

COMET CENTRE

LINZ CENTER OF MECHATRONICS GMBH

RESEARCH PROGRAMME: CREATE! - CENTER FOR RESEARCH ON EMERGING AND ADVANCED TECHNOLOGIES IN ENGINEERING (LCM-CREATE!)

Main location: Linz (Upper Austria)

Other locations: none

Thematic area: Materials & Manufacturing



Thematic focuses

- Next-generation drive systems and system design automation
- Computational engineering, simulation workflows and digital twins
- Secure sensing, industrial IoT and reliable industrial data analysis
- Mechatronic DevOps, Digital Thread and research platforms
- Emerging technologies for industrial resilience, sustainability and technological sovereignty

Planned realisation and outcomes

LCM-CREATE! establishes the Centre as a central integrator of cross-disciplinary research, converging mechatronics with emerging technologies such as AI-assisted modelling, digital twins, secure sensing, automation and operational technology security. The programme is organised in three research areas - DRIVES, COMP and SENSE - and connects strategic research, multi-firm industrial projects and shared platforms for design automation and industrial IoT. Its research enhances competitiveness by speeding up technology integration, strengthens resilience through robust and fault-tolerant system design, and promotes sustainability by reducing energy demand and material use while enabling intelligent material substitution strategies. Expected outcomes include faster and more robust development of next-generation drive systems, virtual and data-enhanced engineering workflows, secure acquisition and analysis of industrial data from challenging environments, and validated demonstrators that help companies transfer research results into sustainable products and processes. LCM-CREATE! thereby strengthens industrial competitiveness, resilience, sustainability and technological sovereignty.

History of establishment

Linz Center of Mechatronics GmbH was established in 2001 by the association of scientific and industrial partners of the Linz Center of Competence in Mechatronics and UAR GmbH. In 2013, LCM merged with its subsidiary ACCM GmbH and assumed responsibility for the COMET K2 Center ACCM "Austrian Center of Competence in Mechatronics". LCM-CREATE! follows the successful COMET K2 Centre "Symbiotic Mechatronics" and starts a new era of advanced engineering research for secure and flexible systems.

COMET FACTSHEET

Selected company partners (max. 10):

1. BRP-Rotax GmbH & Co KG
2. ENGEL AUSTRIA GmbH
3. KEBA Industrial Automation GmbH
4. ÖBB Infrastruktur AG
5. Primetals Technologies Austria GmbH
6. Robert Bosch AG
7. Salvagnini Maschinenbau GmbH
8. Siemens Energy Austria GmbH
9. TRUMPF Maschinen Austria GmbH + Co. KG
10. voestalpine Stahl GmbH

Selected scientific partners (max. 5):

1. Brno University of Technology
2. Fraunhofer LBF Darmstadt
3. Johannes Kepler University Linz
4. Robert Gordon University
5. University of Minnesota

Selected international¹ partners (max. 5):

1. Berges Mechanics GmbH
2. Cardiology Devices Ltd
3. FLOW-TRONIC S.A./N.V.
4. HANNING ELEKTRO-WERKE GmbH & Co. KG
5. RIETER CZ s.r.o.

Duration: 01.01.2027 - 31.12.2034 (8 years)

Staff employed at the Centre: 90 FTE, thereof 75 scientists

Management: Dr. Johann Hoffelner, CEO
Dr. Manfred Nader, CSO

Contact: Linz Center of Mechatronics GmbH
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www.ffg.at/comet

¹ Partners with headquarters outside Austria