

COMET-Project

PSSP	
Photonic Sensing for Smarter Processes	
Main location	Linz, Upper Austria
Other locations	Wels, Upper Austria
Research programme	Material defect detection Physical parameter characterisation Chemical materials analysis Photonic sensing with limited information Extended information with photonic sensing
Planned realisation and outcomes	
<p>Laser ultrasound: methods for detection of solidification zones, acoustic damping in electronic components; Terahertz, optical coherence tomography, infrared spectroscopy: NDT for adhesive bonds, cost-effective process analytics for the chemical and food industry, contamination detection in fiber production. X-ray/CT: device modeling for numerical simulation, 2D/3D methods, creation of a failure catalog; Thermography: stress measurements; LIBS: Material analysis.</p>	
History of establishment	Based on the knowledge acquired at RECENDT on the NDT methods explored in various projects, the next logical step was linking this knowledge even more closely with production processes. In order to be able to offer industrial production companies the research of the widest possible range of non-contact, photonic methods, RECENDT has joined forces with 3 other scientific partners.
Selected company partners (max. 10)	Selected scientific partners (max. 5)
<ol style="list-style-type: none"> 1. Lenzing AG 2. voestalpine Stahl GmbH 3. voestalpine Stahl Donawitz GmbH 4. Qorvo Inc. 5. Nemak Linz GmbH 6. Linseis Messgeräte GmbH 7. E+E Elektronik GmbH 8. Plasser & Theurer GmbH 9. Borealis AG 10. Brau Union Österreich AG 	<ol style="list-style-type: none"> 1. JKU Institute for Applied Physics 2. JKU Institute for Microelectronics and Microsensors 3. Univ. of Appl. Sciences R&D Campus Wels
	Selected international partners ¹ (max. 5)
	<ol style="list-style-type: none"> 1. Qorvo Inc. 2. Linseis Messgeräte GmbH
Start of the COMET-Project	01.Sep.2018 (4 years)
Number of personnel	12 (FTE) are involved (11 FTE are scientists)
Total costs	EUR 5,68 Mio
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¹ Partners with headquarters outside Austria