

COMET CENTRE

COMPETENCE CENTER CHASE GMBH

CHEMICAL SYSTEMS ENGINEERING

Main location: Linz (Upper Austria)
Other locations: Vienna
Thematic area: Material & Production



Thematic focuses

CHASE is a European Research and Technology Organization for Chemical Systems Engineering with its headquarters in Austria. We enable companies in the process industry to make their production more energy-efficient, resource-saving and cost-saving while maintaining and improving its quality, to meet regulatory requirements and to achieve greater sustainability through digitalization.

As a COMET competence center for excellent technologies, we support our customers with application-oriented research at an international level, new impulses for innovations in every phase and competence from three areas:

- Process Digitalization
- Process Intensification
- Circular Process Streams

Planned realisation and outcomes

CHASE addresses the critical parameter spaces in time and space relevant scales in the industrial environment. The industrial chemical processes will be transferred to relevant and flexible scales (via existing and new pilot lines) and the chemical systems will be evaluated applying new process analytical techniques as well as hybrid models. The overall goal is to develop a digital twin describing the respective process chain in order to enable an efficient, flexible and predictive process management and control.

By combining the scientific competencies of JKU Linz, TU Vienna and other non-university research institutions, CHASE enables corporate partners to quickly enter efficient and sustainable production.

History of establishment

CHASE builds on the successful COMET K-projects "PAC" (analytics and data analysis) and "imPACts" (process analytics and model development) and extends the methods portfolio in direction of a systemic approach towards chemical systems engineering (digitalization, intensification, circularisation).

COMET FACTSHEET

Selected company partners (max. 10):

1. Agrana
2. Borealis
3. Engel
4. Erema
5. MAS Austria
6. Neveon
7. OMV
8. RICO Elastomere
9. Semperit
10. ThermoFisher

Selected scientific partners (max. 5):

1. Johannes Kepler Universität Linz
2. Technische Universität Wien
3. SCCH Software Competence Center Hagenberg
4. TCKT Transfercenter für Kunststofftechnik
5. FH Oberösterreich University of Applied Sciences

Selected international¹ partners (max. 5):

1. Festo
2. Leistritz
3. Plasmion
4. Prezero

Duration: 01.10.2019 – 30.09.2027
Staff employed at the Centre: 40 FTE, thereof 35 scientists

Management: MANAGING DIRECTOR
Patrick Pammer

SCIENTIFIC DIRECTOR
Univ.-Prof. DI Dr. Christian Paulik

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Status 04/2025

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

¹ Partners with headquarters outside Austria