

## COMET: K1 Centre

<b>PCCL-K1</b>	
<b>K1-Center in Polymer Engineering and Science</b>	
<b>Main location</b>	Leoben (Styria)
<b>Other locations</b>	Graz (Styria), Vienna
<b>Research programme</b>	Polymer chemistry, polymer processing, polymers in structural applications, surfaces and interfaces of polymeric materials, elastomers, optical and haptic material characteristics, simulation and modelling, fiber-reinforced polymers, material testing and fracture mechanics, aging behavior of polymers
<b>Planned realisation and outcomes</b>	
Examples for planned realization and outcome: new polymeric materials with designed properties (e.g., adhesives with self-healing behavior), zero-failure process technologies (e.g., for elastomer components), the design of surfaces with respect to human sensation (e.g., polymer coatings with particular haptic properties), and polymer components with targeted properties (e.g., a new polyethylene class PE125 with extraordinary long-term strength, and elastomer-fiber composites with designed load redirection effects and adaptable properties).	
<b>History of establishment</b>	2002: foundation of PCCL as a Kplus Competence Center 2010-2013: 1 <sup>st</sup> funding period of PCCL as a COMET K1-Center 2014-2016: 2 <sup>nd</sup> funding period of PCCL as a COMET K1-Center
<b>Selected company partners</b> (max. 10)	<b>Selected scientific partners</b> (max. 5)
1. Anton Paar GmbH 2. Borealis AG 3. Engel Austria GmbH 4. FACC AG 5. Infineon Technologies Austria AG 6. Julius Blum GmbH 7. MAGNA Powertrain ECS GmbH & Co KG 8. Pipelife Austria GmbH & Co KG 9. Semperit Technische Produkte GmbH 10. SKF Sealing Solutions Austria GmbH	1. AIT Austrian Institute of Technology GmbH 2. Montanuniversität Leoben 3. Technische Universität Graz 4. Technische Universität Wien 5. Transfercenter für Kunststofftechnik GmbH
	<b>Selected international partners</b> <sup>1</sup> (max. 5)
	1. Airbus Group (D) 2. ContiTech Industrial Rubber Kft. (HU) 3. DOW Europe S.A. (CH) 4. SCG Chemicals Co., Ltd. (THA) 5. Texas A&M University (USA)
<b>Duration of the K1 Centre</b>	COMET K1 2 <sup>nd</sup> Call: 2010-2016 (7 years) COMET K1 4 <sup>th</sup> Call: January 2017 – December 2020 (4 years, 1 <sup>st</sup> funding period)
<b>Staff employed at the Centre</b>	75 FTE (thereof 60 scientists)
<b>Total costs</b>	COMET K1 2 <sup>nd</sup> Call: EUR 35 Mio (7 years) COMET K1 4 <sup>th</sup> Call: EUR 22,6 Mio (4 years, 1 <sup>st</sup> funding period)
<b>Management of the Centre</b>	DI Dr.mont. Elisabeth Ladstätter (CEO), Prof. Dr. Wolfgang Kern (CSO)
<b>Contact:</b>	Roseggerstraße 12, A-8700 Leoben +43 3842 42962 0. office@pccl.at; www.pccl.at

<sup>1</sup> Partners with headquarters outside Austria