

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KETGATE study visit at Bay Zoltán Nonprofit Ltd. in Miskolc and Budapest, Hungary

From 12th to 13th June 2018 a study visit was carried out at Bay Zoltán Nonprofit Ltd. for Applied Research. The partners of KETGATE project and the representatives of Czech, Polish and Croatian research institutes visited the laboratories located in Miskolc and Budapest.

The purpose of the study visit was to present the technology services of Bay Zoltán Research Institute and to explore bilateral cooperation opportunities so that research institutes can develop joint service packages that they can offer to small and medium-sized enterprises (SMEs).

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WORKSHOPS “RTOs READY FOR UPGRADE”

Eight workshops analysing services offered, potential, needs and challenges of Research & Technology Organisations (RTOs), were successfully held in Project Partners' regions. The objectives of the workshop were to inform technology-research organisations in 8 regions on the KETGATE project, explore their expertise and services offered to SMEs in terms of Key Enabling Technologies, explain the potentials and benefits for the RTOs involved in the project, to offer examples of cooperation between RTOs, and to map the services of the RTOs invited and compare them to services offered by the RTO project partners. The ultimate aim of this research was to identify potential complementarities, synergies, and cooperation possibilities of the RTOs and SMEs in Central Europe.

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TEAM BEHIND THE PROJECT

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JOANNEUM RESEARCH MATERIALS (JR) has long-standing experience in managing a wide range of research co-operations, thus enabling JR's customers to successfully participate in national and international funded research projects. The team of around 80 researchers provides interdisciplinary solutions across the entire value chain (from the idea to design, simulation, proof of concept, lab testing, experimental setup and prototype), using cutting edge technologies and methods based on **miniaturization, integration and materials optimization**. Combined with state-of-the-art equipment and infrastructure MATERIALS offers innovative solutions and services tailored to the needs of business and industry. More than 20 years of close cooperation with leading research institutions enables MATERIALS to continuously improve and extend the portfolio of expertise.

The Institute is organized in five topical areas:

- **Hybrid Electronics and Patterning**
- **Light and Optical Technologies**
- **Laser and Plasma Processing**
- **Sensors and Functional Printing**
- **Smart Connected Lighting**

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Technologies of tomorrow: PYZOFLEX®

PyzoFlex® is a patented, affordable, printable sensor technology that can be implemented on an industrial scale. It allows the large-scale and accurate measurement of temperature and pressure changes in objects and their environment as well as energy harvesting.

The core of this technology are fully printed sensors (based on special, ferroelectric polymers), which are fabricated by a cost-effective screen printing method. These films can detect localized pressure and temperature changes as well as vibrations with high precision. Wherever pressure / temperature changes, vibrations or shock waves occur, piezoelectric and pyroelectric transducers can be used to convert mechanical deformation (changes in thickness) and temperature differences into electrical energy.

PYZOFLEX® allows for a wide range of applications: IoT, consumer electronics, security, cyber physical systems, automotive, wearables, smart living and life science, sport, and many more.

PYZOFLEX® is a patented technology developed by [JOANNEUM RESEARCH](#) - KETGATE project partner.

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FAVOURITE READS ON KETS

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An analysis of drivers, barriers and readiness factors of EU companies for adopting advanced manufacturing products and technologies

Manufacturing is one of the key driving forces of the European economy and provides above 30 million jobs in Europe. There are several drivers, barriers and readiness factors for adopting advanced manufacturing products and technologies. Learn more about it in the study.

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Study on the dual-use potential of Key Enabling Technologies (KETs)

The report summarizes areas, where Europe should invest to benefit from technologies in a dual use in civilian and defence markets.

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UPCOMING ACTIVITIES

Workshop "Photonics 4 Industrial Production"

29th October 2018 | 1 p.m. - 6 p.m. | Marriott Courtyard, Vienna (Austria)
within the framework of the [Indtech 2018](#)

The workshop „Photonics 4 Industrial Production“ will bring together experts at European level in the field of photonics, laser technology, automatisisation, mechanical processing

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technologies, such as high power lasers, optical sensors and data networks, can bring for production systems and mechanical processes and their applications in key regional, national and European manufacturing sectors. It will provide a networking opportunity for industry and academic interests, end-users and suppliers.

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KETGATE: Regional KET Info days for SME

October until December 2018

KET Info days for SME will take place in all eight project regions to inform about the offers of the KETGATE Points. If you are from a SME or RTO and interested in the offers of the KETGATE Points or if you are from a BSO and want to become a new KETGATE Point, write us and we will send you further information on the info day in your region.

KETGATE: Brokerage Event in Venice, Italy

31st January 2019 | Venice, Italy



The brokerage event will take place on 31st January 2019 with the objectives to present the new Transnational Network KETGATE and to prepare future co-operations between Research Centers and SMEs. Participants will have the opportunity to offer and/or

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centers in Central Europe in order to exchange ideas during pre-arranged b2b meetings with the aim of paving the way for future co-operations.

If you are interested in participating, write us and we will send you further information!

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PROJECT DURATION: 01.07.2017 - 31.08.2020

PROJECT BUDGET: 2,02 mln €

ERDF CO-FINANCING: 1,66 mln €



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