

COMET CENTRE (K1)

COMPETENCE CENTER CHASE GMBH

RESEARCH PROGRAMME: CHASE – CHEMICAL SYSTEMS ENGINEERING

Main location: Linz (Upper Austria)

Other locations: Vienna

Thematic area: Materials & production



Thematic focuses

CHASE is developing a new knowledge platform for the energy-, resource- and cost-intensive processes of the process industry. To this end, CHASE generates a highly networked spectrum of methods in three research 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 (digitalisation, intensification, circularisation).

COMET FACTSHEET

Selected company partners (max. 10):

1. Agrana
2. Bilfinger
3. Borealis
4. Engel
5. Erema
6. FACC
7. Greiner
8. OMV
9. Sappi

Selected scientific partners (max. 5):

1. Johannes Kepler University Linz (JKU Linz)
2. SCCH Software Competence Center Hagenberg
3. TCKT Transfercenter für Kunststofftechnik GmbH
4. Vienna University of Technology

Selected international¹ partners (max. 5):

1. Covestro
2. Festo
3. Heraeus
4. Renolit

Duration: 01.04.2019 – 31.03.2027 (8 years)

Staff employed at the Centre: 40 FTE, thereof 36 scientists

Management: Patrick Pammer, Managing Director
Univ.-Prof. DI Dr. Christian Paulik, Scientific Director

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¹ Partners with headquarters outside Austria