COMET CENTRE (K2)

MATERIALS CENTER LEOBEN FORSCHUNG GMBH

RESEARCH PROGRAMME: IC-MPPE – INTEGRATED COMPUTATIONAL MATERIALS, PROCESS AND PRODUCT ENGINEERING

Main location: Leoben (Styria) Other locations: none Thematic area: Materials & production



Thematic focuses

- Fundamentals for integrated computational material, process und product engineering
- Material engineering
- Process engineering
- Product engineering

Planned realisation and outcomes

The COMET Center IC-MPPE focuses on the integrated computer-aided development of materials, production processes and products. The goal is to support companies from the production sector in the realization of material-based, resource-saving and climate-friendly innovations as well as in the digitalization of the production chain. To this end, IC-MPPE develops hybrid physics-based and data-based models and software tools, and it accelerates development processes through the use of artificial intelligence.

History of establishment

1999: Founded as a competence center under the Kplus Competence Centers Program 2008 to 2017: K2 Center MPPE, project volume ~ 110 million € (completed) 2018 to 2026: K2 Center IC-MPPE, project volume ~ 88 million € (ongoing)

Federal Ministry Republic of Austria Climate Action, Environment, Energy, Mobility, Innovation and Technology Federal Ministry Republic of Austria Labour and Economy Austrian Research Promotion Agency Sensengasse 1 A-1090 Vienna P +43 (0) 5 77 55 - 0 office@ffg.at www.ffg.at

COMET FACTSHEET



Selected company partners (max. 10):

- 1. voestalpine Stahl GmbH
- 2. voestalpine BÖHLER Edelstahl GmbH & Co KG
- 3. AMAG Rolling GmbH
- 4. Ceratizit Austria GmbH
- 5. RHI Magnesita GmbH
- 6. Siemens Mobility GmbH
- 7. Primetals Technologies Austria GmbH
- 8. AT&S Austria Technologie & Systemtechnik Aktiengesellschaft
- 9. Infineon Technologies Austria AG
- 10. ÖBB Infrastruktur AG

Selected scientific partners (max. 5):

- 1. Montanuniversität Leoben (Austria)
- 2. Austrian Academy of Sciences (Austria)
- 3. Vienna University of Technology (Austria)
- 4. Politecnico di Milano (Italy)
- 5. University of Warwick (United Kingdom)

Selected international¹ partners (max. 5):

- 1. Robert Bosch GmbH, Germany (Germany)
- 2. Ceratizit Luxembourg S.a.r.l. (Luxembourg)
- 3. International Zinc Association (USA)
- 4. Hegenscheidt MFD GmbH (Germany)
- 5. Lucchini RS S.p.a. (Italy)

Duration: Staff employed at the Centre:	01.01.2018 – 31.12.2026 (9 years) 124 FTE, thereof 100 scientists
Management:	Prof. Dr. Reinhold Ebner
Contact:	Materials Center Leoben Forschung GmbH Roseggerstraße 12, 8700 Leoben +43 3842 459220 mclburo@mcl.at www.mcl.at

Status 30.7.2021

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¹ Partners with headquarters outside Austria