

COMET CENTRE (K1)

SOFTWARE COMPETENCE CENTER HAGENBERG GMBH

RESEARCH PROGRAMME: INTEGRATE –

COMPETENCE CENTER FOR INTEGRATED SOFTWARE AND AI SYSTEMS

Main location: Hagenberg (Upper Austria)

Other locations: Linz (Upper Austria)

Thematic area: Digitalization / ICT

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software
competence
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hagenberg
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Thematic focuses

- Integrated Software and AI Systems
- Data and AI Modelling
- Software Systems Engineering
- Integrated Monitoring and Diagnosis
- Emerging Computing Technologies (e.g., Quantum Computing)

Planned realisation and outcomes

Research on an integrated software and AI engineering cycle that combines data and AI modelling, software evolution, as well as standard/regulation conformity and that is also ready for upcoming emerging technologies.

Solutions for digital challenges (e.g., support in mitigating the current global climate and environmental crisis while preserving human values) that cannot be addressed by focusing on a single digital enabler alone (such as Artificial Intelligence (AI)), but requires an integrated effort in AI, software, and upcoming emerging technologies such as quantum and neuromorphic computing – demanding cross-cutting and integrated research in all these domains. At the same time, the immanent requirements and upcoming standards and regulations for safety, security, energy-efficiency and ethical conformity need to be considered and ensured.

Thus, research on emerging computing technologies, especially quantum and neuromorphic computing, transferable and hybrid AI systems, software systems engineering for no-code and low-code approaches, and ensuring standards and regulations before and after deployment regarding reliability, security, resource efficiency and ethical policies.

History of establishment

The Software Competence Center Hagenberg was founded in July 1999 within the framework of the K plus Competence Center Program as an initiative of the Johannes Kepler University Linz. Since January 2008, the SCCH is a COMET K1 Center with a focus on Data Science and Software Science.

COMET FACTSHEET

Selected company partners (max. 10):

1. Borealis Polyolefine GmbH
2. ENGEL AUSTRIA GmbH
3. Fronius International GmbH
4. Kapsch TrafficCom AG
5. KEBA Group AG
6. Primetals Technologies Austria GmbH
7. RUBBLE MASTER HMM GmbH
8. Siemens Energy Austria GmbH – Transformers Linz
9. STARLIM Spritzguss GmbH
10. TRUMPF Maschinen Austria GmbH & Co.KG

Selected scientific partners (max. 5):

1. Johannes Kepler University Linz
2. University of Passau
3. Czech Technical University in Prague
4. Radboud University
5. University of Klagenfurt

Selected international¹ partners (max. 5):

1. Robert Bosch AG
2. VAT Vakuumteile AG
3. Siemens Energy GmbH
4. backaldrin International The Kornspitz Company GmbH
5. University of Tartu

Duration:	01.01.2023 - 31.12.2026 (4 years)
Staff employed at the Centre:	100.56 FTE, thereof 83.64 scientists
Management:	Dipl.-Umweltwiss. Mag. Markus Manz, CEO Univ.-Prof. Mag. Dr. Rick Rabiser, CSO
Contact:	Software Competence Center Hagenberg GmbH Softwarepark 32a, 4232 Hagenberg +43 50 343 office@scch.at www.scch.at

Status 13.05.2025

The COMET Centre is funded within COMET – Competence Centers for Excellent Technologies – by BMIMI, BMWET as well as the co-financing federal province Upper Austria. The COMET programme is managed by FFG.
www.ffg.at/comet

¹ Partners with headquarters outside Austria