

## COMET-Centre (K2)

<b>IC-MPPE</b> <b>Integrated Computational Materials, Process and Product Engineering</b>	
<b>Main location</b>	Roseggerstrasse 12, A-8700, Leoben, Styria, Austria
<b>Other locations</b>	-
<b>Research programme</b>	<p>The research program focuses on fundamentals and methods for Integrated Computational Engineering of Materials, Processes and Products. The activities include the utilization of sophisticated computer models for digitizing and virtualizing of design, production and use of products.</p> <p>The activities are structured in the following four Research Areas: Area 1: Fundamentals for Integrated Computational Materials, Process and Product Engineering, Area 2: Material Engineering, Area 3: Process Engineering, Area 4: Product Engineering.</p>
<b>Planned realisation and outcomes</b>	
<p>The COMET Center IC-MPPE is aiming at the rigorous integration of theoretical fundamentals, topical validated computational methods, and key enabling technologies in order to support material based innovations. In addition, the COMET Center IC-MPPE is paying special attention to concurrent material, process and product engineering, cost effectiveness, quality, material and energy saving, and digitizing of production chains.</p>	
<b>History of establishment</b>	<ul style="list-style-type: none"> <li>• Foundation as Competence Center in frame of the Kplus Competence Center program in 1999</li> <li>• Implementation of the COMET K2 Center on “Integrated Research in Materials, Processing and Product Engineering (MPPE)” in 2008</li> </ul>
<b>Selected company partners</b> (max. 10)	<b>Selected scientific partners</b> (max. 5) <ol style="list-style-type: none"> <li>1. Montanuniversität Leoben, Austria</li> <li>2. Austrian Academy of Sciences, Austria</li> <li>3. Vienna University of Technology, Austria</li> <li>4. Norwegian University of Science and Technology, Norway</li> <li>5. University of Warwick, United Kingdom</li> </ol>
<ol style="list-style-type: none"> <li>1. voestalpine Stahl GmbH</li> <li>2. Böhler Edelstahl GmbH &amp; Co KG</li> <li>3. AMAG Rolling GmbH</li> <li>4. CERATIZIT Austria Gesellschaft m.b.H.</li> <li>5. RHI AG</li> <li>6. Siemens AG Österreich</li> <li>7. Andritz Hydro GmbH</li> <li>8. EPCOS OHG</li> <li>9. Infineon Technologies Austria AG</li> <li>10. ams AG</li> </ol>	<b>Selected international partners<sup>1</sup></b> (max. 5) <ol style="list-style-type: none"> <li>1. Robert Bosch GmbH, Germany</li> <li>2. HILTI AG, Liechtenstein</li> <li>3. Continental Automotive GmbH, Germany</li> <li>4. International Zinc Association, USA</li> <li>5. Hegenscheidt MFD GmbH, Germany</li> </ol>
<b>Duration of the COMET-Centre</b>	01 / 2018 – 12 / 2025 (8 years)
<b>Staff employed at the Centre</b>	Total: 103 FTE (thereof 81 scientists) thereof COMET: 65 FTE (thereof 50 scientists)
<b>Total costs</b>	1 <sup>st</sup> Funding period: EUR 43.636 Mio (4 years)
<b>Management of the Centre</b>	Prof. Reinhold Ebner, Materials Center Leoben Forschung GmbH, General Manager
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<sup>1</sup> Partners with headquarters outside Austria